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

State of New Mexico Energy Minerals and Natural Resources Department

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

Incident ID	NAPP2214734717
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party XTO Energy				OGRID 5380		
Contact Name Garrett Green				Contact Telephone 575-200-0729		
Contact ema	il garrett.gre	en@exxonmobil.co	om		Incident # ((assigned by OCD)
		3104 E. Greene Str		w Mexi	co, 88220	
1			a	4.5		
			Location	of Re	elease So	ource
Latitude 32	2.19297			1	Longitude	-103.91889
			(NAD 83 in dec			nal places)
Site Name Po	oker Lake U	nit 442 443		Ï	Site Type	Tank Battery
Date Release	Discovered	05/15/2022			API# (if appl	
¥						
Unit Letter	Section	Township	Range		Count	nty
В	30	24S	30E		Eddy	y
Sumface Overno	Ctata	➤ Federal ☐ Tr	ibal Driveta (1	Nama		,
Surface Owner	i State	rederai 🔝 II	ibai 🔲 Private (1	wame: _		
	Nature and Volume of Release					
	Materia	(s) Released (Select al	l that apply and attach	ı calculatio	ons or specific i	justification for the volumes provided below)
Crude Oi		Volume Release		Culculation	ons or specific	Volume Recovered (bbls) 50.00
Produced	Water	Volume Release	d (bbls)			Volume Recovered (bbls)
			ion of total dissolv water >10,000 mg		ds (TDS)	☐ Yes ☐ No
Condensa	ite	Volume Release				Volume Recovered (bbls)
Natural Gas Volume Released (Mcf)					Volume Recovered (Mcf)	
Other (describe) Volume/Weight Released (provide units		e units)	,	Volume/Weight Recovered (provide units)		
Cause of Rel	contain	ment. All fluids wed and determined	ere recovered. A	48-nou	r imer inspe	nloaded causing tanks to overflow into impermeable ection notice was sent to NMOCD District 2. Liner was hird-party contractor has been retained for remediation

Received by OCD: 8/12/2022 9:15:17 AM State of New Mexico
Page 2 Oil Conservation Division

P	ağ	e	2	oj	1	31	7

Incident ID	NAPP2214734717
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the respor	sible party consider this a major release?		
release as defined by	A release greater than 25 barrels.			
19.15.29.7(A) NMAC?				
🗶 Yes 🗌 No				
If YES, was immediate no	otice given to the OCD? By whom? To wh	om? When and by what means (phone, email, etc)?		
Yes, by Garrett Green to M	Mike Bratcher, Robert Hamlet, ocd.enviro@	state.nm.us on Tuesday, May 17, 2022 9:27 AM via email.		
	Initial Re	esponse		
The responsible j	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	as been secured to protect human health and	the environment.		
▼ Released materials has	ave been contained via the use of berms or d	likes, absorbent pads, or other containment devices.		
★ All free liquids and re	ecoverable materials have been removed and	d managed appropriately.		
If all the actions described	d above have <u>not</u> been undertaken, explain v	why:		
NA				
Per 19.15.29,8 B. (4) NM	IAC the responsible party may commence re	emediation immediately after discovery of a release. If remediation		
has begun, please attach	a narrative of actions to date. If remedial	efforts have been successfully completed or if the release occurred		
within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.				
		best of my knowledge and understand that pursuant to OCD rules and		
		fications and perform corrective actions for releases which may endanger DCD does not relieve the operator of liability should their operations have		
failed to adequately investig	ate and remediate contamination that pose a three	at to groundwater, surface water, human health or the environment. In		
addition, OCD acceptance of and/or regulations.	f a C-141 report does not relieve the operator of	responsibility for compliance with any other federal, state, or local laws		
Garrett G	reen	Title: SSHE Coordinator		
Printed Name:	A	Title		
Signature:	M Silv	Date:		
email: garrett.green@exx	konmobil.com	Telephone: 575-200-0729		
<u> </u>		retephone.		
OCD Only				
n	Harimon	Date: 05/27/2022		
Received by:Jocelyn		Date: 05/27/2022		

Location:	Poker Lake Unit 442 443 Battery	
Spill Date:	5/15/2022	
	Area 1	
Approximate A	rea = 280.7	3 cu.ft.
	VOLUME OF LEAK	
Total Crude Oil	= 50.0	0 bbls
Total Produced Water = 0.00		0 bbls
	TOTAL VOLUME OF LEAK	•
Total Crude Oil	50.0	0 bbls
Total Produced Water = 0.00		0 bbls
	TOTAL VOLUME RECOVERED	
Total Crude Oil	50.0	0 bbls
Total Produced	l Water = 0.0	0 bbls

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

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

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

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 111576

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road Midland, TX 79707	Action Number: 111576
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Crea	ated By	Condition	Condition Date
jha	arimon	None	5/27/2022

re of New Mexico

Incident ID	NAPP2214734717
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

 $This information \ must be provided \ to \ the \ appropriate \ district \ of fice \ no \ later \ than \ 90 \ days \ after \ the \ release \ discovery \ date.$

What is the shallowest depth to groundwater beneath the area affected by the release?	>100 (ft bgs)			
Did this release impact groundwater or surface water?	☐ Yes ⊠ No			
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No			
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No			
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No			
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No			
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No			
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No			
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No			
Are the lateral extents of the release overlying a subsurface mine? ☐ Yes ☒ No.				
Are the lateral extents of the release overlying an unstable area such as karst geology?				
Are the lateral extents of the release within a 100-year floodplain?				
Did the release impact areas not on an exploration, development, production, or storage site?				
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.				
Characterization Report Checklist: Each of the following items must be included in the report.				
 Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information Topographic/Aerial maps 				
☐ Laboratory data including chain of custody				

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

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Incident ID	NAPP2214734717
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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.				
Printed Name:Garrett Green	Title:Environmental Coordinator			
Signature: Satt Sur	Date:8/11/2022			
email:Garrett.Green@ExxonMobil.com	Telephone:575-200-0729			
OCD Only				
Received by:Jocelyn Harimon	Date: 08/12/2022			

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Incident ID	NAPP2214734717
District RP	
Facility ID	
Application ID	

Closure

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

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

	•
A scaled site and sampling diagram as described in 19.15.29.	11 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	s of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate OD	C 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 rehuman health or the environment. In addition, OCD acceptance of	ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in
Printed Name:Garret Green	
Signature:Sath Surr	Date:8/11/2022
email:Garrett.Green@ExxonMobil.com	Telephone:575-200-0729
OCD Only Jocelyn Harimon Received by:	08/12/2022
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible for regulations.
Closure Approved by:	Date: 09/29/2022
Closure Approved by:	Title: Environmental Specialist A



August 11, 2022

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

Re: Closure Request

Poker Lake Unit 442 443

Incident Number NAPP2214734717

Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared this Closure Request to document site assessment and soil sampling activities at the Poker Lake Unit 442 443 (Site). The purpose of the site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following a release of crude oil within lined containment at the Site. Based on field observations, field screening activities, and soil sample laboratory analytical results, XTO is submitting this Closure Request for Incident Number NAPP2214734717.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit B, Section 30, Township 24 South, Range 30 East, in Eddy County, New Mexico (32.19297° N, 103.91889°W) and is associated with oil and gas exploration and production operations on Federal Land managed by Bureau of Land Management (BLM).

On May 15, 2022, due to human error, wells unloaded and caused tanks to overflow, resulting in the release of approximately 50 barrels (bbls) of crude oil into the lined tank battery containment. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; all 50 bbls of released crude oil were recovered from within the lined containment. A 48-hour advance notice of liner inspection was provided via email to the New Mexico Oil Conservation Division (NMOCD) District II office. A liner integrity inspection was conducted by XTO personnel following fluid recovery. Upon inspection, the liner was determined to be insufficient. XTO reported the release to the NMOCD via email on May 17, 2022 and submitted a Release Notification Form C-141 (Form C-141) on May 27, 2022. The release was assigned Incident Number NAPP2214734717.

SITE CHARATERIZATION AND CLOSURE CRITERIA

The Site was characterized according to Table 1, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential site receptors are identified on Figure 1.

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants
601 North Marienfeld Suite 400 | Midland, TX 79705 | ensolum.com
Texas PG Firm No. 50588 | Texas PE Firm No. F-21843



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 with depth to groundwater data is United States Geological Survey (USGS) well 321205103544701, located approximately 0.6 miles north of the Site. The groundwater well has a reported depth to groundwater of 231 feet bgs and a total depth of 452 feet bgs. Ground surface elevation at the groundwater well location is 3,188 feet above mean sea level (amsl), which is approximately 30 feet higher in elevation than the Site. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is Pierce Canyon, located approximately 803 feet south of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

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

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

SITE ASSESSMENT ACTIVITIES

On July 11, 2022, Ensolum personnel visited the Site to evaluate the release extent and conduct site assessment activities. One borehole (BH01) was advanced via hand auger near the location of the tear in the liner to assess the vertical extent of impacted soil. Three delineation soil samples (BH01/BH01A/BH01B) were collected from the borehole at depths of approximately 0.5 feet, 1-foot, and 2 feet bgs, respectively, before encountering auger refusal. Four additional lateral delineation soil samples (SS01 through SS04) were collected around the lined containment at a depth of 0.5 feet bgs to confirm the lateral extent of the release. Soil from the delineation soil sample locations was field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. Field screening results and observations from the borehole were documented on lithologic/soil sampling logs, which are included as Appendix B. The borehole was backfilled with the soil removed and XTO repaired the tear in the liner. The delineation soil sample locations are depicted on Figure 2. Photographic documentation is included in Appendix C.

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



LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for the delineation soil samples BH01, BH01A, and BH01B collected from the borehole and lateral delineation soil samples SS01 through SS04 indicated benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria and compliant with the most stringent Table 1 Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix D.

CLOSURE REQUEST

Following the failed liner integrity inspection at the Site, Ensolum personnel advanced one borehole (BH01) within the lined containment to assess for the presence or absence of impacted soil resulting from the May 15, 2022 crude oil release within lined containment. Three delineation soil samples were collected from borehole BH01, at depths of approximately 0.5 feet, 1-foot, and 2 feet bgs. Laboratory analytical results for the delineation soil samples BH01, BH01A, and BH01B collected from the borehole, and lateral delineation soil samples SS01 through SS04 indicated benzene, BTEX, TPH-DRO/TPH-GRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria and compliant with the most stringent Table 1 Closure Criteria. The release was contained laterally by the lined containment and all released fluids were recovered during initial response activities. The tear in the liner was subsequently repaired.

Based on initial response efforts, absence of elevated field screening results, and soil sample laboratory analytical results compliant with the Closure Criteria directly beneath the tear in the liner, XTO respectfully requests no further action for Incident Number NAPP2214734717.

If you have any questions or comments, please contact Ms. Ashley Ager at (970) 946-1093 or aager@ensolum.com.

Sincerely, **Ensolum**, **LLC**

Kalei Jennings Senior Scientist Ashley L. Ager, M.S., P.G. Program Director

ashley L. ager

cc: Garrett Green, XTO

acci Jennings

Shelby Pennington, XTO Bureau of Land Management

Appendices:

Figure 1 Site Receptor Map

Figure 2 Delineation Soil Sample Locations
Table 1 Soil Sample Analytical Results
Appendix A Referenced Well Records
Appendix B Lithologic / Soil Sampling Logs

Appendix C Photographic Log

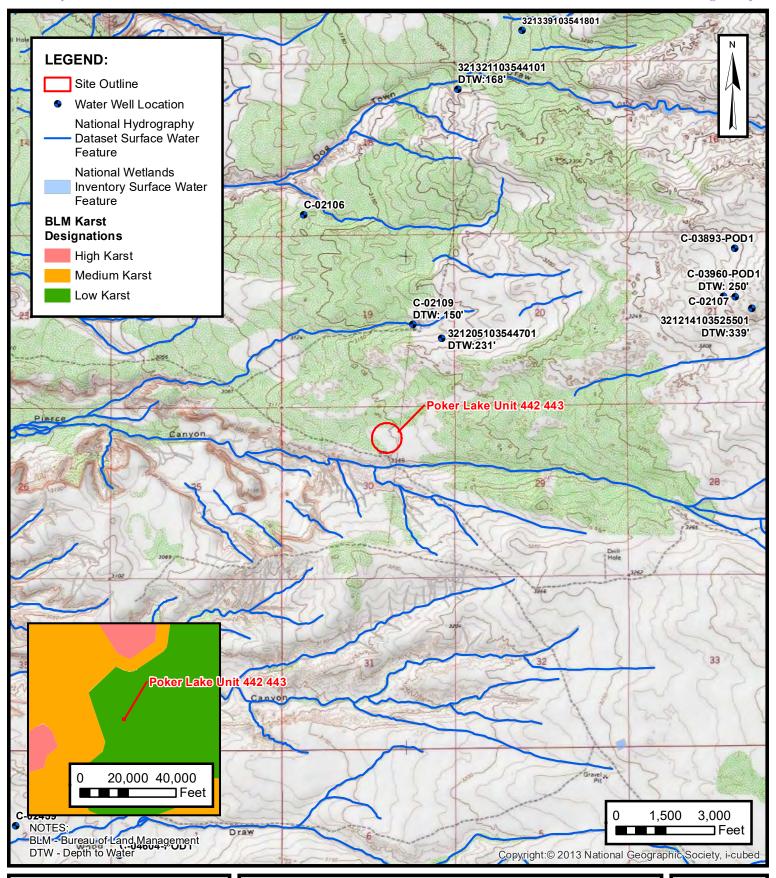
Poker Lake Unit 442 443



Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation Appendix E NMOCD Sample Notification



FIGURES



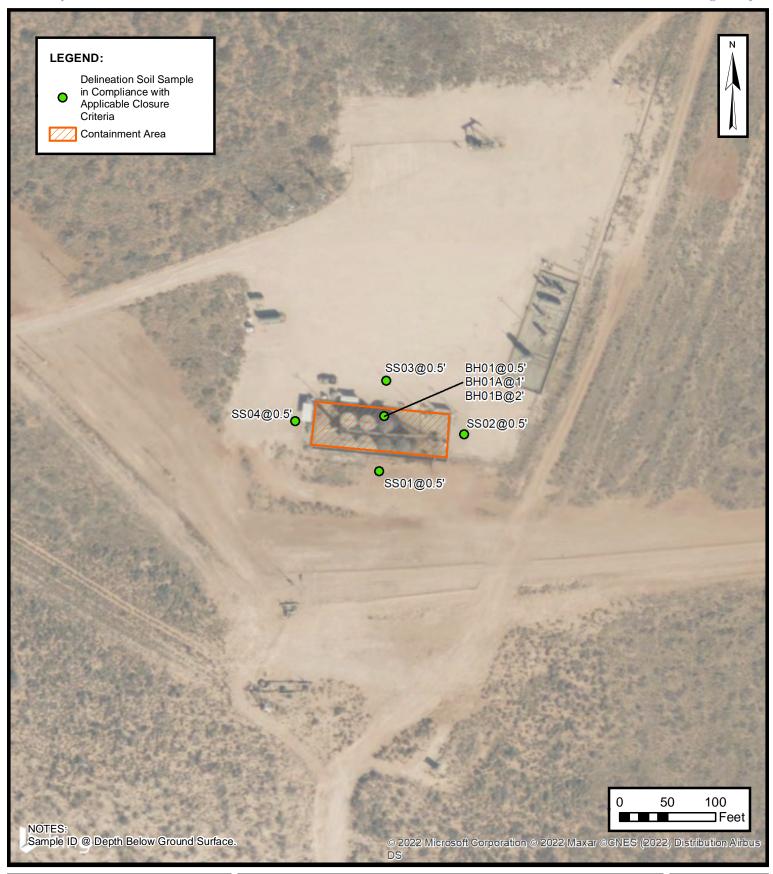


SITE RECEPTOR MAP

XTO ENERGY, INC POKER LAKE UNIT 442 443 NAPP2214734717

Unit B, Section 30, Township 24S, Range 30E Eddy County, New Mexico **FIGURE**

1





DELINEATION SOIL SAMPLES

XTO ENERGY, INC POKER LAKE UNIT 442 443 NAPP2214734717 Unit B, Section 30, Township 24S, Range 30E Eddy County, New Mexico **FIGURE**

2



TABLES



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS XTO Energy, Inc - Poker Lake Unit 442 443 Eddy County, New Mexico Incident No. NAPP2214734717

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 1 C	losure Criteria ((NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
	Delineation Soil Sample Analytical Results									
SS01	07/11/2022	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	36.5
SS02	07/11/2022	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	6.10
SS03	07/11/2022	0.5	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	<5.00
SS04	07/11/2022	0.5	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	17.6
BH01	07/11/2022	0.5	<0.00202	<0.00404	<50.0	80.4	<50.0	80.4	80.4	26.3
BH01A	07/11/2022	1	<0.00201	<0.00402	<50.0	83.2	<50.0	83.2	83.2	20.1
BH01B	07/11/2022	2	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	37.4

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

Concentrations in **bold** exceed the NMOCD Table 1 Closure Criteria for Soils Impacted

by a Release

Ensolum 1 of 1



APPENDIX A

Well Record and Log



USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

11000	3.0.7	man and a second	
11666	Water	PACA	IIICOC
0303	vvalle:	NC3U	uii ces

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

Click to hideNews Bulletins

- Explore the NEW <u>USGS National Water Dashboard</u> interactive map to access realtime water <u>data</u> from over 13,500 stations nationwide.
- Full News

Groundwater levels for the Nation

Important: <u>Next Generation Monitoring Location Page</u>

Search Results -- 1 sites found

site_no list =

• 321205103544701

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 321205103544701 24S.30E.19.42113

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°12'05", Longitude 103°54'47" NAD27

Land-surface elevation 3,188 feet above NAVD88

The depth of the well is 452 feet below land surface.

