NM OIL CONSERVATION

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

ARTESIA DISTRICT

Energy Minerals and Natural Resources 2 4 2017

Form C-141 Revised August 8, 2011

Oil Conservation Division
1220 South St. Francis Dr. RECEIVED

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Santa Fe, NM 87505

Release Notification and Corrective Action **OPERATOR** Initial Report Final Report Contact: Amy Ruth Telephone No. 575-689-3380 Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220 Facility Name: PLU CVX JV PC 018H @ PLU 213 Battery Facility Type: Exploration and Production API No. 30-015-41281 Surface Owner: Federal Mineral Owner: Federal LOCATION OF RELEASE North/South Line Unit Letter Section Township Range Feet from the Feet from the East/West Line County P 30E 870 Eddy 248 950 South East Latitude 32.212927° Longitude 103.914969° NATURE OF RELEASE Crude Oil Volume Recovered 4 bbls Type of Release Volume of Release 7.5 bbls Date and Hour of Occurrence Date and Hour of Discovery Source of Release Flow Line 2/20/2017 11 am 2/20/2017 time unknown If YES, To Whom? Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required Date and Hour N/A By Whom? N/A If YES, Volume Impacting the Watercourse. Was a Watercourse Reached? ☐ Yes ⊠ No N/A If a Watercourse was Impacted, Describe Fully. N/A Describe Cause of Problem and Remedial Action Taken.* Pin hole developed in buried steel flow line due to corrosion. Line was clamped and corroded pipe section will be replaced. Describe Area Affected and Cleanup Action Taken.* Leak affected approximately 810 square feet of caliche road and pasture northwest of the lease road and battery/swd. Free standing fluids were recovered. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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 OIL CONSERVATION Signature Approved by Environmental Specialis Printed Name: hy C. Ruth Title: Approval Date: EHS Environmental Supervisor Hachlo Attached E-mail Address: ACRuth@basspet.com Conditions of Approval: Date: Phone: 432-661-0571 2/24/2017

* Attach Additional Sheets If Necessary

2RP-4127

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

Responsible Party: XTO Energy, Inc

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	NAB1705937661
District RP	2RP-4127
Facility ID	
Application ID	

Release Notification

Responsible Party

OGRID: 5380

Contact Name: Garrett Green				Contact	Contact Telephone: 575-200-0729		
Contact email: garrett.green@exxonmobil.com			com	Incident	Incident #: 2RP-4127		
Contact mail	ing address 3	3104 E. Greene Str	eet, Carlsbad, Ne	w Mexico, 88220			
			Location	of Release S	Source		
Latitude N 32	2.212927			Longitude	e W -103.914969		
			(NAD 83 in dec	cimal degrees to 5 dec			
Site Name: Pl	LU CVX JV	PC 18H @ PLU 2	213 Battery	Site Type	e: Production Well Facility		
Date Release	Discovered:	2/20/2017		API# (if ap	pplicable): 30-015-41281		
Unit Letter	Section	Township	Danga	Car	unty		
P	18	24S	Range 30E		ldy		
1	10	240		Lo	lay		
Surface Owner	r: State	∑ Federal	ibal ☐ Private (<i>l</i>	Name:)		
					,		
			Nature and	d Volume of	Release		
		(s) Released (Select al	I that apply and attach	calculations or specif	fic justification for the volumes provided below)		
Crude Oil	1	Volume Release	d (bbls): 7.5		Volume Recovered (bbls): 4		
Produced	Water	Volume Release	d (bbls):		Volume Recovered (bbls):		
		Is the concentrate produced water >	ion of dissolved c	hloride in the	☐ Yes ☐ No		
Condensa	ite	Volume Release			Volume Recovered (bbls)		
Natural G	fas	Volume Release	d (Mcf)		Volume Recovered (Mcf)		
Other (de	scribe)	Volume/Weight	Released (provide	e units)	Volume/Weight Recovered (provide units)		
Cause of Rele		1 1 - 1 1 1 1 1 1 1					
A pin noie de	eveloped in t	he buried steel flo	w line due to corre	osion.			

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Incident ID	NAB1705937661
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Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsive N/A	nsible party consider this a major release?
☐ Yes ⊠ No		
If YES, was immediate no N/A	otice given to the OCD? By whom? To wh	om? When and by what means (phone, email, etc)?
	Initial Ro	esponse
The responsible	party must undertake the following actions immediatel	y unless they could create a safety hazard that would result in injury
☐ The source of the rele	ease has been stopped.	
☐ The impacted area ha	s been secured to protect human health and	the environment.
Released materials ha	ave been contained via the use of berms or c	ikes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed and	d managed appropriately.
N/A	d above have <u>not</u> been undertaken, explain v	
has begun, please attach	a narrative of actions to date. If remedial	emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred clease attach all information needed for closure evaluation.
regulations all operators are public health or the environi failed to adequately investig	required to report and/or file certain release noti ment. The acceptance of a C-141 report by the C ate and remediate contamination that pose a thre	best of my knowledge and understand that pursuant to OCD rules and fications and perform corrective actions for releases which may endanger oCD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws
Printed Name: Gar	rett Green_	Title: SSHE Coordinator
Signature:	the Sur	Date:5-31-2023
email:garrett.green@e	xxonmobil.com	Telephone: <u>575-200-0729</u>
OCD Only		
Received by:		Date:

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Incident ID	NAB1705937661	
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Application ID		

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 20 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release?	<u>>100</u> (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No
Did the release impact areas not on an exploration, development, production, or storage site?	⊠ Yes □ No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vercontamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
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 well Field data	ls.

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.

Received by OCD: 6/1/2023 10:52:34 AM Form C-141 State of New Mexico Page 4 Oil Conservation Division

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Incident ID	NNAB1705937661
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regulations all operators are required to report and/or file certain release public health or the environment. The acceptance of a C-141 report by failed to adequately investigate and remediate contamination that pose a	the best of my knowledge and understand that pursuant to OCD rules and notifications and perform corrective actions for releases which may endanger the OCD does not relieve the operator of liability should their operations have a threat to groundwater, surface water, human health or the environment. In or of responsibility for compliance with any other federal, state, or local laws
Printed Name: <u>Garrett Green</u>	Title:SSHE Coordinator
Signature: Satt Saur	Date:5-31-2023
email:garrett.green@exxonmobil.com_	Telephone: <u>575-200-0729</u>
OCD Only	
Received by:	Date:

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	- "8" ")
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Closure

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

Closure Report Attachment Checklist: Each of the following it	ems must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODC	District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and remhuman health or the environment. In addition, OCD acceptance of a compliance with any other federal, state, or local laws and/or regular restore, reclaim, and re-vegetate the impacted surface area to the coraccordance with 19.15.29.13 NMAC including notification to the OPrinted Name: Garrett Green	nediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for tions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete. Title: SSHE Coordinator
Signature: Sum	Date: 5-31-2023
email: <u>garrett.green@exxonmobil.com</u>	Telephone: <u>575-200-0729</u>
OCD Only	
Received by:	Date:
remediate contamination that poses a threat to groundwater, surface venture of compliance with any other federal, state, or local laws and/or	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by: Luttan Hall	Date: _6/5/2023
Printed Name: Brittany Hall	Title: Environmental Specialist



May 31, 2023

New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Re: Closure Request Addendum

PLU CVX JV PC 018H @ PLU 213 Battery

Incident Number NAB1705937661

Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared the following addendum to the original *Closure Request* dated November 27, 2019. This addendum provides an update to the soil sampling activities completed at the Poker Lake Unit (PLU) CVX JV PC 018H @ PLU 213 Battery (Site) in response to the denial of the November 27, 2019, *Closure Request* by the New Mexico Oil Conservation Division (NMOCD). In the denial, NMOCD indicated that delineation and excavation samples exceeded the reclamation requirement in the off-pad release areas at the Site. Based on the additional soil sampling activities described below, XTO is submitting this *Closure Request Addendum* and requesting closure for Incident Number NAB1705937661.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit P, Section 18, Township 24 South, Range 30 East, in Eddy County, New Mexico (32.212927°, -103.914969°) and is associated with oil and gas exploration and production operations on Federal land managed by the New Mexico Bureau of Land Management (BLM).

On February 20, 2017, a corrosion hole developed in a steel flow line, resulting in the release of approximately 7.5 barrels (bbls) of crude oil. An approximate 810 square foot area was affected by the release, including portions of the lease road, pasture northwest of the lease road, and well pad. A vacuum truck recovered approximately 4 bbls of free-standing fluid. The flow line was clamped, and the corroded section was replaced. The former operator reported the release to the NMOCD on a Release Notification and Corrective Action Form C-141 (Form C-141) on February 24, 2017. The release was assigned Remediation Permit (RP) Number 2RP-4127 and Incident Number NAB1705937661.

The release was included in the Compliance Agreement for Remediation for Historical Releases (Compliance Agreement) between XTO and the NMOCD effective November 13, 2018. The purpose of the Compliance Agreement was to ensure that reportable releases that occurred prior to August 14, 2018, where XTO is responsible for the corrective action, comply with 19.15.29 of the New Mexico Administrative Code (NMAC) as amended on August 14, 2018.

BACKGROUND

The original *Closure Request* detailed site characterization according to Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the NMAC. Results from the site characterization are presented on page 3 of the Form C-141, Site Assessment/Characterization.

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 3122 National Parks Highway | Carlsbad, New Mexico 88220 | ensolum.com

XTO Energy, Inc. Closure Request Addendum PLU CVX JV PC 018H @ PLU 213 Battery

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well is New Mexico Office of the State Engineer (NMOSE) well C-04676, located approximately 0.22 miles south of the Site. The well was drilled to a depth of 120 feet in November 2022, and no groundwater was encountered. The well record is provided in Appendix A. Potential site receptors are identified on Figure 1. Based on the results of the Site Characterization, the following NMOCD Table I Closure Criteria (Closure Criteria) were applied:

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

During June and November 2019, delineation and excavation activities were conducted at the Site to address the impacted soil resulting from the February 20, 2017, crude oil release. The release extent was laterally and vertically delineated to below the Site Closure Criteria and approximately 35 cubic yards of impacted soil were excavated. Additional details regarding the delineation and excavation activities can be referenced in the November 27, 2019 *Closure Request*. Laboratory analytical results from the soil sampling activities are summarized in Table 1. The delineation and excavation soil sample locations are presented on Figure 2 and Figure 3. Based on the laboratory analytical results, a *Closure Request* was submitted to the NMOCD on November 27, 2019.

On March 1, 2023, NMOCD denied the *Closure Request* for Incident Number NAB1705937661 for the following reason:

 As this area is not reasonably needed for production operations or for subsequent drilling operations, it must meet the requirements of 19.15.29.13 NMAC. Four delineation samples and three of the confirmation samples did not meet the requirements of 19.15.29.13 NMAC.

Upon review of the 2019 soil sample analytical results, delineation soil samples BH01/BH01A, BH02/BH02A, BH03, and PH04 and excavation soil samples FS01, FS02, and SW05 were identified to have TPH or chloride concentrations exceeding the reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH in the top 4 feet of areas to be reclaimed following remediation. Delineation samples BH01/BH01A and BH02/BH02A were excavated during the 2019 excavation activities. Based on the soil sample laboratory analytical results from the 2019 delineation and excavation activities, additional soil sampling was warranted at the locations of borehole BH03, pothole PH04, and excavation samples FS01, FS02, and SW05.

ADDITIONAL SOIL SAMPLING ACTIVITIES

During April and May 2023, Ensolum personnel returned to the Site to complete soil sampling activities to assess for the presence or absence of residual impacted soil identified during 2019 in delineation soil samples from borehole BH03 and pothole PH04 and excavation soil samples FS01, FS02, and SW05.

Pothole PH09 was advanced via backhoe to a depth of 4 feet bgs at the original pothole PH04 location. Discrete delineation samples were collected from pothole PH09 at depths ranging from 1-foot to 4 feet bgs. One discrete delineation sample was collected from a depth of 0.5 feet bgs at the original borehole BH03 location. The delineation soil samples were field screened for volatile organic compounds (VOCs)



XTO Energy, Inc. Closure Request Addendum PLU CVX JV PC 018H @ PLU 213 Battery

utilizing a calibrated photoionization detector (PID) and chloride utilizing Hach® chloride QuanTab® test strips. The delineation soil sample locations are presented on Figure 2.

