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	NAPP2130053365
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # *(assigned by OCD)*
Contact mailing address	

Location of Release Source

Latitude _____ Longitude _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Site Type
Date Release Discovered	API# *(if applicable)*

Unit Letter	Section	Township	Range	County

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☐ Private (*Name:* _____)

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release		

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2130053365
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

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

- ☐ The source of the release has been stopped.
- ☐ The impacted area has been secured to protect human health and the environment.
- ☐ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- ☐ All free liquids and recoverable materials have been removed and managed appropriately.

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

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

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

Printed Name: _____ Title: _____

Signature: Adrian Baker Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Ramona Marcus Date: 11/1/2021

NAPP2130053365

Location:	Perla Verde Battery	
Spill Date:	10/24/2021	

Area 1		
Approximate Area =	1136.00	sq. ft.
Average Saturation (or depth) of spill =	0.50	inches
Average Porosity Factor =	0.03	
VOLUME OF LEAK		
Total Crude Oil =	0.25	bbls
Total Produced Water =	0.00	bbls

Area 2		
Approximate Area =	1144.00	sq. ft.
Average Saturation (or depth) of spill =	0.08	inches

Average Porosity Factor =	0.03	

VOLUME OF LEAK		
Total Crude Oil =	0.04	bbls
Total Produced Water =	0.00	bbls

TOTAL VOLUME OF LEAK		
Total Crude Oil =	**0.29**	**bbls**
Total Produced Water =	**0.00**	**bbls**
TOTAL VOLUME RECOVERED		
Total Crude Oil =	**0.00**	**bbls**
Total Produced Water =	**0.00**	**bbls**

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 58219
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rmarcus	None	11/1/2021

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2130053365
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	50-100 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ No

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

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

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

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

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2130053365
District RP	
Facility ID	
Application ID	

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

Printed Name: Adrian Baker Title: Environmental Coordinator

Signature: Adrian Baker Date: 1/22/2022

email: Adrain.Baker@exxonmobil.com Telephone: (432)-263-3808

OCD Only

Received by: Date:

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2130053365
District RP	
Facility ID	
Application ID	

Closure

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

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

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

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

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

☒ Description of remediation activities

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

Printed Name: Adrian Baker Title: Environmental Coordinator

Signature: Adrian Baker Date: 1/22/2022

email: Adrian.Baker@exxonmobil.com Telephone: 432-263-3808

OCD Only

Received by: Chad Hensley Date: 02/09/2022

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

Closure Approved by: Chad Hensley Date: 02/09/2022

Printed Name: Chad Hensley Title: Environmental Specialist Advanced

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

January 19, 2022

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

RE: Closure Request
Perla Verde Tank Battery
Incident Number NAPP2130053365
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, soil sampling, and excavation activities at the Perla Verde Tank Battery (Site) in Unit J, Section 31, Township 19 South, Range 35 East, in Lea County, New Mexico (Figure 1). The purpose of the site assessment, soil sampling, and excavation activities was to address impacts to soil following a crude oil flare fire release at the Site. Based on the excavation activities and soil sample laboratory analytical results, XTO is submitting this Closure Request, describing remediation that has occurred and requesting no further action (NFA) for Incident Number NAPP2130053365.

RELEASE BACKGROUND

On October 24, 2021, fluids collected in the flare line, resulting in the release of approximately 0.29 barrel (bbl) of crude oil through the flare stack, which resulted in a small fire. The fire quickly extinguished itself and there were no standing fluids to recover. XTO immediately reported the release to the New Mexico Oil Conservation Division (NMOCD) via email on October 25, 2021. A Release Notification Form C-141 (Form C-141) was submitted on October 27, 2021 and the release was assigned Incident Number NAPP2130053365.

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 between 50-100 feet (below ground surface) bgs based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is the United States Geological Survey (USGS) well 323545103285701, located approximately 1.16 miles southeast of the Site. The groundwater well has reported depth to groundwater of 53 feet bgs and a total depth of 70 feet bgs. Ground surface

elevation at the groundwater well location is 3,685 feet above mean sea level (amsl), which is 24 feet lower in elevation than the Site. The referenced well records are included in Attachment 1.

The nearest continuously flowing water or significant watercourse to the Site is a seasonal riverine located approximately 1 mile northwest to the Site. The Site is located greater than 200 feet of a lakebed and 300 feet from a wetland. The Site is not located within a 100-year floodplain. The Site is located greater than 300 feet from an occupied residence, school, hospital, institution, or church. The Site is located greater than 1,000 feet to a freshwater well or spring. The Site is not underlain by unstable geology (low karst potential designation area). Site receptors are identified in 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): 2,500 mg/kg
- Chloride: 10,000 mg/kg

A reclamation standard of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top four feet of the pasture area that was impacted by the release, per NMAC 19.15.29.13.D (1) for the top four feet of areas that will be reclaimed following remediation.

SITE ASSESSMENT AND EXCAVATION ACTIVITIES

On January 4, 2022, WSP personnel were at the Site to evaluate the flare fire release extent and oversee site assessment and excavation activities. WSP personnel collected preliminary assessment soil samples SS01 through SS07 from a depth of 0.5 feet bgs to assess the lateral extent of impacted soil. Soil was field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photoionization detector (PID) and Hach® chloride QuanTab® test strips, respectively.

Based on field screening results for preliminary samples SS01 through SS07 and visible surface staining in the release area, additional delineation activities were warranted. Potholes PH01 and PH02 were advanced via backhoe to a depth of 1-foot bgs at the SS01 and SS02 preliminary soil sample locations to assess the vertical extent of impacted soil. Vertical delineation samples were collected from potholes PH01 and PH02 from a depth of 1-foot bgs. Potholes were also advanced to a depth of 1-foot bgs at the SS03 through SS07 preliminary soil sample locations to confirm the absence of impacted soil in these areas. Vertical delineation samples SS03A through SS07A

were collected from the potholes from a depth of 1-foot bgs. Soil from the potholes was field screened for volatile aromatic hydrocarbons and chloride utilizing a PID and Hach® chloride QuanTab® test strips, respectively. The release extent and preliminary and delineation soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.

Upon completion of site assessment activities, excavation was completed to remove surficial staining in the release footprint and remove impacted soil in the area surrounding preliminary soil samples SS01 and SS02. Excavation activities were performed using a track-mounted backhoe 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. The excavation was completed to an approximate depth of 1-foot bgs.

Following removal of impacted soil, WSP collected 5-point composite soil samples every 200 square feet from the 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 FS01 and FS02 were collected from the floor of the excavation, from a depth of 1-foot bgs. Due to the shallow depth of the excavation, the soil samples represented the floor and sidewalls of the excavation. The excavation extent and excavation soil sample locations are presented on Figure 3. Photographic documentation was conducted during the Site visits. A photographic log is included in Attachment 2.

The excavation measured approximately 380.5 square feet. A total of approximately 14.1 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 was backfilled.

The preliminary, delineation, and excavation 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.

SOIL ANALYTICAL RESULTS

Laboratory analytical results for samples PH01, PH02, and SS03/SS03A through SS07/SS07A indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria and compliant with the reclamation standard.

Laboratory analytical results for surface samples SS01 and SS02 indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria; however, excavation was completed due to elevated TPH concentrations and visible hydrocarbon staining in these areas.

Laboratory analytical results for excavation floor samples FS01 and FS02, collected from the final excavation extent, indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria and compliant with the most stringent Table 1 Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Attachment 3.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the October 24, 2021 crude oil flare fire. Laboratory analytical results for the delineation soil samples and excavation soil samples indicated that benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria and the reclamation standard. Based on the soil sample analytical results no further remediation was required. 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 NAPP2130053365.

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

Sincerely,

WSP USA Inc.

Nihaar Katoch
Assistant Consultant, Geologist

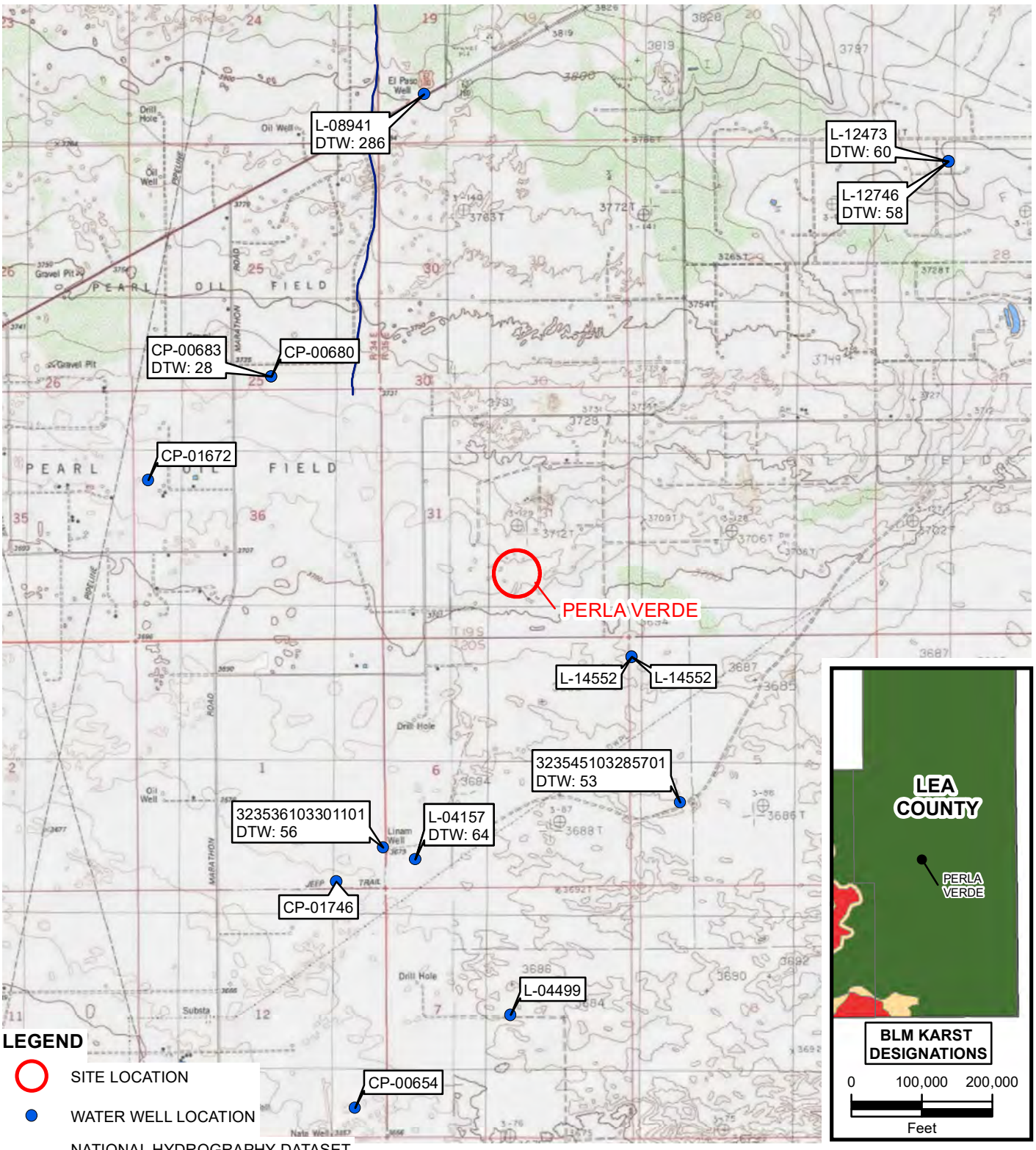
Ashley L. Ager, P.G.
Managing Director, Geologist

cc: Adrian Baker, XTO
Ryan Mann, New Mexico State Land Office

Attachments:

Figure 1 Site Location Map

FIGURES



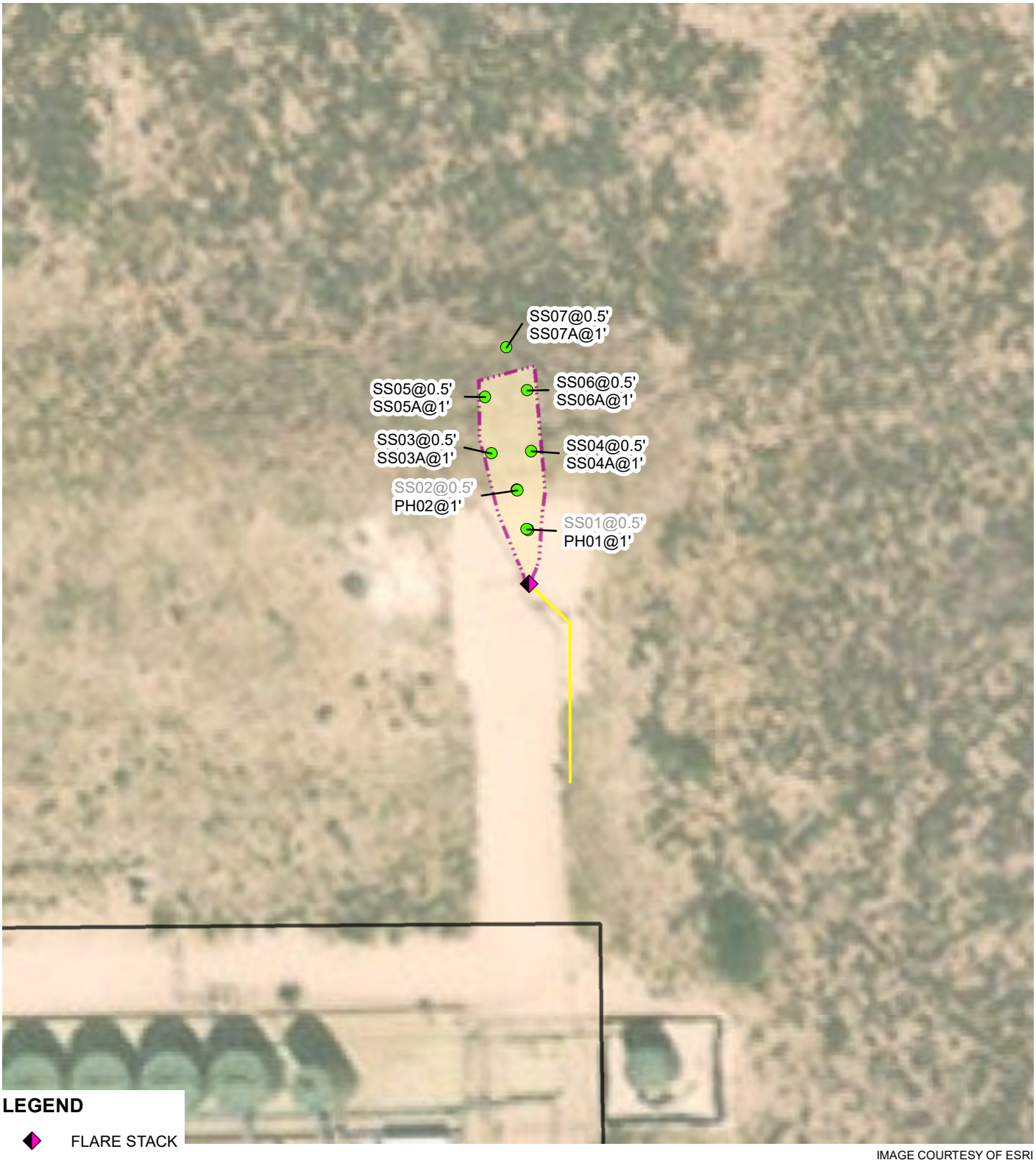
LEGEND

- SITE LOCATION
- WATER WELL LOCATION
- NATIONAL HYDROGRAPHY DATASET SURFACE WATER FEATURE
- NATIONAL WETLANDS INVENTORY SURFACE WATER FEATURE
- LOW KARST
- MEDIUM KARST
- HIGH KARST

NOTE: INCIDENT NUMBER nAPP2130053365
DTW: DEPTH TO WATER IN FEET
BLM: BUREAU OF LAND MANAGEMENT

FIGURE 1
SITE LOCATION MAP
PERLA VERDE
UNIT J SEC 31 T19S R35E
LEA COUNTY, NEW MEXICO
XTO ENERGY, INC

P:\XTO Energy\GIS\31403236.029.03_PERLA VERDE BATTERY\MXD\31403236.029.03_FIG01_SL_RECEPTOR_2021.mxd



LEGEND

- FLARE STACK
- SOIL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- GAS LINE
- RELEASE EXTENT
- PAD BOUNDARY

NOTE: INCIDENT NUMBER nAPP2130053365
SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)
TEXT: INDICATES SOIL REPRESENTED BY SAMPLE THAT WAS REMOVED

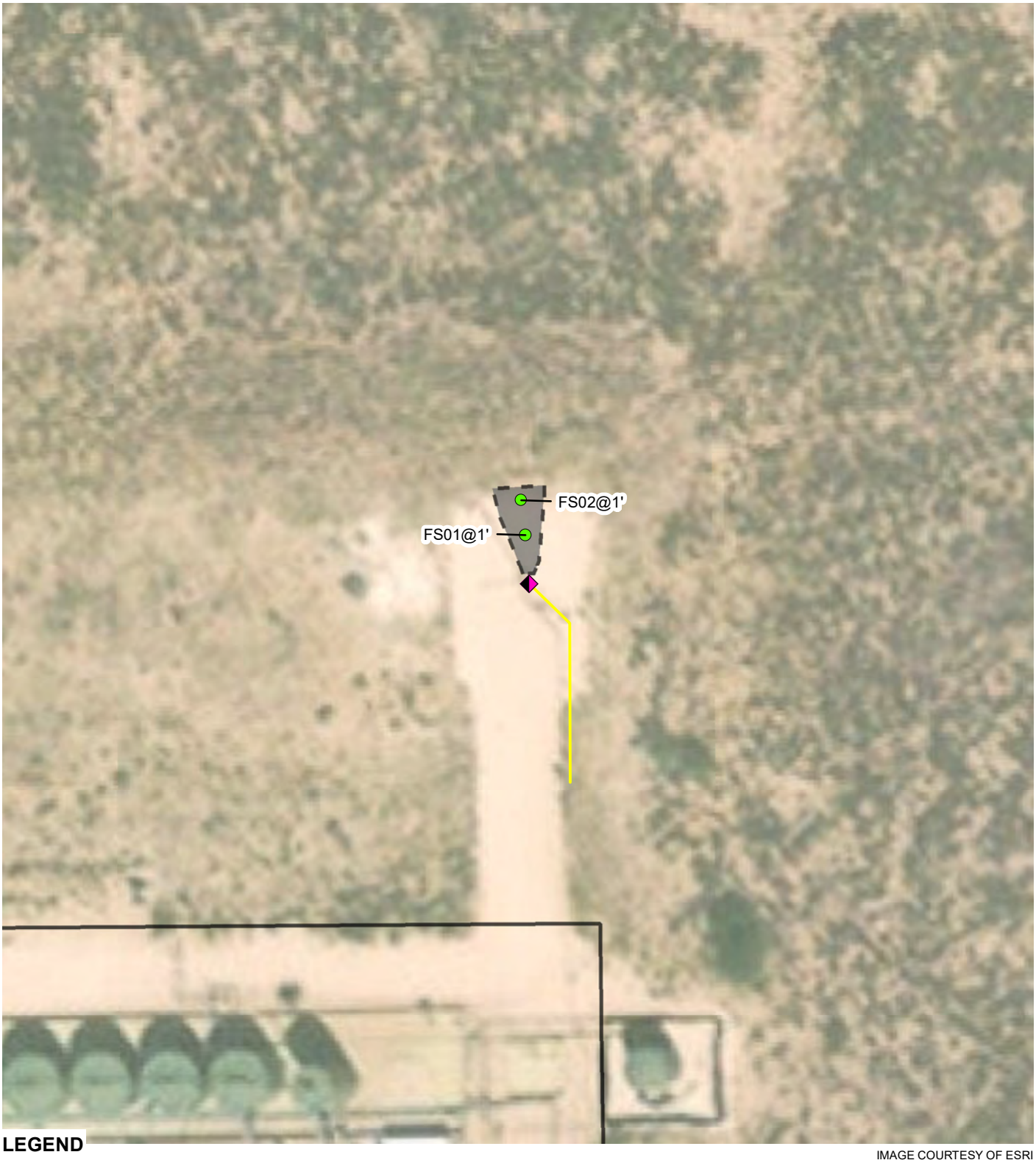
IMAGE COURTESY OF ESRI

0 50 100
Feet

N

FIGURE 2
SOIL SAMPLE LOCATIONS
PERLA VERDE
UNIT J SEC 31 T19S R35E
LEA COUNTY, NEW MEXICO
XTO ENERGY, INC.

P:\XTO Energy\GIS\31403236.029.03_PERLA VERDE BATTERY\MXD\31403236.029.03_FIG02_SS_LOC_2022.mxd



LEGEND

- FLARE STACK
- FLOOR SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- GAS LINE
- EXCAVATION EXTENT
- PAD BOUNDARY

NOTE: INCIDENT NUMBER nAPP2130053365
SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

IMAGE COURTESY OF ESRI

0 50 100
Feet

N

FIGURE 3
EXCAVATION SOIL SAMPLE LOCATIONS
PERLA VERDE
UNIT J SEC 31 T19S R35E
LEA COUNTY, NEW MEXICO
XTO ENERGY, INC.

P:\XTO Energy\GIS\31403236.029.03_PERLA VERDE BATTERY\MXD\31403236.029.03_FIG04_EXCAVATION_2022.mxd

TABLES

Table 1

Soil Analytical Results
Perla Verde
Incident Number nAAP2130053365
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 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	10,000
Preliminary/Delineation Soil Samples										
SS01	01/04/2022	0.5	<0.00199	<0.00398	194	<49.9	<49.9	194	194	307
PH01	01/04/2022	1	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	22.50
SS02	01/04/2022	0.5	<0.00200	<0.00200	218	<50.0	<50.0	218	218	6.15
PH02	01/04/2022	1	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	<4.95
SS03	01/04/2022	0.5	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	<4.99*
SS03A	01/04/2022	1	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	<5.01*
SS04	01/04/2022	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	4.98*
SS04A	01/04/2022	1	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	4.95*
SS05	01/04/2022	0.5	<0.00201	<0.00402	61.8	<49.9	<49.9	61.8	61.8	<4.96*
SS05A	01/04/2022	1	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	<5.04*
SS06	01/04/2022	0.5	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	<4.97*
SS06A	01/04/2022	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	<5.00*
SS07	01/04/2022	0.5	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	<5.00*
SS07A	01/04/2022	1	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	<4.95*
Excavation Floor Samples										
FS01	01/04/2022	1	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	36.70
FS02	01/04/2022	1	<0.00200	<0.00399	79.1	<50.0	<50.0	79.1	79.1	<4.98

Notes:

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 - 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 soil was excavated
* - indicates sample was collected in area to be reclaimed after remediation is complete; closure criteria for chloride concentration in the top 4 feet of soil is 600 mg/kg

ATTACHMENT 1: REFERENCED WELL RECORD

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater | Geographic Area: United States | GO

Click to hideNews Bulletins

- Explore the *NEW* USGS National Water Dashboard interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 323545103285701

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

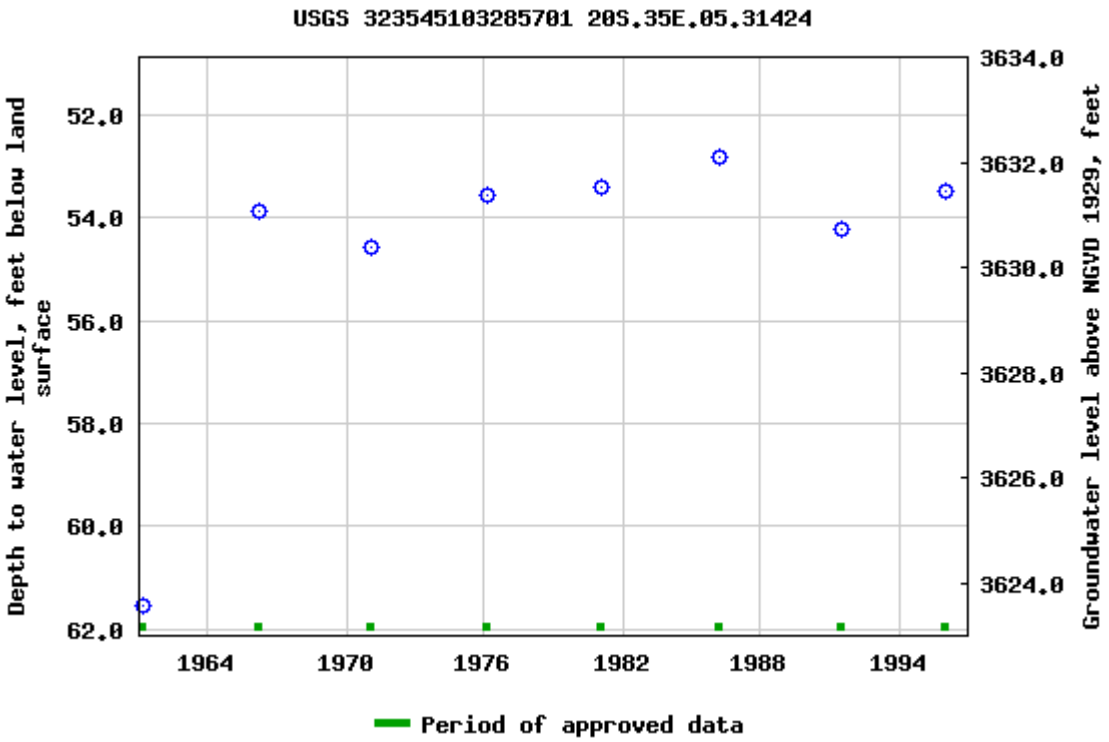
USGS 323545103285701 20S.35E.05.31424

Available data for this site | Groundwater: Field measurements | GO

Lea County, New Mexico
Hydrologic Unit Code 13060011
Latitude 32°35'59", Longitude 103°29'03" NAD27
Land-surface elevation 3,685.00 feet above NGVD29
The depth of the well is 70 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period



Breaks in the plot represent a gap of at least one year between field measurements.
Download a presentation-quality graph

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

Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2021-12-27 13:34:53 EST
0.55 0.49 nadww01

New Mexico Office of the State Engineer
Water Right Summary

get image list

WR File Number: L 04157 **Subbasin:** L **Cross Reference:** -

Primary Purpose: DOL 72-12-1 DOMESTIC AND LIVESTOCK WATERING

Primary Status: PMT PERMIT

Total Acres: **Subfile:** - **Header:** -

Total Diversion: 3 **Cause/Case:** -

Owner: VIRGIL LINAM

Documents on File

	Trn #	Doc	File/Act	Status 1	Status 2	Transaction Desc.	From/ To	Acres	Diversion	Consumptive
get images	492205	72121	1959-05-25	PMT	LOG	L 04157	T		3	

Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q 64	Q16	Q4	Sec	Tws	Rng	X	Y	Other Location Desc
L 04157		Shallow		3	3	06	20S	35E	640483	3607561*	

***An (*) after northing value indicates UTM location was derived from PLSS - see Help**

New Mexico Office of the State Engineer
Point of Diversion Summary

Well Tag	POD Number	Q64	Q16	Q4	Sec	Twn	Rng	X	Y
	L 04157	3	3		06	20S	35E	640483	3607561*

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest)
(NAD83 UTM in meters)

Driller License: 208 **Driller Company:** VAN NOY, W.L.