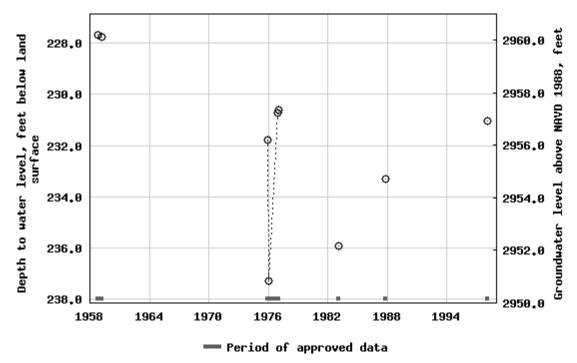
This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer.

This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

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

USGS 321205103544701 245.30E.19.42113



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

Questions about sites/data?
Feedback on this web site
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<u>U.S. Department of the Interior</u> | <u>U.S. Geological Survey</u>

Title: Groundwater for USA: Water Levels

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u>

Page Last Modified: 2022-06-27 10:54:15 EDT

0.59 0.52 nadww01





USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources

Groundwater **United States** GO

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Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs

site_no list =

• 321205103544701

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 321205103544701 24S.30E.19.42113

Table of data Tab-separated data

Eddy County, New Mexico Latitude 32°12'05", Longitude 103°54'47" NAD27

Land-surface elevation 3,188 feet above NAVD88

The depth of the well is 452 feet below land surface.

This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer.

This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

Graph of dat										
Reselect per	<u>riod</u>									
Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1958-10-24	4	D	62610		2958.66	NGVD29	1	Z		
1958-10-24	4	D	62611		2960.30	NAVD88	1	Z		
1958-10-24	4	D	72019	227.70			1	Z		
1959-03-19	€	D	62610		2958.61	NGVD29	1	Z		
1959-03-19	9	D	62611		2960.25	NAVD88	1	Z		
1959-03-19	€	D	72019	227.75			1	Z		
1975-12-10)	D	62610		2954.58	NGVD29	1	Z		
1975-12-10)	D	62611		2956.22	NAVD88	1	Z		
1975-12-10)	D	72019	231.78			1	Z		
1976-01-16	5	D	62610		2949.10	NGVD29	1	Z		
1976-01-16	5	D	62611		2950.74	NAVD88	1	Z		
1976-01-16	5	D	72019	237.26			1	Z		
1976-12-01	1	D	62610		2955.63	NGVD29	1	Z		
1976-12-01	1	D	62611		2957.27	NAVD88	1	Z		
1976-12-01	1	D	72019	230.73			1	Z		
1977-01-14	4	D	62610		2955.74	NGVD29	1	Z		

Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1977-01-14		D	62611		2957.38	NAVD88	1	Z		
1977-01-14		D	72019	230.62			1	Z		
1983-02-01		D	62610		2950.43	NGVD29	1	Z		
1983-02-01		D	62611		2952.07	NAVD88	1	Z		
1983-02-01		D	72019	235.93			1	Z		
1987-10-15		D	62610		2953.06	NGVD29	1	S		
1987-10-15		D	62611		2954.70	NAVD88	1	S		
1987-10-15		D	72019	233.30			1	S		
1998-01-27		D	62610		2955.34	NGVD29	1	S		
1998-01-27		D	62611		2956.98	NAVD88	1	S		
1998-01-27		D	72019	231.02			1	S		

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	А	Approved for publication Processing and review completed.

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

Accessibility FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey Title: Groundwater for USA: Water Levels URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2022-06-27 10:59:53 EDT

0.29 0.25 nadww01

USA.gov



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 4 19 24S 30E

C 02109

602130 3563412

Driller License:

Driller Company:

Driller Name:

Drill Finish Date:

Plug Date: 12/31/1963

Drill Start Date: Log File Date:

PCW Rcv Date:

Source:

Pump Type:

Pipe Discharge Size:

Estimated Yield: 40 GPM

Casing Size:

7.00

UNKNOWN

Depth Well:

130 feet

Depth Water:

150 feet

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.

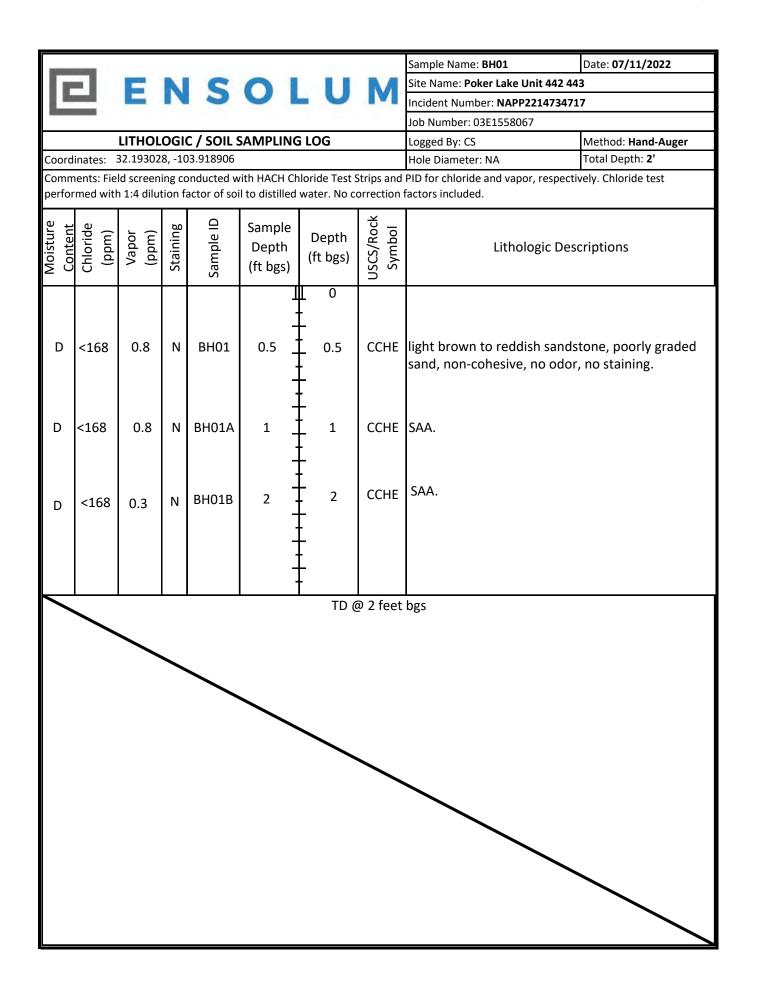
6/27/22 9:06 AM

POINT OF DIVERSION SUMMARY



APPENDIX B

Lithologic Soil Sampling Logs





APPENDIX C

Photographic Log



Photographic Log

XTO Energy, Inc.
Poker Lake Unit 442 443
Incident Number NAPP2214734717



Photograph 1 Date: July 11 2022

Description: View of BH01 location prior to delineation activities.



Photograph 2 Date: July 11, 2022

Description: View of patched liner once delineation activities were completed.



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2530-1

Laboratory Sample Delivery Group: 03E1558067

Client Project/Site: PLU 442 443 Battery

For:

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Ben Belill

RAMER

Authorized for release by: 7/18/2022 12:03:25 PM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

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

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

Client: Ensolum
Project/Site: PLU 442 443 Battery
Laboratory Job ID: 890-2530-1
SDG: 03E1558067

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Definitions/Glossary

Job ID: 890-2530-1 Client: Ensolum Project/Site: PLU 442 443 Battery

SDG: 03E1558067

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

LCS and/or LCSD is outside acceptance limits, low biased.

F1 MS and/or MSD recovery exceeds control limits.

U 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**

DL Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

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

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

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit PRES Presumptive

QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

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

Eurofins Carlsbad

Case Narrative

Client: Ensolum

Project/Site: PLU 442 443 Battery

Job ID: 890-2530-1

SDG: 03E1558067

Job ID: 890-2530-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2530-1

Receipt

The sample was received on 7/11/2022 3:18 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 5.0°C

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-29652 and analytical batch 880-29696 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

HPLC/IC

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

Matrix: Solid

Lab Sample ID: 890-2530-1

Client Sample Results

 Client: Ensolum
 Job ID: 890-2530-1

 Project/Site: PLU 442 443 Battery
 SDG: 03E1558067

Client Sample ID: SS01

Date Collected: 07/11/22 10:00 Date Received: 07/11/22 15:18

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/14/22 17:00	07/14/22 19:43	
Toluene	<0.00200	U	0.00200	mg/Kg		07/14/22 17:00	07/14/22 19:43	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/14/22 17:00	07/14/22 19:43	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		07/14/22 17:00	07/14/22 19:43	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/14/22 17:00	07/14/22 19:43	
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		07/14/22 17:00	07/14/22 19:43	,
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130			07/14/22 17:00	07/14/22 19:43	1
1,4-Difluorobenzene (Surr)	97		70 - 130			07/14/22 17:00	07/14/22 19:43	1
- Method: Total BTEX - Total BTE)	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			07/14/22 20:21	1
Method: 8015 NM - Diesel Range Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9		49.9	mg/Kg		Теригеи	07/15/22 10:26	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	• •	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		07/13/22 11:07	07/14/22 15:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U *-	49.9	mg/Kg		07/13/22 11:07	07/14/22 15:44	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/13/22 11:07	07/14/22 15:44	1
	% Pocovory	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Surrogate	Mecovery					07/40/00 44-07	07/11/00 15 11	
Surrogate 1-Chlorooctane			70 - 130			07/13/22 11:07	07/14/22 15:44	1
1-Chlorooctane			70 ₋ 130 70 ₋ 130			07/13/22 11:07	07/14/22 15:44 07/14/22 15:44	1
	85 88	Soluble						1
1-Chlorooctane o-Terphenyl	85 88 omatography -	Soluble Qualifier		Unit	D			Dil Fac

Eurofins Carlsbad

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Released to Imaging: 9/29/2022 12:08:41 PM

Surrogate Summary

 Client: Ensolum
 Job ID: 890-2530-1

 Project/Site: PLU 442 443 Battery
 SDG: 03E1558067

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogat
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2530-1	SS01	128	97	
890-2547-A-3-D MS	Matrix Spike	99	100	
890-2547-A-3-E MSD	Matrix Spike Duplicate	122	93	
LCS 880-29702/1-A	Lab Control Sample	97	100	
LCSD 880-29702/2-A	Lab Control Sample Dup	112	100	
MB 880-29702/5-A	Method Blank	108	107	
Surrogate Legend				
BFB = 4-Bromofluoroben	zene (Surr)			
DFBZ = 1,4-Difluorobenz	ene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1001	OTPH1	
_ab Sample ID	Client Sample ID	(70-130)	(70-130)	
380-16861-A-1-B MS	Matrix Spike	89	83	
380-16861-A-1-C MSD	Matrix Spike Duplicate	81	73	
390-2530-1	SS01	85	88	
_CS 880-29652/2-A	Lab Control Sample	120	102	
_CSD 880-29652/3-A	Lab Control Sample Dup	124	108	
MB 880-29652/1-A	Method Blank	86	95	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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Client: Ensolum

Job ID: 890-2530-1

SDG: 03E1558067

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-29702/5-A

Project/Site: PLU 442 443 Battery

Matrix: Solid

Analysis Batch: 29701

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 29702

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/14/22 08:03	07/14/22 12:04	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/14/22 08:03	07/14/22 12:04	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/14/22 08:03	07/14/22 12:04	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/14/22 08:03	07/14/22 12:04	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/14/22 08:03	07/14/22 12:04	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/14/22 08:03	07/14/22 12:04	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	07/14/22 08:03	07/14/22 12:04	1
1,4-Difluorobenzene (Surr)	107		70 - 130	07/14/22 08:03	07/14/22 12:04	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 29702

Lab Sample ID: LCS 880-29702/1-A Matrix: Solid

Analysis Batch: 29701

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1064	-	mg/Kg		106	70 - 130	
Toluene	0.100	0.1020		mg/Kg		102	70 - 130	
Ethylbenzene	0.100	0.09099		mg/Kg		91	70 - 130	
m-Xylene & p-Xylene	0.200	0.1833		mg/Kg		92	70 - 130	
o-Xylene	0.100	0.09664		mg/Kg		97	70 - 130	
I and the second								

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 29701

Lab Sample ID: LCSD 880-29702/2-A

Prep Type: Total/NA Prep Batch: 29702

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09913		mg/Kg		99	70 - 130	7	35
Toluene	0.100	0.1079		mg/Kg		108	70 - 130	6	35
Ethylbenzene	0.100	0.1025		mg/Kg		103	70 - 130	12	35
m-Xylene & p-Xylene	0.200	0.2143		mg/Kg		107	70 - 130	16	35
o-Xylene	0.100	0.1126		mg/Kg		113	70 - 130	15	35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	112	70 - 130
1.4-Difluorobenzene (Surr)	100	70 - 130

Lab Sample ID: 890-2547-A-3-D MS

Matrix: Solid

Analysis Batch: 29701

Client Sample ID: Matrix Spike

Prep Batch: 29702

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.100	0.1050		mg/Kg		104	70 - 130	
Toluene	< 0.00201	U	0.100	0.1012		mg/Kg		101	70 - 130	

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Prep Type: Total/NA

QC Sample Results

Client: Ensolum Job ID: 890-2530-1 SDG: 03E1558067 Project/Site: PLU 442 443 Battery

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

Lab Sample ID: 890-2547-A-3-D MS

Matrix: Solid

Analysis Batch: 29701

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 29702

S	ampie	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Ethylbenzene <0.	00201	U	0.100	0.09086		mg/Kg		91	70 - 130
m-Xylene & p-Xylene <0.	00402	U	0.200	0.1839		mg/Kg		92	70 - 130
o-Xylene <0	00201	U	0.100	0.09733		mg/Kg		97	70 - 130
,						0 0			

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 29702

Lab Sample ID: 890-2547-A-3-E MSD **Matrix: Solid**

Analysis Batch: 29701

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U	0.0998	0.08676		mg/Kg		86	70 - 130	19	35
Toluene	<0.00201	U	0.0998	0.1094		mg/Kg		110	70 - 130	8	35
Ethylbenzene	<0.00201	U	0.0998	0.1090		mg/Kg		109	70 - 130	18	35
m-Xylene & p-Xylene	<0.00402	U	0.200	0.2345		mg/Kg		117	70 - 130	24	35
o-Xylene	<0.00201	U	0.0998	0.1239		mg/Kg		124	70 - 130	24	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	122		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