The area around original excavation sample FS01 was re-excavated to a depth of 4 feet bgs and the area around original excavation samples FS02 and SW05 was re-excavated to a depth of 2 feet bgs. Five-point composite soil samples were collected from the open excavations by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil sample FS01A was collected from the floor of the excavation from a depth of 4 feet bgs at the original FS01 soil sample location. Composite soil sample FS02A was collected from the floor of the excavation from a depth of 2 feet bgs at the original FS02 soil sample location and composite soil sample SW06 was collected from the sidewall of the excavation from a depth ranging from the ground surface to 2 feet bgs at the original SW05 soil sample location. The excavation soil sample locations are presented on Figure 3. Photographic documentation was completed during the Site visit and a photographic log is included in Appendix B.

The 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 under strict chain-of-custody procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of the following constituents of concern (COC): 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 samples delivered to the laboratory the same day they are collected may not have equilibrated to the 6 degrees Celcius required for shipment and long term storage, but are considered to have been received in acceptable condition.

Laboratory analytical results for the delineation samples from pothole PH09 and borehole BH03 and excavation samples FS01A, FS02A, and SW06 indicated that all COC concentrations were compliant with the Site Closure Criteria and the reclamation requirement. The soil sample analytical results are summarized on Table 1 and the laboratory analytical reports are included as Appendix C.

CLOSURE REQUEST

Site assessment and excavation activities were completed at the Site to address the impacted soil resulting from the February 20, 2017, crude oil release. Based on laboratory analytical results compliant with the Site Closure Criteria and the reclamation requirement in the final delineation and excavation soil samples, no further remediation is required.

Initial response efforts, excavation of impacted soil, and natural attenuation have mitigated impacts at this Site. Depth to groundwater has been determined to be greater than 100 feet bgs within 0.5 miles of the Site and no other sensitive receptors were identified near the release extent. XTO believes the remedial actions completed are protective of human health, the environment, and groundwater and respectfully requests closure for Incident Number NAB1705937661.



XTO Energy, Inc. Closure Request Addendum PLU CVX JV PC 018H @ PLU 213 Battery

If you have any questions or comments, please contact Ms. Tacoma Morrissey at (337) 257-8307 or tmorrissey@ensolum.com.

Sincerely, **Ensolum, LLC**

Aimee Cole

Senior Managing Scientist

Ashley Ager, P.G. Program Director

cc: Garrett Green, XTO

Shelby Pennington, XTO
Bureau of Land Management

Appendices:

Figure 1 Site Receptor Map

Figure 2 Delineation Soil Sample Locations
Figure 3 Excavation Soil Sample Locations
Table 1 Soil Sample Analytical Results
Appendix A Referenced Well Records

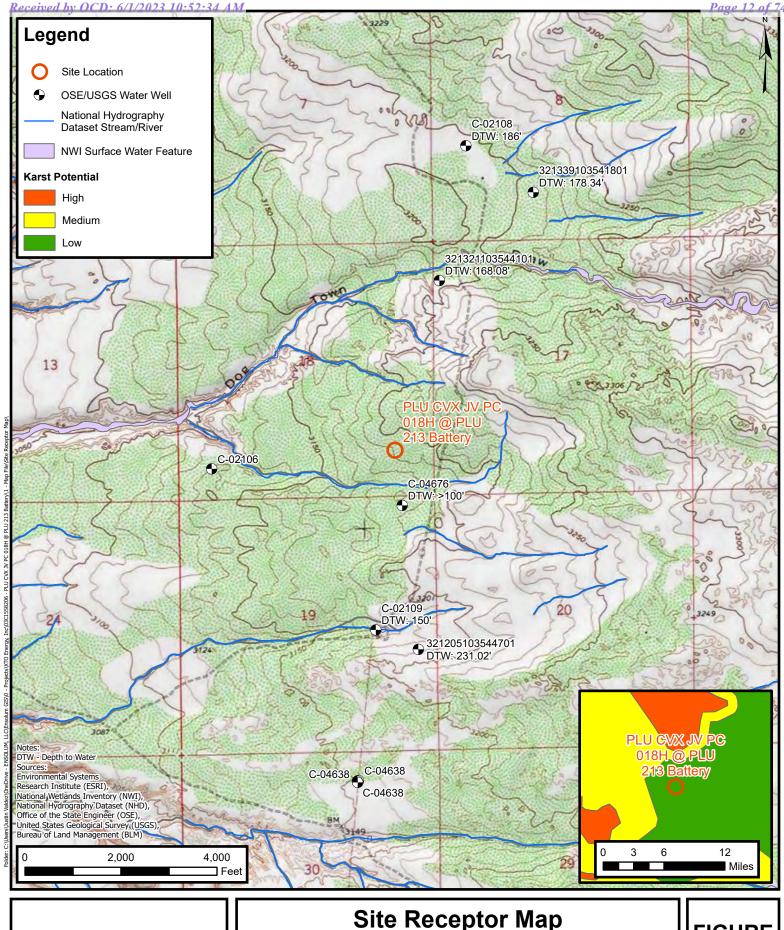
Appendix B Photographic Log

Appendix C Laboratory Analytical Reports & Chain-of-Custody Documentation (2023)

Appendix D NMOCD Notifications



FIGURES



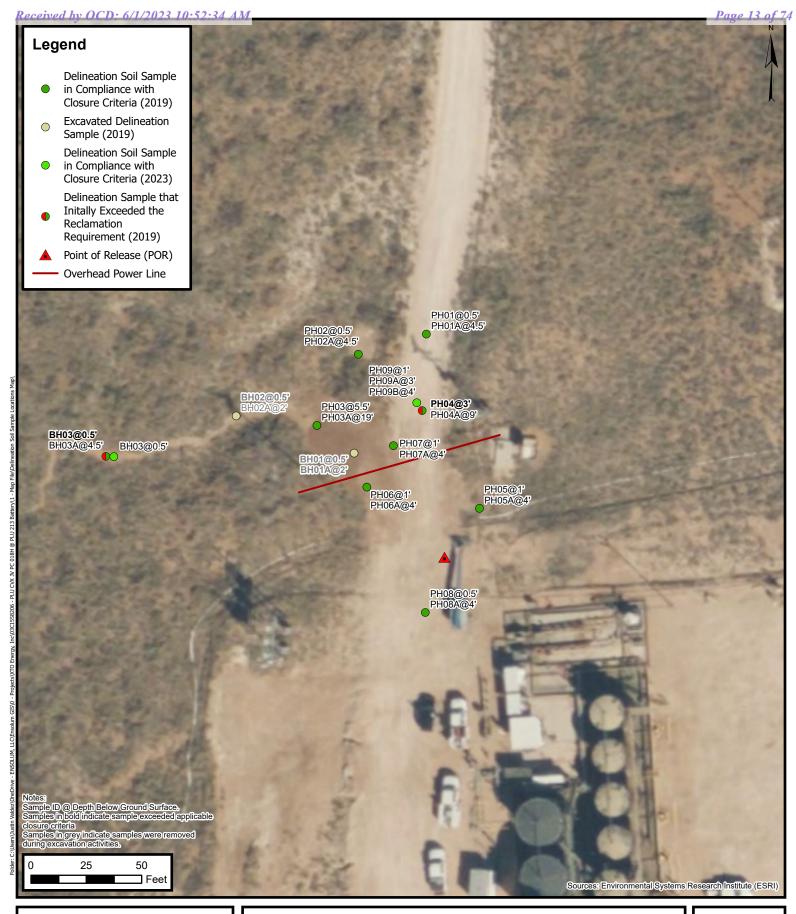


Site Receptor Map

XTO Energy, Inc.
PLU CVX JV PC 018H @ PLU 213 Battery
Incident Number: NAB1705937661 Unit P, Section 18, Township 24 South, Range 30 Eddy County, New Mexico

FIGURE

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Delineation Soil Sample Locations

XTO Energy, Inc.
PLU CVX JV PC 018H @ PLU 213 Battery
Incident Number: NAB1705937661
Unit P, Section 18, Township 24 South, Range 30
Eddy County, New Mexico

FIGURE 2





Excavation Soil Sample Locations

XTO Energy, Inc.
PLU CVX JV PC 018H @ PLU 213 Battery
Incident Number: NAB1705937661
Unit P, Section 18, Township 24 South, Range 30
Eddy County, New Mexico

FIGURE 3



TABLES



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Poker Lake Unit CVX JV PC 018H @ PLU 213 Battery XTO Energy, Inc. Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I C	Closure Criteria (NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
				Deli	neationSoil Sar	nples				
PH01	6/21/2019	0.5	<0.00201	<0.00201	<15.0	<15.0	<15.0	<15.0	<15.0	6.67
PH01A	06/21/2019	4.5	<0.00200	<0.00200	<14.9	<14.9	<14.9	<14.9	<14.9	<5.04
PH02	06/21/2019	0.5	<0.00201	<0.00201	<15.0	<15.0	<15.0	<15.0	<15.0	<4.97
PH02A	06/21/2019	4.5	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	<4.98
PH03	06/21/2019	5.5	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	487
PH03A	06/21/2019	19	< 0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	<15.0	19.1
PH04	06/21/2019	3	< 0.00199	< 0.00199	<15.0	<15.0	<15.0	<15.0	<15.0	822
PH04A	06/21/2019	9	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	<5.04
PH09	04/12/2023	1	< 0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	151
PH09A	04/12/2023	3	< 0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	317
PH09B	04/12/2023	4	< 0.00200	< 0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	57.1
PH05	06/24/2019	1	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	5.50
PH05A	06/24/2019	4	< 0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	318
PH06	06/24/2019	1	<0.00199	< 0.00199	<14.9	<14.9	<14.9	<14.9	<14.9	<4.96
PH06A	06/24/2019	4	< 0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	103
PH07	06/24/2019	1	<0.00201	<0.00201	<15.0	<15.0	<15.0	<15.0	<15.0	<5.00
PH07A	06/24/2019	4	< 0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	29.6
PH08	06/24/2019	0.5	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	<15.0	198
PH08A	06/24/2019	4	<0.00201	<0.00201	<14.9	<14.9	<14.9	<14.9	<14.9	450
BH01	06/21/2019	0.5	<0.00200	<0.00200	42.6	2,230	114	2,270	2,390	<5.05
BH01A	06/21/2019	2	<0.00199	<0.00199	151	3,540	166	3,690	3,860	<5.01
BH02	06/21/2019	0.5	<0.00201	<0.00201	19	2,380	221	2,400	2,620	<4.96
BH02A	06/21/2019	2	<0.00201	<0.00201	<15.0	<15.0	<15.0	< 15.0	<15.0	833
BH03	06/21/2019	0.5	<0.00200	<0.00200	<15.0	129	17.8	129	147	<5.01
BH03	05/18/2023	0.5	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	59.9
BH03A	06/21/2019	4.5	< 0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	100

Ensolum 1 of 2



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Poker Lake Unit CVX JV PC 018H @ PLU 213 Battery XTO Energy, Inc. Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)		
NMOCD Table I Closure Criteria (NMAC 19.15.29)		NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000		
	Excavation Soil Samples											
SW01	06/24/2019	0.5 4	<0.00201	<0.00201	<15.0	<15.0	<15.0	<15.0	<15.0	36.9		
SW02	06/24/2019	0.5 4	<0.00200	<0.00200	<15.0	26.7	<15.0	26.7	26.7	7.16		
SW03	06/24/2019	2	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	<15.0	<4.98		
SW04	06/24/2019	2.5	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	28.1		
SW05	11/01/2019	0 2	< 0.00101	0.00306	<50.0	247	<50.0	247	247	36.9		
SW06	04/12/2023	0 - 2	< 0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	163		
FS01	06/24/2019	4	<0.00200	0.0445	53	866	55	919	974	139		
FS01A	04/12/2023	4	< 0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	86.3		
FS02	11/01/2019	0.5 2	<0.00100	<0.00100	<50.1	197	<50.1	197	197	47.1		
FS02A	04/12/2023	2	< 0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	161		

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation

requirement where applicable.