Driller Name:

Drill Start Date: 12/12/1959 **Drill Finish Date:** 12/13/1959 **Plug Date:**

Log File Date: 12/18/1959 **PCW Rcv Date:** **Source:** Shallow

Pump Type: **Pipe Discharge Size:** **Estimated Yield:**

Casing Size: 5.00 **Depth Well:** 70 feet **Depth Water:** 64 feet

Water Bearing Stratifications:	Top	Bottom	Description
	65	68	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	50	70

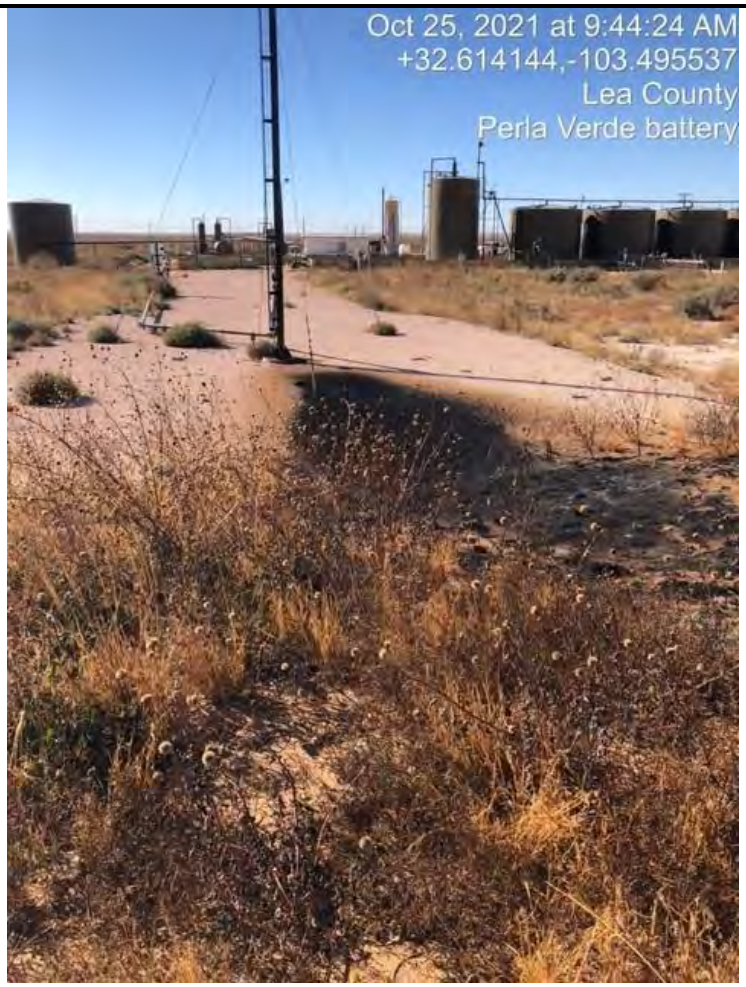
***UTM location was derived from PLSS - see Help**

ATTACHMENT 2: PHOTOGRAPHIC LOG

PHOTOGRAPHIC LOG		
XTO Energy	Perla Verde Lea County, New Mexico	NAPP2130053365

Photo No.	Date
1	October 25, 2021

Initial site assessment showing release facing south



PHOTOGRAPHIC LOG		
XTO Energy	Perla Verde Lea County, New Mexico	NAPP2130053365

Photo No.	Date
2	October 25, 2021

Initial site assessment showing release facing north

PHOTOGRAPHIC LOG		
XTO Energy	Perla Verde Lea County, New Mexico	NAPP2130053365

Photo No.	Date
3	January 4, 2022

View of excavation activities during excavation.

PHOTOGRAPHIC LOG		
XTO Energy	Perla Verde Lea County, New Mexico	NAPP2130053365

Photo No.	Date
4	January 4, 2022

View of excavation activities after excavation.

ATTACHMENT 3: LABORATORY ANALYTICAL REPORTS

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1800-1
Laboratory Sample Delivery Group: 31403236.029 task 03.02
Client Project/Site: Perla Verde Battery
Revision: 1

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

Attn: Benjamin Belill

JKramer

Authorized for release by:
1/12/2022 8:58:25 AM

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

Client: WSP USA Inc.
Project/Site: Perla Verde Battery

Laboratory Job ID: 890-1800-1
SDG: 31403236.029 task 03.02

Table of Contents

Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-1800-1
Project/Site: Perla Verde Battery SDG: 31403236.029 task 03.02

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
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
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

Client: WSP USA Inc.
Project/Site: Perla Verde Battery

Job ID: 890-1800-1
SDG: 31403236.029 task 03.02

Job ID: 890-1800-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-1800-1

REVISION

The report being provided is a revision of the original report sent on 1/11/2022. The report (revision 1) is being revised due to Per client email, corrected sample SS01A to FS01 and SS02A to FS02.

Report revision history

Receipt
The samples were received on 1/5/2022 3:21 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 1.2°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 and precision for preparation batch 880-16429 and analytical batch 880-16480 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: WSP USA Inc.
Project/Site: Perla Verde Battery

Job ID: 890-1800-1
SDG: 31403236.029 task 03.02

Client Sample ID: PH01
Date Collected: 01/04/22 10:52
Date Received: 01/05/22 15:21
Sample Depth: 1

Lab Sample ID: 890-1800-1
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/07/22 08:00	01/07/22 15:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/07/22 08:00	01/07/22 15:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/07/22 08:00	01/07/22 15:03	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/07/22 08:00	01/07/22 15:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/07/22 08:00	01/07/22 15:03	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/07/22 08:00	01/07/22 15:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*140*	*S1+*	*70 - 130*	*01/07/22 08:00*	*01/07/22 15:03*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*01/07/22 08:00*	*01/07/22 15:03*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			01/10/22 11:51	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/10/22 12:40	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/07/22 08:53	01/07/22 15:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/07/22 08:53	01/07/22 15:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/07/22 08:53	01/07/22 15:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*01/07/22 08:53*	*01/07/22 15:49*	*1*
o-Terphenyl	*109*		*70 - 130*	*01/07/22 08:53*	*01/07/22 15:49*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**22.5**	**F1**	4.99		mg/Kg			01/11/22 02:08	1

Client Sample ID: PH02
Date Collected: 01/04/22 10:56
Date Received: 01/05/22 15:21
Sample Depth: 1

Lab Sample ID: 890-1800-2
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/07/22 08:00	01/07/22 15:23	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/07/22 08:00	01/07/22 15:23	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/07/22 08:00	01/07/22 15:23	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		01/07/22 08:00	01/07/22 15:23	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/07/22 08:00	01/07/22 15:23	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		01/07/22 08:00	01/07/22 15:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*01/07/22 08:00*	*01/07/22 15:23*	*1*

Client Sample Results

Client: WSP USA Inc.
Project/Site: Perla Verde Battery

Job ID: 890-1800-1
SDG: 31403236.029 task 03.02

Client Sample ID: PH02

Date Collected: 01/04/22 10:56
Date Received: 01/05/22 15:21
Sample Depth: 1

Lab Sample ID: 890-1800-2

Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*01/07/22 08:00*	*01/07/22 15:23*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			01/10/22 11:51	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/10/22 12:40	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/07/22 08:53	01/07/22 16:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/07/22 08:53	01/07/22 16:09	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/07/22 08:53	01/07/22 16:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*01/07/22 08:53*	*01/07/22 16:09*	*1*
o-Terphenyl	*94*		*70 - 130*	*01/07/22 08:53*	*01/07/22 16:09*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.95	U	4.95		mg/Kg			01/11/22 02:44	1

Client Sample ID: SS01

Date Collected: 01/04/22 10:00
Date Received: 01/05/22 15:21
Sample Depth: 0.5

Lab Sample ID: 890-1800-3

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/07/22 08:00	01/07/22 15:43	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/07/22 08:00	01/07/22 15:43	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/07/22 08:00	01/07/22 15:43	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/07/22 08:00	01/07/22 15:43	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/07/22 08:00	01/07/22 15:43	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/07/22 08:00	01/07/22 15:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*	*01/07/22 08:00*	*01/07/22 15:43*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*01/07/22 08:00*	*01/07/22 15:43*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/10/22 11:51	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**194**		49.9		mg/Kg			01/10/22 12:40	1

Eurofins Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Perla Verde Battery

Job ID: 890-1800-1
SDG: 31403236.029 task 03.02

Client Sample ID: SS01
Date Collected: 01/04/22 10:00
Date Received: 01/05/22 15:21
Sample Depth: 0.5

Lab Sample ID: 890-1800-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/07/22 08:53	01/07/22 16:30	1
Diesel Range Organics (Over C10-C28)	**194**		49.9		mg/Kg		01/07/22 08:53	01/07/22 16:30	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/07/22 08:53	01/07/22 16:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*01/07/22 08:53*	*01/07/22 16:30*	*1*
o-Terphenyl	*88*		*70 - 130*	*01/07/22 08:53*	*01/07/22 16:30*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**307**		5.00		mg/Kg			01/11/22 02:56	1

Client Sample ID: FS01
Date Collected: 01/04/22 13:10
Date Received: 01/05/22 15:21
Sample Depth: 1

Lab Sample ID: 890-1800-4
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/07/22 08:00	01/07/22 16:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/07/22 08:00	01/07/22 16:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/07/22 08:00	01/07/22 16:04	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		01/07/22 08:00	01/07/22 16:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/07/22 08:00	01/07/22 16:04	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/07/22 08:00	01/07/22 16:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*132*	*S1+*	*70 - 130*	*01/07/22 08:00*	*01/07/22 16:04*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*01/07/22 08:00*	*01/07/22 16:04*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			01/10/22 11:51	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/10/22 12:40	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/07/22 08:53	01/07/22 17:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/07/22 08:53	01/07/22 17:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/07/22 08:53	01/07/22 17:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*01/07/22 08:53*	*01/07/22 17:10*	*1*
o-Terphenyl	*93*		*70 - 130*	*01/07/22 08:53*	*01/07/22 17:10*	*1*

Client Sample Results

Client: WSP USA Inc.
Project/Site: Perla Verde Battery

Job ID: 890-1800-1
SDG: 31403236.029 task 03.02

Client Sample ID: FS01

Date Collected: 01/04/22 13:10
Date Received: 01/05/22 15:21
Sample Depth: 1

Lab Sample ID: 890-1800-4
Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**36.7**		4.97		mg/Kg			01/11/22 03:07	1

Client Sample ID: SS02

Date Collected: 01/04/22 10:04
Date Received: 01/05/22 15:21
Sample Depth: 0.5

Lab Sample ID: 890-1800-5
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/07/22 08:00	01/07/22 16:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/07/22 08:00	01/07/22 16:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/07/22 08:00	01/07/22 16:59	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		01/07/22 08:00	01/07/22 16:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/07/22 08:00	01/07/22 16:59	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/07/22 08:00	01/07/22 16:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*01/07/22 08:00*	*01/07/22 16:59*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*01/07/22 08:00*	*01/07/22 16:59*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			01/10/22 11:51	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**218**		50.0		mg/Kg			01/10/22 12:40	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/07/22 08:53	01/07/22 17:30	1
Diesel Range Organics (Over C10-C28)	**218**		50.0		mg/Kg		01/07/22 08:53	01/07/22 17:30	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/07/22 08:53	01/07/22 17:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*76*		*70 - 130*	*01/07/22 08:53*	*01/07/22 17:30*	*1*
o-Terphenyl	*83*		*70 - 130*	*01/07/22 08:53*	*01/07/22 17:30*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.15**		5.04		mg/Kg			01/11/22 03:19	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: Perla Verde Battery

Job ID: 890-1800-1
SDG: 31403236.029 task 03.02

Client Sample ID: FS02
Date Collected: 01/04/22 13:14
Date Received: 01/05/22 15:21
Sample Depth: 1