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

Lab Sample ID: MB 880-29652/1-A

Matrix: Solid

Analysis Batch: 29696

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

Prep Batch: 29652

	MB	MR						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/13/22 11:06	07/14/22 11:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/13/22 11:06	07/14/22 11:11	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/13/22 11:06	07/14/22 11:11	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130	 07/13/22 11:06	07/14/22 11:11	1
o-Terphenyl	95		70 - 130	07/13/22 11:06	07/14/22 11:11	1

Lab Sample ID: LCS 880-29652/2-A

Matrix: Solid

Analysis Batch: 29696

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

Prep Batch: 29652

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1173		mg/Kg		117	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1102		mg/Kg		110	70 - 130	
C10-C28)								

Eurofins Carlsbad

Project/Site: PLU 442 443 Battery

Client: Ensolum

Job ID: 890-2530-1

SDG: 03E1558067

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

Lab Sample ID: LCS 880-29652/2-A

Lab Sample ID: LCSD 880-29652/3-A

Matrix: Solid

Analysis Batch: 29696

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 29652

LCS LCS

%Recovery Qualifier Surrogate Limits 1-Chlorooctane 120 70 - 130 o-Terphenyl 102 70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Batch: 29652

Matrix: Solid Prep Type: Total/NA Analysis Batch: 29696

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 70 - 130 1000 1173 117 0 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1142 mg/Kg 114 70 - 13020 C10-C28)

LCSD LCSD

Sample Sample

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	124		70 - 130
o-Terphenyl	108		70 - 130

Lab Sample ID: 880-16861-A-1-B MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 29696

Prep Type: Total/NA

Prep Batch: 29652

	Sample	Sample	Spike	IVIO	IVIO				/ortec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	53.9		996	1119		mg/Kg		107	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	833	*- F1	996	1277	F1	mg/Kg		45	70 - 130	
C10 C20)										

Cnika

C10-C28)

		MS	MS	
Surroga	ate	%Recovery	Qualifier	Limits
1-Chlor	ooctane	89		70 - 130
o-Terph	enyl	83		70 - 130

Lab Sample ID: 880-16861-A-1-C MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid**

Analysis Batch: 29696

Prep Type: Total/NA

Prep Batch: 29652

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	53.9		998	1024		mg/Kg		97	70 - 130	9	20	
(GRO)-C6-C10												
Diesel Range Organics (Over	833	*- F1	998	1145	F1	mg/Kg		31	70 - 130	11	20	
C10-C28)												

C10-C28)

MSD MSD

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	81	70 - 130
o-Terphenyl	73	70 - 130

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Client: Ensolum Job ID: 890-2530-1 Project/Site: PLU 442 443 Battery

SDG: 03E1558067

Prep Type: Soluble

Client Sample ID: SS01

Prep Type: Soluble

Client Sample ID: Method Blank

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-29659/1-A

Matrix: Solid

Analysis Batch: 29860

MB MB

Dil Fac Analyte Result Qualifier RL Unit D Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 07/16/22 09:49

Lab Sample ID: LCS 880-29659/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 29860

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 263.5 mg/Kg 105 90 - 110

Lab Sample ID: LCSD 880-29659/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 29860

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 250 263.3 90 - 110 mg/Kg 105

Lab Sample ID: 890-2530-1 MS **Client Sample ID: SS01 Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 29860

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 36.5 248 305.7 109 90 - 110 mg/Kg

Lab Sample ID: 890-2530-1 MSD

Matrix: Solid

Analysis Batch: 29860

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 248 36.5 308.1 mg/Kg 110 90 - 110 20

QC Association Summary

Client: Ensolum

Job ID: 890-2530-1 Project/Site: PLU 442 443 Battery SDG: 03E1558067

GC VOA

Analysis Batch: 29701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2530-1	SS01	Total/NA	Solid	8021B	29702
MB 880-29702/5-A	Method Blank	Total/NA	Solid	8021B	29702
LCS 880-29702/1-A	Lab Control Sample	Total/NA	Solid	8021B	29702
LCSD 880-29702/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	29702
890-2547-A-3-D MS	Matrix Spike	Total/NA	Solid	8021B	29702
890-2547-A-3-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	29702

Prep Batch: 29702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2530-1	SS01	Total/NA	Solid	5035	
MB 880-29702/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-29702/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-29702/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2547-A-3-D MS	Matrix Spike	Total/NA	Solid	5035	
890-2547-A-3-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 29780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2530-1	SS01	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 29652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2530-1	SS01	Total/NA	Solid	8015NM Prep	
MB 880-29652/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-29652/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-29652/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-16861-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-16861-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 29696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2530-1	SS01	Total/NA	Solid	8015B NM	29652
MB 880-29652/1-A	Method Blank	Total/NA	Solid	8015B NM	29652
LCS 880-29652/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	29652
LCSD 880-29652/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	29652
880-16861-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	29652
880-16861-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	29652

Analysis Batch: 29838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2530-1	SS01	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 29659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2530-1	SS01	Soluble	Solid	DI Leach	_ ·
MB 880-29659/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-29659/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-29659/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Eurofins Carlsbad

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QC Association Summary

 Client: Ensolum
 Job ID: 890-2530-1

 Project/Site: PLU 442 443 Battery
 SDG: 03E1558067

HPLC/IC (Continued)

Leach Batch: 29659 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2530-1 MS	SS01	Soluble	Solid	DI Leach	
890-2530-1 MSD	SS01	Soluble	Solid	DI Leach	

Analysis Batch: 29860

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2530-1	SS01	Soluble	Solid	300.0	29659
MB 880-29659/1-A	Method Blank	Soluble	Solid	300.0	29659
LCS 880-29659/2-A	Lab Control Sample	Soluble	Solid	300.0	29659
LCSD 880-29659/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	29659
890-2530-1 MS	SS01	Soluble	Solid	300.0	29659
890-2530-1 MSD	SS01	Soluble	Solid	300.0	29659

Eurofins Carlsbad

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Lab Chronicle

Client: Ensolum Job ID: 890-2530-1 Project/Site: PLU 442 443 Battery SDG: 03E1558067

Client Sample ID: SS01 Lab Sample ID: 890-2530-1 Date Collected: 07/11/22 10:00

Matrix: Solid

Date Received: 07/11/22 15:18

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	29702	07/14/22 17:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29701	07/14/22 19:43	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29780	07/14/22 20:21	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29838	07/15/22 10:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	29652	07/13/22 11:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29696	07/14/22 15:44	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	29659	07/13/22 12:36	SMC	XEN MID
Soluble	Analysis	300.0		1			29860	07/16/22 10:16	CH	XEN MID

Laboratory References:

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

Eurofins Carlsbad

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Accreditation/Certification Summary

Client: Ensolum Job ID: 890-2530-1 Project/Site: PLU 442 443 Battery SDG: 03E1558067

Laboratory: Eurofins Midland

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

Authority	Pr	rogram	Identification Number	Expiration Date	
Texas		ELAP	T104704400-22-24	06-30-23	
The following analytes the agency does not of	. ,	ut 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		
Total BTEX		Solid	Total BTEX		

Method Summary

Client: Ensolum

Method

8021B

Total BTEX

8015 NM

8015B NM

8015NM Prep

DI Leach

300.0

5035

Project/Site: PLU 442 443 Battery

Method Description

Total BTEX Calculation

Microextraction

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: 890-2530-1

SDG: 03E1558067

Protocol	Laboratory
1 1010001	
SW846	XEN MID
TAL 00D	VENIAND
TAL SOP	XEN MID
SW846	XEN MID
SW846	XEN MID
	VENTAGE
MCAWW	XEN MID
SW846	XEN MID
011040	ALIVIND

XEN MID

XEN MID

SW846

ASTM

Protocol References:

ASTM = ASTM International

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum

Project/Site: PLU 442 443 Battery

Job ID: 890-2530-1

SDG: 03E1558067

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2530-1	SS01	Solid	07/11/22 10:00	07/11/22 15:18	0.5'

Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 bbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	uston, TX (281) 240-4200, Dallas, TX (214) 902-0300 nd, TX (432) 704-5440, San Antonio, TX (210) 509-3334 Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
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Company Name: Ensolun Address: 3122 Na City, State ZIP: Carlsbar Phone: 9898544 Project Number: Project Number: Project Number: Sampler's Name: Project Number: Sample Received Intact: Cooler Custody Seals: Y Sample Containers: Y Sample Identification SS01	sbeiiii 2 National parks Hy Isbad, NM 88220 8540852 PLU 442 443 Be 03E155806 EDDY COUNTY Conner Shor Yes No Nua Yes No Nua Yes No Nua S S	Due I TAT s the la No Wes normeter ID: cition Factor: erature Readii clad Tempera ate Til npled Sam	Bill to: (if different) Company Name: Address: City, State ZIP: Email: bbelill@ensolum.com Turn Around Fres. Due Date: TAT starts the day received by 4:30pm Wet Ice: Wet Ice: Ves No Depth Code Sampled Depth Comp Cont 1 0 0 0 0.5' Grab/ 1 O 0 0.5' Grab/ 1	1 C # Parameters C Property C C C C C C C C C	CHLORIDES (EPA: 300.0) X TPH (8015) X BTEX (8021	890-253	ANALYSIS REQUEST ANALYSIS REQUEST B90-2530 Chain of Custody	Program: UST/PST State of Project: Reporting: Level II [Deliverables: EDD	ST/PST PPR ST/PST PPR ST/PST PPR ST/PST PPR	Work Order Comments Comments PRP Brownfields R Level III PST/UST T ADaPT C Ocol: Cool HCL: HC H ₂ SQ ₄ : H ₂ H ₃ PQ ₄ : HF NaHSQ ₄ : H NaOH+As NaOH+As Sam Sam NAI	Work Order Comments Program: UST/PST PRP Brownfields RRC Superfund State of Project: Reporting: Level III Level IV ADaPT Other: Deliverables: EDD ADaPT Other: Preservative Codes HCL: HC HNO3: HN H2SO4: H2 NABIS NA2S203: NASO3 Zn Acelate+NaOH: Zn NaOH+Ascorbic Acid: SAPC Sample Comments INCIDENT NUMBER: NAPP2214734717
ny Name: s: Name: Number: Location: r's Name: Seate ZIP: Sample Iden SS0	sbad, NM 88220 8540852 PLU 442 443 Ba 03E 155806 EDDY COUNTY Conner Short Yes No No Yes No NA Yes No NA S ation Matrix	Due I TAT s the la No Wel No Wel Cition Factor: erature Readi cited Tempera ate Ti 1/2022 / 0	Company Name: Address: City, State ZIP: bbelilil@ensolun Around Rush Rush Rush Open Open Orab Orab Orab Orab Orab		X TPH (8015) X BTEX (8021	890.253	NALYSIS REC	Reporting: Lu Deliverables OUEST	ST/PST PR	AP Brownfil ADaPT AD	Ields ☐RRC ☐ Superfund JST ☐TRRP ☐ Level IV ☐ Other: Preservative Codes Vone: NO DI Water: H Cool: Cool MeOH: Me HCL: HC HNO3: HN H2S04: H2 NaOH: Na H3PO4: HP NaHSO4: NASO3 Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC Sample Comments Cost Center:108118100 INCIDENT NUMBER: NAPP2214734717
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Project Name: Project Number: Project Location: Sampler's Name: PO #: Samples Received Intact: Cooler Custody Seals: Sample Custody Seals: Total Containers: Sample Identificat SS01	PLU 442 443 Be 03E 155806; EDDY COUNTY Conner Shor Tenus Blank: Ves No NuA Yes No Natrix S S	No nometer recition Face cled Templed 1/2022				890-2530	Chain of Cust	tody		ZNZZIIIOZ	NABIS NASO ₃ scorbic A scorbic A corbic C corbic C perter:1
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Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	200.8 / 6020: Metal(s) to be analyzed	8RCRA 13F	TCLP / SPLP 6010: 8RCRA Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb	Al Sb As Ba Be CRA Sb As Ba B	s Ba Be B C	Cd Ca Cr Co Cd Cr Co Cu F		Mg Mn Mo Ni Ni Se Ag Ti U	K Se A	Ag SiO ₂ Na Sr Tl Sn U Hg: $1631 / 245.1 / 7470$	Sr Tl Sn ∪ V Zn 245.1 / 7470 / 7471
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofina Xenco, its affiliates and subcontractors.	ment and relinquishment of sam	nples constitutes a valid pu	urchase order from clk	lent company t	to Eurofins Xenco	o, its affiliates and	subcontractors. It	t assigns standard terms and conditions	d terms and con	ditions	
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. Aminimum charge of \$85.00 will be enforced unless previously negotiated for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated	Il be liable only for the cost of san charge of \$85.00 will be applie	amples and shall not assured to each project and a chi	me any responsibility than the same arge of \$5 for each same	for any losses	s or expenses incu ed to Eurofins Xen	urred by the clien nco, but not analy	t if such losses are zed. These terms w	e due to circumstances beyond the control will be enforced unless previously negotiated	niess previously r	negotiated.	
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Empty Kit Relinquished by

confirmed

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elinquished by

Custody Seal No

Cooler Temperature(s) °C and Other Remarks

Ver 06/08/2021

elinquished by

Carlsbad NM 88220 1089 N Canal St.

Shipping/Receiving

lient Information

State Zip TX, 79701

Midland

211 W Florida Ave

432-704-5440(Tel)

PLU 442 443 Battery

SS01 (890-2530-1)

Eurofins Carlsbad

13 14

Chain of Custody Record

🤹 eurofins

Environment Testing

Note: Since laboratory accreditations are subject to change Eurofins Environment Testing South Central LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/hests/maintx being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central LLC attention immediately. Possible Hazard Identification Sample Identification - Client ID (Lab ID) Eurofins Environment Testing Deliverable Requested 1 II III IV Other (specify) Phone 575-988-3199 Fax. 575-988-3199 (Sub Contract Lab) South Centr Phone: Date/Time Primary Deliverable Rank. P0# TAT Requested (days): Sampler SSOW# 89000093 roject #: Due Date Requested Sample Date 7/11/22 Date Mountain Sample Time 1000 (C=comp Sample Type Preservation Code: Company Company Matrix Solid Kramer Jessica Jessica Kramer@et.eurofinsus com E-Mail Lab PM Field Filtered Sample (Yes or No) Ime. NELAP - Texas Accreditations Required (See note) Perform MS/MSD (Yes or No) Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Special Instructions/QC Requirements 8015MOD_NM/8015NM_S_Prep (MOD) Full TPH Received by × Return To Client × 8015MOD_Calc × 300_ORGFM_28D/DI_LEACH Chloride × 8021B/5035FP Calc (MOD) BTEX Analysis Requested × Total_BTEX_GCV Disposal By Lab State of Origin New Mexico Carrier Tracking No(s) lethod of Shipmen Date/Time W Archive For Total Number of containers B NaOH
C Zn Acetate
D Nitric Acid
E NaHSO4
F MeOH
G Amchlor
H Ascorbic Acid COC No: 890-837 1 J III O C O D Preservation 890-2530-1 Page 1 of 1 Ice
DI Water
EDTA
EDA 된 Special Instructions/Note: \overline{c} N≺≶ Company Company M Hexane
V None
D AsNaO2
D AsNaO2
D Na2SO3
D Na2SO3
R NaSSCO3
R NaSSCO3 / pH 4-5 Trizma other (specify)

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-2530-1 SDG Number: 03E1558067

Login Number: 2530 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.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-2530-1 SDG Number: 03E1558067

List Source: Eurofins Midland

Login Number: 2530 List Number: 2 List Creation: 07/13/22 11:52 AM

Creator: Kramer, Jessica

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.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	N/A	

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<6mm (1/4").