GRO: Gasoline Range Organics DRO: Diesel Range Organics ORO: Oil Range Organics TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code

Grey text indicates soil sample that was removed during the 2019 excavation activities

Grey text indicates 2019 soil sample that was resampled in 2023

Ensolum 2 of 2



APPENDIX A

Referenced Well Records



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number**

Q64 Q16 Q4 Sec Tws Rng

WEST TEXAS WATER WELL SERVICE

NA

C 04676 POD1

2 19 24S 30E

602298

3564202

Y

Driller License: 1184

Driller Company:

Driller Name:

RUSSELL SOUTHERLAND

Drill Finish Date:

11/22/2022

Plug Date:

11/28/2022

Log File Date:

Drill Start Date:

11/22/2022 12/21/2022

PCW Rcv Date:

Source:

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size:

Depth Well:

120 feet

Depth Water:

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

5/11/23 1:38 PM

POINT OF DIVERSION SUMMARY

Received by OCD: 6/1/2023 10:52:34 AM



QSE DIF DEC 21 2022 PM3:14

C-04676 POD WELL OWNER I						C-04676 PHONE (OPTIO	ONAL)				
XTO ENERG						575-200-0729					
WELL OWNER I						CARLSBAD NM 88220					
WELL	TA.		GREES MINUTES SECONDS 32 12 32.66 N			* ACCURACY REQUIRED: ONE TENTH OF A SECOND					
(FROM GPS) LONGITUDE			-103 54 50.95 W								
DESCRIPTION POKER LAK		NG WELL LOCATION TO T # 231	STREET ADDRESS A	ND COMMON LAND	MARKS – PLS	SS (SECTION, TO	WNSHJIP, RANGE) WH	ERE AVAILABLE			
LICENSE NO. WD-118	4	NAME OF LICENSED		SOUTHERLAND			NAME OF WELL DR WEST TEXAS	ILLING COMPANY S WATER WELL SE	RVICE		
DRILLING STARTED DRILLING ENDED 11/22/22 11/22/22				DEPTH OF COMPLETED WELL (FT) BORE HOLE DEPT			DEPTH WATER FIRE	FIRST ENCOUNTERED (FT)			
COMPLETED W	ELL IS:	ARTESIAN	V DRY HOLE				STATIC WATER LEV	/EL IN COMPLETED WI	ELL (FT)		
DRILLING FLUI	D:	✓ AIR	☐ MUD	MUD ADDITIVES – SPECIFY:							
DRILLING MET	HOD:	▼ ROTARY	HAMMER	HAMMER CABLE TOOL OTHER – SPECIFY:							
DEPTH (feet bgl) BORE HOLE FROM TO DIAM		TRADE I			ASING NECTION	CASING INSIDE DIAM.	CASING WALL THICKNESS	SLO			
(inches)		(include each casing string, and		TYPE oling diameter)	(inches)	(inches)	(inch				
			NO CASING IN HOLE								
-	-								-		
									-		
DEPTH (feet bgl) BORE HOLE			LIST A	LIST ANNULAR SEAL MATERIAL AN			AND AMOUNT M				
FROM	то	DIAM. (inches)	GRAVEL	PACK SIZE-RANC	E BY INTI	ERVAL	(cubic feet)	PLACE	MENT		
				N/A							
		1									
OOD DAMES									0.000		
NO. C- C		76		POD NO.	ı	TRN N		& LOG (Version 04/3	0/19)		
ATION 7		30E.19.1.	7 7			WELL TAG II		PAGE	1.00		

	DEPTH (feet bgl)		COLOBA	ND TYPE OF MA	TEDIAL ENC	OUNTERED		TED	ESTIMATED
	FROM	то	THICKNESS (feet)	INCLUDE WAT		AVITIES OR F	RACTURE ZONES	BEA	TER RING? /NO)	YIELD FOR WATER- BEARING ZONES (gpm)
	0	1			CALICI	HE PAD		Y	✓ N	
	1	120			RED	SAND		Y	✓ N	
								Y	N	
								Y	N	
	7							Y	N	
T								Y	N	
WE								Y	N	
OF								Y	N	
20								Y	N	
CIC								Y	N	
CO								Y	N	
GEC								Y	N	
DRO								Y	N	
4. HYDROGEOLOGIC LOG OF WELL								Y	N	
4								Y	N	
								Y	N	
								Y	N	
								Y	N	
								Y	N	
	1							Y	N	
								Y	N	
	METHOD U			OF WATER-BEARING	IG STRATA: THER – SPECIF	:DRY HOLE		WELL YIELI		0.00
NOIS	WELL TES			ACH A COPY OF DA ME, AND A TABLE S						
5. TEST; RIG SUPERVIS	PRINT NAM	ME(S) OF D		VISOR(S) THAT PRO	OVIDED ONSITE	SUPERVISIO		GE DIT DEC		
	RECORD O	G BELOW	, I CERTIFY TH	AT TO THE BEST O	PITY THAT THE	WELL TAG, I	F REQUIRED, HAS	BEEN INSTA	LLED A	ND THAT THIS
6. SIGNATURE	WELL RECO	stl	Sad	hxx	LL SOUTHERI		FTER THE COMPLI		2/2022	LING.
	"	SIGNAT	TURÉ OF DRILLE	PRINT SIGNEE	NAME				DATE	
FOF	R OSE INTER	NAL USE					WR-20 WEL	L RECORD &	LOG (Ve	rsion 04/30/2019
FIL		0467			POD NO.		TRN NO.	7362	86	
LO	CATION 2	45.3	1.91.70	.2.2.		w	ELL TAG ID NO.			PAGE 2 OF



APPENDIX B

Photographic Log



Photographic Log

XTO Energy, Inc.

Poker Lake Unit CVX JV PC 018H @ PLU 213 Battery Incident Number NAB1705937661





Photograph: 1 Date: 4/12/2023

Description: View of historical release area during

sampling activities.

Photograph: 2 Date: 4/12/2023

Description: View of historical release area.

Pothole PH09





Photograph: 3 Date: 4/12/2023

Description: View of historical release area.

FS02A excavation area

Photograph: 4 Date: 4/12/2023

Description: View of historical release area.

FS01A excavation area



APPENDIX C

Laboratory Analytical Reports & Chain of Custody Documentation

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Tacoma Morrissey Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701

Generated 4/18/2023 2:48:30 PM

JOB DESCRIPTION

PLU CVX JV PC 018H SDG NUMBER 03C1558206

JOB NUMBER

890-4505-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated 4/18/2023 2:48:30 PM

Authorized for release by Jessica Kramer, Project Manager <u>Jessica.Kramer@et.eurofinsus.com</u> (432)704-5440

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

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Client: Ensolum
Project/Site: PLU CVX JV PC 018H
Laboratory Job ID: 890-4505-1
SDG: 03C1558206

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Definitions/Glossary

Job ID: 890-4505-1 Client: Ensolum Project/Site: PLU CVX JV PC 018H

SDG: 03C1558206

Qualifiers

GC VOA Qualifier

*+	LCS and/or LCSD is outside acceptance limits, high biased

F1 MS and/or MSD recovery exceeds control limits.

F2 MS/MSD RPD exceeds control limits

Qualifier Description

S1+ Surrogate recovery exceeds control limits, high biased. 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.
n	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)

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

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

MDL Method Detection Limit MI 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 Practical Quantitation Limit **PQL**

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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: Ensolum

Project/Site: PLU CVX JV PC 018H

Job ID: 890-4505-1

SDG: 03C1558206

Job ID: 890-4505-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4505-1

Receipt

The samples were received on 4/12/2023 3:12 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.8°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: FS01A (890-4505-1), FS02A (890-4505-2), SW06 (890-4505-3), PH09 (890-4505-4), PH09A (890-4505-5) and PH09B (890-4505-6).

GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-51295 recovered above the upper control limit for Toluene, Ethylbenzene, m-Xylene & p-Xylene, o-Xylene and 4-Bromofluorobenzene (Surr). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-51295 recovered above the upper control limit for m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-27134-A-121-D MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (LCS 880-51109/1-A). Evidence of matrix interferences is not obvious.

Method 8021B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 880-51109 and analytical batch 880-51295 recovered outside control limits for the following analytes: m-Xylene & p-Xylene, o-Xylene and Xylenes, Total. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-51109 and analytical batch 880-51295 was outside control limits. Sample matrix interference and/or non-homogeneity is suspected.

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: (890-4507-A-9-B). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: FS01A (890-4505-1) and FS02A (890-4505-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: PH09 (890-4505-4), PH09A (890-4505-5) and PH09B (890-4505-6). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

Method 300 ORGFM 28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-51314 and analytical batch 880-51407 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.FS01A (890-4505-1), FS02A (890-4505-2), SW06 (890-4505-3), PH09 (890-4505-4), PH09A (890-4505-5), PH09B (890-4505-6),

Case Narrative

Client: Ensolum Job ID: 890-4505-1 Project/Site: PLU CVX JV PC 018H SDG: 03C1558206

Job ID: 890-4505-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

(880-27147-A-1-B), (880-27147-A-1-C MS) and (880-27147-A-1-D MSD)

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

Lab Sample ID: 890-4505-1

Client Sample Results

 Client: Ensolum
 Job ID: 890-4505-1

 Project/Site: PLU CVX JV PC 018H
 SDG: 03C1558206

Client Sample ID: FS01A

Date Collected: 04/12/23 10:00 Date Received: 04/12/23 15:12

Sample Depth: 4'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		04/13/23 15:49	04/18/23 07:49	1
Toluene	< 0.00199	U	0.00199	mg/Kg		04/13/23 15:49	04/18/23 07:49	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		04/13/23 15:49	04/18/23 07:49	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398	mg/Kg		04/13/23 15:49	04/18/23 07:49	1
o-Xylene	< 0.00199	U *+	0.00199	mg/Kg		04/13/23 15:49	04/18/23 07:49	1
Xylenes, Total	<0.00398	U *+	0.00398	mg/Kg		04/13/23 15:49	04/18/23 07:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130			04/13/23 15:49	04/18/23 07:49	1
1,4-Difluorobenzene (Surr)	105		70 - 130			04/13/23 15:49	04/18/23 07:49	1
- Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			04/18/23 12:12	1
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Total TPH			49.8	Mg/Kg	<u>D</u>	Prepared	Analyzed 04/17/23 09:43	
Total TPH	<49.8	U	49.8		<u>D</u>	Prepared		
	<49.8	U	49.8		<u>D</u>	Prepared Prepared		1
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	<49.8	nics (DRO) Qualifier	49.8 (GC)	mg/Kg			04/17/23 09:43	Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<49.8 sel Range Orga Result	nics (DRO) Qualifier	49.8 (GC)	mg/Kg		Prepared	04/17/23 09:43 Analyzed	Dil Fac
Total TPH Method: SW846 8015B NM - Dies	<49.8 sel Range Orga Result <49.8	nics (DRO) Qualifier U	(GC) RL 49.8	mg/Kg Unit mg/Kg		Prepared 04/14/23 12:00	04/17/23 09:43 Analyzed 04/15/23 18:15	Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.8 sel Range Orga Result <49.8 <49.8	nics (DRO) Qualifier U	49.8 (GC) RL 49.8 49.8	mg/Kg Unit mg/Kg mg/Kg		Prepared 04/14/23 12:00 04/14/23 12:00	04/17/23 09:43 Analyzed 04/15/23 18:15 04/15/23 18:15	Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<49.8 sel Range Orga Result <49.8 <49.8 <49.8	nics (DRO) Qualifier U	49.8 (GC) RL 49.8 49.8 49.8	mg/Kg Unit mg/Kg mg/Kg		Prepared 04/14/23 12:00 04/14/23 12:00 04/14/23 12:00	04/17/23 09:43 Analyzed 04/15/23 18:15 04/15/23 18:15	Dil Face 1 1 1 Dil Face
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<49.8 sel Range Orga Result <49.8 <49.8 <49.8 %Recovery 59	Oualifier U Qualifier U Qualifier	49.8 (GC) RL 49.8 49.8 49.8 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 04/14/23 12:00 04/14/23 12:00 04/14/23 12:00 Prepared	04/17/23 09:43 Analyzed 04/15/23 18:15 04/15/23 18:15 04/15/23 18:15 Analyzed	Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<49.8 sel Range Orga Result <49.8 <49.8 <49.8 %Recovery 59 60	Oualifier U Qualifier U Qualifier S1- S1-	49.8 (GC) RL 49.8 49.8 49.8 49.8 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 04/14/23 12:00 04/14/23 12:00 04/14/23 12:00 Prepared 04/14/23 12:00	04/17/23 09:43 Analyzed 04/15/23 18:15 04/15/23 18:15 Analyzed 04/15/23 18:15	Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<49.8 sel Range Orga Result <49.8 <49.8 <49.8 %Recovery 59 60 a Chromatograp	Oualifier U Qualifier U Qualifier S1- S1-	49.8 (GC) RL 49.8 49.8 49.8 49.8 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 04/14/23 12:00 04/14/23 12:00 04/14/23 12:00 Prepared 04/14/23 12:00	04/17/23 09:43 Analyzed 04/15/23 18:15 04/15/23 18:15 Analyzed 04/15/23 18:15	Dil Fac Dil Fac 1 Dil Fac 1 Dil Fac 1 Dil Fac 1 Dil Fac