Lab Sample ID: 890-1800-6
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/07/22 08:00	01/07/22 18:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/07/22 08:00	01/07/22 18:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/07/22 08:00	01/07/22 18:49	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/07/22 08:00	01/07/22 18:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/07/22 08:00	01/07/22 18:49	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/07/22 08:00	01/07/22 18:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*130*		*70 - 130*	*01/07/22 08:00*	*01/07/22 18:49*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*01/07/22 08:00*	*01/07/22 18:49*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/10/22 11:51	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**79.1**		50.0		mg/Kg			01/10/22 12:40	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/07/22 08:53	01/07/22 17:51	1
Diesel Range Organics (Over C10-C28)	**79.1**		50.0		mg/Kg		01/07/22 08:53	01/07/22 17:51	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/07/22 08:53	01/07/22 17:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*01/07/22 08:53*	*01/07/22 17:51*	*1*
o-Terphenyl	*95*		*70 - 130*	*01/07/22 08:53*	*01/07/22 17:51*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.98	U	4.98		mg/Kg			01/11/22 03:55	1

Surrogate Summary

Client: WSP USA Inc.
Project/Site: Perla Verde Battery

Job ID: 890-1800-1
SDG: 31403236.029 task 03.02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-1800-1	PH01	140 S1+	105
890-1800-2	PH02	120	105
890-1800-3	SS01	123	95
890-1800-4	FS01	132 S1+	101
890-1800-5	SS02	114	104
890-1800-6	FS02	130	101
890-1805-A-1-A MS	Matrix Spike	111	100
890-1805-A-1-B MSD	Matrix Spike Duplicate	104	95
LCS 880-16163/1-A	Lab Control Sample	108	98
LCSD 880-16163/2-A	Lab Control Sample Dup	107	93
MB 880-16163/5-A	Method Blank	120	100

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-9941-A-61-E MS	Matrix Spike	76	80
880-9941-A-61-F MSD	Matrix Spike Duplicate	86	88
890-1800-1	PH01	92	109
890-1800-2	PH02	86	94
890-1800-3	SS01	79	88
890-1800-4	FS01	83	93
890-1800-5	SS02	76	83
890-1800-6	FS02	83	95
LCS 880-16210/2-A	Lab Control Sample	97	104
LCSD 880-16210/3-A	Lab Control Sample Dup	105	113
MB 880-16210/1-A	Method Blank	91	108

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: WSP USA Inc.
Project/Site: Perla Verde Battery

Job ID: 890-1800-1
SDG: 31403236.029 task 03.02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-16163/5-A
Matrix: Solid
Analysis Batch: 16202

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 16163

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/07/22 08:00	01/07/22 11:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/07/22 08:00	01/07/22 11:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/07/22 08:00	01/07/22 11:30	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/07/22 08:00	01/07/22 11:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/07/22 08:00	01/07/22 11:30	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/07/22 08:00	01/07/22 11:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*01/07/22 08:00*	*01/07/22 11:30*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*01/07/22 08:00*	*01/07/22 11:30*	*1*

Lab Sample ID: LCS 880-16163/1-A
Matrix: Solid
Analysis Batch: 16202

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 16163

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.09195		mg/Kg		92	70 - 130		
Toluene			0.100	0.09439		mg/Kg		94	70 - 130		
Ethylbenzene			0.100	0.1051		mg/Kg		105	70 - 130		
m-Xylene & p-Xylene			0.200	0.1991		mg/Kg		100	70 - 130		
o-Xylene			0.100	0.09446		mg/Kg		94	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: LCSD 880-16163/2-A
Matrix: Solid
Analysis Batch: 16202

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 16163

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.09529		mg/Kg		95	70 - 130	4	35
Toluene			0.100	0.1011		mg/Kg		101	70 - 130	7	35
Ethylbenzene			0.100	0.1017		mg/Kg		102	70 - 130	3	35
m-Xylene & p-Xylene			0.200	0.1942		mg/Kg		97	70 - 130	2	35
o-Xylene			0.100	0.1003		mg/Kg		100	70 - 130	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*

Lab Sample ID: 890-1805-A-1-B MSD
Matrix: Solid
Analysis Batch: 16202

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 16163

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.100	0.09925		mg/Kg					
Toluene	<0.00201	U	0.100	0.1053		mg/Kg					

QC Sample Results

Client: WSP USA Inc.
Project/Site: Perla Verde Battery

Job ID: 890-1800-1
SDG: 31403236.029 task 03.02

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

Lab Sample ID: 890-1805-A-1-B MSD
Matrix: Solid
Analysis Batch: 16202

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 16163

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	<0.00201	U	0.100	0.1019		mg/Kg					
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1981		mg/Kg					
o-Xylene	<0.00201	U	0.100	0.09328		mg/Kg					

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: 890-1805-A-1-A MS
Matrix: Solid
Analysis Batch: 16202

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

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

Lab Sample ID: MB 880-16210/1-A
Matrix: Solid
Analysis Batch: 16215

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 16210

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/07/22 08:53	01/07/22 11:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/07/22 08:53	01/07/22 11:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/07/22 08:53	01/07/22 11:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*01/07/22 08:53*	*01/07/22 11:13*	*1*
o-Terphenyl	*108*		*70 - 130*	*01/07/22 08:53*	*01/07/22 11:13*	*1*

Lab Sample ID: LCS 880-16210/2-A
Matrix: Solid
Analysis Batch: 16215

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 16210

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	752.8		mg/Kg		75	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	949.7		mg/Kg		95	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*97*		*70 - 130*
o-Terphenyl	*104*		*70 - 130*

QC Sample Results

Client: WSP USA Inc.
Project/Site: Perla Verde Battery

Job ID: 890-1800-1
SDG: 31403236.029 task 03.02

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

Lab Sample ID: LCSD 880-16210/3-A
Matrix: Solid
Analysis Batch: 16215

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 16210

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	858.9		mg/Kg		86	70 - 130	13	20
Diesel Range Organics (Over C10-C28)			1000	1156		mg/Kg		116	70 - 130	20	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*105*		*70 - 130*
o-Terphenyl	*113*		*70 - 130*

Lab Sample ID: 880-9941-A-61-E MS
Matrix: Solid
Analysis Batch: 16215

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 16210

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	813.9		mg/Kg		80	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	996	995.7		mg/Kg		97	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*76*		*70 - 130*
o-Terphenyl	*80*		*70 - 130*

Lab Sample ID: 880-9941-A-61-F MSD
Matrix: Solid
Analysis Batch: 16215

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 16210

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	870.1		mg/Kg		86	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1112		mg/Kg		108	70 - 130	11	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*86*		*70 - 130*
o-Terphenyl	*88*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-16429/1-A
Matrix: Solid
Analysis Batch: 16480

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			01/11/22 01:33	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: Perla Verde Battery

Job ID: 890-1800-1
SDG: 31403236.029 task 03.02

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-16429/2-A
Matrix: Solid
Analysis Batch: 16480

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	272.4		mg/Kg		109	90 - 110		

Lab Sample ID: LCSD 880-16429/3-A
Matrix: Solid
Analysis Batch: 16480

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	269.4		mg/Kg		108	90 - 110	1	20

Lab Sample ID: 890-1800-1 MS
Matrix: Solid
Analysis Batch: 16480

Client Sample ID: PH01
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	22.5	F1	250	314.3	F1	mg/Kg		117	90 - 110		

Lab Sample ID: 890-1800-1 MSD
Matrix: Solid
Analysis Batch: 16480

Client Sample ID: PH01
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	22.5	F1	250	319.5	F1	mg/Kg		119	90 - 110	2	20

QC Association Summary

Client: WSP USA Inc. Job ID: 890-1800-1
Project/Site: Perla Verde Battery SDG: 31403236.029 task 03.02

GC VOA

Prep Batch: 16163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1800-1	PH01	Total/NA	Solid	5035	
890-1800-2	PH02	Total/NA	Solid	5035	
890-1800-3	SS01	Total/NA	Solid	5035	
890-1800-4	FS01	Total/NA	Solid	5035	
890-1800-5	SS02	Total/NA	Solid	5035	
890-1800-6	FS02	Total/NA	Solid	5035	
MB 880-16163/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-16163/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-16163/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1805-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 16202

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1800-1	PH01	Total/NA	Solid	8021B	16163
890-1800-2	PH02	Total/NA	Solid	8021B	16163
890-1800-3	SS01	Total/NA	Solid	8021B	16163
890-1800-4	FS01	Total/NA	Solid	8021B	16163
890-1800-5	SS02	Total/NA	Solid	8021B	16163
890-1800-6	FS02	Total/NA	Solid	8021B	16163
MB 880-16163/5-A	Method Blank	Total/NA	Solid	8021B	16163
LCS 880-16163/1-A	Lab Control Sample	Total/NA	Solid	8021B	16163
LCSD 880-16163/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	16163
890-1805-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	
890-1805-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	16163

Analysis Batch: 16426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1800-1	PH01	Total/NA	Solid	Total BTEX	
890-1800-2	PH02	Total/NA	Solid	Total BTEX	
890-1800-3	SS01	Total/NA	Solid	Total BTEX	
890-1800-4	FS01	Total/NA	Solid	Total BTEX	
890-1800-5	SS02	Total/NA	Solid	Total BTEX	
890-1800-6	FS02	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 16210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1800-1	PH01	Total/NA	Solid	8015NM Prep	
890-1800-2	PH02	Total/NA	Solid	8015NM Prep	
890-1800-3	SS01	Total/NA	Solid	8015NM Prep	
890-1800-4	FS01	Total/NA	Solid	8015NM Prep	
890-1800-5	SS02	Total/NA	Solid	8015NM Prep	
890-1800-6	FS02	Total/NA	Solid	8015NM Prep	
MB 880-16210/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-16210/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-16210/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-9941-A-61-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-9941-A-61-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: WSP USA Inc.
Project/Site: Perla Verde Battery

Job ID: 890-1800-1
SDG: 31403236.029 task 03.02

GC Semi VOA

Analysis Batch: 16215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1800-1	PH01	Total/NA	Solid	8015B NM	16210
890-1800-2	PH02	Total/NA	Solid	8015B NM	16210
890-1800-3	SS01	Total/NA	Solid	8015B NM	16210
890-1800-4	FS01	Total/NA	Solid	8015B NM	16210
890-1800-5	SS02	Total/NA	Solid	8015B NM	16210
890-1800-6	FS02	Total/NA	Solid	8015B NM	16210
MB 880-16210/1-A	Method Blank	Total/NA	Solid	8015B NM	16210
LCS 880-16210/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	16210
LCSD 880-16210/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	16210
880-9941-A-61-E MS	Matrix Spike	Total/NA	Solid	8015B NM	16210
880-9941-A-61-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	16210

Analysis Batch: 16428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1800-1	PH01	Total/NA	Solid	8015 NM	
890-1800-2	PH02	Total/NA	Solid	8015 NM	
890-1800-3	SS01	Total/NA	Solid	8015 NM	
890-1800-4	FS01	Total/NA	Solid	8015 NM	
890-1800-5	SS02	Total/NA	Solid	8015 NM	
890-1800-6	FS02	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 16429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1800-1	PH01	Soluble	Solid	DI Leach	
890-1800-2	PH02	Soluble	Solid	DI Leach	
890-1800-3	SS01	Soluble	Solid	DI Leach	
890-1800-4	FS01	Soluble	Solid	DI Leach	
890-1800-5	SS02	Soluble	Solid	DI Leach	
890-1800-6	FS02	Soluble	Solid	DI Leach	
MB 880-16429/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-16429/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-16429/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1800-1 MS	PH01	Soluble	Solid	DI Leach	
890-1800-1 MSD	PH01	Soluble	Solid	DI Leach	

Analysis Batch: 16480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1800-1	PH01	Soluble	Solid	300.0	16429
890-1800-2	PH02	Soluble	Solid	300.0	16429
890-1800-3	SS01	Soluble	Solid	300.0	16429
890-1800-4	FS01	Soluble	Solid	300.0	16429
890-1800-5	SS02	Soluble	Solid	300.0	16429
890-1800-6	FS02	Soluble	Solid	300.0	16429
MB 880-16429/1-A	Method Blank	Soluble	Solid	300.0	16429
LCS 880-16429/2-A	Lab Control Sample	Soluble	Solid	300.0	16429
LCSD 880-16429/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	16429
890-1800-1 MS	PH01	Soluble	Solid	300.0	16429
890-1800-1 MSD	PH01	Soluble	Solid	300.0	16429

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Perla Verde Battery

Job ID: 890-1800-1
SDG: 31403236.029 task 03.02

Client Sample ID: PH01
Date Collected: 01/04/22 10:52
Date Received: 01/05/22 15:21

Lab Sample ID: 890-1800-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			16163	01/07/22 08:00	KL	XEN MID
Total/NA	Analysis	8021B		1	16202	01/07/22 15:03	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	16426	01/10/22 11:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	16428	01/10/22 12:40	AJ	XEN MID
Total/NA	Prep	8015NM Prep			16210	01/07/22 08:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1	16215	01/07/22 15:49	AJ	XEN MID
Soluble	Leach	DI Leach			16429	01/10/22 12:49	CH	XEN MID
Soluble	Analysis	300.0		1	16480	01/11/22 02:08	CH	XEN MID

Client Sample ID: PH02
Date Collected: 01/04/22 10:56
Date Received: 01/05/22 15:21