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2532-1

Laboratory Sample Delivery Group: 03E1558067

Client Project/Site: PLU 442 443 Battery

For:

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Ben Belill

RAMER

Authorized for release by: 7/18/2022 2:59:11 PM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

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

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

Client: Ensolum
Project/Site: PLU 442 443 Battery
Laboratory Job ID: 890-2532-1
SDG: 03E1558067

Table of Contents

Cover Page	1
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Definitions/Glossary

 Client: Ensolum
 Job ID: 890-2532-1

 Project/Site: PLU 442 443 Battery
 SDG: 03E1558067

558067

Qualifiers

GC VOA

Qualifier Description

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

*- LCS and/or LCSD is outside acceptance limits, low biased.

F1 MS and/or MSD recovery exceeds control limits.

U Indicates the analyte was analyzed for but not detected.

HPLC/IC

U Indicates the analyte was analyzed for but not detected.

Glossary

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

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

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

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

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Case Narrative

Client: Ensolum

Project/Site: PLU 442 443 Battery

Job ID: 890-2532-1 SDG: 03E1558067

Job ID: 890-2532-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2532-1

Receipt

The sample was received on 7/11/2022 3:18 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 5.0°C

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-29652 and analytical batch 880-29696 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

HPLC/IC

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

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Client Sample Results

 Client: Ensolum
 Job ID: 890-2532-1

 Project/Site: PLU 442 443 Battery
 SDG: 03E1558067

Client Sample ID: SS03 Lab Sample ID: 890-2532-1

Date Collected: 07/11/22 10:25
Date Received: 07/11/22 15:18
Matrix: Solid

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200	mg/Kg		07/14/22 13:24	07/16/22 08:58	
Toluene	<0.00200	U	0.00200	mg/Kg		07/14/22 13:24	07/16/22 08:58	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/14/22 13:24	07/16/22 08:58	
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		07/14/22 13:24	07/16/22 08:58	
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/14/22 13:24	07/16/22 08:58	
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		07/14/22 13:24	07/16/22 08:58	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	104		70 - 130			07/14/22 13:24	07/16/22 08:58	
1,4-Difluorobenzene (Surr)	96		70 - 130			07/14/22 13:24	07/16/22 08:58	
Method: Total BTEX - Total BTEX	(Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Method: 8015 NM - Diesel Range ^{Analyte}		O) (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Analyte Total TPH	Result <50.0		50.0	mg/Kg	— —	Prepared	07/15/22 10:26	Dii Fa
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	_	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/13/22 11:07	07/14/22 16:05	
Diesel Range Organics (Over C10-C28)	<50.0	U *-	50.0	mg/Kg		07/13/22 11:07	07/14/22 16:05	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/13/22 11:07	07/14/22 16:05	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	81		70 - 130			07/13/22 11:07	07/14/22 16:05	
o-Terphenyl	83		70 - 130			07/13/22 11:07	07/14/22 16:05	
Method: 300.0 - Anions, Ion Chro	0 . ,							
Method: 300.0 - Anions, Ion Chro Analyte Chloride	0 . ,	Qualifier		Unit mg/Kg	D	Prepared	Analyzed 07/16/22 10:44	Dil Fa

DFBZ = 1,4-Difluorobenzene (Surr)

Surrogate Summary

 Client: Ensolum
 Job ID: 890-2532-1

 Project/Site: PLU 442 443 Battery
 SDG: 03E1558067

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

-			
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-16752-A-2-C MS	Matrix Spike	107	99
880-16752-A-2-D MSD	Matrix Spike Duplicate	105	101
890-2532-1	SS03	104	96
LCS 880-29759/1-A	Lab Control Sample	110	90
LCSD 880-29759/2-A	Lab Control Sample Dup	105	93
MB 880-29759/5-A	Method Blank	96	97
MB 880-29770/5-A	Method Blank	97	96
Surrogate Legend			
BFB = 4-Bromofluoroben	zene (Surr)		

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance
		1001	OTPH1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
80-16861-A-1-B MS	Matrix Spike	89	83	
80-16861-A-1-C MSD	Matrix Spike Duplicate	81	73	
90-2532-1	SS03	81	83	
CS 880-29652/2-A	Lab Control Sample	120	102	
CSD 880-29652/3-A	Lab Control Sample Dup	124	108	
MB 880-29652/1-A	Method Blank	86	95	
Surrogate Legend				
1CO = 1-Chlorooctane				

OTPH = o-Terphenyl

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Released to Imaging: 9/29/2022 12:08:41 PM

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Client: Ensolum

Job ID: 890-2532-1

SDG: 03E1558067

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-29759/5-A

Lab Sample ID: LCS 880-29759/1-A

Project/Site: PLU 442 443 Battery

Matrix: Solid Analysis Batch: 29845 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 29759

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/14/22 13:24	07/16/22 02:14	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/14/22 13:24	07/16/22 02:14	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/14/22 13:24	07/16/22 02:14	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/14/22 13:24	07/16/22 02:14	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/14/22 13:24	07/16/22 02:14	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/14/22 13:24	07/16/22 02:14	1

MB MB

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	_	07/14/22 13:24	07/16/22 02:14	1
1,4-Difluorobenzene (Surr)	97		70 - 130		07/14/22 13:24	07/16/22 02:14	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 29759

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.07297 mg/Kg 73 70 - 130 Toluene 0.100 0.08701 mg/Kg 87 70 - 130 0.100 0.08425 Ethylbenzene mg/Kg 84 70 - 130 0.200 0.1807 70 - 130 m-Xylene & p-Xylene mg/Kg 90 0.100 0.09822 70 - 130 o-Xylene mg/Kg

LCS LCS

Surrogate	%Recovery (Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Matrix: Solid

Analysis Batch: 29845

Analysis Batch: 29845

Lab Sample ID: LCSD 880-29759/2-A

Prep Type: Total/NA Prep Batch: 29759

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08688		mg/Kg		87	70 - 130	17	35
Toluene	0.100	0.08609		mg/Kg		86	70 - 130	1	35
Ethylbenzene	0.100	0.08616		mg/Kg		86	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1801		mg/Kg		90	70 - 130	0	35
o-Xylene	0.100	0.09676		mg/Kg		97	70 - 130	1	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits		
4-Bromofluorobenzene (Surr)	105		70 - 130		
1.4-Difluorobenzene (Surr)	93		70 ₋ 130		

Lab Sample ID: 880-16752-A-2-C MS

Matrix: Solid

Analysis Batch: 29845

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

Prep Batch: 29759

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.100	0.09058		mg/Kg		90	70 - 130	
Toluene	< 0.00199	U	0.100	0.08763		mg/Kg		87	70 - 130	

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QC Sample Results

Client: Ensolum Job ID: 890-2532-1 SDG: 03E1558067 Project/Site: PLU 442 443 Battery

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

Lab Sample ID: 880-16752-A-2-**Matrix: Solid**

Analysis Batch: 29845

-C MS	Client Sample ID: Matrix Spike
	Prep Type: Total/NA

Prep Batch: 29759

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00199	U	0.100	0.08749		mg/Kg		87	70 - 130	
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1846		mg/Kg		92	70 - 130	
o-Xylene	<0.00199	U	0.100	0.1009		mg/Kg		101	70 - 130	

MS MS

Surrogate	%Recovery Qualifie	er Limits
4-Bromofluorobenzene (Surr)	107	70 - 130
1,4-Difluorobenzene (Surr)	99	70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 29759

Lab Sample ID: 880-16752-A-2-D MSD **Matrix: Solid**

Analysis Batch: 29845

_	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U	0.0998	0.1046		mg/Kg		105	70 - 130	14	35
Toluene	<0.00199	U	0.0998	0.1012		mg/Kg		101	70 - 130	14	35
Ethylbenzene	<0.00199	U	0.0998	0.09569		mg/Kg		96	70 - 130	9	35
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1992		mg/Kg		100	70 - 130	8	35
o-Xylene	<0.00199	U	0.0998	0.1064		mg/Kg		107	70 - 130	5	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: MB 880-29770/5-A

Matrix: Solid

Analysis Batch: 29845

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

Prep Batch: 29770

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/14/22 16:20	07/15/22 14:37	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/14/22 16:20	07/15/22 14:37	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/14/22 16:20	07/15/22 14:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/14/22 16:20	07/15/22 14:37	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/14/22 16:20	07/15/22 14:37	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/14/22 16:20	07/15/22 14:37	1

MB MB

мв мв Result Qualifier

<50.0 U

MB MB

Surrogate	9	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofl	luorobenzene (Surr)	97		70 - 130	07/14/22 16:20	07/15/22 14:37	1
1,4-Difluoi	robenzene (Surr)	96		70 - 130	07/14/22 16:20	07/15/22 14:37	1

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

Lab Sample ID: MB 880-29652/1-A

Matrix: Solid

Analysis Batch: 29696

Gasoline Range Organics

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

Prep Batch: 29652

Unit Prepared 50.0 mg/Kg 07/13/22 11:06 07/14/22 11:11

(GRO)-C6-C10

Client: Ensolum

Job ID: 890-2532-1

SDG: 03E1558067

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

Lab Sample ID: MB 880-29652/1-A **Matrix: Solid**

Lab Sample ID: LCS 880-29652/2-A

Matrix: Solid

Analysis Batch: 29696

Analysis Batch: 29696

Project/Site: PLU 442 443 Battery

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 29652

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		07/13/22 11:06	07/14/22 11:11	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/13/22 11:06	07/14/22 11:11	1

MB MB

MR MR

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	86	70 - 130	07/13/22 11:06	07/14/22 11:11	1
o-Terphenyl	95	70 - 130	07/13/22 11:06	07/14/22 11:11	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 29652

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 1173 117 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1102 mg/Kg 110 70 - 130 C10-C28)

LCS LCS

Surrogate	%Recovery (Qualifier	Limits
1-Chlorooctane	120		70 - 130
o-Terphenyl	102		70 - 130

Lab Sample ID: LCSD 880-29652/3-A

Matrix: Solid Analysis Batch: 29696 Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 29652

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	1000	1173		mg/Kg		117	70 - 130	0	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	1142		mg/Kg		114	70 - 130	4	20	
C10-C28)										

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	124		70 - 130
o-Terphenyl	108		70 - 130

Lab Sample ID: 880-16861-A-1-B MS

Matrix: Solid

Analysis Batch: 29696

Client Sample ID: Matrix Spike

Prep Type: Total/NA Prep Batch: 29652

Spike MS MS %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 996 1119 70 - 130 53.9 107 mg/Kg (GRO)-C6-C10 996 1277 F1 Diesel Range Organics (Over 833 *- F1 mg/Kg 45 70 - 130

C10-C28)

	IVIS	IVIS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	89		70 - 130
o-Terphenyl	83		70 - 130

QC Sample Results

Job ID: 890-2532-1 Client: Ensolum Project/Site: PLU 442 443 Battery SDG: 03E1558067

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

Lab Sample ID: 880-16861-A-1-C MSD Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 29696 Prep Batch: 29652 Sample Sample MSD MSD RPD Spike Analyte Result Qualifier Added Result Qualifier %Rec Limits RPD Limit Unit D Gasoline Range Organics 53.9 998 1024 mg/Kg 97 70 - 130 9 20

(GRO)-C6-C10

833 *- F1 998 31 Diesel Range Organics (Over 1145 F1 mg/Kg 70 - 13011 20 C10-C28) MSD MSD

%Recovery Limits Surrogate Qualifier 70 - 130 1-Chlorooctane 81 o-Terphenyl 73 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-29659/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 29860

MB MB

Result Qualifier RL Unit Analyte D Prepared Analyzed Dil Fac Chloride <5.00 5.00 mg/Kg 07/16/22 09:49 U

Lab Sample ID: LCS 880-29659/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 29860

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits Chloride 250 263.5 90 - 110 mg/Kg 105

Lab Sample ID: LCSD 880-29659/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 29860

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec RPD Limits Limit Chloride 250 263.3 105 90 - 110 mg/Kg 0

Lab Sample ID: 890-2530-A-1-B MS

Matrix: Solid

Analysis Batch: 29860

Sample Sample Spike MS MS %Rec Qualifier Added Qualifier Analyte Result Result %Rec Limits Unit Chloride 248 109 90 - 110 36.5 305.7 mg/Kg

Lab Sample ID: 890-2530-A-1-C MSD

Matrix: Solid

Analysis Batch: 29860

Sample Sample Spike MSD MSD %Rec RPD Qualifier Added Result Result Qualifier %Rec Limits RPD Limit Analyte Unit D 248 Chloride 36.5 308.1 110 90 - 110 20 mg/Kg

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Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Prep Type: Soluble

QC Association Summary

Client: Ensolum

Project/Site: PLU 442 443 Battery

Job ID: 890-2532-1 SDG: 03E1558067

_

GC VOA

Prep Batch: 29759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2532-1	SS03	Total/NA	Solid	5035	
MB 880-29759/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-29759/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-29759/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-16752-A-2-C MS	Matrix Spike	Total/NA	Solid	5035	
880-16752-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 29770

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-29770/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 29845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2532-1	SS03	Total/NA	Solid	8021B	29759
MB 880-29759/5-A	Method Blank	Total/NA	Solid	8021B	29759
MB 880-29770/5-A	Method Blank	Total/NA	Solid	8021B	29770
LCS 880-29759/1-A	Lab Control Sample	Total/NA	Solid	8021B	29759
LCSD 880-29759/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	29759
880-16752-A-2-C MS	Matrix Spike	Total/NA	Solid	8021B	29759
880-16752-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	29759

Analysis Batch: 29955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2532-1	SS03	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 29652

Lab Sample ID 890-2532-1	Client Sample ID SS03	Prep Type Total/NA	Matrix Solid	Method 8015NM Prep	Prep Batch
MB 880-29652/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-29652/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-29652/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-16861-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-16861-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 29696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2532-1	SS03	Total/NA	Solid	8015B NM	29652
MB 880-29652/1-A	Method Blank	Total/NA	Solid	8015B NM	29652
LCS 880-29652/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	29652
LCSD 880-29652/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	29652
880-16861-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	29652
880-16861-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	29652

Analysis Batch: 29839

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2532-1	SS03	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum
Project/Site: PLU 442 443 Battery
SDC

Job ID: 890-2532-1 SDG: 03E1558067

HPLC/IC

Leach Batch: 29659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2532-1	SS03	Soluble	Solid	DI Leach	
MB 880-29659/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-29659/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-29659/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2530-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2530-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 29860

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2532-1	SS03	Soluble	Solid	300.0	29659
MB 880-29659/1-A	Method Blank	Soluble	Solid	300.0	29659
LCS 880-29659/2-A	Lab Control Sample	Soluble	Solid	300.0	29659
LCSD 880-29659/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	29659
890-2530-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	29659
890-2530-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	29659

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Lab Chronicle

 Client: Ensolum
 Job ID: 890-2532-1

 Project/Site: PLU 442 443 Battery
 SDG: 03E1558067

Client Sample ID: SS03 Lab Sample ID: 890-2532-1

Date Collected: 07/11/22 10:25

Date Received: 07/11/22 15:18

Matrix: Solid

	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	29759	07/14/22 13:24	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29845	07/16/22 08:58	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29955	07/18/22 13:45	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29839	07/15/22 10:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	29652	07/13/22 11:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29696	07/14/22 16:05	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	29659	07/13/22 12:36	SMC	XEN MID
Soluble	Analysis	300.0		1			29860	07/16/22 10:44	CH	XEN MID

Laboratory References:

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

Eurofins Carlsbad

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Accreditation/Certification Summary

Client: Ensolum Job ID: 890-2532-1 Project/Site: PLU 442 443 Battery

SDG: 03E1558067

Laboratory: Eurofins Midland

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

Authority	Pr	rogram	Identification Number	Expiration Date
Texas	NI	ELAP	T104704400-22-24	06-30-23
The following analytes the agency does not of	. ,	ut 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	
Total BTEX		Solid	Total BTEX	

Method Summary

Client: Ensolum

Project/Site: PLU 442 443 Battery

Job ID: 890-2532-1

SDG: 03E1558067

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

Protocol References:

ASTM = ASTM International

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Carlsbad

Released to Imaging: 9/29/2022 12:08:41 PM

Sample Summary

Client: Ensolum

Project/Site: PLU 442 443 Battery

Job ID: 890-2532-1

SDG: 03E1558067

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2532-1	SS03	Solid	07/11/22 10:25	07/11/22 15:18	0.5'