Client Sample ID: FS02A Lab Sample ID: 890-4505-2

Date Collected: 04/12/23 10:35 Date Received: 04/12/23 15:12

Sample Depth: 2'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		04/13/23 15:49	04/18/23 08:09	1
Toluene	<0.00199	U	0.00199	mg/Kg		04/13/23 15:49	04/18/23 08:09	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/13/23 15:49	04/18/23 08:09	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398	mg/Kg		04/13/23 15:49	04/18/23 08:09	1
o-Xylene	<0.00199	U *+	0.00199	mg/Kg		04/13/23 15:49	04/18/23 08:09	1
Xylenes, Total	<0.00398	U *+	0.00398	mg/Kg		04/13/23 15:49	04/18/23 08:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			04/13/23 15:49	04/18/23 08:09	1

Eurofins Carlsbad

Matrix: Solid

2

3

5

7

10

12

13

Lab Sample ID: 890-4505-2

Client Sample Results

Client: Ensolum Job ID: 890-4505-1 Project/Site: PLU CVX JV PC 018H SDG: 03C1558206

Client Sample ID: FS02A

Date Collected: 04/12/23 10:35 Date Received: 04/12/23 15:12

Sample Depth: 2'

Method: SW846 8021B	Volatile Organic	Compounds (GC)	(Continued)
moundar official states	rolatile el gallie	- on pour ao	,	(Continuou,

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	107	70 - 130	04/13/23 15:49	04/18/23 08:09	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			04/18/23 12:12	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			04/17/23 09:43	1

Method: SW846 8015B	NM - Diesel Rand	ge Organics	(DRO)	(GC)
Michiga. Offord out ob	INN - Dieser Rang	ge Organics	(DIXO)	(00)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		04/14/23 12:00	04/15/23 18:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/14/23 12:00	04/15/23 18:37	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/14/23 12:00	04/15/23 18:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	61	S1-	70 - 130	04/14/23 12:00	04/15/23 18:37	1
o-Terphenyl	65	S1-	70 - 130	04/14/23 12:00	04/15/23 18:37	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	161		5.02	mg/Kg			04/17/23 17:10	1

Client Sample ID: SW06 Lab Sample ID: 890-4505-3

Date Collected: 04/12/23 10:40 Date Received: 04/12/23 15:12

Sample Depth: 0-2'

Markland, CIMO 40 00	21B - Volatile Organic	O
IVIATOON' SVVXAN XII	21B - Volatile Circanic	L.Omnollings (Lat.)

Michiga. Offoro ouz ID - folding								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		04/13/23 15:49	04/18/23 09:03	1
Toluene	<0.00199	U	0.00199	mg/Kg		04/13/23 15:49	04/18/23 09:03	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		04/13/23 15:49	04/18/23 09:03	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398	mg/Kg		04/13/23 15:49	04/18/23 09:03	1
o-Xylene	< 0.00199	U *+	0.00199	mg/Kg		04/13/23 15:49	04/18/23 09:03	1
Xylenes, Total	<0.00398	U *+	0.00398	mg/Kg		04/13/23 15:49	04/18/23 09:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130			04/13/23 15:49	04/18/23 09:03	1
1,4-Difluorobenzene (Surr)	101		70 - 130			04/13/23 15:49	04/18/23 09:03	1

Made at TAL COR Tatal DIEV	Total DTEV Coloniation

motion in 2 co. Total B. Ext. Total B. Ext. Calculation									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Total BTEX	<0.00398	U	0.00398	mg/Kg			04/18/23 12:12	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC	Method:	: SW846 8015 N	M - Diesel R	ange Ord	ianics (DRO)	(GC
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Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			04/17/23 09:43	1

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Matrix: Solid

Lab Sample ID: 890-4505-3

Job ID: 890-4505-1

Client: Ensolum Project/Site: PLU CVX JV PC 018H SDG: 03C1558206

Client Sample ID: SW06

Date Collected: 04/12/23 10:40 Date Received: 04/12/23 15:12

Sample Depth: 0-2'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		04/14/23 12:00	04/15/23 18:58	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		04/14/23 12:00	04/15/23 18:58	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/14/23 12:00	04/15/23 18:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	71		70 - 130			04/14/23 12:00	04/15/23 18:58	1
o-Terphenyl	75		70 - 130			04/14/23 12:00	04/15/23 18:58	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
	Pocult	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Nesuit	Qualifici						

Client Sample ID: PH09 Lab Sample ID: 890-4505-4 Date Collected: 04/12/23 12:30 Matrix: Solid

Date Received: 04/12/23 15:12

Sample Depth: 1'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		04/13/23 15:49	04/18/23 09:24	1
Toluene	<0.00199	U	0.00199	mg/Kg		04/13/23 15:49	04/18/23 09:24	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		04/13/23 15:49	04/18/23 09:24	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398	mg/Kg		04/13/23 15:49	04/18/23 09:24	1
o-Xylene	< 0.00199	U *+	0.00199	mg/Kg		04/13/23 15:49	04/18/23 09:24	1
Xylenes, Total	<0.00398	U *+	0.00398	mg/Kg		04/13/23 15:49	04/18/23 09:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			04/13/23 15:49	04/18/23 09:24	1
1,4-Difluorobenzene (Surr)	108		70 - 130			04/13/23 15:49	04/18/23 09:24	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			04/18/23 12:12	1
Method: SW846 8015 NM - Diese	Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			04/17/23 09:43	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (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		04/14/23 12:00	04/15/23 19:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/14/23 12:00	04/15/23 19:19	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/14/23 12:00	04/15/23 19:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	56	S1-	70 - 130			04/14/23 12:00	04/15/23 19:19	1
o-Terphenyl	56	S1-	70 - 130			04/14/23 12:00	04/15/23 19:19	1

Client Sample Results

 Client: Ensolum
 Job ID: 890-4505-1

 Project/Site: PLU CVX JV PC 018H
 SDG: 03C1558206

Client Sample ID: PH09 Lab Sample ID: 890-4505-4

Date Collected: 04/12/23 12:30
Date Received: 04/12/23 15:12

Sample Depth: 1'

Method: EPA 300.0 - Anions, Ion Cl	hromatography -	Soluble					
Analyte	Result Qua	lifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	151	5.00	mg/Kg			04/17/23 17:29	1

Client Sample ID: PH09A

Date Collected: 04/12/23 12:40

Lab Sample ID: 890-4505-5

Matrix: Solid

Date Collected: 04/12/23 12:40 Date Received: 04/12/23 15:12

Sample Depth: 3'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		04/13/23 15:49	04/18/23 09:45	1
Toluene	< 0.00199	U	0.00199	mg/Kg		04/13/23 15:49	04/18/23 09:45	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		04/13/23 15:49	04/18/23 09:45	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398	mg/Kg		04/13/23 15:49	04/18/23 09:45	1
o-Xylene	< 0.00199	U *+	0.00199	mg/Kg		04/13/23 15:49	04/18/23 09:45	1
Xylenes, Total	<0.00398	U *+	0.00398	mg/Kg		04/13/23 15:49	04/18/23 09:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130			04/13/23 15:49	04/18/23 09:45	1
1,4-Difluorobenzene (Surr)	108		70 - 130			04/13/23 15:49	04/18/23 09:45	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			04/18/23 12:12	1
Analyte	Booult	O1161	•					
	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	Qualifier U	RL 49.9	mg/Kg	D	Prepared	Analyzed 04/17/23 09:43	Dil Fac
Total TPH	<49.9	U	49.9		D	Prepared		
Total TPH Method: SW846 8015B NM - Dies	<49.9	U	49.9		D	Prepared Prepared		
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	<49.9	nics (DRO) Qualifier	49.9 (GC)	mg/Kg			04/17/23 09:43	1
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<49.9 sel Range Orga Result	nics (DRO) Qualifier	49.9 (GC)	mg/Kg		Prepared	04/17/23 09:43 Analyzed	Dil Fac
	<49.9 sel Range Orga Result <49.9	Unics (DRO) Qualifier U	(GC) RL 49.9	mg/Kg Unit mg/Kg		Prepared 04/14/23 12:00	04/17/23 09:43 Analyzed 04/15/23 19:41	Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.9 sel Range Orga Result <49.9 <49.9	Unics (DRO) Qualifier U	(GC) RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 04/14/23 12:00 04/14/23 12:00	04/17/23 09:43 Analyzed 04/15/23 19:41 04/15/23 19:41	Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<49.9 sel Range Orga Result <49.9 <49.9 <49.9	Unics (DRO) Qualifier U	49.9 (GC) RL 49.9 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 04/14/23 12:00 04/14/23 12:00 04/14/23 12:00	04/17/23 09:43 Analyzed 04/15/23 19:41 04/15/23 19:41	Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<49.9 sel Range Orga Result <49.9 <49.9 <49.9 **Recovery <65	U nics (DRO) Qualifier U U Qualifier	49.9 (GC) RL 49.9 49.9 49.9 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 04/14/23 12:00 04/14/23 12:00 04/14/23 12:00 Prepared	04/17/23 09:43 Analyzed 04/15/23 19:41 04/15/23 19:41 04/15/23 19:41 Analyzed	Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<49.9 sel Range Orga Result <49.9 <49.9 <49.9 %Recovery <65 67	U nics (DRO) Qualifier U U Qualifier S1- S1-	49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 04/14/23 12:00 04/14/23 12:00 04/14/23 12:00 Prepared 04/14/23 12:00	04/17/23 09:43 Analyzed 04/15/23 19:41 04/15/23 19:41 Analyzed 04/15/23 19:41	Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	\$\text{sel Range Orga Result} \\	U nics (DRO) Qualifier U U Qualifier S1- S1-	49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 04/14/23 12:00 04/14/23 12:00 04/14/23 12:00 Prepared 04/14/23 12:00	04/17/23 09:43 Analyzed 04/15/23 19:41 04/15/23 19:41 Analyzed 04/15/23 19:41	Dil Fac

Lab Sample ID: 890-4505-6

Client Sample Results

 Client: Ensolum
 Job ID: 890-4505-1

 Project/Site: PLU CVX JV PC 018H
 SDG: 03C1558206

Client Sample ID: PH09B

Date Collected: 04/12/23 12:45 Date Received: 04/12/23 15:12

Sample Depth: 4'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/13/23 15:49	04/18/23 10:06	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/13/23 15:49	04/18/23 10:06	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/13/23 15:49	04/18/23 10:06	1
m-Xylene & p-Xylene	<0.00399	U *+	0.00399	mg/Kg		04/13/23 15:49	04/18/23 10:06	1
o-Xylene	<0.00200	U *+	0.00200	mg/Kg		04/13/23 15:49	04/18/23 10:06	1
Xylenes, Total	<0.00399	U *+	0.00399	mg/Kg		04/13/23 15:49	04/18/23 10:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	70		70 - 130			04/13/23 15:49	04/18/23 10:06	1
1,4-Difluorobenzene (Surr)	91		70 - 130			04/13/23 15:49	04/18/23 10:06	1
Method: TAL SOP Total BTEX - 1	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte		ics (DRO) (Qualifier	GC) RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH			49.9	 	_ =	riepaieu	04/17/23 09:43	1
				99				
Method: SW846 8015B NM - Dies	sel Range Orga	nics (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		04/14/23 12:00	04/15/23 20:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/14/23 12:00	04/15/23 20:02	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/14/23 12:00	04/15/23 20:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	62	S1-	70 - 130			04/14/23 12:00	04/15/23 20:02	1
o-Terphenyl	64	S1-	70 - 130			04/14/23 12:00	04/15/23 20:02	1
-								
Method: EPA 300.0 - Anions, Ion	• •	•						
Method: EPA 300.0 - Anions, Ion Analyte	• •	hy - Solubl Qualifier	e RL 5.03		<u>D</u>	Prepared	Analyzed 04/17/23 17:38	Dil Fac