Lab Sample ID: 890-1800-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			16163	01/07/22 08:00	KL	XEN MID
Total/NA	Analysis	8021B		1	16202	01/07/22 15:23	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	16426	01/10/22 11:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	16428	01/10/22 12:40	AJ	XEN MID
Total/NA	Prep	8015NM Prep			16210	01/07/22 08:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1	16215	01/07/22 16:09	AJ	XEN MID
Soluble	Leach	DI Leach			16429	01/10/22 12:49	CH	XEN MID
Soluble	Analysis	300.0		1	16480	01/11/22 02:44	CH	XEN MID

Client Sample ID: SS01
Date Collected: 01/04/22 10:00
Date Received: 01/05/22 15:21

Lab Sample ID: 890-1800-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			16163	01/07/22 08:00	KL	XEN MID
Total/NA	Analysis	8021B		1	16202	01/07/22 15:43	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	16426	01/10/22 11:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	16428	01/10/22 12:40	AJ	XEN MID
Total/NA	Prep	8015NM Prep			16210	01/07/22 08:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1	16215	01/07/22 16:30	AJ	XEN MID
Soluble	Leach	DI Leach			16429	01/10/22 12:49	CH	XEN MID
Soluble	Analysis	300.0		1	16480	01/11/22 02:56	CH	XEN MID

Client Sample ID: FS01
Date Collected: 01/04/22 13:10
Date Received: 01/05/22 15:21

Lab Sample ID: 890-1800-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			16163	01/07/22 08:00	KL	XEN MID
Total/NA	Analysis	8021B		1	16202	01/07/22 16:04	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	16426	01/10/22 11:51	AJ	XEN MID

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Perla Verde Battery

Job ID: 890-1800-1
SDG: 31403236.029 task 03.02

Client Sample ID: FS01
Date Collected: 01/04/22 13:10
Date Received: 01/05/22 15:21

Lab Sample ID: 890-1800-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1	16428	01/10/22 12:40	AJ	XEN MID
Total/NA	Prep	8015NM Prep			16210	01/07/22 08:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1	16215	01/07/22 17:10	AJ	XEN MID
Soluble	Leach	DI Leach			16429	01/10/22 12:49	CH	XEN MID
Soluble	Analysis	300.0		1	16480	01/11/22 03:07	CH	XEN MID

Client Sample ID: SS02
Date Collected: 01/04/22 10:04
Date Received: 01/05/22 15:21

Lab Sample ID: 890-1800-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			16163	01/07/22 08:00	KL	XEN MID
Total/NA	Analysis	8021B		1	16202	01/07/22 16:59	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	16426	01/10/22 11:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	16428	01/10/22 12:40	AJ	XEN MID
Total/NA	Prep	8015NM Prep			16210	01/07/22 08:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1	16215	01/07/22 17:30	AJ	XEN MID
Soluble	Leach	DI Leach			16429	01/10/22 12:49	CH	XEN MID
Soluble	Analysis	300.0		1	16480	01/11/22 03:19	CH	XEN MID

Client Sample ID: FS02
Date Collected: 01/04/22 13:14
Date Received: 01/05/22 15:21

Lab Sample ID: 890-1800-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			16163	01/07/22 08:00	KL	XEN MID
Total/NA	Analysis	8021B		1	16202	01/07/22 18:49	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	16426	01/10/22 11:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	16428	01/10/22 12:40	AJ	XEN MID
Total/NA	Prep	8015NM Prep			16210	01/07/22 08:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1	16215	01/07/22 17:51	AJ	XEN MID
Soluble	Leach	DI Leach			16429	01/10/22 12:49	CH	XEN MID
Soluble	Analysis	300.0		1	16480	01/11/22 03:55	CH	XEN MID

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

Accreditation/Certification Summary

Client: WSP USA Inc.
Job ID: 890-1800-1
Project/Site: Perla Verde Battery
SDG: 31403236.029 task 03.02

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

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
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: WSP USA Inc.
Project/Site: Perla Verde Battery

Job ID: 890-1800-1
SDG: 31403236.029 task 03.02

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (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.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.
Project/Site: Perla Verde Battery

Job ID: 890-1800-1
SDG: 31403236.029 task 03.02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1800-1	PH01	Solid	01/04/22 10:52	01/05/22 15:21	1
890-1800-2	PH02	Solid	01/04/22 10:56	01/05/22 15:21	1
890-1800-3	SS01	Solid	01/04/22 10:00	01/05/22 15:21	0.5
890-1800-4	FS01	Solid	01/04/22 13:10	01/05/22 15:21	1
890-1800-5	SS02	Solid	01/04/22 10:04	01/05/22 15:21	0.5
890-1800-6	FS02	Solid	01/04/22 13:14	01/05/22 15:21	1

Chain of Custody

Work Order No: _____

XENCO LABORATORIES

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334
Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296
Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)
www.xenco.com Page 1 of 1

Project Manager:	Ben Helill	Bill to: (if different)	Adrian Baker
Company Name:	WSP USA	Company Name:	XTO Energy
Address:	508 W Stevens St	Address:	3104 E Green Street
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	1-989-854-0852	Email:	Adrian.Baker@exxonmobil.com,Ben.Helill@wsp.com

Work Order Comments

Program: UST/PST ☐ RP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Perla Verde Battery	Turn Around	
Project Number:	31403236.029Task 03.02	Routine ☐	
P.O. Number:	Napp2130053365	Rush:3 days	
Sampler's Name:	Mercy Rotich.	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Temperature (°C):	1.4 / 1.2	Thermometer ID	
Received Intact:	(Yes) No	T-NM-007	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No (N/A)	Total Containers:	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)	Sample Comments
PH01	S	01/04/22	10:52	1'	1	X	X	X	Discrete
PH02	S	01/04/22	10:56	1'	1	X	X	X	Discrete
SS01	S	01/04/22	10:00	0.5'	1	X	X	X	Discrete
SS01A	S	01/04/22	13:10	1'	1	X	X	X	Discrete
SS02	S	01/04/22	10:04	0.5'	1	X	X	X	Discrete
SS02A	S	01/04/22	13:14	1'	1	X	X	X	Discrete

ANALYSIS REQUEST

890-1800 Chain of Custody

Work Order Notes

CC:1073541001

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

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** : Hg

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		1/5/22 3:21	2		
3			4		
5			6		

Revised Date 051418 Rev 2018.1

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1800-1
SDG Number: 31403236.029 task 03.02

Login Number: 1800
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1800-1
SDG Number: 31403236.029 task 03.02

Login Number: 1800
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 01/07/22 12:52 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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	

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1801-1
Laboratory Sample Delivery Group: 31403236.029 task 03.02
Client Project/Site: Perla Verde Battery

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

Attn: Benjamin Belill

JKramer

Authorized for release by:
1/11/2022 3:28:02 PM

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

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

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

Client: WSP USA Inc.
Project/Site: Perla Verde Battery

Laboratory Job ID: 890-1801-1
SDG: 31403236.029 task 03.02

Table of Contents

Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-1801-1
Project/Site: Perla Verde Battery SDG: 31403236.029 task 03.02

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

Client: WSP USA Inc. Job ID: 890-1801-1
Project/Site: Perla Verde Battery SDG: 31403236.029 task 03.02

Job ID: 890-1801-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-1801-1

Receipt
The samples were received on 1/5/2022 3:21 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 1.2°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
Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SS03A (890-1801-2). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-16424 and analytical batch 880-16336 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-16429 and analytical batch 880-16480 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: WSP USA Inc.
Project/Site: Perla Verde Battery

Job ID: 890-1801-1
SDG: 31403236.029 task 03.02

Client Sample ID: SS03

Date Collected: 01/04/22 11:20
Date Received: 01/05/22 15:21
Sample Depth: 0.5

Lab Sample ID: 890-1801-1

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/07/22 08:00	01/07/22 17:28	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/07/22 08:00	01/07/22 17:28	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/07/22 08:00	01/07/22 17:28	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		01/07/22 08:00	01/07/22 17:28	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/07/22 08:00	01/07/22 17:28	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		01/07/22 08:00	01/07/22 17:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*207*	*S1+*	*70 - 130*	*01/07/22 08:00*	*01/07/22 17:28*	*1*
1,4-Difluorobenzene (Surr)	*79*		*70 - 130*	*01/07/22 08:00*	*01/07/22 17:28*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			01/10/22 11:51	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/10/22 12:40	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/07/22 08:53	01/07/22 18:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/07/22 08:53	01/07/22 18:11	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/07/22 08:53	01/07/22 18:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*76*		*70 - 130*	*01/07/22 08:53*	*01/07/22 18:11*	*1*
o-Terphenyl	*87*		*70 - 130*	*01/07/22 08:53*	*01/07/22 18:11*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.99	U	4.99		mg/Kg			01/11/22 04:07	1

Client Sample ID: SS03A

Date Collected: 01/04/22 13:18
Date Received: 01/05/22 15:21
Sample Depth: 1

Lab Sample ID: 890-1801-2

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/07/22 08:00	01/07/22 17:54	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/07/22 08:00	01/07/22 17:54	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/07/22 08:00	01/07/22 17:54	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		01/07/22 08:00	01/07/22 17:54	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/07/22 08:00	01/07/22 17:54	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		01/07/22 08:00	01/07/22 17:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*227*	*S1+*	*70 - 130*	*01/07/22 08:00*	*01/07/22 17:54*	*1*

Eurofins Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Perla Verde Battery

Job ID: 890-1801-1
SDG: 31403236.029 task 03.02

Client Sample ID: SS03A

Date Collected: 01/04/22 13:18
Date Received: 01/05/22 15:21
Sample Depth: 1

Lab Sample ID: 890-1801-2

Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*01/07/22 08:00*	*01/07/22 17:54*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			01/10/22 11:51	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/10/22 12:40	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/07/22 08:53	01/07/22 18:31	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/07/22 08:53	01/07/22 18:31	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/07/22 08:53	01/07/22 18:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*68*	*S1-*	*70 - 130*	*01/07/22 08:53*	*01/07/22 18:31*	*1*
o-Terphenyl	*76*		*70 - 130*	*01/07/22 08:53*	*01/07/22 18:31*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.01	U	5.01		mg/Kg			01/11/22 04:19	1

Client Sample ID: SS04

Date Collected: 01/04/22 11:24
Date Received: 01/05/22 15:21
Sample Depth: 0.5

Lab Sample ID: 890-1801-3

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/07/22 08:00	01/07/22 18:20	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/07/22 08:00	01/07/22 18:20	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/07/22 08:00	01/07/22 18:20	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/07/22 08:00	01/07/22 18:20	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/07/22 08:00	01/07/22 18:20	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/07/22 08:00	01/07/22 18:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*240*	*S1+*	*70 - 130*	*01/07/22 08:00*	*01/07/22 18:20*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*01/07/22 08:00*	*01/07/22 18:20*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/10/22 11:51	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/10/22 12:40	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: Perla Verde Battery

Job ID: 890-1801-1
SDG: 31403236.029 task 03.02

Client Sample ID: SS04

Lab Sample ID: 890-1801-3

Date Collected: 01/04/22 11:24
Date Received: 01/05/22 15:21
Sample Depth: 0.5

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/07/22 08:53	01/07/22 18:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/07/22 08:53	01/07/22 18:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/07/22 08:53	01/07/22 18:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*77*		*70 - 130*	*01/07/22 08:53*	*01/07/22 18:51*	*1*
o-Terphenyl	*87*		*70 - 130*	*01/07/22 08:53*	*01/07/22 18:51*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.98	U	4.98		mg/Kg			01/11/22 04:30	1

Client Sample ID: SS04A

Lab Sample ID: 890-1801-4

Date Collected: 01/04/22 13:22
Date Received: 01/05/22 15:21
Sample Depth: 1

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/07/22 08:00	01/07/22 18:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/07/22 08:00	01/07/22 18:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/07/22 08:00	01/07/22 18:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/07/22 08:00	01/07/22 18:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/07/22 08:00	01/07/22 18:47	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/07/22 08:00	01/07/22 18:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*204*	*S1+*	*70 - 130*	*01/07/22 08:00*	*01/07/22 18:47*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*01/07/22 08:00*	*01/07/22 18:47*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			01/10/22 11:51	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/10/22 12:40	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/07/22 08:53	01/07/22 19:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/07/22 08:53	01/07/22 19:11	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/07/22 08:53	01/07/22 19:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*01/07/22 08:53*	*01/07/22 19:11*	*1*
o-Terphenyl	*99*		*70 - 130*	*01/07/22 08:53*	*01/07/22 19:11*	*1*

Client Sample Results

Client: WSP USA Inc.
Project/Site: Perla Verde Battery

Job ID: 890-1801-1
SDG: 31403236.029 task 03.02

Client Sample ID: SS04A

Lab Sample ID: 890-1801-4
Matrix: Solid
Date Collected: 01/04/22 13:22
Date Received: 01/05/22 15:21
Sample Depth: 1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.95	U	4.95		mg/Kg			01/11/22 04:42	1