Relinquished by: (Signature)

thansun sta

Received by: (Signature)

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11/23 Date/Time

15/15

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Revised Date 08/25/2020 Rev. 2020.2

service. Eurofins Xanco 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 Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated ice: 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

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

Total 200.7 / 6010

eurofins Kenco Environment lesting

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296

Work Order No:

LLC Company Name: XTO Energy, Inc.	Ben Belill	Bii	Bill to: (if different)	ဂ္ဂ	Garrett Green	een		Work	Work Order Comments
State of Project: State 2IP; Carlsbad, NM 88220 Email: bbelili@ensolum.com Deliverables: EDD	solum, LLC	င္ပ	mpany Name:	×	O Energ	gy, Inc.			Brownfields RRC Superfunc
Carisbad, NM 88220 Email: bbelill@ensolum.com Carisbad, NM 88220 Email: bbelill@ensolum.com Carisbad, NM 88220 Carisbad, NM	22 National parks Hwy	Ad	dress:	31	04 E. G	reen Str			
BalteS40852 Email:	arlsbad. NM 88220	Cit	y, State ZIP:	င္မ	rlsbad,	NM 882			III PST/UST TRRP Level IV
PLU 442 443 Battery	98540852	Email: bb	elill@ensolum	com				Deliverables: EDD	
Content Cont	PLU 442 443 Battery	Turn Ar	ound				ANALYSIS REQU	EST	Preservative Codes
EDDY COUNTY, NM Due Date: Conner Shore TAT starts the day revelved by the lab, if received by 4:30pm the lab, if received b	03E1558067			res.					
Conner Shore TAT starts the day received by 4-30pm the lab, if received by 4-30pm to lab, if re	EDDY COUNTY, NM	Due Date:							
T Temp Blank: (es) No Wet Ice: (7es) No Wet Ice: (7es) No Thermometer ID: (7es) No Thermometer ID: (7es) No Nu/A Temperature Reading: (7es) Nu/A Temperature	Conner Shore	TAT starts the da	y received by						
T Temp Blank: (es) No Wet los: (Fes) No Thermometer ID: (Fes) No Thermometer ID: (Fes) No (Fe		the lab, if receive	ad by 4:30pm	rs			-	-	
Thermometer ID: Yes No Min Correction Factor: Yes No No NIA Temperature Reading: Yes No NiA Temperature Reading: Sampled Sampled Sampled Comp Cont Chi H H H H H H H H H H H H H H H H H H H	Temp Blank: Kes	Wet Ice:		-	,				H ₃ PO ₄ : HP
Yes No N/A Temperature Reading: S 2 EL	Key No	+			300				NaHSO₄: NABIS
	Yes No O				PA:				Na ₂ S ₂ O ₃ ; NaSO ₃
fication Matrix Date Time Sampled Sampled Sampled Comp Cont Children Comp Cont Children Comp Cont Children Chil	No N/A	e Reading:	8 8	0.75	3 (E	+			Zn Acetate+NaOH: Zn
fication Matrix Sampled Sampled Sampled Comp Cont Comp Cont CHL X X X X X X X X X X X X X X X X X X X	(emperature:	7.7	up.r.	_		90-2532 Chain of Custo	ody	NaOH+Ascorbic Acid: SAPC
S 7/11/2022 (095 0.5' Grab/ 1 X X X X X X X X X X X X X X X X X X	Matrix								Sample Comments
INCIDENT NUMBER: NAPP2214734717					-	-			Cost Center:108118100
NAPP2Z14/34/1/									INCIDENT NUMBER:
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	/								
				-					
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PO #:

Sampler's Name:

Project Location:

Project Number: Project Name:

City, State ZIP:

ddress:

Project Manager:

ompany Name:

SAMPLE RECEIPT

Samples Received Intact:

ooler Custody Seals:

ample Custody Seals:

Sample Identification SS03

hone 575-988-3199 Fax 575-988-3199

Carlsbad NM 88220 1089 N Canal St

Eurofins Carlsbad

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Chain of Custody Record

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Environment Testing

PLU 442 443 Battery State Zip TX 79701 lote Since laboratory accreditations are subject to change Eurofins Environment Testing South Central LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the aboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central LLC alboratory or other instructions will be provided. Any changes to succeeditation status should be brought to Eurofins Environment Testing South Central LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central LLC. SS03 (890-2532-1) Sample Identification - Client ID (Lab ID ossible Hazard Identification 132-704-5440(Tel) Deliverable Requested | || || || || || Other (specify) /idland 211 W Florida Ave Eurofins Environment Testing South Centr Shipping/Receiving elinquished by mpty Kit Relinquished by Custody Seals Intact. linquished by linquished by: lient Information confirmed Yes S (Sub Contract Lab) Custody Seal No Primary Deliverable Rank. WO# TAT Requested (days): Date/Time 89000093 7/15/2022 Due Date Requested Sampler Sample Date roject # 7/11/22 Mountain Sample 10 25 Time (C=comp, G=grab) Sample Preservation Code: Type Company Company Matrix Solid Jessica Kramer@et.eurofinsus com Kramer Jessica Time. Field Filtered Sample (Yes or No) NELAP - Texas Perform MS/MSD (Yes or No) Special Instructions/QC Requirements ditations Required (See note): 8015MOD_NM/8015NM_S_Prep (MOD) Full TPH Cooler Temperature(s) °C and Other Remarks. × Return To Client × 8015MOD_Calc 300_ORGFM_28D/DI_LEACH Chloride × × 8021B/5035FP_Calc (MOD) BTEX Analysis Requested Total_BTEX_GCV × Disposal By Lab State of Origin
New Mexico Carrier Tracking No(s) ethod of Shipment Archive For Total Number of containers Ì B - NaCH
C Zn Acetate
C Zn Acetate
D Nitric Acid
E NaHSO4
F MeOH
G Amchlor
H Ascorbic Acid Page 1 of 1 COC No: 890-837 1 Preservation Codes 890-2532-1 lce
DI Water
EDTA
EDA Ÿ Special Instructions/Note I Hexane
I None
I None
AsNaO2
I Na2O4S
I Na2SO3
I Na2SO3
I Na2SO3
I NaSSO3
I NaSSO3
I NaSSO3
I NaSSO4
I TSP Dodecahydrate
J Acetone
V MCAA
V PH44-5
V PH44-5 Months

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-2532-1 SDG Number: 03E1558067

Login Number: 2532 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.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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Login Sample Receipt Checklist

Client: Ensolum Job Numb

Job Number: 890-2532-1 SDG Number: 03E1558067

Login Number: 2532 List Source: Eurofins Midland
List Number: 2 List Creation: 07/13/22 11:52 AM

Creator: Kramer, Jessica

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.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	N/A	

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<6mm (1/4").



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2534-1

Laboratory Sample Delivery Group: 03E1558067

Client Project/Site: PLU 442 443 Battery

For:

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Ben Belill

RAMER

Authorized for release by: 7/18/2022 2:59:28 PM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

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

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

Client: Ensolum
Project/Site: PLU 442 443 Battery
Laboratory Job ID: 890-2534-1
SDG: 03E1558067

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Definitions/Glossary

Job ID: 890-2534-1 Client: Ensolum Project/Site: PLU 442 443 Battery

SDG: 03E1558067

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier Description	Qualifier	Qualifier Description
-----------------------	-----------	-----------------------

LCS and/or LCSD is outside acceptance limits, low biased.

F1 MS and/or MSD recovery exceeds control limits.

U 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 designete that the regult is reported on a dry weight basis

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

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

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

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

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

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

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 442 443 Battery

Job ID: 890-2534-1 SDG: 03E1558067

Job ID: 890-2534-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2534-1

Receipt

The sample was received on 7/11/2022 3:18 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 5.0°C

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-29652 and analytical batch 880-29696 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

HPLC/IC

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

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Matrix: Solid

Lab Sample ID: 890-2534-1

Client Sample Results

 Client: Ensolum
 Job ID: 890-2534-1

 Project/Site: PLU 442 443 Battery
 SDG: 03E1558067

Client Sample ID: SS02

Date Collected: 07/11/22 10:05
Date Received: 07/11/22 15:18

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		07/14/22 13:24	07/16/22 09:19	1
Toluene	<0.00199	U	0.00199	mg/Kg		07/14/22 13:24	07/16/22 09:19	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		07/14/22 13:24	07/16/22 09:19	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		07/14/22 13:24	07/16/22 09:19	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		07/14/22 13:24	07/16/22 09:19	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		07/14/22 13:24	07/16/22 09:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			07/14/22 13:24	07/16/22 09:19	1
1,4-Difluorobenzene (Surr)	97		70 - 130			07/14/22 13:24	07/16/22 09:19	1
- Method: Total BTEX - Total BTE)	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			07/18/22 13:45	1
		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Total TPH			RL 49.9	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 07/15/22 10:26	Dil Fac
Total TPH	<49.9	U			<u>D</u>	Prepared		
Total TPH Method: 8015B NM - Diesel Rang	<49.9 ge Organics (D	U			<u>D</u> 	Prepared Prepared		
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	<49.9 ge Organics (D	RO) (GC) Qualifier	49.9	mg/Kg		<u> </u>	07/15/22 10:26	1
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<49.9 ge Organics (DI Result	RO) (GC) Qualifier	49.9	mg/Kg		Prepared	07/15/22 10:26 Analyzed	1 Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	<pre><49.9 ge Organics (D) Result <49.9</pre>	RO) (GC) Qualifier U U *-	49.9 RL 49.9	mg/Kg Unit mg/Kg		Prepared 07/13/22 11:07	07/15/22 10:26 Analyzed 07/14/22 17:11	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<49.9 ge Organics (DI Result <49.9 <49.9	CO (GC) Qualifier U U *-	49.9 RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 07/13/22 11:07 07/13/22 11:07	07/15/22 10:26 Analyzed 07/14/22 17:11 07/14/22 17:11	1 Dil Fac 1 1
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<49.9 ge Organics (DI Result <49.9 <49.9 <49.9	CO (GC) Qualifier U U *-	49.9 RL 49.9 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 07/13/22 11:07 07/13/22 11:07	07/15/22 10:26 Analyzed 07/14/22 17:11 07/14/22 17:11	Dil Fac 1 1 Dil Fac Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<49.9 ge Organics (DI Result <49.9 <49.9 <49.9 %Recovery	CO (GC) Qualifier U U *-	49.9 RL 49.9 49.9 49.9 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 07/13/22 11:07 07/13/22 11:07 07/13/22 11:07 Prepared	07/15/22 10:26 Analyzed 07/14/22 17:11 07/14/22 17:11 Analyzed	Dil Fac 1 1 Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<49.9 ge Organics (DI Result <49.9 <49.9 <849.9 **Recovery 84 83	CO (GC) Qualifier U U *- U Qualifier	49.9 RL 49.9 49.9 49.9 Limits 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 07/13/22 11:07 07/13/22 11:07 07/13/22 11:07 Prepared 07/13/22 11:07	07/15/22 10:26 Analyzed 07/14/22 17:11 07/14/22 17:11 Analyzed 07/14/22 17:11	1 Dil Fac 1 1 1 1 Dil Fac 1
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	que Organics (DI Result <49.9 <49.9 <49.9 <849.9 %Recovery 84 83 omatography -	CO (GC) Qualifier U U *- U Qualifier	49.9 RL 49.9 49.9 49.9 Limits 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 07/13/22 11:07 07/13/22 11:07 07/13/22 11:07 Prepared 07/13/22 11:07	07/15/22 10:26 Analyzed 07/14/22 17:11 07/14/22 17:11 Analyzed 07/14/22 17:11	1 Dil Fac 1 1 1 1 Dil Fac 1

Surrogate Summary

 Client: Ensolum
 Job ID: 890-2534-1

 Project/Site: PLU 442 443 Battery
 SDG: 03E1558067

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

_				Percent Surrogate Re
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-16752-A-2-C MS	Matrix Spike	107	99	
880-16752-A-2-D MSD	Matrix Spike Duplicate	105	101	
890-2534-1	SS02	108	97	
LCS 880-29759/1-A	Lab Control Sample	110	90	
LCSD 880-29759/2-A	Lab Control Sample Dup	105	93	
MB 880-29759/5-A	Method Blank	96	97	
MB 880-29770/5-A	Method Blank	97	96	
B 880-29770/5-A Surrogate Legend	Method Blank	97	96	

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

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
_ab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-16861-A-1-B MS	Matrix Spike	89	83	
880-16861-A-1-C MSD	Matrix Spike Duplicate	81	73	
890-2534-1	SS02	84	83	
LCS 880-29652/2-A	Lab Control Sample	120	102	
LCSD 880-29652/3-A	Lab Control Sample Dup	124	108	
MB 880-29652/1-A	Method Blank	86	95	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum

Job ID: 890-2534-1

SDG: 03E1558067

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-29759/5-A

Lab Sample ID: LCS 880-29759/1-A

Project/Site: PLU 442 443 Battery

Matrix: Solid

Analysis Batch: 29845

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 29759

	мв	мв						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/14/22 13:24	07/16/22 02:14	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/14/22 13:24	07/16/22 02:14	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/14/22 13:24	07/16/22 02:14	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/14/22 13:24	07/16/22 02:14	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/14/22 13:24	07/16/22 02:14	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/14/22 13:24	07/16/22 02:14	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	07/14/22 13:24	07/16/22 02:14	1
1,4-Difluorobenzene (Surr)	97		70 - 130	07/14/22 13:24	07/16/22 02:14	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 29759

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.07297 mg/Kg 73 70 - 130 Toluene 0.100 0.08701 mg/Kg 87 70 - 130 0.100 0.08425 Ethylbenzene mg/Kg 84 70 - 130 0.200 0.1807 70 - 130 m-Xylene & p-Xylene mg/Kg 90 0.100 0.09822 70 - 130 o-Xylene mg/Kg

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Matrix: Solid

Analysis Batch: 29845

Analysis Batch: 29845

Lab Sample ID: LCSD 880-29759/2-A

Prep Type: Total/NA Prep Batch: 29759

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08688		mg/Kg		87	70 - 130	17	35
Toluene	0.100	0.08609		mg/Kg		86	70 - 130	1	35
Ethylbenzene	0.100	0.08616		mg/Kg		86	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1801		mg/Kg		90	70 - 130	0	35
o-Xylene	0.100	0.09676		mg/Kg		97	70 - 130	1	35

LCSD LCSD

Surrogate	%Recovery Qualifie	er Limits
4-Bromofluorobenzene (Surr)	105	70 - 130
1,4-Difluorobenzene (Surr)	93	70 - 130

Lab Sample ID: 880-16752-A-2-C MS

Matrix: Solid

Analysis Batch: 29845

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

Prep Batch: 29759

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.100	0.09058		mg/Kg		90	70 - 130	
Toluene	< 0.00199	U	0.100	0.08763		mg/Kg		87	70 - 130	

QC Sample Results

Client: Ensolum Job ID: 890-2534-1 SDG: 03E1558067 Project/Site: PLU 442 443 Battery

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

Lab Sample ID: 880-16752-A-2-C MS

Matrix: Solid

Analysis Batch: 29845

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 29759

	Sample	Sample	Бріке	INIO	IVIO				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00199	U	0.100	0.08749		mg/Kg		87	70 - 130	
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1846		mg/Kg		92	70 - 130	
o-Xylene	<0.00199	U	0.100	0.1009		mg/Kg		101	70 - 130	

MS MS

Surrogate	%Recovery Qualif	ier Limits
4-Bromofluorobenzene (Surr)	107	70 - 130
1,4-Difluorobenzene (Surr)	99	70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 29759

Lab Sample ID: 880-16752-A-2-D MSD **Matrix: Solid**

Analysis Batch: 29845

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U	0.0998	0.1046		mg/Kg		105	70 - 130	14	35
Toluene	< 0.00199	U	0.0998	0.1012		mg/Kg		101	70 - 130	14	35
Ethylbenzene	< 0.00199	U	0.0998	0.09569		mg/Kg		96	70 - 130	9	35
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1992		mg/Kg		100	70 - 130	8	35
o-Xylene	< 0.00199	U	0.0998	0.1064		mg/Kg		107	70 - 130	5	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: MB 880-29770/5-A