Surrogate Summary

Client: Ensolum Job ID: 890-4505-1 Project/Site: PLU CVX JV PC 018H

SDG: 03C1558206

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-27134-A-121-D MS	Matrix Spike	139 S1+	85	
880-27134-A-121-E MSD	Matrix Spike Duplicate	132 S1+	91	
890-4505-1	FS01A	97	105	
890-4505-2	FS02A	105	107	
890-4505-3	SW06	110	101	
890-4505-4	PH09	102	108	
890-4505-5	PH09A	103	108	
890-4505-6	PH09B	70	91	
LCS 880-51109/1-A	Lab Control Sample	132 S1+	92	
LCSD 880-51109/2-A	Lab Control Sample Dup	122	94	
MB 880-51072/5-A	Method Blank	102	86	
MB 880-51109/5-A	Method Blank	105	78	
Surrogate Legend				
BFB = 4-Bromofluorobenz	zene (Surr)			
DFBZ = 1,4-Difluorobenze	ene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
90-4505-1	FS01A	59 S1-	60 S1-	
90-4505-2	FS02A	61 S1-	65 S1-	
90-4505-3	SW06	71	75	
90-4505-4	PH09	56 S1-	56 S1-	
90-4505-5	PH09A	65 S1-	67 S1-	
90-4505-6	PH09B	62 S1-	64 S1-	
0-4507-A-9-C MS	Matrix Spike	77	71	
90-4507-A-9-D MSD	Matrix Spike Duplicate	78	73	
CS 880-51185/2-A	Lab Control Sample	78	80	
CSD 880-51185/3-A	Lab Control Sample Dup	77	79	
IB 880-51185/1-A	Method Blank	96	106	

Surrogate Legend

1CO = 1-Chlorooctane OTPH = o-Terphenyl

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Released to Imaging: 6/5/2023 9:07:14 AM

Client: Ensolum Job ID: 890-4505-1 Project/Site: PLU CVX JV PC 018H SDG: 03C1558206

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-51072/5-A

Matrix: Solid

Analysis Batch: 51295

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 51072

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/13/23 12:13	04/17/23 15:20	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/13/23 12:13	04/17/23 15:20	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/13/23 12:13	04/17/23 15:20	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/13/23 12:13	04/17/23 15:20	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/13/23 12:13	04/17/23 15:20	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/13/23 12:13	04/17/23 15:20	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed
4-Bromofluorobenzene (Surr)	102		70 - 130	04/13/23 12:13	04/17/23 15:20
1,4-Difluorobenzene (Surr)	86		70 - 130	04/13/23 12:13	04/17/23 15:20

Lab Sample ID: MB 880-51109/5-A Client Sample ID: Method Blank

Matrix: Solid Prep Type: Total/NA Analysis Batch: 51295 Prep Batch: 51109

	MB	B MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/13/23 15:49	04/18/23 02:57	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/13/23 15:49	04/18/23 02:57	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/13/23 15:49	04/18/23 02:57	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/13/23 15:49	04/18/23 02:57	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/13/23 15:49	04/18/23 02:57	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/13/23 15:49	04/18/23 02:57	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	04/13/23 15:49	04/18/23 02:57	1
1,4-Difluorobenzene (Surr)	78		70 - 130	04/13/23 15:49	04/18/23 02:57	1

Lab Sample ID: LCS 880-51109/1-A

Matrix: Solid

Analysis Batch: 51295

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 51109

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1024		mg/Kg		102	70 - 130	
Toluene	0.100	0.1221		mg/Kg		122	70 - 130	
Ethylbenzene	0.100	0.1256		mg/Kg		126	70 - 130	
m-Xylene & p-Xylene	0.200	0.2654	*+	mg/Kg		133	70 - 130	
o-Xylene	0.100	0.1526	*+	mg/Kg		153	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130
1.4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: LCSD 880-51109/2-A

Matrix: Solid

Analysis Batch: 51295

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

Prep Batch: 51109

Spike LCSD LCSD RPD %Rec Result Qualifier Analyte Added Unit %Rec Limits RPD Limit Benzene 0.100 0.1026 mg/Kg 103 70 - 130 0

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Dil Fac

QC Sample Results

 Client: Ensolum
 Job ID: 890-4505-1

 Project/Site: PLU CVX JV PC 018H
 SDG: 03C1558206

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

Lab Sample ID: LCSD 880-51109/2-A

Matrix: Solid Analysis Batch: 51295 Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 51109

Spike LCSD LCSD %Rec **RPD** Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit D Toluene 0.100 0.1149 115 70 - 130 35 mg/Kg 6 Ethylbenzene 0.100 0.1146 mg/Kg 115 70 - 130 9 35 0.200 0.2389 m-Xylene & p-Xylene mg/Kg 70 130 11 35 119 o-Xylene 0.100 0.1380 *+ mg/Kg 138 70 - 130 10 35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	122		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 880-27134-A-121-D MS

Matrix: Solid

Analysis Batch: 51295

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 51109

MS MS %Rec Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Benzene 0.0998 0.04703 F1 <0.00198 U F2 F1 mg/Kg 47 70 - 130 Toluene <0.00198 U F2 F1 0.0998 0.06910 F1 69 70 - 130 mg/Kg Ethylbenzene 0.0998 0.08123 70 - 130 <0.00198 mg/Kg 81 m-Xylene & p-Xylene <0.00396 U*+ 0.200 0.1685 84 70 - 130 mg/Kg o-Xylene <0.00198 U*+F1 0.0998 0.1010 mg/Kg 101 70 - 130

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	139	S1+	70 - 130
1,4-Difluorobenzene (Surr)	85		70 - 130

Lab Sample ID: 880-27134-A-121-E MSD

Matrix: Solid

Analysis Batch: 51295

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 51109

Spike MSD MSD RPD Sample Sample %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Benzene <0.00198 U F2 F1 0.100 0.09040 F2 mg/Kg 90 70 - 130 63 35 Toluene <0.00198 U F2 F1 0.100 0.1102 F2 mg/Kg 110 70 - 130 46 35 Ethylbenzene <0.00198 U 0.100 0.1104 mg/Kg 110 70 - 130 30 35 0.201 <0.00396 U*+ 0.2291 70 - 130 30 m-Xylene & p-Xylene mg/Kg 114 35 0.100 o-Xylene <0.00198 U*+ F1 0.1332 F1 mg/Kg 133 70 - 130 28 35

MSD MSD

Surrogate	%Recovery	Quaimer	Limits
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

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

Lab Sample ID: MB 880-51185/1-A

Matrix: Solid

Analysis Batch: 51243

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

Prep Batch: 51185

 Analyte
 Result
 Qualifier
 RL
 Unit
 D
 Prepared
 Analyzed
 Dil Factoria

 Gasoline Range Organics
 <50.0</td>
 U
 50.0
 mg/Kg
 04/14/23 12:00
 04/15/23 09:44
 11

(GRO)-C6-C10

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Client: Ensolum Job ID: 890-4505-1 Project/Site: PLU CVX JV PC 018H SDG: 03C1558206

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

Lab Sample ID: MB 880-51185/1-A **Matrix: Solid**

Lab Sample ID: LCS 880-51185/2-A

Matrix: Solid

Analysis Batch: 51243

Analysis Batch: 51243

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 51185

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		04/14/23 12:00	04/15/23 09:44	1
C10-C28) Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/14/23 12:00	04/15/23 09:44	1

MB MB

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	04/14/23 12:00	04/15/23 09:44	1
o-Terphenyl	106		70 - 130	04/14/23 12:00	04/15/23 09:44	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 51185

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 966.5 97 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1008 mg/Kg 101 70 - 130 C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	78		70 - 130
o-Terphenyl	80		70 - 130

Lab Sample ID: LCSD 880-51185/3-A

Matrix: Solid Analysis Batch: 51243 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Prep Batch: 51185

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	1000	880.8		mg/Kg		88	70 - 130	9	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	936.6		mg/Kg		94	70 - 130	7	20	
C10-C28)										

LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 77 70 - 130 o-Terphenyl 79 70 - 130

Lab Sample ID: 890-4507-A-9-C MS

Matrix: Solid

Analysis Batch: 51243

Client Sample ID: Matrix Spike

Prep Type: Total/NA Prep Batch: 51185

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<50.0	U	997	1061		mg/Kg		105	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<50.0	U	997	903.2		mg/Kg		86	70 - 130	
C10 C28)										

C10-C28)

	IVIS	IVIS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	77		70 - 130
o-Terphenyl	71		70 - 130

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Job ID: 890-4505-1 Client: Ensolum Project/Site: PLU CVX JV PC 018H SDG: 03C1558206

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

Lab Sample ID: 890-4507-A-9-D MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Analysis Batch: 51243 Prep Type: Total/NA Prep Batch: 51185

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1000	1069		mg/Kg		105	70 - 130	1	20
Diesel Range Organics (Over	<50.0	U	1000	936.2		mg/Kg		89	70 - 130	4	20

C10-C28)

Surrogate 1-Chlorooctane

o-Terphenyl

MSD MSD %Recovery Qualifier Limits 70 - 130 78 73 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-51314/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 51407

мв мв Result Qualifier RL Unit Analyte Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 mg/Kg 04/17/23 16:29

Lab Sample ID: LCS 880-51314/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 51407

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Chloride 250 234.3 90 - 110 mg/Kg

Lab Sample ID: LCSD 880-51314/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 51407

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	2/15		ma/Ka		07	90 110		20	

Lab Sample ID: 880-27147-A-1-C MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 51407

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	142	F1	252	354.7	F1	ma/Ka		85	90 110	

Lab Sample ID: 880-27147-A-1-D MSD

Matrix: Solid

Analysis Batch: 51407

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	142	F1	252	363.2	F1	mg/Kg		88	90 - 110	2	20

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Prep Type: Soluble

Client Sample ID: Matrix Spike Duplicate

Client: Ensolum

Job ID: 890-4505-1 Project/Site: PLU CVX JV PC 018H SDG: 03C1558206

GC VOA

Prep Batch: 51072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-51072/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 51109

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4505-1	FS01A	Total/NA	Solid	5035	
890-4505-2	FS02A	Total/NA	Solid	5035	
890-4505-3	SW06	Total/NA	Solid	5035	
890-4505-4	PH09	Total/NA	Solid	5035	
890-4505-5	PH09A	Total/NA	Solid	5035	
890-4505-6	PH09B	Total/NA	Solid	5035	
MB 880-51109/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-51109/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-51109/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-27134-A-121-D MS	Matrix Spike	Total/NA	Solid	5035	
880-27134-A-121-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 51295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4505-1	FS01A	Total/NA	Solid	8021B	51109
890-4505-2	FS02A	Total/NA	Solid	8021B	51109
890-4505-3	SW06	Total/NA	Solid	8021B	51109
890-4505-4	PH09	Total/NA	Solid	8021B	51109
890-4505-5	PH09A	Total/NA	Solid	8021B	51109
890-4505-6	РН09В	Total/NA	Solid	8021B	51109
MB 880-51072/5-A	Method Blank	Total/NA	Solid	8021B	51072
MB 880-51109/5-A	Method Blank	Total/NA	Solid	8021B	51109
LCS 880-51109/1-A	Lab Control Sample	Total/NA	Solid	8021B	51109
LCSD 880-51109/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	51109
880-27134-A-121-D MS	Matrix Spike	Total/NA	Solid	8021B	51109
880-27134-A-121-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	51109