Client Sample ID: SS05

Lab Sample ID: 890-1801-5
Matrix: Solid
Date Collected: 01/04/22 11:28
Date Received: 01/05/22 15:21
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/07/22 08:00	01/07/22 19:13	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/07/22 08:00	01/07/22 19:13	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/07/22 08:00	01/07/22 19:13	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/07/22 08:00	01/07/22 19:13	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/07/22 08:00	01/07/22 19:13	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/07/22 08:00	01/07/22 19:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*01/07/22 08:00*	*01/07/22 19:13*	*1*
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*	*01/07/22 08:00*	*01/07/22 19:13*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/10/22 11:51	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**61.8**		49.9		mg/Kg			01/10/22 12:40	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/07/22 08:53	01/07/22 19:31	1
Diesel Range Organics (Over C10-C28)	**61.8**		49.9		mg/Kg		01/07/22 08:53	01/07/22 19:31	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/07/22 08:53	01/07/22 19:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*01/07/22 08:53*	*01/07/22 19:31*	*1*
o-Terphenyl	*86*		*70 - 130*	*01/07/22 08:53*	*01/07/22 19:31*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.96	U F1	4.96		mg/Kg			01/11/22 04:54	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: Perla Verde Battery

Job ID: 890-1801-1
SDG: 31403236.029 task 03.02

Client Sample ID: SS05A

Lab Sample ID: 890-1801-6

Date Collected: 01/04/22 13:30
Matrix: Solid
Date Received: 01/05/22 15:21
Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/07/22 08:00	01/07/22 19:39	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/07/22 08:00	01/07/22 19:39	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/07/22 08:00	01/07/22 19:39	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/07/22 08:00	01/07/22 19:39	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/07/22 08:00	01/07/22 19:39	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/07/22 08:00	01/07/22 19:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*230*	*S1+*	*70 - 130*	*01/07/22 08:00*	*01/07/22 19:39*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*01/07/22 08:00*	*01/07/22 19:39*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/10/22 11:51	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/10/22 12:40	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/07/22 08:53	01/07/22 19:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/07/22 08:53	01/07/22 19:51	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/07/22 08:53	01/07/22 19:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*77*		*70 - 130*	*01/07/22 08:53*	*01/07/22 19:51*	*1*
o-Terphenyl	*82*		*70 - 130*	*01/07/22 08:53*	*01/07/22 19:51*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.04	U	5.04		mg/Kg			01/11/22 05:30	1

Client Sample ID: SS06

Lab Sample ID: 890-1801-7

Date Collected: 01/04/22 11:50
Matrix: Solid
Date Received: 01/05/22 15:21
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/07/22 08:00	01/07/22 20:06	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/07/22 08:00	01/07/22 20:06	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/07/22 08:00	01/07/22 20:06	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/07/22 08:00	01/07/22 20:06	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/07/22 08:00	01/07/22 20:06	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/07/22 08:00	01/07/22 20:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*231*	*S1+*	*70 - 130*	*01/07/22 08:00*	*01/07/22 20:06*	*1*

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Perla Verde Battery

Job ID: 890-1801-1
SDG: 31403236.029 task 03.02

Client Sample ID: SS06

Lab Sample ID: 890-1801-7
Matrix: Solid
Date Collected: 01/04/22 11:50
Date Received: 01/05/22 15:21
Sample Depth: 0.5

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*01/07/22 08:00*	*01/07/22 20:06*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			01/10/22 11:51	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			01/10/22 12:40	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		01/07/22 08:53	01/07/22 20:11	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		01/07/22 08:53	01/07/22 20:11	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		01/07/22 08:53	01/07/22 20:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*01/07/22 08:53*	*01/07/22 20:11*	*1*
o-Terphenyl	*97*		*70 - 130*	*01/07/22 08:53*	*01/07/22 20:11*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.97	U	4.97	mg/Kg			01/11/22 05:41	1

Client Sample ID: SS06A

Lab Sample ID: 890-1801-8
Matrix: Solid
Date Collected: 01/04/22 13:36
Date Received: 01/05/22 15:21
Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/07/22 08:00	01/07/22 20:32	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/07/22 08:00	01/07/22 20:32	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/07/22 08:00	01/07/22 20:32	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/07/22 08:00	01/07/22 20:32	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/07/22 08:00	01/07/22 20:32	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/07/22 08:00	01/07/22 20:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*354*	*S1+*	*70 - 130*	*01/07/22 08:00*	*01/07/22 20:32*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*01/07/22 08:00*	*01/07/22 20:32*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/10/22 11:51	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/10/22 12:40	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: Perla Verde Battery

Job ID: 890-1801-1
SDG: 31403236.029 task 03.02

Client Sample ID: SS06A

Lab Sample ID: 890-1801-8
Matrix: Solid
Date Collected: 01/04/22 13:36
Date Received: 01/05/22 15:21
Sample Depth: 1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/07/22 08:54	01/07/22 17:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/07/22 08:54	01/07/22 17:30	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/07/22 08:54	01/07/22 17:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*01/07/22 08:54*	*01/07/22 17:30*	*1*
o-Terphenyl	*87*		*70 - 130*	*01/07/22 08:54*	*01/07/22 17:30*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			01/11/22 09:41	1

Client Sample ID: SS07

Lab Sample ID: 890-1801-9
Matrix: Solid
Date Collected: 01/04/22 11:54
Date Received: 01/05/22 15:21
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/07/22 08:00	01/07/22 20:59	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/07/22 08:00	01/07/22 20:59	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/07/22 08:00	01/07/22 20:59	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		01/07/22 08:00	01/07/22 20:59	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/07/22 08:00	01/07/22 20:59	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		01/07/22 08:00	01/07/22 20:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*211*	*S1+*	*70 - 130*	*01/07/22 08:00*	*01/07/22 20:59*	*1*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*01/07/22 08:00*	*01/07/22 20:59*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			01/10/22 11:51	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/10/22 12:40	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/07/22 08:54	01/07/22 17:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/07/22 08:54	01/07/22 17:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/07/22 08:54	01/07/22 17:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*01/07/22 08:54*	*01/07/22 17:51*	*1*
o-Terphenyl	*93*		*70 - 130*	*01/07/22 08:54*	*01/07/22 17:51*	*1*

Client Sample Results

Client: WSP USA Inc.
Project/Site: Perla Verde Battery

Job ID: 890-1801-1
SDG: 31403236.029 task 03.02

Client Sample ID: SS07

Date Collected: 01/04/22 11:54
Date Received: 01/05/22 15:21
Sample Depth: 0.5

Lab Sample ID: 890-1801-9

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			01/11/22 09:53	1

Client Sample ID: SS07A

Date Collected: 01/04/22 13:40
Date Received: 01/05/22 15:21
Sample Depth: 1

Lab Sample ID: 890-1801-10

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/07/22 08:00	01/07/22 21:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/07/22 08:00	01/07/22 21:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/07/22 08:00	01/07/22 21:25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/07/22 08:00	01/07/22 21:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/07/22 08:00	01/07/22 21:25	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/07/22 08:00	01/07/22 21:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*236*	*S1+*	*70 - 130*	*01/07/22 08:00*	*01/07/22 21:25*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*01/07/22 08:00*	*01/07/22 21:25*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			01/10/22 11:51	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/10/22 12:40	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/07/22 08:54	01/07/22 18:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/07/22 08:54	01/07/22 18:11	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/07/22 08:54	01/07/22 18:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*01/07/22 08:54*	*01/07/22 18:11*	*1*
o-Terphenyl	*106*		*70 - 130*	*01/07/22 08:54*	*01/07/22 18:11*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.95	U	4.95		mg/Kg			01/11/22 10:05	1

Surrogate Summary

Client: WSP USA Inc. Job ID: 890-1801-1
Project/Site: Perla Verde Battery SDG: 31403236.029 task 03.02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-1801-1	SS03	207 S1+	79
890-1801-1 MS	SS03	201 S1+	86
890-1801-1 MSD	SS03	179 S1+	127
890-1801-2	SS03A	227 S1+	89
890-1801-3	SS04	240 S1+	101
890-1801-4	SS04A	204 S1+	95
890-1801-5	SS05	111	76
890-1801-6	SS05A	230 S1+	103
890-1801-7	SS06	231 S1+	104
890-1801-8	SS06A	354 S1+	93
890-1801-9	SS07	211 S1+	114
890-1801-10	SS07A	236 S1+	108
LCS 880-16152/1-A	Lab Control Sample	223 S1+	104
LCSD 880-16152/2-A	Lab Control Sample Dup	217 S1+	95
MB 880-16152/5-A	Method Blank	136 S1+	92

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-9941-A-61-E MS	Matrix Spike	76	80
880-9941-A-61-F MSD	Matrix Spike Duplicate	86	88
880-9941-A-63-C MS	Matrix Spike	81	74
880-9941-A-63-D MSD	Matrix Spike Duplicate	81	76
890-1801-1	SS03	76	87
890-1801-2	SS03A	68 S1-	76
890-1801-3	SS04	77	87
890-1801-4	SS04A	90	99
890-1801-5	SS05	79	86
890-1801-6	SS05A	77	82
890-1801-7	SS06	89	97
890-1801-8	SS06A	85	87
890-1801-9	SS07	89	93
890-1801-10	SS07A	104	106
890-1808-A-1-E MS	Matrix Spike	75	66 S1-
890-1808-A-1-F MSD	Matrix Spike Duplicate	77	75
LCS 880-16210/2-A	Lab Control Sample	97	104
LCS 880-16212/2-A	Lab Control Sample	120	116
LCSD 880-16210/3-A	Lab Control Sample Dup	105	113
LCSD 880-16212/3-A	Lab Control Sample Dup	114	109
MB 880-16210/1-A	Method Blank	91	108
MB 880-16212/1-A	Method Blank	89	93

Surrogate Legend

1CO = 1-Chlorooctane

Surrogate Summary

Client: WSP USA Inc.
Project/Site: Perla Verde Battery

Job ID: 890-1801-1
SDG: 31403236.029 task 03.02

OTPH = o-Terphenyl

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	1CO2 (70-130)	OTPH2 (70-130)										
LCS 880-16424/2-A	Lab Control Sample	88	82										
LCSD 880-16424/3-A	Lab Control Sample Dup	90	85										
MB 880-16424/1-A	Method Blank	85	86										

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: WSP USA Inc.
Project/Site: Perla Verde Battery

Job ID: 890-1801-1
SDG: 31403236.029 task 03.02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-16152/5-A
Matrix: Solid
Analysis Batch: 16263

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 16152

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/07/22 08:00	01/07/22 17:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/07/22 08:00	01/07/22 17:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/07/22 08:00	01/07/22 17:01	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/07/22 08:00	01/07/22 17:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/07/22 08:00	01/07/22 17:01	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/07/22 08:00	01/07/22 17:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*136*	*S1+*	*70 - 130*	*01/07/22 08:00*	*01/07/22 17:01*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*01/07/22 08:00*	*01/07/22 17:01*	*1*

Lab Sample ID: LCS 880-16152/1-A
Matrix: Solid
Analysis Batch: 16263

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 16152

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.1071		mg/Kg		107	70 - 130		
Toluene			0.100	0.1162		mg/Kg		116	70 - 130		
Ethylbenzene			0.100	0.1175		mg/Kg		118	70 - 130		
m-Xylene & p-Xylene			0.200	0.2408		mg/Kg		120	70 - 130		
o-Xylene			0.100	0.1066		mg/Kg		107	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*223*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 880-16152/2-A
Matrix: Solid
Analysis Batch: 16263

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 16152

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.1018		mg/Kg		102	70 - 130	5	35
Toluene			0.100	0.1093		mg/Kg		109	70 - 130	6	35
Ethylbenzene			0.100	0.1088		mg/Kg		109	70 - 130	8	35
m-Xylene & p-Xylene			0.200	0.2217		mg/Kg		111	70 - 130	8	35
o-Xylene			0.100	0.09806		mg/Kg		98	70 - 130	8	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*217*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: 890-1801-1 MS
Matrix: Solid
Analysis Batch: 16263

Client Sample ID: SS03
Prep Type: Total/NA
Prep Batch: 16152

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<0.00202	U	0.100	0.1129		mg/Kg		112	70 - 130		
Toluene	<0.00202	U	0.100	0.09897		mg/Kg		99	70 - 130		

QC Sample Results

Client: WSP USA Inc. Job ID: 890-1801-1
Project/Site: Perla Verde Battery SDG: 31403236.029 task 03.02

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

Lab Sample ID: 890-1801-1 MS **Client Sample ID: SS03**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 16263 **Prep Batch: 16152**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00202	U	0.100	0.09984		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	<0.00403	U	0.201	0.2002		mg/Kg		100	70 - 130
o-Xylene	<0.00202	U	0.100	0.08668		mg/Kg		86	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*201*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*

Lab Sample ID: 890-1801-1 MSD **Client Sample ID: SS03**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 16263 **Prep Batch: 16152**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.100	0.08563		mg/Kg		85	70 - 130	27	35
Toluene	<0.00202	U	0.100	0.09396		mg/Kg		94	70 - 130	5	35
Ethylbenzene	<0.00202	U	0.100	0.09475		mg/Kg		94	70 - 130	5	35
m-Xylene & p-Xylene	<0.00403	U	0.201	0.1830		mg/Kg		91	70 - 130	9	35
o-Xylene	<0.00202	U	0.100	0.08136		mg/Kg		81	70 - 130	6	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*179*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*127*		*70 - 130*