Matrix: Solid

Analysis Batch: 29845

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

Prep Batch: 29770

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/14/22 16:20	07/15/22 14:37	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/14/22 16:20	07/15/22 14:37	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/14/22 16:20	07/15/22 14:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/14/22 16:20	07/15/22 14:37	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/14/22 16:20	07/15/22 14:37	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/14/22 16:20	07/15/22 14:37	1

MB MB

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	l Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	07/14/22 16	:20 07/15/22 14:37	1
1,4-Difluorobenzene (Surr)	96		70 - 130	07/14/22 16	:20 07/15/22 14:37	1

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

Lab Sample ID: MB 880-29652/1-A

Matrix: Solid

Analysis Batch: 29696

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 29652

	MR							
Analyte	Result (Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		07/13/22 11:06	07/14/22 11:11	1

(GRO)-C6-C10

Client: Ensolum

Project/Site: PLU 442 443 Battery

Job ID: 890-2534-1

SDG: 03E1558067

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

Lab Sample ID: MB 880-29652/1-A

Lab Sample ID: LCS 880-29652/2-A

Matrix: Solid

Matrix: Solid

C10-C28)

Analysis Batch: 29696

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 29652

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/13/22 11:06	07/14/22 11:11	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/13/22 11:06	07/14/22 11:11	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130	07/13/22 11:06	07/14/22 11:11	1
o-Terphenyl	95		70 - 130	07/13/22 11:06	07/14/22 11:11	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 29652

Analysis Batch: 29696 LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 1173 117 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1102 mg/Kg 110 70 - 130

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	120		70 - 130
o-Terphenyl	102		70 - 130

Lab Sample ID: LCSD 880-29652/3-A

Matrix: Solid Analysis Batch: 29696 Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 29652

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	1000	1173		mg/Kg		117	70 - 130	0	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	1142		mg/Kg		114	70 - 130	4	20	
C10-C28)										

LCSD LCSD Surrogate %Recovery Qualifier Limits

1-Chlorooctane 124 70 - 130 o-Terphenyl 108 70 - 130

Lab Sample ID: 880-16861-A-1-B MS

Matrix: Solid

Analysis Batch: 29696

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 29652

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	53.9		996	1119		mg/Kg		107	70 - 130	
Diesel Range Organics (Over	833	*- F1	996	1277	F1	mg/Kg		45	70 - 130	

C10-C28)

	IVIS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	89		70 - 130
o-Terphenyl	83		70 - 130

Project/Site: PLU 442 443 Battery

Job ID: 890-2534-1

SDG: 03E1558067

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

Lab Sample ID: 880-16861-A-1-C MSD

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analysis Batch: 29696

Prep Batch: 29652

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	53.9		998	1024		mg/Kg		97	70 - 130	9	20
(GRO)-C6-C10											
Diesel Range Organics (Over	833	*- F1	998	1145	F1	mg/Kg		31	70 - 130	11	20
C10-C28)											

Client: Ensolum

Matrix: Solid

MSD MSD

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	81	70 - 130
o-Terphenyl	73	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-29659/1-A Client Sample ID: Method Blank

Matrix: Solid Prep Type: Soluble

Analysis Batch: 29860

мв мв

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			07/16/22 09:49	1

Lab Sample ID: LCS 880-29659/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 29860

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	263.5		mg/Kg		105	90 - 110	

Lab Sample ID: LCSD 880-29659/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 29860

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	263.3		mg/Kg	_	105	90 - 110	0	20	

Lab Sample ID: 890-2530-A-1-B MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 29860

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	36.5		248	305.7		ma/Ka	_	109	90 110	

Lab Sample ID: 890-2530-A-1-C MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 29860

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	36.5		248	308.1		mg/Kg		110	90 - 110	1	20

Eurofins Carlsbad

Prep Type: Soluble

QC Association Summary

Client: Ensolum

Project/Site: PLU 442 443 Battery

Job ID: 890-2534-1 SDG: 03E1558067

GC VOA

Prep Batch: 29759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2534-1	SS02	Total/NA	Solid	5035	
MB 880-29759/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-29759/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-29759/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-16752-A-2-C MS	Matrix Spike	Total/NA	Solid	5035	
880-16752-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 29770

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-29770/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 29845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2534-1	SS02	Total/NA	Solid	8021B	29759
MB 880-29759/5-A	Method Blank	Total/NA	Solid	8021B	29759
MB 880-29770/5-A	Method Blank	Total/NA	Solid	8021B	29770
LCS 880-29759/1-A	Lab Control Sample	Total/NA	Solid	8021B	29759
LCSD 880-29759/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	29759
880-16752-A-2-C MS	Matrix Spike	Total/NA	Solid	8021B	29759
880-16752-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	29759

Analysis Batch: 29956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2534-1	SS02	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 29652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2534-1	SS02	Total/NA	Solid	8015NM Prep	
MB 880-29652/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-29652/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-29652/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-16861-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-16861-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 29696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2534-1	SS02	Total/NA	Solid	8015B NM	29652
MB 880-29652/1-A	Method Blank	Total/NA	Solid	8015B NM	29652
LCS 880-29652/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	29652
LCSD 880-29652/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	29652
880-16861-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	29652
880-16861-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	29652

Analysis Batch: 29840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2534-1	SS02	Total/NA	Solid	8015 NM	

QC Association Summary

 Client: Ensolum
 Job ID: 890-2534-1

 Project/Site: PLU 442 443 Battery
 SDG: 03E1558067

HPLC/IC

Leach Batch: 29659

Lab Sample ID 890-2534-1	Client Sample ID SS02	Prep Type Soluble	Matrix Solid	Method DI Leach	Prep Batch
MB 880-29659/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-29659/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-29659/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2530-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2530-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 29860

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2534-1	SS02	Soluble	Solid	300.0	29659
MB 880-29659/1-A	Method Blank	Soluble	Solid	300.0	29659
LCS 880-29659/2-A	Lab Control Sample	Soluble	Solid	300.0	29659
LCSD 880-29659/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	29659
890-2530-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	29659
890-2530-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	29659

1

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10

11

13

Lab Chronicle

Client: Ensolum Job ID: 890-2534-1 Project/Site: PLU 442 443 Battery SDG: 03E1558067

Client Sample ID: SS02 Lab Sample ID: 890-2534-1 Date Collected: 07/11/22 10:05

Matrix: Solid

Date Received: 07/11/22 15:18

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	29759	07/14/22 13:24	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29845	07/16/22 09:19	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29956	07/18/22 13:45	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29840	07/15/22 10:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	29652	07/13/22 11:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29696	07/14/22 17:11	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	29659	07/13/22 12:36	SMC	XEN MID
Soluble	Analysis	300.0		1			29860	07/16/22 10:53	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-2534-1 Project/Site: PLU 442 443 Battery

SDG: 03E1558067

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	NI	ELAP	T104704400-22-24	06-30-23
The following analytes the agency does not of	. ,	ut 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

Method

8021B

Total BTEX

8015 NM

8015B NM

8015NM Prep

DI Leach

300.0

5035

Project/Site: PLU 442 443 Battery

Method Description

Total BTEX Calculation

Microextraction

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: 890-2534-1

SDG: 03E1558067

Dontonal	Labarratara
Protocol	Laboratory
SW846	XEN MID
TAL SOP	XEN MID
SW846	XEN MID
SW846	XEN MID
MCAWW	XEN MID
SW846	XEN MID

XEN MID

XEN MID

SW846

ASTM

Protocol References:

ASTM = ASTM International

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum

Project/Site: PLU 442 443 Battery

Job ID: 890-2534-1

SDG: 03E1558067

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2534-1	SS02	Solid	07/11/22 10:05	07/11/22 15:18	0.5'

eurofins

Xenco

Environment Testing

Phone:

9898540852

Email: bbelill@ensolum.com

City, State ZIP:

Carlsbad, NM 88220 3104 E. Green Street XTO Energy, Inc. Garrett Green

Address:

Company Name: Bill to: (if different)

City, State ZIP:

Company Name: ddress:

> Ensolum, LLC Ben Belill

3122 National parks Hwy

Carlsbad, NM 88220

Project Number:

EDDY COUNTY, NM

Due Date:

☑ Routine

Turn Around Rush

ANALYSIS REQUEST

Cool: Cool None: NO

DI Water: H₂O MeOH: Me

roject Name:

PLU 442 443 Battery

03E1558067

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-333 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 98 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 79

T Preservative Codes	WALYSIS REQUEST
Deliverables: EDD ADaPT Other:	D
Reporting: Level II Level III PST/UST TRRP Level IV	R
State of Project:	S
Program: UST/PST ☐PRP ☐Brownfields ☐RRC ☐ Superfund ☐	2
Work Order Comments	
www.xenco.com Page 1_of 1_	
	8-3199
	4-1296
Work Order No:	09-3334
	-0300

Revised Date 08/25/2020 Rev. 2020 2			6						5
									3
			7/11/22 15182	1	*	XX.	nousla	1	1
gnature) Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time		ıre)	Received by: (Signature)	Receive	ature)	Relinquished by: (Signature)
led.	ors. It assigns standard terms and conditions as are due to circumstances beyond the control rms will be enforced unless previously negotial	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 \$55.00 will be enforced unless previously negotiated.	mpany to Eurofins Xenco, r losses or expenses incur ubmitted to Eurofins Xenc	n client co lity for any n sample s	chase order fron e any responsibi ge of \$5 for each	titutes a valid pur d shall not assum project and a cha	of samples cons st of samples an applied to each	it and relinquishment liable only for the co arge of \$85.00 will be	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontract 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 loss of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These to
Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr II Sn U V Zn Mo Ni Se Ag Tl U Hg: 1631/245.1/7470/7471	MoNiK Se Ag SiO g TI∪ Hg:1	Ca Cr Co Cu Fe 3r Co Cu Pb Mn I	Sb As Ba Be B Cd C	11 AI S	PM Texas 1 PLP 6010: 8	8RCRA 13PPM Texas 11 Al TCLP / SPLP 6010: 8RCRA		200.8 / 6020: al(s) to be analy	Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed
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NAPP2214734717							V	1	
INCIDENT NUMBER:									
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Cost Center:1081181001			×	1	0.5' Grab/	6003	7/11/2022	S	SS02
Sample Comments			CHLOF	p Cont	Depth Comp	Time Sampled	Date Sampled	on Matrix	Sample Identification
NaOH+Ascorbic Acid. OAFC		890-2534 Chain of Custody	015)		50	emperature:	Corrected Temperature:		Total Containers:
Zn Acetate+NaOH: Zn					5	Reading:	N/A Temperature Reading:	Yes No NIA	Sample Custody Seals:
Na ₂ S ₂ C ₃ . NaSC ₃			PA	P	0.0	actor:	Correction Factor:	Yes No (N/A)	Cooler Custody Seals:
NaHSO4: NABIS			300	arai	37.00	ř ID:	Thermometer ID:	(Fey No	Samples Received Intact:
H ₃ PO ₄ : HP			0.0)	nete	No Sep	Wet lce:	(Yés)No	Temp Blank:	SAMPLE RECEIPT
H ₂ S0 ₄ : H ₂ NaOH: Na				1	the lab, if received by 4:30pm	the lab, if rece)		PO#
				¥	TAT starts the day received by	TAT starts the	re	Conner Shore	Sampler's Name:
2						Due Date:	T, NM	EDDY COUNTY, NM	Project Location:

Phone 575-988-3199 Fax: 575-988-3199

1089 N Canal St. Carlsbad NM 88220 1

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Chain of Custody Record

🗱 eurofins

Environment Testing
America

State, Zip TX, 79701 Project Name PLU 442 443 Battery Note Since laboratory accreditations are subject to change Eurofins Environment Testing South Central, LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central. LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central. LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central. LLC. SS02 (890-2534-1) Sample Identification - Client ID (Lab ID) Deliverable Requested I II III IV Other (specify) Possible Hazard Identification mpty Kit Relinquished by 132-704-5440(Tel) Shipping/Receiving Eurofins Environment Testing South Centr Midland 211 W Florida Ave elinquished by linquished by lient Information linquished by 100 (Sub Contract Lab) Custody Seal No Date/Time Date/Time Project #: 89000093 Date/Time Primary Deliverable Rank 2 Phone Sampler FAT Requested (days): Due Date Requested Sample Date 7/15/2022 7/11/22 Date Mountain Time 10 05 (C=comp, G=grab) Sample Preservation Code: Type Company Company (W=water S=solid, O=waste/oli, Matrix Solid Kramer Jessica E-Mail Jessica Kramer@et.eurofinsus com Time Field Filtered Sample (Yes or No) NELAP - Texas ccreditations Required (See note): Perform MS/MSD (Yes or No) Return To Client Disposition D Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Received Received Cooler Temperature(s) °C and Other Remarks × 8015MOD_NM/8015NM_S_Prep (MOD) Full TPH × 8015MOD_Calc × 300_ORGFM_28D/DI_LEACH Chloride × 8021B/6036FP_Calc (MOD) BTEX Analysis Requested × Total_BTEX_GCV Disposal By Lab New Mexico Carrier Tracking No(s) State of Origin Method of Shipment Date/Time Archive For **Total Number of containers** É Page 1 of 1 πo лш □ О ш > COC No: 890-837 1 Preservation B NAOH
C Zn Acetate
D Nitric Acid
E NAHSO4
F MeOH
G Amchlor
H Ascorbic Acid
I Ice
J DI Water
K EDTA
L EDA 390-2534-1 두 0 Special Instructions/Note N≺≶ ο π ο TOZ≾ Company Company Company M Hexane
N None
O AsNigoz
O AsNigoz
P Na204S
Q Na2SO3
R Na2SO3
R Na2SO3
C T TSP Dodecafrydrate
U Acetone
V MCAA
V pH 4-5
V T H 4-5 other (specify) Months

Ver 06/08/2021

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-2534-1 SDG Number: 03E1558067

Login Number: 2534 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.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

7 00 0j 100

7/18/2022

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-2534-1 SDG Number: 03E1558067

> **List Source: Eurofins Midland** List Creation: 07/13/22 11:52 AM

List Number: 2 Creator: Kramer, Jessica

Login Number: 2534

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.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	N/A	

<6mm (1/4").



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2535-1

Laboratory Sample Delivery Group: 03E1558067

Client Project/Site: PLU 442 443 Battery

For:

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Ben Belill

RAMER

Authorized for release by: 7/18/2022 3:00:08 PM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

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

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

Client: Ensolum
Project/Site: PLU 442 443 Battery
Laboratory Job ID: 890-2535-1
SDG: 03E1558067

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Definitions/Glossary

Job ID: 890-2535-1 Client: Ensolum Project/Site: PLU 442 443 Battery

SDG: 03E1558067

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

LCS and/or LCSD is outside acceptance limits, low biased.

F1 MS and/or MSD recovery exceeds control limits.