Analysis Batch: 51398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4505-1	FS01A	Total/NA	Solid	Total BTEX	
890-4505-2	FS02A	Total/NA	Solid	Total BTEX	
890-4505-3	SW06	Total/NA	Solid	Total BTEX	
890-4505-4	PH09	Total/NA	Solid	Total BTEX	
890-4505-5	PH09A	Total/NA	Solid	Total BTEX	
890-4505-6	РН09В	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 51185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4505-1	FS01A	Total/NA	Solid	8015NM Prep	
890-4505-2	FS02A	Total/NA	Solid	8015NM Prep	
890-4505-3	SW06	Total/NA	Solid	8015NM Prep	
890-4505-4	PH09	Total/NA	Solid	8015NM Prep	
890-4505-5	PH09A	Total/NA	Solid	8015NM Prep	
890-4505-6	PH09B	Total/NA	Solid	8015NM Prep	
MB 880-51185/1-A	Method Blank	Total/NA	Solid	8015NM Prep	

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 Client: Ensolum
 Job ID: 890-4505-1

 Project/Site: PLU CVX JV PC 018H
 SDG: 03C1558206

GC Semi VOA (Continued)

Prep Batch: 51185 (Continued)

Lab Sample ID LCS 880-51185/2-A	Client Sample ID Lab Control Sample	Prep Type Total/NA	Solid	Method 8015NM Prep	Prep Batch
LCSD 880-51185/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4507-A-9-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4507-A-9-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 51243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4505-1	FS01A	Total/NA	Solid	8015B NM	51185
890-4505-2	FS02A	Total/NA	Solid	8015B NM	51185
890-4505-3	SW06	Total/NA	Solid	8015B NM	51185
890-4505-4	PH09	Total/NA	Solid	8015B NM	51185
890-4505-5	PH09A	Total/NA	Solid	8015B NM	51185
890-4505-6	PH09B	Total/NA	Solid	8015B NM	51185
MB 880-51185/1-A	Method Blank	Total/NA	Solid	8015B NM	51185
LCS 880-51185/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	51185
LCSD 880-51185/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	51185
890-4507-A-9-C MS	Matrix Spike	Total/NA	Solid	8015B NM	51185
890-4507-A-9-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	51185

Analysis Batch: 51304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-4505-1	FS01A	Total/NA	Solid	8015 NM	
890-4505-2	FS02A	Total/NA	Solid	8015 NM	
890-4505-3	SW06	Total/NA	Solid	8015 NM	
890-4505-4	PH09	Total/NA	Solid	8015 NM	
890-4505-5	PH09A	Total/NA	Solid	8015 NM	
890-4505-6	PH09B	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 51314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4505-1	FS01A	Soluble	Solid	DI Leach	_
890-4505-2	FS02A	Soluble	Solid	DI Leach	
890-4505-3	SW06	Soluble	Solid	DI Leach	
890-4505-4	PH09	Soluble	Solid	DI Leach	
890-4505-5	PH09A	Soluble	Solid	DI Leach	
890-4505-6	PH09B	Soluble	Solid	DI Leach	
MB 880-51314/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-51314/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-51314/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-27147-A-1-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-27147-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 51407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4505-1	FS01A	Soluble	Solid	300.0	51314
890-4505-2	FS02A	Soluble	Solid	300.0	51314
890-4505-3	SW06	Soluble	Solid	300.0	51314
890-4505-4	PH09	Soluble	Solid	300.0	51314
890-4505-5	PH09A	Soluble	Solid	300.0	51314

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 Client: Ensolum
 Job ID: 890-4505-1

 Project/Site: PLU CVX JV PC 018H
 SDG: 03C1558206

HPLC/IC (Continued)

Analysis Batch: 51407 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4505-6	PH09B	Soluble	Solid	300.0	51314
MB 880-51314/1-A	Method Blank	Soluble	Solid	300.0	51314
LCS 880-51314/2-A	Lab Control Sample	Soluble	Solid	300.0	51314
LCSD 880-51314/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	51314
880-27147-A-1-C MS	Matrix Spike	Soluble	Solid	300.0	51314
880-27147-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	51314

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Client Sample ID: FS01A

Client: Ensolum

Date Collected: 04/12/23 10:00 Date Received: 04/12/23 15:12

Project/Site: PLU CVX JV PC 018H

Lab Sample ID: 890-4505-1

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	51109	04/13/23 15:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51295	04/18/23 07:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51398	04/18/23 12:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			51304	04/17/23 09:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	51185	04/14/23 12:00	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51243	04/15/23 18:15	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	51314	04/17/23 12:16	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51407	04/17/23 17:06	SMC	EET MID

Lab Sample ID: 890-4505-2

Matrix: Solid

Matrix: Solid

Date Collected: 04/12/23 10:35 Date Received: 04/12/23 15:12

Client Sample ID: FS02A

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	51109	04/13/23 15:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51295	04/18/23 08:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51398	04/18/23 12:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			51304	04/17/23 09:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	51185	04/14/23 12:00	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51243	04/15/23 18:37	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	51314	04/17/23 12:16	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51407	04/17/23 17:10	SMC	EET MID

Client Sample ID: SW06 Lab Sample ID: 890-4505-3

Date Collected: 04/12/23 10:40 Date Received: 04/12/23 15:12

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	51109	04/13/23 15:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51295	04/18/23 09:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51398	04/18/23 12:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			51304	04/17/23 09:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	51185	04/14/23 12:00	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51243	04/15/23 18:58	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	51314	04/17/23 12:16	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51407	04/17/23 17:24	SMC	EET MID

Client Sample ID: PH09 Lab Sample ID: 890-4505-4

Date Collected: 04/12/23 12:30 Date Received: 04/12/23 15:12

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	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	51109	04/13/23 15:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51295	04/18/23 09:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51398	04/18/23 12:12	SM	EET MID

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Matrix: Solid

Client: Ensolum

Job ID: 890-4505-1 SDG: 03C1558206

Project/Site: PLU CVX JV PC 018H **Client Sample ID: PH09**

Lab Sample ID: 890-4505-4

Matrix: Solid

Date Collected: 04/12/23 12:30 Date Received: 04/12/23 15:12

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			51304	04/17/23 09:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	51185	04/14/23 12:00	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51243	04/15/23 19:19	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	51314	04/17/23 12:16	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51407	04/17/23 17:29	SMC	EET MID

Client Sample ID: PH09A Lab Sample ID: 890-4505-5

Date Collected: 04/12/23 12:40 **Matrix: Solid** Date Received: 04/12/23 15:12

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	51109	04/13/23 15:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51295	04/18/23 09:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51398	04/18/23 12:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			51304	04/17/23 09:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	51185	04/14/23 12:00	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51243	04/15/23 19:41	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	51314	04/17/23 12:16	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51407	04/17/23 17:33	SMC	EET MID

Client Sample ID: PH09B Lab Sample ID: 890-4505-6

Date Collected: 04/12/23 12:45 **Matrix: Solid** Date Received: 04/12/23 15:12

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	51109	04/13/23 15:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51295	04/18/23 10:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51398	04/18/23 12:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			51304	04/17/23 09:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	51185	04/14/23 12:00	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51243	04/15/23 20:02	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	51314	04/17/23 12:16	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51407	04/17/23 17:38	SMC	EET MID

Laboratory References:

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

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Accreditation/Certification Summary

Client: Ensolum Job ID: 890-4505-1 Project/Site: PLU CVX JV PC 018H

SDG: 03C1558206

Laboratory: Eurofins Midland

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

Authority	Pr	ogram	Identification Number	Expiration Date
Texas		ELAP	T104704400-22-25	06-30-23
The following analytes the agency does not of	• •	it the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes fo
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	

Method Summary

Client: Ensolum Job ID: 890-4505-1 Project/Site: PLU CVX JV PC 018H

SDG: 03C1558206

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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:

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

Eurofins Carlsbad

Sample Summary

Client: Ensolum

Project/Site: PLU CVX JV PC 018H

Job ID: 890-4505-1

SDG: 03C1558206

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4505-1	FS01A	Solid	04/12/23 10:00	04/12/23 15:12	4'
890-4505-2	FS02A	Solid	04/12/23 10:35	04/12/23 15:12	2'
890-4505-3	SW06	Solid	04/12/23 10:40	04/12/23 15:12	0-2'
890-4505-4	PH09	Solid	04/12/23 12:30	04/12/23 15:12	1'
890-4505-5	PH09A	Solid	04/12/23 12:40	04/12/23 15:12	3'
890-4505-6	PH09B	Solid	04/12/23 12:45	04/12/23 15:12	4'

eurofins

City, State ZIP:

Carlsbad, NM 88220

City, State ZIP:

Carlsbad, NM 88220 3104 E. Green St. XTO Energy Garret Green

Reporting: Level II | Level III | PST/UST | TRRP |

Level IV

ADaPT 🗆

Program: UST/PST 🗌 PRP 🗌 Brownfields 🗎 RRC 🗎 Superfund 🗎

Work Order Comments

www.xenco.com

State of Project:

3122 National Parks Hwy

Project Manager: ompany Name:

Tacoma Morrissey

Bill to: (if different) Company Name:

Ensolum

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Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Revised Date: 08/25/2020 Rev. 2020.2			_									
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iture) Date/Time	Received by: (Signature)	Relinquished by: (Signature)	В	Date/Time			nature)	Received by: (Signature)	Receive		Signature)	Relinquished by (S
rd.	ntractors. It assigns standard terms and conditions losses are due to circumstances beyond the control set terms will be enforced unless previously negotiate	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	expenses in Eurofins Xe	npany to Eulosses or eubmitted to	client cor y for any sample si	order from responsibility \$5 for each:	assume any acharge of	nstitutes a va nd shall not n project and	of samples con it of samples a applied to each	uishment for the cos 00 will be	ment and reling I be liable only I charge of \$06	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcor of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such of Eurofips Xenco. A minimum obarge of \$95.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. The
Hg: 1631/245.1//4/0//4//		Cd Cr Co Cu Pb Mn Mo Ni Se Ag II U	a Be Co	Sb As Ba	RA S	010: 8RC	TCLP / SPLP 6010: 8RCRA	TCLP	zed	e analy:	Metal(s) to b	Circle Method(s) and Metal(s) to be analyzed
Sr TI Sn U	K Se A	r Co Cu Fe Pb	Be E	As		Texas 11	13PPM 1	8RCRA		020:	200.8 / 6020:	Total 200.7 / 6010
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tmorrissey@ensolum.com							Color of the					
API 30-015-41281			×	×		Grab/	4.	12:45	4/12/2023	S		РН09В
AFE:			×	×	_	Grab/	ω	12:40	4/12/2023	S		РН09А
1140491001			×	×		Grab/		12:30	4/12/2023	S		РН09
Cost Center:			×	×	_	Comp	0-2'	10:40	4/12/2023	S		SW06
NAB1705937661			×	×		Comp	2	10:35	4/12/2023	S		FS02A
Incident ID:			×	×	_	Comp	4	10:00	4/12/2023	S		FS01A
Sample Comments			BTEX (TPH (8	# of Cont	Grab/ Comp	Depth	Time Sampled	Date Sampled	Matrix	ation	Sample Identification
NaOH+Ascorbic Acid: SAPC		890-4505 Chain of Custody	802			5.8	.e:	emperatu	Corrected Temperature			Total Containers:
Zn Acetate+NaOH: Zn			l	S (E		0.0		e Reading	Temperature Reading:	N.	Yes No	Sample Custody Seals:
Na ₂ S ₂ O ₃ : NaSO ₃				PA:		0.0	1	Factor:	Correction Factor	AIN	Yes No	Cooler Custody Seals:
NaHSO ₄ : NABIS			_	300		202	777	ter ID:	Thermometer ID:	No	: Kes	Samples Received Intact:
H ₃ PO ₄ : HP				.0)	nete	No No	e Tes	Wet Ice:	Yes No	Blank:	Temp Blank:	SAMPLE RECEIPT
H ₂ S0 ₄ : H ₂ NaOH: Na					rs	4:30pm	the lab, if received by 4:30pm	the lab, it				PO#:
						ceived by	TAT starts the day received by	TAT start		Kase Parker	Kas	Sampler's Name:
<u>u</u>							œ.	Due Date:	-103.914969	-10	32.212927	Project Location:
None: NO DI Water: H ₂ O					Code	sh	ie 🗌 Rush	☑ Routine		8206	03C1558206	Project Number:
Preservative Codes		ANALYSIS REQUEST				đ	Turn Around	Т	018H	JV PC	PLU CVX JV PC 018H	Project Name:
ADaPT L Other:	Deliverables: EDD	Delive	B	Mobil.co	Exxon	t.Green@	Email: Garret.Green@ExxonMobil.com	Em			303-887-2946	Phone: 30