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

Lab Sample ID: MB 880-16210/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 16215 **Prep Batch: 16210**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/07/22 08:53	01/07/22 11:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/07/22 08:53	01/07/22 11:13	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/07/22 08:53	01/07/22 11:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*01/07/22 08:53*	*01/07/22 11:13*	*1*
o-Terphenyl	*108*		*70 - 130*	*01/07/22 08:53*	*01/07/22 11:13*	*1*

Lab Sample ID: LCS 880-16210/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 16215 **Prep Batch: 16210**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	752.8		mg/Kg		75	70 - 130
Diesel Range Organics (Over C10-C28)	1000	949.7		mg/Kg		95	70 - 130

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Perla Verde Battery

Job ID: 890-1801-1
SDG: 31403236.029 task 03.02

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

Lab Sample ID: LCS 880-16210/2-A
Matrix: Solid
Analysis Batch: 16215

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 16210

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	104		70 - 130

Lab Sample ID: LCSD 880-16210/3-A
Matrix: Solid
Analysis Batch: 16215

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 16210

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	858.9		mg/Kg		86	70 - 130	13	20
Diesel Range Organics (Over C10-C28)			1000	1156		mg/Kg		116	70 - 130	20	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	113		70 - 130

Lab Sample ID: 880-9941-A-61-E MS
Matrix: Solid
Analysis Batch: 16215

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 16210

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	813.9		mg/Kg		80	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	996	995.7		mg/Kg		97	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	76		70 - 130
o-Terphenyl	80		70 - 130

Lab Sample ID: 880-9941-A-61-F MSD
Matrix: Solid
Analysis Batch: 16215

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 16210

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	870.1		mg/Kg		86	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1112		mg/Kg		108	70 - 130	11	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	86		70 - 130
o-Terphenyl	88		70 - 130

QC Sample Results

Client: WSP USA Inc.
Project/Site: Perla Verde Battery

Job ID: 890-1801-1
SDG: 31403236.029 task 03.02

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

Lab Sample ID: MB 880-16212/1-A
Matrix: Solid
Analysis Batch: 16217

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 16212

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/07/22 08:54	01/07/22 11:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/07/22 08:54	01/07/22 11:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/07/22 08:54	01/07/22 11:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*01/07/22 08:54*	*01/07/22 11:13*	*1*
o-Terphenyl	*93*		*70 - 130*	*01/07/22 08:54*	*01/07/22 11:13*	*1*

Lab Sample ID: LCS 880-16212/2-A
Matrix: Solid
Analysis Batch: 16217

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 16212

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	891.2		mg/Kg		89	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1013		mg/Kg		101	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*120*		*70 - 130*
o-Terphenyl	*116*		*70 - 130*

Lab Sample ID: LCSD 880-16212/3-A
Matrix: Solid
Analysis Batch: 16217

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 16212

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	881.7		mg/Kg		88	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	989.3		mg/Kg		99	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*114*		*70 - 130*
o-Terphenyl	*109*		*70 - 130*

Lab Sample ID: 880-9941-A-63-C MS
Matrix: Solid
Analysis Batch: 16217

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 16212

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	911.9		mg/Kg		88	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	996	953.9		mg/Kg		93	70 - 130		

QC Sample Results

Client: WSP USA Inc.
Project/Site: Perla Verde Battery

Job ID: 890-1801-1
SDG: 31403236.029 task 03.02

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

Lab Sample ID: 880-9941-A-63-C MS
Matrix: Solid
Analysis Batch: 16217

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 16212

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	81		70 - 130
o-Terphenyl	74		70 - 130

Lab Sample ID: 880-9941-A-63-D MSD
Matrix: Solid
Analysis Batch: 16217

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 16212

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	892.8		mg/Kg		86	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	978.6		mg/Kg		95	70 - 130	3	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	81		70 - 130
o-Terphenyl	76		70 - 130

Lab Sample ID: MB 880-16424/1-A
Matrix: Solid
Analysis Batch: 16336

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 16424

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/10/22 11:18	01/10/22 20:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/10/22 11:18	01/10/22 20:35	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/10/22 11:18	01/10/22 20:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130	01/10/22 11:18	01/10/22 20:35	1
o-Terphenyl	86		70 - 130	01/10/22 11:18	01/10/22 20:35	1

Lab Sample ID: LCS 880-16424/2-A
Matrix: Solid
Analysis Batch: 16336

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 16424

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	826.7		mg/Kg		83	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	915.4		mg/Kg		92	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	88		70 - 130
o-Terphenyl	82		70 - 130

QC Sample Results

Client: WSP USA Inc. Job ID: 890-1801-1
Project/Site: Perla Verde Battery SDG: 31403236.029 task 03.02

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

Lab Sample ID: LCSD 880-16424/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 16336 **Prep Batch: 16424**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	841.5		mg/Kg		84	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	916.2		mg/Kg		92	70 - 130	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*90*		*70 - 130*
o-Terphenyl	*85*		*70 - 130*

Lab Sample ID: 890-1808-A-1-E MS **Client Sample ID: Matrix Spike**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 16336 **Prep Batch: 16424**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	977.5		mg/Kg		95	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	996	851.8		mg/Kg		86	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*75*		*70 - 130*
o-Terphenyl	*66*	*S1-*	*70 - 130*

Lab Sample ID: 890-1808-A-1-F MSD **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 16336 **Prep Batch: 16424**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1093		mg/Kg		107	70 - 130	11	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	862.8		mg/Kg		86	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*77*		*70 - 130*
o-Terphenyl	*75*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-16429/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 16480

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			01/11/22 01:33	1

QC Sample Results

Client: WSP USA Inc. Job ID: 890-1801-1
Project/Site: Perla Verde Battery SDG: 31403236.029 task 03.02

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-16429/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 16480

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	272.4		mg/Kg		109	90 - 110		

Lab Sample ID: LCSD 880-16429/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 16480

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	269.4		mg/Kg		108	90 - 110	1	20

Lab Sample ID: 890-1801-5 MS — **Client Sample ID: SS05**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 16480

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	<4.96	U F1	248	297.3	F1	mg/Kg		120	90 - 110		

Lab Sample ID: 890-1801-5 MSD — **Client Sample ID: SS05**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 16480

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	<4.96	U F1	248	281.1	F1	mg/Kg		113	90 - 110	6	20

QC Association Summary

Client: WSP USA Inc. Job ID: 890-1801-1
Project/Site: Perla Verde Battery SDG: 31403236.029 task 03.02

GC VOA

Prep Batch: 16152

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1801-1	SS03	Total/NA	Solid	5035	
890-1801-2	SS03A	Total/NA	Solid	5035	
890-1801-3	SS04	Total/NA	Solid	5035	
890-1801-4	SS04A	Total/NA	Solid	5035	
890-1801-5	SS05	Total/NA	Solid	5035	
890-1801-6	SS05A	Total/NA	Solid	5035	
890-1801-7	SS06	Total/NA	Solid	5035	
890-1801-8	SS06A	Total/NA	Solid	5035	
890-1801-9	SS07	Total/NA	Solid	5035	
890-1801-10	SS07A	Total/NA	Solid	5035	
MB 880-16152/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-16152/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-16152/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1801-1 MS	SS03	Total/NA	Solid	5035	
890-1801-1 MSD	SS03	Total/NA	Solid	5035	

Analysis Batch: 16263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1801-1	SS03	Total/NA	Solid	8021B	16152
890-1801-2	SS03A	Total/NA	Solid	8021B	16152
890-1801-3	SS04	Total/NA	Solid	8021B	16152
890-1801-4	SS04A	Total/NA	Solid	8021B	16152
890-1801-5	SS05	Total/NA	Solid	8021B	16152
890-1801-6	SS05A	Total/NA	Solid	8021B	16152
890-1801-7	SS06	Total/NA	Solid	8021B	16152
890-1801-8	SS06A	Total/NA	Solid	8021B	16152
890-1801-9	SS07	Total/NA	Solid	8021B	16152
890-1801-10	SS07A	Total/NA	Solid	8021B	16152
MB 880-16152/5-A	Method Blank	Total/NA	Solid	8021B	16152
LCS 880-16152/1-A	Lab Control Sample	Total/NA	Solid	8021B	16152
LCSD 880-16152/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	16152
890-1801-1 MS	SS03	Total/NA	Solid	8021B	16152
890-1801-1 MSD	SS03	Total/NA	Solid	8021B	16152

Analysis Batch: 16426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1801-1	SS03	Total/NA	Solid	Total BTEX	
890-1801-2	SS03A	Total/NA	Solid	Total BTEX	
890-1801-3	SS04	Total/NA	Solid	Total BTEX	
890-1801-4	SS04A	Total/NA	Solid	Total BTEX	
890-1801-5	SS05	Total/NA	Solid	Total BTEX	
890-1801-6	SS05A	Total/NA	Solid	Total BTEX	
890-1801-7	SS06	Total/NA	Solid	Total BTEX	
890-1801-8	SS06A	Total/NA	Solid	Total BTEX	
890-1801-9	SS07	Total/NA	Solid	Total BTEX	
890-1801-10	SS07A	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: WSP USA Inc. Job ID: 890-1801-1
Project/Site: Perla Verde Battery SDG: 31403236.029 task 03.02

GC Semi VOA

Prep Batch: 16210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1801-1	SS03	Total/NA	Solid	8015NM Prep	
890-1801-2	SS03A	Total/NA	Solid	8015NM Prep	
890-1801-3	SS04	Total/NA	Solid	8015NM Prep	
890-1801-4	SS04A	Total/NA	Solid	8015NM Prep	
890-1801-5	SS05	Total/NA	Solid	8015NM Prep	
890-1801-6	SS05A	Total/NA	Solid	8015NM Prep	
890-1801-7	SS06	Total/NA	Solid	8015NM Prep	
MB 880-16210/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-16210/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-16210/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-9941-A-61-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-9941-A-61-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 16212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1801-8	SS06A	Total/NA	Solid	8015NM Prep	
890-1801-9	SS07	Total/NA	Solid	8015NM Prep	
890-1801-10	SS07A	Total/NA	Solid	8015NM Prep	
MB 880-16212/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-16212/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-16212/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-9941-A-63-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-9941-A-63-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 16215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1801-1	SS03	Total/NA	Solid	8015B NM	16210
890-1801-2	SS03A	Total/NA	Solid	8015B NM	16210
890-1801-3	SS04	Total/NA	Solid	8015B NM	16210
890-1801-4	SS04A	Total/NA	Solid	8015B NM	16210
890-1801-5	SS05	Total/NA	Solid	8015B NM	16210
890-1801-6	SS05A	Total/NA	Solid	8015B NM	16210
890-1801-7	SS06	Total/NA	Solid	8015B NM	16210
MB 880-16210/1-A	Method Blank	Total/NA	Solid	8015B NM	16210
LCS 880-16210/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	16210
LCSD 880-16210/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	16210
880-9941-A-61-E MS	Matrix Spike	Total/NA	Solid	8015B NM	16210
880-9941-A-61-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	16210

Analysis Batch: 16217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1801-8	SS06A	Total/NA	Solid	8015B NM	16212
890-1801-9	SS07	Total/NA	Solid	8015B NM	16212
890-1801-10	SS07A	Total/NA	Solid	8015B NM	16212
MB 880-16212/1-A	Method Blank	Total/NA	Solid	8015B NM	16212
LCS 880-16212/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	16212
LCSD 880-16212/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	16212
880-9941-A-63-C MS	Matrix Spike	Total/NA	Solid	8015B NM	16212
880-9941-A-63-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	16212

QC Association Summary

Client: WSP USA Inc. Job ID: 890-1801-1
Project/Site: Perla Verde Battery SDG: 31403236.029 task 03.02

GC Semi VOA

Analysis Batch: 16336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-16424/1-A	Method Blank	Total/NA	Solid	8015B NM	16424
LCS 880-16424/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	16424
LCSD 880-16424/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	16424
890-1808-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	16424
890-1808-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	16424

Prep Batch: 16424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-16424/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-16424/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-16424/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1808-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1808-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 16428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1801-1	SS03	Total/NA	Solid	8015 NM	
890-1801-2	SS03A	Total/NA	Solid	8015 NM	
890-1801-3	SS04	Total/NA	Solid	8015 NM	
890-1801-4	SS04A	Total/NA	Solid	8015 NM	
890-1801-5	SS05	Total/NA	Solid	8015 NM	
890-1801-6	SS05A	Total/NA	Solid	8015 NM	
890-1801-7	SS06	Total/NA	Solid	8015 NM	
890-1801-8	SS06A	Total/NA	Solid	8015 NM	
890-1801-9	SS07	Total/NA	Solid	8015 NM	
890-1801-10	SS07A	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 16429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1801-1	SS03	Soluble	Solid	DI Leach	
890-1801-2	SS03A	Soluble	Solid	DI Leach	
890-1801-3	SS04	Soluble	Solid	DI Leach	
890-1801-4	SS04A	Soluble	Solid	DI Leach	
890-1801-5	SS05	Soluble	Solid	DI Leach	
890-1801-6	SS05A	Soluble	Solid	DI Leach	
890-1801-7	SS06	Soluble	Solid	DI Leach	
890-1801-8	SS06A	Soluble	Solid	DI Leach	
890-1801-9	SS07	Soluble	Solid	DI Leach	
890-1801-10	SS07A	Soluble	Solid	DI Leach	
MB 880-16429/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-16429/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-16429/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1801-5 MS	SS05	Soluble	Solid	DI Leach	
890-1801-5 MSD	SS05	Soluble	Solid	DI Leach	