U 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

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

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

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

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

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

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 442 443 Battery

Job ID: 890-2535-1

SDG: 03E1558067

Job ID: 890-2535-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2535-1

Receipt

The sample was received on 7/11/2022 3:18 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 5.0°C

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-29652 and analytical batch 880-29696 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

HPLC/IC

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

Matrix: Solid

Client Sample Results

Client: Ensolum Job ID: 890-2535-1 Project/Site: PLU 442 443 Battery SDG: 03E1558067

Lab Sample ID: 890-2535-1

Client Sample ID: SS04 Date Collected: 07/11/22 10:30 Date Received: 07/11/22 15:18

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/14/22 13:24	07/16/22 09:39	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/14/22 13:24	07/16/22 09:39	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/14/22 13:24	07/16/22 09:39	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		07/14/22 13:24	07/16/22 09:39	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/14/22 13:24	07/16/22 09:39	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		07/14/22 13:24	07/16/22 09:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			07/14/22 13:24	07/16/22 09:39	1
1,4-Difluorobenzene (Surr)	95		70 - 130			07/14/22 13:24	07/16/22 09:39	1
- Method: Total BTEX - Total BTEX	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			07/18/22 13:45	1
Method: 8015 NM - Diesel Range Analyte Total TPH		Qualifier		Unit mg/Kg	<u>D</u>	Prepared	Analyzed 07/15/22 10:26	Dil Fac
	<50.0	U	50.0	mg/kg			07/15/22 10:20	1
Method: 8015B NM - Diesel Rang								
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		07/13/22 11:07	07/14/22 17:33	1
(GRU)-C0-C10								
,	<50.0	U *-	50.0	mg/Kg		07/13/22 11:07	07/14/22 17:33	1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<50.0 <50.0		50.0 50.0	mg/Kg mg/Kg		07/13/22 11:07 07/13/22 11:07	07/14/22 17:33 07/14/22 17:33	1
Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)		U		0 0				1
Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<50.0	U	50.0	0 0		07/13/22 11:07	07/14/22 17:33	1 Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	0 0		07/13/22 11:07 Prepared	07/14/22 17:33 Analyzed	1 Dil Fac
Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<50.0 	U Qualifier	50.0 Limits 70 - 130	0 0		07/13/22 11:07 Prepared 07/13/22 11:07	07/14/22 17:33 Analyzed 07/14/22 17:33	
Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<50.0 **Recovery 85 88 omatography -	U Qualifier	50.0 Limits 70 - 130	0 0	D	07/13/22 11:07 Prepared 07/13/22 11:07	07/14/22 17:33 Analyzed 07/14/22 17:33	1 Dil Fac

Surrogate Summary

Client: Ensolum Job ID: 890-2535-1 Project/Site: PLU 442 443 Battery SDG: 03E1558067

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)	
880-16752-A-2-C MS	Matrix Spike	107	99	
880-16752-A-2-D MSD	Matrix Spike Duplicate	105	101	
890-2535-1	SS04	107	95	
LCS 880-29759/1-A	Lab Control Sample	110	90	
LCSD 880-29759/2-A	Lab Control Sample Dup	105	93	
MB 880-29759/5-A	Method Blank	96	97	
MB 880-29770/5-A	Method Blank	97	96	

BFB = 4-Bromofluorobenzene (Surr)

OTPH = o-Terphenyl

DFBZ = 1,4-Difluorobenzene (Surr)

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

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

				Percent Surrogate Recovery (Acceptance Lin
		1CO1	OTPH1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
0-16861-A-1-B MS	Matrix Spike	89	83	
0-16861-A-1-C MSD	Matrix Spike Duplicate	81	73	
90-2535-1	SS04	85	88	
S 880-29652/2-A	Lab Control Sample	120	102	
SD 880-29652/3-A	Lab Control Sample Dup	124	108	
1B 880-29652/1-A	Method Blank	86	95	
Surrogate Legend				
1CO = 1-Chlorooctane				

Client: Ensolum

Method: 8021B - Volatile Organic Compounds (GC)

Job ID: 890-2535-1

SDG: 03E1558067

Lab Sample ID: MB 880-29759/5-A

Lab Sample ID: LCS 880-29759/1-A

Lab Sample ID: LCSD 880-29759/2-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 29845

Analysis Batch: 29845

Project/Site: PLU 442 443 Battery

Matrix: Solid Analysis Batch: 29845 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 29759

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/14/22 13:24	07/16/22 02:14	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/14/22 13:24	07/16/22 02:14	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/14/22 13:24	07/16/22 02:14	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/14/22 13:24	07/16/22 02:14	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/14/22 13:24	07/16/22 02:14	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/14/22 13:24	07/16/22 02:14	1

MB MB

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	_	07/14/22 13:24	07/16/22 02:14	1
1,4-Difluorobenzene (Surr)	97		70 - 130		07/14/22 13:24	07/16/22 02:14	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 29759

Spike LCS LCS Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.07297 mg/Kg 73 70 - 130 Toluene 0.100 0.08701 mg/Kg 87 70 - 130 0.100 0.08425 Ethylbenzene mg/Kg 84 70 - 130 0.200 0.1807 90 70 - 130 m-Xylene & p-Xylene mg/Kg 0.100 0.09822 70 - 130 o-Xylene mg/Kg

LCS LCS

Surrogate	%Recovery (Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 29759

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Benzene 0.100 0.08688 mg/Kg 87 70 - 130 17 35 Toluene 0.100 0.08609 mg/Kg 86 70 - 130 35 Ethylbenzene 0.100 0.08616 mg/Kg 86 70 - 130 2 35 0.200 0.1801 m-Xylene & p-Xylene mg/Kg 90 70 - 130 35 0.100 0.09676 o-Xylene mg/Kg 70 - 130 35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: 880-16752-A-2-C MS

Matrix: Solid

Analysis Batch: 29845

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

Prep Batch: 29759

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.100	0.09058		mg/Kg		90	70 - 130	
Toluene	<0.00199	U	0.100	0.08763		mg/Kg		87	70 - 130	

Eurofins Carlsbad

1

QC Sample Results

Job ID: 890-2535-1 Client: Ensolum Project/Site: PLU 442 443 Battery SDG: 03E1558067

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

Lab Sample ID: 880-16752-A-2-C MS

Analysis Batch: 29845

Matrix: Solid

	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Ethylbenzene	<0.00199	U	0.100	0.08749		mg/Kg		87	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1846		mg/Kg		92	70 - 130
o-Xylene	< 0.00199	U	0.100	0.1009		mg/Kg		101	70 - 130

70 - 130

MS MS %Recovery Qualifier Limits Surrogate 70 - 130 4-Bromofluorobenzene (Surr) 107

Lab Sample ID: 880-16752-A-2-D MSD

Matrix: Solid

1,4-Difluorobenzene (Surr)

Analysis Batch: 29845

Client Sample ID	Matrix	Spike	Duplicate
	_	_	

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 29759

Prep Type: Total/NA

Prep Batch: 29759

Sample Sample Spike MSD MSD Result Qualifier %Rec RPD Limit Analyte babbA Result Qualifier Limits Unit 0.0998 Benzene <0.00199 U 0.1046 mg/Kg 105 70 - 130 14 35 0.1012 Toluene <0.00199 0.0998 mg/Kg 101 70 - 130 14 35 Ethylbenzene <0.00199 0.0998 0.09569 96 70 - 130 9 35 U mg/Kg 0.200 0.1992 70 - 130 35 m-Xylene & p-Xylene <0.00398 U mg/Kg 100 8 0.0998 <0.00199 U 0.1064 107 70 - 130 o-Xylene mg/Kg 5

MSD MSD

MB MB

99

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: MB 880-29770/5-A

Matrix: Solid

Analysis Batch: 29845

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

Prep Batch: 29770

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/14/22 16:20	07/15/22 14:37	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/14/22 16:20	07/15/22 14:37	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/14/22 16:20	07/15/22 14:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/14/22 16:20	07/15/22 14:37	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/14/22 16:20	07/15/22 14:37	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/14/22 16:20	07/15/22 14:37	1

MR MR

	m.b	m.b				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	07/14/22 16:20	07/15/22 14:37	1
1,4-Difluorobenzene (Surr)	96		70 - 130	07/14/22 16:20	07/15/22 14:37	1

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

Lab Sample ID: MB 880-29652/1-A

Matrix: Solid

Analysis Batch: 29696

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

Prep Batch: 29652

мв мв Result Qualifier RL Unit Prepared Gasoline Range Organics <50.0 U 50.0 mg/Kg 07/13/22 11:06 07/14/22 11:11

(GRO)-C6-C10

Client: Ensolum

Project/Site: PLU 442 443 Battery

Job ID: 890-2535-1 SDG: 03E1558067

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

Lab Sample ID: MB 880-29652/1-A

Matrix: Solid

Analysis Batch: 29696

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 29652

Prep Type: Total/NA

MB MB Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac <50.0 U 50.0 07/13/22 11:06 07/14/22 11:11 Diesel Range Organics (Over mg/Kg C10-C28) OII Range Organics (Over C28-C36) 50.0 07/13/22 11:06 07/14/22 11:11 <50.0 U mg/Kg

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	86	70 - 130	07/13/22 11:06	07/14/22 11:11	1
o-Terphenyl	95	70 - 130	07/13/22 11:06	07/14/22 11:11	1

Lab Sample ID: LCS 880-29652/2-A Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 29696

Prep Batch: 29652 LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 1173 117 70 - 130 mg/Kg (GRO)-C6-C10 1000 1102 Diesel Range Organics (Over mg/Kg 110 70 - 130

C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	120		70 - 130
o-Terphenyl	102		70 - 130

Lab Sample ID: LCSD 880-29652/3-A

Matrix: Solid

Analysis Batch: 29696

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

Prep Batch: 29652

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	1173		mg/Kg		117	70 - 130	0	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	1142		mg/Kg		114	70 - 130	4	20
C10-C28)									

LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 124 70 - 130 o-Terphenyl 108 70 - 130

Lab Sample ID: 880-16861-A-1-B MS

Matrix: Solid

Analysis Batch: 29696

Client Sample ID: Matrix Spike

Prep Type: Total/NA Prep Batch: 29652

MS MS %Rec Sample Sample Spike Limits Result Qualifier Added Result Qualifier %Rec Analyte Unit 996 70 - 130 Gasoline Range Organics 53.9 1119 107 mg/Kg (GRO)-C6-C10 996 Diesel Range Organics (Over 833 *- F1 1277 F1 mg/Kg 45 70 - 130

C10-C28)

	IVIS	IVIS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	89		70 - 130
o-Terphenyl	83		70 - 130

Lab Sample ID: 880-16861-A-1-C MSD

Client: Ensolum Job ID: 890-2535-1 Project/Site: PLU 442 443 Battery SDG: 03E1558067

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

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 29652

Analysis Batch: 29696									Prep	Batch:	29652
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	53.9		998	1024		mg/Kg		97	70 - 130	9	20
(GRO)-C6-C10											
Diesel Range Organics (Over	833	*- F1	998	1145	F1	mg/Kg		31	70 - 130	11	20

C10-C28)

Matrix: Solid

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	81		70 - 130
o-Terphenyl	73		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-29659/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 29860

мв мв

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00 U	5.00	mg/Kg			07/16/22 09:49	1

Lab Sample ID: LCS 880-29659/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 29860

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	263.5		mg/Kg		105	90 - 110	

Lab Sample ID: LCSD 880-29659/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 29860

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	263.3		ma/Ka		105	90 110		20	

Lab Sample ID: 890-2530-A-1-B MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 29860

	Sample	Sample	Spike	IVIS	M2				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	36.5		248	305.7		mg/Kg	_	109	90 - 110	

Lab Sample ID: 890-2530-A-1-C MSD

Matrix: Solid

Analysis Batch: 29860

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	36.5		248	308.1		mg/Kg		110	90 - 110	1	20

Eurofins Carlsbad

Prep Type: Soluble

Client Sample ID: Matrix Spike Duplicate

QC Association Summary

Client: Ensolum

Project/Site: PLU 442 443 Battery

Job ID: 890-2535-1 SDG: 03E1558067

1558067

GC VOA

Prep Batch: 29759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2535-1	SS04	Total/NA	Solid	5035	
MB 880-29759/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-29759/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-29759/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-16752-A-2-C MS	Matrix Spike	Total/NA	Solid	5035	
880-16752-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 29770

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-29770/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 29845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2535-1	SS04	Total/NA	Solid	8021B	29759
MB 880-29759/5-A	Method Blank	Total/NA	Solid	8021B	29759
MB 880-29770/5-A	Method Blank	Total/NA	Solid	8021B	29770
LCS 880-29759/1-A	Lab Control Sample	Total/NA	Solid	8021B	29759
LCSD 880-29759/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	29759
880-16752-A-2-C MS	Matrix Spike	Total/NA	Solid	8021B	29759
880-16752-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	29759

Analysis Batch: 29957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2535-1	SS04	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 29652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2535-1	SS04	Total/NA	Solid	8015NM Prep	
MB 880-29652/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-29652/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-29652/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-16861-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-16861-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 29696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2535-1	SS04	Total/NA	Solid	8015B NM	29652
MB 880-29652/1-A	Method Blank	Total/NA	Solid	8015B NM	29652
LCS 880-29652/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	29652
LCSD 880-29652/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	29652
880-16861-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	29652
880-16861-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	29652

Analysis Batch: 29841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2535-1	SS04	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum
Project/Site: PLU 442 443 Battery
SD0

Job ID: 890-2535-1 SDG: 03E1558067

HPLC/IC

Leach Batch: 29659

Lab Sample ID 890-2535-1	Client Sample ID SS04	Prep Type Soluble	Matrix Solid	Method DI Leach	Prep Batch
MB 880-29659/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-29659/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-29659/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2530-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2530-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 29860

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2535-1	SS04	Soluble	Solid	300.0	29659
MB 880-29659/1-A	Method Blank	Soluble	Solid	300.0	29659
LCS 880-29659/2-A	Lab Control Sample	Soluble	Solid	300.0	29659
LCSD 880-29659/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	29659
890-2530-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	29659
890-2530-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	29659

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Lab Chronicle

Client: Ensolum Job ID: 890-2535-1 Project/Site: PLU 442 443 Battery SDG: 03E1558067

Client Sample ID: SS04 Lab Sample ID: 890-2535-1 Date Collected: 07/11/22 10:30

Matrix: Solid

Date Received: 07/11/22 15:18

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	29759	07/14/22 13:24	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29845	07/16/22 09:39	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29957	07/18/22 13:45	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29841	07/15/22 10:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	29652	07/13/22 11:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29696	07/14/22 17:33	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	29659	07/13/22 12:36	SMC	XEN MID
Soluble	Analysis	300.0		1			29860	07/16/22 11:02	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-2535-1 Project/Site: PLU 442 443 Battery

SDG: 03E1558067

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	NE	ELAP	T104704400-22-24	06-30-23
The following analytes the agency does not of	• •	t the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	

Method Summary

Client: Ensolum

Project/Site: PLU 442 443 Battery

Job ID: 890-2535-1

SDG: 03E1558067

Method	Method Description	Protocol	Laboratory
3021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
3015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
3015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
3015NM Prep	Microextraction	SW846	XEN MID
OI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum

Project/Site: PLU 442 443 Battery

Job ID: 890-2535-1

SDG: 03E1558067

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2535-1	SS04	Solid	07/11/22 10:30	07/11/22 15:18	0.5'

Total 200.7 / 6010

200.8 / 6020

8RCRA

TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U

13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se

Ag SiO₂ Na Sr

Sn U <

Zn

Hg: 1631 / 245.1 / 7470 / 7471

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eurofins Environment Testing MOTOCO

Chain of Custody

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

Work Order No:

ANALYSIS REQUEST Preservative Codes	AN
Deliverables: EDD ADaPT Other:	
Reporting: Level III	bad, NM 88220
State of Project:	E. Green Street
Program: UST/PST PRP Brownfields RRC Superfund	Energy, Inc.
Work Order Comments	ett Green
www.xenco.com Page 1 07 1	

Circle Method(s) and Metal(s) to be analyzed		CRA Sb As Ba Be C	TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag II O	II 0 Hg: 16317 243.177470 77471	1077471
Notice: Signature of this document and relinqui of service. Eurofins Xenco will be liable only fo of Eurofins Xenco. A minimum charge of \$85.0	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 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 of farming the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are of samples and the cost of samples are samples submitted to Eurofins Xenco, but not analyzed. These terms wi	client company to Eurofins Xenc y for any losses or expenses inc sample submitted to Eurofins Xe	o, its affiliates and subcontractors. It assigns stan curred by the client if such losses are due to circun nco, but not analyzed. These terms will be enforce	t assigns standard terms and conditions s due to circumstances beyond the control will be enforced unless previously negotiated.	
Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
100	Duranale Stut 7/11/22 15/18	7/11/22 1518	þ		
			4		
			6		

NaOH+Ascorbic Acid: SAPC

Sample Comments

Cost Center: 1081181001

NAPP2214734717

Zn Acetate+NaOH: Zn

Na₂S₂O₃: NaSO₃ NaHSO₄: NABIS

Samples Received Intact: SAMPLE RECEIPT

cooler Custody Seals:

Yes No /

Correction Factor: Thermometer ID: emp Blank:

Mes No

Wet Ice:

es

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Parameters

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mple Custody Seals:

Yes

S O

Corrected Temperature:

Temperature Reading:

CHLORIDES (EPA: 300.0)

890-2535 Chain of Custody

Sample Identification SS04

S Matrix

7/11/2022 10/30

0.5

Grab/

Sampled

Sampled

Depth

Comp Grab/

Cont # 01

TPH (8015) BTEX (8021

Time

Sampler's Name:

roject Location:

EDDY COUNTY, NM

Due Date:

☑ Routine

Rush

Turn Around

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

HCL: HC H3PO4: HP

MeOH: Me HNO₃: HN NaOH: Na

None: NO

DI Water: H₂O

Cool: Coo

Conner Shore

Project Number:

roject Name:

PLU 442 443 Battery

03E1558067

Phone:

9898540852 Carlsbad, NM 88220

Email: bbelill@ensolum.com

City, State ZIP: Address: Company Name:

City, State ZIP: Address: Project Manager:

Ben Belill

Bill to: (if different)

ompany Name:

Ensolum, LLC

3122 National parks Hwy

luished by:

elinquished by

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

State Zip. TX, 79701

Midland

Eurofins Carlsbad 1089 N Canal St.