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4505-1 SDG Number: 03C1558206

Login Number: 4505 List Source: Eurofins Carlsbad

List Number: 1

Creator: Stutzman, Amanda

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.	N/A	Refer to Job Narrative for details.
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: Ensolum Job Number: 890-4505-1 SDG Number: 03C1558206

List Source: Eurofins Midland

Login Number: 4505 List Number: 2 List Creation: 04/14/23 10:11 AM

Creator: Rodriguez, Leticia

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	N/A	

<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Tacoma Morrissey Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701

Generated 5/23/2023 1:25:37 PM

JOB DESCRIPTION

PLU CVX JV PC 018H SDG NUMBER 32.212927,-103.14969

JOB NUMBER

890-4691-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated 5/23/2023 1:25:37 PM

Authorized for release by Jessica Kramer, Project Manager <u>Jessica.Kramer@et.eurofinsus.com</u> (432)704-5440

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 Client: Ensolum
 Laboratory Job ID: 890-4691-1

 Project/Site: PLU CVX JV PC 018H
 SDG: 32.212927,-103.14969

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Definitions/Glossary

Job ID: 890-4691-1 Client: Ensolum Project/Site: PLU CVX JV PC 018H

SDG: 32.212927,-103.14969

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

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

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

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

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

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

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

Detection Limit (DoD/DOE) DL

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

DLC Decision Level Concentration (Radiochemistry)

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

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

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

NC Not Calculated

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

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

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Eurofins Carlsbad

Case Narrative

Client: Ensolum

Project/Site: PLU CVX JV PC 018H

Job ID: 890-4691-1 SDG: 32.212927,-103.14969

Job ID: 890-4691-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4691-1

Receipt

The sample was received on 5/18/2023 3:20 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 7.2°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: BH03 (890-4691-1).

GC VOA

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

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-53847 and analytical batch 880-53828 was outside the upper control limits.

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

HPLC/IC

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

Client Sample Results

 Client: Ensolum
 Job ID: 890-4691-1

 Project/Site: PLU CVX JV PC 018H
 SDG: 32.212927,-103.14969

Client Sample ID: BH03

Lab Sample ID: 890-4691-1

Matrix: Solid

Date Received: 05/18/23 15:20 Sample Depth: 0.5'

Chloride

Date Collected: 05/18/23 12:45

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200	mg/Kg		05/22/23 08:42	05/22/23 11:48	-
Toluene	<0.00200	U	0.00200	mg/Kg		05/22/23 08:42	05/22/23 11:48	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/22/23 08:42	05/22/23 11:48	
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		05/22/23 08:42	05/22/23 11:48	
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/22/23 08:42	05/22/23 11:48	
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		05/22/23 08:42	05/22/23 11:48	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	96		70 - 130			05/22/23 08:42	05/22/23 11:48	
1,4-Difluorobenzene (Surr)	97		70 - 130			05/22/23 08:42	05/22/23 11:48	
Method: TAL SOP Total BTEX - 1	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00401	U	0.00401	mg/Kg			05/22/23 16:30	
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<49.8	U	49.8	mg/Kg			05/23/23 10:13	
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		05/22/23 09:25	05/22/23 13:19	
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		05/22/23 09:25	05/22/23 13:19	
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/22/23 09:25	05/22/23 13:19	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	100		70 - 130			05/22/23 09:25	05/22/23 13:19	
o-Terphenyl	121		70 - 130			05/22/23 09:25	05/22/23 13:19	
Method: EPA 300.0 - Anions, Ion	Chromatogran	hv - Solubl	e					
metriou. El A 000.0 - Arrioris, fori	om omatograp	,	•					
Analyte	• •	Qualifier	RL_	Unit	D	Prepared	Analyzed	Dil Fac

5.03

mg/Kg

59.9

05/23/23 11:19

Surrogate Summary

Job ID: 890-4691-1 Client: Ensolum Project/Site: PLU CVX JV PC 018H SDG: 32.212927,-103.14969

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-4691-1	BH03	96	97	
890-4691-1 MS	BH03	111	111	
890-4691-1 MSD	BH03	109	111	
LCS 880-53833/1-A	Lab Control Sample	101	106	
LCSD 880-53833/2-A	Lab Control Sample Dup	104	110	
MB 880-53833/5-A	Method Blank	71	84	
Surrogate Legend				
BFB = 4-Bromofluorobe	nzene (Surr)			
DFBZ = 1,4-Difluoroben	,			

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

Matrix: Solid Prep Type: Total/NA

_			
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-4682-A-1-D MS	Matrix Spike	121	127
890-4682-A-1-E MSD	Matrix Spike Duplicate	105	115
890-4691-1	BH03	100	121
LCS 880-53847/2-A	Lab Control Sample	96	106
LCSD 880-53847/3-A	Lab Control Sample Dup	111	124
MB 880-53847/1-A	Method Blank	179 S1+	218 S1+
Surrogate Legend			

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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Client: Ensolum Project/Site: PLU CVX JV PC 018H

Job ID: 890-4691-1

SDG: 32.212927,-103.14969

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-53833/5-A

Lab Sample ID: LCS 880-53833/1-A

Matrix: Solid

Matrix: Solid Analysis Batch: 53831 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 53833

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/22/23 08:42	05/22/23 11:27	
Toluene	<0.00200	U	0.00200	mg/Kg		05/22/23 08:42	05/22/23 11:27	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/22/23 08:42	05/22/23 11:27	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/22/23 08:42	05/22/23 11:27	
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/22/23 08:42	05/22/23 11:27	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/22/23 08:42	05/22/23 11:27	

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	71	70 - 130	05/22/23 08:4	2 05/22/23 11:27	1
1,4-Difluorobenzene (Surr)	84	70 - 130	05/22/23 08:4	2 05/22/23 11:27	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 53833

Analysis Batch: 53831 LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1289 mg/Kg 129 70 - 130 Toluene 0.100 0.1171 mg/Kg 117 70 - 130 0.100 Ethylbenzene 0.1147 mg/Kg 115 70 - 130 0.200 0.2438 122 70 - 130 m-Xylene & p-Xylene mg/Kg 0.100 0.1202 120 70 - 130 o-Xylene mg/Kg

LCS LCS

Surrogate	%Recovery Quali	fier Limits
4-Bromofluorobenzene (Surr)	101	70 - 130
1,4-Difluorobenzene (Surr)	106	70 - 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Lab Sample ID: LCSD 880-53833/2-A

Analysis Batch: 53831

Prep Type: Total/NA Prep Batch: 53833

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1280		mg/Kg		128	70 - 130	1	35
Toluene	0.100	0.1090		mg/Kg		109	70 - 130	7	35
Ethylbenzene	0.100	0.1082		mg/Kg		108	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.2299		mg/Kg		115	70 - 130	6	35
o-Xylene	0.100	0.1156		mg/Kg		116	70 - 130	4	35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	104	70 - 130
1,4-Difluorobenzene (Surr)	110	70 - 130

Lab Sample ID: 890-4691-1 MS

Matrix: Solid

Analysis Batch: 53831

Client Sample ID: BH03 Prep Type: Total/NA

Prep Batch: 53833

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.0998	0.1244		mg/Kg		125	70 - 130	
Toluene	<0.00200	U	0.0998	0.1010		mg/Kg		101	70 - 130	

Eurofins Carlsbad

QC Sample Results

Job ID: 890-4691-1 Client: Ensolum Project/Site: PLU CVX JV PC 018H SDG: 32.212927,-103.14969

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

Lab Sample ID: 890-4691-1 MS

Surrogate

Client Sample ID: BH03 Matrix: Solid Prep Type: Total/NA Analysis Batch: 53831 Prep Batch: 53833

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00200	U	0.0998	0.1047		mg/Kg		105	70 - 130	
m-Xylene & p-Xylene	<0.00401	U	0.200	0.2188		mg/Kg		110	70 - 130	
o-Xylene	<0.00200	U	0.0998	0.1085		mg/Kg		109	70 - 130	
	MC	МС								

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

Lab Sample ID: 890-4691-1 MSD

Client Sample ID: BH03 Matrix: Solid Prep Type: Total/NA Analysis Batch: 53831 Prep Batch: 53833 Sample Sample Snike MSD MSD %Rac it 35

	Sample	Sample	Spike	IVIOD	MISD				/orec		KFD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.0990	0.1235		mg/Kg		125	70 - 130	1	35
Toluene	<0.00200	U	0.0990	0.1005		mg/Kg		102	70 - 130	1	35
Ethylbenzene	<0.00200	U	0.0990	0.1023		mg/Kg		103	70 - 130	2	35
m-Xylene & p-Xylene	<0.00401	U	0.198	0.2171		mg/Kg		110	70 - 130	1	35
o-Xylene	<0.00200	U	0.0990	0.1081		mg/Kg		109	70 - 130	0	35
	4400	4400									

MSD MSD Qualifier Limits Surrogate %Recovery 70 - 130 4-Bromofluorobenzene (Surr) 109 1,4-Difluorobenzene (Surr) 111 70 - 130

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

Lab Sample ID: MB 880-53847/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 53828

Prep Batch: 53847 мв мв Result Qualifier RL Unit D Prepared Analyzed Dil Fac Analyte 05/22/23 08:00 <50.0 U 50.0 05/22/23 08:26 Gasoline Range Organics mg/Kg (GRO)-C6-C10 05/22/23 08:00 05/22/23 08:26 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg C10-C28) Oll Range Organics (Over C28-C36) <50.0 U 50.0 05/22/23 08:00 05/22/23 08:26 mg/Kg

MB MB %Recovery Qualifier

Limits Prepared Dil Fac Surrogate Analyzed 1-Chlorooctane 179 S1+ 70 - 130 05/22/23 08:00 05/22/23 08:26 218 S1+ 70 - 130 05/22/23 08:00 05/22/23 08:26 o-Terphenyl

Lab Sample ID: LCS 880-53847/2-A

Matrix: Solid

Prep Type: Total/NA **Analysis Batch: 53828** Prep Batch: 53847 Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits 1000 90 70 - 130 899 0 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 884.1 mg/Kg 88 70 - 130

C10-C28)

Eurofins Carlsbad

Client Sample ID: Lab Control Sample

Project/Site: PLU CVX JV PC 018H

Job ID: 890-4691-1

SDG: 32.212927,-103.14969

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

LCS LCS

Sample Sample

127

%Recovery Qualifier

Lab Sample ID: LCS 880-53847/2-A

Lab Sample ID: LCSD 880-53847/3-A

Matrix: Solid

Surrogate

Client: Ensolum

Analysis Batch: 53828

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 53847

1-Chlorooctane 96

o-Terphenyl 106 70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Matrix: Solid Analysis Batch: 53828 Prep Batch: 53847 Spike LCSD LCSD %Rec RPD

Limits

70 - 130

Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 1000 999.0 100 70 - 13011 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1018 102 mg/Kg 70 - 13020 14 C10-C28)

LCSD LCSD

Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 111 124 70 - 130 o-Terphenyl

Lab Sample ID: 890-4682-A-1-D MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 53828

Prep Type: Total/NA Prep Batch: 53847

Unit

%Rec

Limits

MS MS

Result Qualifier

Added Analyte Result Qualifier D Gasoline Range Organics <50.0 U 998 1131 mg/Kg 108 70 - 130 (GRO)-C6-C10