Analysis Batch: 16480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1801-1	SS03	Soluble	Solid	300.0	16429
890-1801-2	SS03A	Soluble	Solid	300.0	16429

QC Association Summary

Client: WSP USA Inc. Job ID: 890-1801-1
Project/Site: Perla Verde Battery SDG: 31403236.029 task 03.02

HPLC/IC (Continued)

Analysis Batch: 16480 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1801-3	SS04	Soluble	Solid	300.0	16429
890-1801-4	SS04A	Soluble	Solid	300.0	16429
890-1801-5	SS05	Soluble	Solid	300.0	16429
890-1801-6	SS05A	Soluble	Solid	300.0	16429
890-1801-7	SS06	Soluble	Solid	300.0	16429
890-1801-8	SS06A	Soluble	Solid	300.0	16429
890-1801-9	SS07	Soluble	Solid	300.0	16429
890-1801-10	SS07A	Soluble	Solid	300.0	16429
MB 880-16429/1-A	Method Blank	Soluble	Solid	300.0	16429
LCS 880-16429/2-A	Lab Control Sample	Soluble	Solid	300.0	16429
LCSD 880-16429/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	16429
890-1801-5 MS	SS05	Soluble	Solid	300.0	16429
890-1801-5 MSD	SS05	Soluble	Solid	300.0	16429

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Perla Verde Battery

Job ID: 890-1801-1
SDG: 31403236.029 task 03.02

Client Sample ID: SS03

Lab Sample ID: 890-1801-1

Date Collected: 01/04/22 11:20

Matrix: Solid

Date Received: 01/05/22 15:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			16152	01/07/22 08:00	KL	XEN MID
Total/NA	Analysis	8021B		1	16263	01/07/22 17:28	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	16426	01/10/22 11:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	16428	01/10/22 12:40	AJ	XEN MID
Total/NA	Prep	8015NM Prep			16210	01/07/22 08:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1	16215	01/07/22 18:11	AJ	XEN MID
Soluble	Leach	DI Leach			16429	01/10/22 12:49	CH	XEN MID
Soluble	Analysis	300.0		1	16480	01/11/22 04:07	CH	XEN MID

Client Sample ID: SS03A

Lab Sample ID: 890-1801-2

Date Collected: 01/04/22 13:18

Matrix: Solid

Date Received: 01/05/22 15:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			16152	01/07/22 08:00	KL	XEN MID
Total/NA	Analysis	8021B		1	16263	01/07/22 17:54	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	16426	01/10/22 11:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	16428	01/10/22 12:40	AJ	XEN MID
Total/NA	Prep	8015NM Prep			16210	01/07/22 08:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1	16215	01/07/22 18:31	AJ	XEN MID
Soluble	Leach	DI Leach			16429	01/10/22 12:49	CH	XEN MID
Soluble	Analysis	300.0		1	16480	01/11/22 04:19	CH	XEN MID

Client Sample ID: SS04

Lab Sample ID: 890-1801-3

Date Collected: 01/04/22 11:24

Matrix: Solid

Date Received: 01/05/22 15:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			16152	01/07/22 08:00	KL	XEN MID
Total/NA	Analysis	8021B		1	16263	01/07/22 18:20	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	16426	01/10/22 11:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	16428	01/10/22 12:40	AJ	XEN MID
Total/NA	Prep	8015NM Prep			16210	01/07/22 08:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1	16215	01/07/22 18:51	AJ	XEN MID
Soluble	Leach	DI Leach			16429	01/10/22 12:49	CH	XEN MID
Soluble	Analysis	300.0		1	16480	01/11/22 04:30	CH	XEN MID

Client Sample ID: SS04A

Lab Sample ID: 890-1801-4

Date Collected: 01/04/22 13:22

Matrix: Solid

Date Received: 01/05/22 15:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			16152	01/07/22 08:00	KL	XEN MID
Total/NA	Analysis	8021B		1	16263	01/07/22 18:47	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	16426	01/10/22 11:51	AJ	XEN MID

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Perla Verde Battery

Job ID: 890-1801-1
SDG: 31403236.029 task 03.02

Client Sample ID: SS04A

Lab Sample ID: 890-1801-4

Date Collected: 01/04/22 13:22
Matrix: Solid
Date Received: 01/05/22 15:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1	16428	01/10/22 12:40	AJ	XEN MID
Total/NA	Prep	8015NM Prep			16210	01/07/22 08:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1	16215	01/07/22 19:11	AJ	XEN MID
Soluble	Leach	DI Leach			16429	01/10/22 12:49	CH	XEN MID
Soluble	Analysis	300.0		1	16480	01/11/22 04:42	CH	XEN MID

Client Sample ID: SS05

Lab Sample ID: 890-1801-5

Date Collected: 01/04/22 11:28
Matrix: Solid
Date Received: 01/05/22 15:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			16152	01/07/22 08:00	KL	XEN MID
Total/NA	Analysis	8021B		1	16263	01/07/22 19:13	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	16426	01/10/22 11:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	16428	01/10/22 12:40	AJ	XEN MID
Total/NA	Prep	8015NM Prep			16210	01/07/22 08:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1	16215	01/07/22 19:31	AJ	XEN MID
Soluble	Leach	DI Leach			16429	01/10/22 12:49	CH	XEN MID
Soluble	Analysis	300.0		1	16480	01/11/22 04:54	CH	XEN MID

Client Sample ID: SS05A

Lab Sample ID: 890-1801-6

Date Collected: 01/04/22 13:30
Matrix: Solid
Date Received: 01/05/22 15:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			16152	01/07/22 08:00	KL	XEN MID
Total/NA	Analysis	8021B		1	16263	01/07/22 19:39	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	16426	01/10/22 11:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	16428	01/10/22 12:40	AJ	XEN MID
Total/NA	Prep	8015NM Prep			16210	01/07/22 08:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1	16215	01/07/22 19:51	AJ	XEN MID
Soluble	Leach	DI Leach			16429	01/10/22 12:49	CH	XEN MID
Soluble	Analysis	300.0		1	16480	01/11/22 05:30	CH	XEN MID

Client Sample ID: SS06

Lab Sample ID: 890-1801-7

Date Collected: 01/04/22 11:50
Matrix: Solid
Date Received: 01/05/22 15:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			16152	01/07/22 08:00	KL	XEN MID
Total/NA	Analysis	8021B		1	16263	01/07/22 20:06	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	16426	01/10/22 11:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	16428	01/10/22 12:40	AJ	XEN MID
Total/NA	Prep	8015NM Prep			16210	01/07/22 08:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1	16215	01/07/22 20:11	AJ	XEN MID

Lab Chronicle

Client: WSP USA Inc. Job ID: 890-1801-1
Project/Site: Perla Verde Battery SDG: 31403236.029 task 03.02

Client Sample ID: SS06 Lab Sample ID: 890-1801-7

Date Collected: 01/04/22 11:50 **Matrix: Solid**
Date Received: 01/05/22 15:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			16429	01/10/22 12:49	CH	XEN MID
Soluble	Analysis	300.0		1	16480	01/11/22 05:41	CH	XEN MID

Client Sample ID: SS06A Lab Sample ID: 890-1801-8

Date Collected: 01/04/22 13:36 **Matrix: Solid**
Date Received: 01/05/22 15:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			16152	01/07/22 08:00	KL	XEN MID
Total/NA	Analysis	8021B		1	16263	01/07/22 20:32	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	16426	01/10/22 11:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	16428	01/10/22 12:40	AJ	XEN MID
Total/NA	Prep	8015NM Prep			16212	01/07/22 08:54	DM	XEN MID
Total/NA	Analysis	8015B NM		1	16217	01/07/22 17:30	AJ	XEN MID
Soluble	Leach	DI Leach			16429	01/10/22 12:49	CH	XEN MID
Soluble	Analysis	300.0		1	16480	01/11/22 09:41	CH	XEN MID

Client Sample ID: SS07 Lab Sample ID: 890-1801-9

Date Collected: 01/04/22 11:54 **Matrix: Solid**
Date Received: 01/05/22 15:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			16152	01/07/22 08:00	KL	XEN MID
Total/NA	Analysis	8021B		1	16263	01/07/22 20:59	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	16426	01/10/22 11:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	16428	01/10/22 12:40	AJ	XEN MID
Total/NA	Prep	8015NM Prep			16212	01/07/22 08:54	DM	XEN MID
Total/NA	Analysis	8015B NM		1	16217	01/07/22 17:51	AJ	XEN MID
Soluble	Leach	DI Leach			16429	01/10/22 12:49	CH	XEN MID
Soluble	Analysis	300.0		1	16480	01/11/22 09:53	CH	XEN MID

Client Sample ID: SS07A Lab Sample ID: 890-1801-10

Date Collected: 01/04/22 13:40 **Matrix: Solid**
Date Received: 01/05/22 15:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			16152	01/07/22 08:00	KL	XEN MID
Total/NA	Analysis	8021B		1	16263	01/07/22 21:25	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	16426	01/10/22 11:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	16428	01/10/22 12:40	AJ	XEN MID
Total/NA	Prep	8015NM Prep			16212	01/07/22 08:54	DM	XEN MID
Total/NA	Analysis	8015B NM		1	16217	01/07/22 18:11	AJ	XEN MID
Soluble	Leach	DI Leach			16429	01/10/22 12:49	CH	XEN MID
Soluble	Analysis	300.0		1	16480	01/11/22 10:05	CH	XEN MID

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Perla Verde Battery

Job ID: 890-1801-1
SDG: 31403236.029 task 03.02

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc.
Job ID: 890-1801-1
Project/Site: Perla Verde Battery
SDG: 31403236.029 task 03.02

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

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
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: WSP USA Inc.
Project/Site: Perla Verde Battery

Job ID: 890-1801-1
SDG: 31403236.029 task 03.02

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (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.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.
Project/Site: Perla Verde Battery

Job ID: 890-1801-1
SDG: 31403236.029 task 03.02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1801-1	SS03	Solid	01/04/22 11:20	01/05/22 15:21	0.5
890-1801-2	SS03A	Solid	01/04/22 13:18	01/05/22 15:21	1
890-1801-3	SS04	Solid	01/04/22 11:24	01/05/22 15:21	0.5
890-1801-4	SS04A	Solid	01/04/22 13:22	01/05/22 15:21	1
890-1801-5	SS05	Solid	01/04/22 11:28	01/05/22 15:21	0.5
890-1801-6	SS05A	Solid	01/04/22 13:30	01/05/22 15:21	1
890-1801-7	SS06	Solid	01/04/22 11:50	01/05/22 15:21	0.5
890-1801-8	SS06A	Solid	01/04/22 13:36	01/05/22 15:21	1
890-1801-9	SS07	Solid	01/04/22 11:54	01/05/22 15:21	0.5
890-1801-10	SS07A	Solid	01/04/22 13:40	01/05/22 15:21	1

Chain of Custody

Work Order No: _____

XENCO LABORATORIES

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334
Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296
Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)
www.xenco.com Page 1 of 1

Project Manager:	Ben Helill	Bill to: (if different)	Adrian Baker
Company Name:	WSP USA	Company Name:	XTO Energy
Address:	508 W Stevens St	Address:	3104 E Green Street
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	1-989-854-0852	Email:	Adrian.Baker@exxonmobil.com,Ben.Helill@wsp.com

Work Order Comments

Program: UST/PST ☐ RP ☐ Brownfields ☐ RC ☐ Superfund ☐

State of Project:

Reporting:Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Perla Verde Battery	Turn Around	
Project Number:	31403236.029Task 03.02	Routine ☐	
P.O. Number:	Napp2130053365	Rush:3 days	
Sampler's Name:	Mercy Rotich.	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No	
Temperature (°C):	1.4 / 1.2	Thermometer ID		
Received Intact:	(Yes) No	TNM-007		
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No (N/A)	Total Containers:		

ANALYSIS REQUEST

Work Order Notes

CC:1073541001

890-1801 Chain of Custody

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)	Sample Comments
SS03	S	01/04/22	11:20	0.5'	1	X	X	X	Discrete
SS03A	S	01/04/22	13:18	1'	1	X	X	X	Discrete
SS04	S	01/04/22	11:24	0.5'	1	X	X	X	Discrete
SS04A	S	01/04/22	13:22	1'	1	X	X	X	Discrete
SS05	S	01/04/22	11:28	0.5'	1	X	X	X	Discrete
SS05A	S	01/04/22	13:30	1'	1	X	X	X	Discrete
SS06	S	01/04/22	11:50	0.5'	1	X	X	X	Discrete
SS06A	S	01/04/22	13:36	1'	1	X	X	X	Discrete
SS07	S	01/04/22	11:54	0.5'	1	X	X	X	Discrete
SS07A	S	01/04/22	13:40	1'	1	X	X	X	Discrete

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** : Hg

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Mercy.	N. Ellis	1/5/22 3:21	2		
3			4		
5			6		

Revised Date 051418 Rev 2018.1

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1801-1
SDG Number: 31403236.029 task 03.02

Login Number: 1801
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1801-1
SDG Number: 31403236.029 task 03.02

Login Number: 1801
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 01/07/22 12:52 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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	

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 74366

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 74366
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	None	2/9/2022