70 - 130

Spike

Diesel Range Organics (Over 104 998 1181 mg/Kg 108 70 - 130

C10-C28)

o-Terphenyl

MS MS %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 121

Lab Sample ID: 890-4682-A-1-E MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 53828 Prep Batch: 53847 Sample Sample MSD MSD RPD Spike %Rec

Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit <50.0 U 999 940.5 Gasoline Range Organics mg/Kg 89 70 - 130 18 20 (GRO)-C6-C10 Diesel Range Organics (Over 104 999 1032 mg/Kg 93 70 - 130 13 20

C10-C28)

MSD MSD Qualifier Surrogate %Recovery Limits 1-Chlorooctane 105 70 - 130 115 70 - 130 o-Terphenyl

Eurofins Carlsbad

Prep Type: Total/NA

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

QC Sample Results

 Client: Ensolum
 Job ID: 890-4691-1

 Project/Site: PLU CVX JV PC 018H
 SDG: 32.212927,-103.14969

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-53876/1-A

Matrix: Solid

Analysis Batch: 53953

MB MB

 Analyte
 Result Chloride
 Qualifier
 RL Vinit
 Unit Mg/Kg
 Prepared Displayed
 Analyzed Displayed
 Displayed Displayed

Lab Sample ID: LCS 880-53876/2-A

Matrix: Solid

Analysis Batch: 53953

Spike LCS LCS %Rec Added %Rec Analyte Result Qualifier Unit D Limits Chloride 250 247.8 mg/Kg 99 90 - 110

Lab Sample ID: LCSD 880-53876/3-A

Matrix: Solid

Analysis Batch: 53953

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 249.6 mg/Kg 100 90 - 110

Lab Sample ID: 880-28649-A-1-E MS

Matrix: Solid

Analysis Batch: 53953

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier %Rec Unit Limits Chloride 167 250 401.8 90 - 110 mg/Kg

Lab Sample ID: 880-28649-A-1-F MSD

Matrix: Solid

Analysis Batch: 53953

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 167 403.8 mg/Kg 95 90 - 110 0 20

Eurofins Carlsbad

 Client: Ensolum
 Job ID: 890-4691-1

 Project/Site: PLU CVX JV PC 018H
 SDG: 32.212927,-103.14969

GC VOA

Analysis Batch: 53831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4691-1	BH03	Total/NA	Solid	8021B	53833
MB 880-53833/5-A	Method Blank	Total/NA	Solid	8021B	53833
LCS 880-53833/1-A	Lab Control Sample	Total/NA	Solid	8021B	53833
LCSD 880-53833/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	53833
890-4691-1 MS	BH03	Total/NA	Solid	8021B	53833
890-4691-1 MSD	BH03	Total/NA	Solid	8021B	53833

Prep Batch: 53833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-4691-1	BH03	Total/NA	Solid	5035	
MB 880-53833/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-53833/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-53833/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4691-1 MS	BH03	Total/NA	Solid	5035	
890-4691-1 MSD	BH03	Total/NA	Solid	5035	

Analysis Batch: 53919

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4691-1	BH03	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 53828

_					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4691-1	BH03	Total/NA	Solid	8015B NM	53847
MB 880-53847/1-A	Method Blank	Total/NA	Solid	8015B NM	53847
LCS 880-53847/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	53847
LCSD 880-53847/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	53847
890-4682-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	53847
890-4682-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	53847

Prep Batch: 53847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4691-1	BH03	Total/NA	Solid	8015NM Prep	
MB 880-53847/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-53847/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-53847/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4682-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4682-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 53973

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4691-1	BH03	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 53876

Г					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4691-1	BH03	Soluble	Solid	DI Leach	
MB 880-53876/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-53876/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-53876/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Eurofins Carlsbad

Page 12 of 20

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 Client: Ensolum
 Job ID: 890-4691-1

 Project/Site: PLU CVX JV PC 018H
 SDG: 32.212927,-103.14969

HPLC/IC (Continued)

Leach Batch: 53876 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28649-A-1-E MS	Matrix Spike	Soluble	Solid	DI Leach	
880-28649-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 53953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4691-1	BH03	Soluble	Solid	300.0	53876
MB 880-53876/1-A	Method Blank	Soluble	Solid	300.0	53876
LCS 880-53876/2-A	Lab Control Sample	Soluble	Solid	300.0	53876
LCSD 880-53876/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	53876
880-28649-A-1-E MS	Matrix Spike	Soluble	Solid	300.0	53876
880-28649-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	53876

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Lab Chronicle

 Client: Ensolum
 Job ID: 890-4691-1

 Project/Site: PLU CVX JV PC 018H
 SDG: 32.212927,-103.14969

Client Sample ID: BH03 Lab Sample ID: 890-4691-1

Date Collected: 05/18/23 12:45
Date Received: 05/18/23 15:20
Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	53833	05/22/23 08:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53831	05/22/23 11:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53919	05/22/23 16:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			53973	05/23/23 10:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	53847	05/22/23 09:25	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53828	05/22/23 13:19	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	53876	05/22/23 12:13	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	53953	05/23/23 11:19	CH	EET MID

Laboratory References:

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

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Accreditation/Certification Summary

 Client: Ensolum
 Job ID: 890-4691-1

 Project/Site: PLU CVX JV PC 018H
 SDG: 32.212927,-103.14969

Laboratory: Eurofins Midland

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

Authority Texas		ogram	Identification Number	Expiration Date
		ELAP	T104704400-22-25	06-30-23
The following analytes the agency does not of	' '	t the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes fo
Analysis Method	Prep Method	Matrix	Analyte	
Analysis Method 8015 NM	Prep Method	Matrix Solid	Analyte Total TPH	

Method Summary

Client: Ensolum

Method

Total BTEX 8015 NM

8015B NM

8015NM Prep

DI Leach

300.0

5035

8021B

Project/Site: PLU CVX JV PC 018H

Method Description

Total BTEX Calculation

Volatile Organic Compounds (GC)

Diesel Range Organics (DRO) (GC)

Diesel Range Organics (DRO) (GC)

Deionized Water Leaching Procedure

Anions, Ion Chromatography

Closed System Purge and Trap

Job ID: 890-4691-1

SDG: 32.212927,-103.14969

EET MID

EET MID

Protocol	Laboratory
SW846	EET MID
TAL SOP	EET MID
SW846	EET MID
SW846	EET MID
EPA	EET MID
CMOAC	EET MID

SW846

ASTM

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

Microextraction

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:

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

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Sample Summary

Client: Ensolum

Project/Site: PLU CVX JV PC 018H

Job ID: 890-4691-1

SDG: 32.212927,-103.14969

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4691-1	BH03	Solid	05/18/23 12:45	05/18/23 15:20	0.5'

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eurofins

Xenco

Environment Testing

City, State ZIP:

Carlsbad, NM 88220

City, State ZIP:

Carlsbad, NM 88220

Reporting: Level II Level III PST/UST TRRP

Level IV

Program: UST/PST [] PRP [] Brownfields [] RRC [] Superfund []

Work Order Comments

www.xenco.com

State of Project:

3104 E. Green St.

3122 National Parks Hwy

Project Manager: Company Name:

Tacoma Morrissey

Bill to: (if different) Company Name:

XTO Energy Garret Green

Ensolum

13 14

Chain of Custody

Revised Date: 08/25/2020 Rev 2020			6						
							(
		9	5/18-23 1520	5		Q P	()CX	h	my.
nature) Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time		ature)	Received by: (Signature	Rec	(Signature)	Remigdished by:
s ented.	ractors. It assigns standard terms and conditions losses are due to circumstances beyond the control se terms will be enforced unless previously negotiated.	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$6 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiat	npany to Eurofins Xen losses or expenses ir ubmitted to Eurofins X	client cou ity for any sample s	d purchase order from sume any responsibl charge of \$5 for each	s constitutes a vali les and shall not as each project and a	hment of sample the cost of samp will be applied to	ocument and relinquis o will be liable only for mum charge of \$85.00	otice: Signature of this d service. Eurofins Xenco Eurofins Xenco. A mini
Hg: 1631 / 245.1 / 7470 / 7471	Ag TI U Hg: 163	Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	b As Ba Be Co		TCLP / SPLP 6010: 8RCRA	TCLP/	analyzed	d Metal(s) to be a	Circle Method(s) and Metal(s) to be analyzed
2 Na Sr Tl Sn U V Zn	Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr	Cd Ca Cr Co Cu Fe Pb Mg N	Texas 11 Al Sb As Ba Be B	Al St	3PPM Texas 11	8RCRA 13PPM	0.	10 200.8 / 6020:	Total 200.7 / 6010
		1							
tmorrissey@ensolum.com									
			1						
30-015-41281									
API:					4				
1140491001						/			
Cost Center:									
NAB1705937661									1
Incident ID:			×	1	0.5' Grab/	023 12:45	S 5/18/2023		вноз
Sample Comments			TPH (8	# of Cont	Depth Grab/ # of	Time ed Sampled	Matrix Sampled		Sample Identification
NaOT + Ascorbic Acid: SATO			015		7.0	Corrected Temperature:	Correct		Total Containers:
Zn Acetate+NaOH: Zn		890-469 Chair of Coor)		4.4	Temperature Reading:	N/A Temper	s: Yes No	Sample Custody Seals:
Na20203. Na003	odv -	Chair of Clistody	PA	P	100	Correction Factor:	N/A Correct	Yes No	Cooler Custody Seals:
Na S.O. Naso			: 30	ага	1001	Thermometer ID:	1	tixes ?	Samples Received Intact:
H ₃ PO ₄ : HP			0.0)	mete	Yes No	No Wet Ice:	Yes	Temp Blank:	SAMPLE RECEIPT
H ₂ SU ₄ : H ₂ NaOH: Na				ers	the lab, if received by 4:30pm	the lab, if re			PO#:
	-				TAT starts the day received by	TAT starts t	arker	Kase Parker	Sampler's Name:
<u>o</u>						Due Date:	103.914969	32.212927, -103.914969	Project Location:
None: NO DI Water: H ₂ O				Code	Rush	☑ Routine	58206	03C1558206	Project Number:
Preservative Codes		ANALYSIS REQUEST			Turn Around	Tur	/ PC 018H	PLU CVX JV PC 018H	Project Name:
			VIobil.com	ข∈xxon	Email: Garret.Green@ExxonNiobil.com	Emai		303-887-2946	Phone:
ADaPT Other:	Deliverables: FDD AD	Delive							

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4691-1

SDG Number: 32.212927,-103.14969

Login Number: 4691 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
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: Ensolum Job Number: 890-4691-1

SDG Number: 32.212927,-103.14969

Login Number: 4691 **List Source: Eurofins Midland** List Number: 2 List Creation: 05/22/23 08:42 AM

Creator: Rodriguez, Leticia

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	N/A	

<6mm (1/4").



APPENDIX E

NMOCD Notifications

From: Green, Garrett J

To: Enviro, OCD, EMNRD; Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD; Harimon, Jocelyn, EMNRD

Cc: <u>DelawareSpills /SM; Tacoma Morrissey</u>

Subject: XTO - Sampling Notification (Week of 4/10/23 - 4/14/23)

Date: Thursday, April 6, 2023 10:35:58 AM

[**EXTERNAL EMAIL**]

All,

XTO plans to complete final sampling activities at the sites listed below for the week of April 10, 2023.

Wednesday

- PLU CVX JV 018H / NAB1705937661
- JRU 17 CTB/ nAPP2226628060
- BEU 156 Fire / nAPP2304448906

Thursday

- PLU CVX JV 018H / NAB1705937661
- JRU 17 CTB/ nAPP2226628060
- PLU 387H / NMAP1823448856

Friday

PLU 387H / NMAP1823448856

Thank you,

Garrett Green

Environmental Coordinator
Delaware Business Unit
(575) 200-0729
Garrett.Green@ExxonMobil.com

XTO Energy, Inc.

3104 E. Greene Street | Carlsbad, NM 88220 | M: (575)200-0729

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

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

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

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

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

CONDITIONS

Action 222762

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
,	Action Number:
Midland, TX 79707	222762
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

C		Condition	Condition Date	1
	bhall	Closure approved. Site will need to meet the requirements of 19.15.29.13 NMAC.	6/5/2023	