Chain of Custody Record

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eurofins :

Environment Testing

Project Name PLU 442 443 Battery Eurofins Environment Testing South Centr accreditation status should be brought to Eurofins Environment Testing South Central LLC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central, LLC Note: Since laboratory accreditations are subject to change Eurofins Environment Testing South Central LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the aboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided. Any changes in the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided. Any changes the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided. Any changes the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided. SS04 (890-2535-1) Sample Identification - Client ID (Lab ID) Shipping/Receiving Deliverable Requested I II III IV Other (specify) Possible Hazard Identification 132-704-5440(Tel) 211 W Florida Ave mpty Kit Relinquished by Custody Seals Intact.

∆ Yes ∆ No lient Information 200 (Sub Contract Lab) Custody Seal No Project #: 89000093 7/15/202 Phone ₩ 0,# PO# TAT Requested (days) Due Date Requested Primary Deliverable Rank 2 SSOW# Date/Time Date/Time Sample Date 7/11/22 Date Mountain Sample 10 30 (C=comp, Sample Preservation Code: Type Company Company Company (W=water S=solid, O=waste/oil, BT=Tissue, Solid Jessica Kramer@et.eurofinsus com E-Mail: Kramer, Jessica Field Filtered Sample (Yes or No) **NELAP - Texas** Time ccreditations Required (See note) Perform MS/MSD (Yes or No) Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mon Special Instructions/QC Requirements 8015MOD_NM/8015NM_S_Prep (MOD) Full TPH Received by Cooler Temperature(s) °C and Other Remarks × 8015MOD_Calc 300_ORGFM_28D/DI_LEACH Chloride × × 8021B/5035FP_Calc (MOD) BTEX **Analysis Requested** Total_BTEX_GCV × State of Origin: New Mexico Carrier Tracking No(s) Method of Shipment)ate/Time **Total Number of containers** COC No: 890-839 1 A - HCL
B NaOH
C Zn A
D Nitric
E NaHS Preservation Codes 890-2535-1 Page 1 of 1 Ice DI Water C EDTA Zn Acetate Nitric Acid NaHSO4 MeOH NaOH EDA Ascorbic Acid Amchlor Special Instructions/Note: 0 M Hexane
N None
O - AsNaO2
P - Na2O4S
Q Na2SO3
R - Na2S2O3
S H2SO4 N ≺ ≶ < ⊂ Company Company company MCAA / pH 4-5 Trizma other (specify) Acetone TSP Dodecahydrate

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-2535-1
SDG Number: 03E1558067

Login Number: 2535 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.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-2535-1 SDG Number: 03E1558067

List Source: Eurofins Midland

Login Number: 2535 List Number: 2

List Creation: 07/13/22 12:03 PM Creator: Kramer, Jessica

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

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www.eurofinsus.com/Env

Released to Imaging: 9/29/2022 12:08:41 PM

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2536-1

Laboratory Sample Delivery Group: 03E1558067

Client Project/Site: PLU 442 443 Battery

For:

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Ben Belill

RAMER

Authorized for release by: 7/18/2022 3:00:35 PM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

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

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

Client: Ensolum
Project/Site: PLU 442 443 Battery
Laboratory Job ID: 890-2536-1
SDG: 03E1558067

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Definitions/Glossary

Job ID: 890-2536-1 Client: Ensolum Project/Site: PLU 442 443 Battery

SDG: 03E1558067

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

LCS and/or LCSD is outside acceptance limits, low biased.

F1 MS and/or MSD recovery exceeds control limits.

U 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 he	nresent in this report
ADDIEVIALIOII	These common	useu abbi eviations ma	y Oi illay	IIOL DE	present in this report.

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

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

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

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

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

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit PRES Presumptive

QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

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 442 443 Battery

Job ID: 890-2536-1

SDG: 03E1558067

Job ID: 890-2536-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2536-1

Receipt

The samples were received on 7/11/2022 3:18 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.0°C

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-29652 and analytical batch 880-29696 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

HPLC/IC

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

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Matrix: Solid

Client: Ensolum

Job ID: 890-2536-1 Project/Site: PLU 442 443 Battery SDG: 03E1558067

Client Sample ID: BH01 Lab Sample ID: 890-2536-1

Date Collected: 07/11/22 09:00 Date Received: 07/11/22 15:18

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		07/14/22 13:24	07/16/22 10:00	
Toluene	<0.00202	U	0.00202	mg/Kg		07/14/22 13:24	07/16/22 10:00	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		07/14/22 13:24	07/16/22 10:00	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		07/14/22 13:24	07/16/22 10:00	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		07/14/22 13:24	07/16/22 10:00	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		07/14/22 13:24	07/16/22 10:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130			07/14/22 13:24	07/16/22 10:00	1
1,4-Difluorobenzene (Surr)	99		70 - 130			07/14/22 13:24	07/16/22 10:00	1
- Method: Total BTEX - Total BTEX	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			07/18/22 13:45	1
Analyte Total TPH	80.4	Qualifier	50.0	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 07/15/22 10:26	Dil Fac
Total TPH					— <u> </u>			1
Madhadi 004ED NM Diasal Day								
Method: 8012R MM - Diesel Rang	ge Organics (D	RO) (GC)						
•		RO) (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Gasoline Range Organics		Qualifier	RL 50.0	Unit mg/Kg	<u>D</u>	Prepared 07/13/22 11:07	Analyzed 07/14/22 17:54	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U			<u>D</u>	<u>.</u>		1
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <50.0	Qualifier U *-	50.0	mg/Kg	<u>D</u>	07/13/22 11:07	07/14/22 17:54	1
•	Result <50.0 80.4	Qualifier U *-	50.0	mg/Kg	<u>D</u>	07/13/22 11:07 07/13/22 11:07	07/14/22 17:54 07/14/22 17:54	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate	Result <50.0 80.4 <50.0	Qualifier U *-	50.0 50.0 50.0	mg/Kg	<u> </u>	07/13/22 11:07 07/13/22 11:07 07/13/22 11:07	07/14/22 17:54 07/14/22 17:54 07/14/22 17:54	1 1 1 Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier U *-	50.0 50.0 50.0 <i>Limits</i>	mg/Kg	<u>D</u>	07/13/22 11:07 07/13/22 11:07 07/13/22 11:07 07/13/22 11:07 Prepared	07/14/22 17:54 07/14/22 17:54 07/14/22 17:54 Analyzed	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U *- U Qualifier	50.0 50.0 50.0 Limits 70 - 130	mg/Kg	<u>D</u>	07/13/22 11:07 07/13/22 11:07 07/13/22 11:07 Prepared 07/13/22 11:07	07/14/22 17:54 07/14/22 17:54 07/14/22 17:54 Analyzed 07/14/22 17:54	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U *- U Qualifier	50.0 50.0 50.0 Limits 70 - 130	mg/Kg	<u>D</u>	07/13/22 11:07 07/13/22 11:07 07/13/22 11:07 Prepared 07/13/22 11:07	07/14/22 17:54 07/14/22 17:54 07/14/22 17:54 Analyzed 07/14/22 17:54	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Client Sample ID: BH01A Lab Sample ID: 890-2536-2

Date Collected: 07/11/22 09:05 Date Received: 07/11/22 15:18

Released to Imaging: 9/29/2022 12:08:41 PM

Sample Depth: 1'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		07/14/22 13:24	07/16/22 10:20	1
Toluene	<0.00201	U	0.00201	mg/Kg		07/14/22 13:24	07/16/22 10:20	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		07/14/22 13:24	07/16/22 10:20	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		07/14/22 13:24	07/16/22 10:20	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		07/14/22 13:24	07/16/22 10:20	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		07/14/22 13:24	07/16/22 10:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			07/14/22 13:24	07/16/22 10:20	1

Eurofins Carlsbad

Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-2536-2

07/13/22 11:07

Lab Sample ID: 890-2536-3

Matrix: Solid

Client: Ensolum

Job ID: 890-2536-1 Project/Site: PLU 442 443 Battery SDG: 03E1558067

Client Sample ID: BH01A

Date Collected: 07/11/22 09:05 Date Received: 07/11/22 15:18

Sample Depth: 1'

Method: 8021B - Volatile Organic Compounds	(GC) (Continued)
Method. 002 1D - Volatile Organic Compounds	(OO) (Oolillillided)

Surrogate	%Recovery Qua	ualifier Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	100	70 - 130	07/14/22 13:24	07/16/22 10:20	1

Method: To	tal BTFX - Tot	tal BTEX Calculation	n

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			07/18/22 13:45	1

Mothod: 8015 NM	Diosal Range	Organice	(DRO) (GC)

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	83.2	50.0	mg/Kg			07/15/22 10:26	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/13/22 11:07	07/14/22 18:14	1
Diesel Range Organics (Over C10-C28)	83.2	*_	50.0	mg/Kg		07/13/22 11:07	07/14/22 18:14	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/13/22 11:07	07/14/22 18:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surroyate	76Kecovery	Qualifier	Lillits
1-Chlorooctane	86		70 - 130
o-Terphenyl	96		70 - 130

o-Terphenyl	96	70 - 130			07/13/22 11:07	07/14/22 18:14	1		
– Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		

Allalyte	Result	Qualifici	INL	Ollit		riepaieu	Allalyzeu	Dillac
Chloride	20.1		5.00	mg/Kg	_		07/16/22 11:39	1

Client Sample ID: BH01B Date Collected: 07/11/22 09:10

Date Received: 07/11/22 15:18

Sample Depth: 2'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/14/22 13:24	07/16/22 10:41	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/14/22 13:24	07/16/22 10:41	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/14/22 13:24	07/16/22 10:41	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		07/14/22 13:24	07/16/22 10:41	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/14/22 13:24	07/16/22 10:41	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		07/14/22 13:24	07/16/22 10:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			07/14/22 13:24	07/16/22 10:41	1
1,4-Difluorobenzene (Surr)	98		70 - 130			07/14/22 13:24	07/16/22 10:41	1

Mothod:	Total RTEY	- Total RTFY	Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00401	U	0.00401	ma/Ka			07/18/22 13:45	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			07/15/22 10:26	1

Matrix: Solid

Lab Sample ID: 890-2536-3

Client Sample Results

 Client: Ensolum
 Job ID: 890-2536-1

 Project/Site: PLU 442 443 Battery
 SDG: 03E1558067

Client Sample ID: BH01B

Date Collected: 07/11/22 09:10 Date Received: 07/11/22 15:18

Sample Depth: 2'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		07/13/22 11:07	07/14/22 18:35	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U *-	49.9	mg/Kg		07/13/22 11:07	07/14/22 18:35	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/13/22 11:07	07/14/22 18:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130			07/13/22 11:07	07/14/22 18:35	1
o-Terphenyl	93		70 - 130			07/13/22 11:07	07/14/22 18:35	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
			4.98	mg/Kg			07/16/22 11:48	

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Surrogate Summary

Client: Ensolum Job ID: 890-2536-1 Project/Site: PLU 442 443 Battery SDG: 03E1558067

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-16752-A-2-C MS	Matrix Spike	107	99	
880-16752-A-2-D MSD	Matrix Spike Duplicate	105	101	
890-2536-1	BH01	122	99	
890-2536-2	BH01A	107	100	
890-2536-3	BH01B	112	98	
_CS 880-29759/1-A	Lab Control Sample	110	90	
_CSD 880-29759/2-A	Lab Control Sample Dup	105	93	
MB 880-29759/5-A	Method Blank	96	97	
MB 880-29770/5-A	Method Blank	97	96	
Surrogate Legend				

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
80-16861-A-1-B MS	Matrix Spike	89	83	
80-16861-A-1-C MSD	Matrix Spike Duplicate	81	73	
90-2536-1	BH01	83	95	
90-2536-2	BH01A	86	96	
90-2536-3	BH01B	85	93	
CS 880-29652/2-A	Lab Control Sample	120	102	
CSD 880-29652/3-A	Lab Control Sample Dup	124	108	
1B 880-29652/1-A	Method Blank	86	95	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum

Job ID: 890-2536-1

SDG: 03E1558067

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-29759/5-A

Lab Sample ID: LCS 880-29759/1-A

Matrix: Solid

Analysis Batch: 29845

Project/Site: PLU 442 443 Battery

Matrix: Solid Analysis Batch: 29845 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 29759

	мв	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/14/22 13:24	07/16/22 02:14	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/14/22 13:24	07/16/22 02:14	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/14/22 13:24	07/16/22 02:14	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/14/22 13:24	07/16/22 02:14	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/14/22 13:24	07/16/22 02:14	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/14/22 13:24	07/16/22 02:14	1

MB MB

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	_	07/14/22 13:24	07/16/22 02:14	1
1,4-Difluorobenzene (Surr)	97		70 - 130		07/14/22 13:24	07/16/22 02:14	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 29759

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.07297 mg/Kg 73 70 - 130 Toluene 0.100 0.08701 mg/Kg 87 70 - 130 0.100 0.08425 Ethylbenzene mg/Kg 84 70 - 130 0.200 0.1807 70 - 130 m-Xylene & p-Xylene mg/Kg 90 0.100 0.09822 70 - 130 o-Xylene mg/Kg

LCS LCS

Surrogate	%Recovery (Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 29845

Lab Sample ID: LCSD 880-29759/2-A

Prep Type: Total/NA Prep Batch: 29759

	Spike	LCOD	LCSD				70Rec		KFD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.08688		mg/Kg		87	70 - 130	17	35	
Toluene	0.100	0.08609		mg/Kg		86	70 - 130	1	35	
Ethylbenzene	0.100	0.08616		mg/Kg		86	70 - 130	2	35	
m-Xylene & p-Xylene	0.200	0.1801		mg/Kg		90	70 - 130	0	35	
o-Xylene	0.100	0.09676		mg/Kg		97	70 - 130	1	35	

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: 880-16752-A-2-C MS

Matrix: Solid

Analysis Batch: 29845

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

Prep Batch: 29759

١		Sample	Sample	Spike	MS	MS				%Rec	
	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
	Benzene	<0.00199	U	0.100	0.09058		mg/Kg	_	90	70 - 130	
ı	Toluene	< 0.00199	U	0.100	0.08763		mg/Kg		87	70 - 130	

QC Sample Results

Client: Ensolum Job ID: 890-2536-1 Project/Site: PLU 442 443 Battery SDG: 03E1558067

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

Lab Sample ID: 880-16752-A-2-C MS

Lab Sample ID: 880-16752-A-2-D MSD

Matrix: Solid

Analysis Batch: 29845

Client	Sample	ID:	Matrix	Spike
	_		_	

Prep Type: Total/NA Prep Batch: 29759

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Ethylbenzene <0.00199 U 0.100 0.08749 87 70 - 130 mg/Kg m-Xylene & p-Xylene <0.00398 U 0.200 0.1846 mg/Kg 92 70 - 130 <0.00199 U 0.100 0.1009 o-Xylene mg/Kg 101 70 - 130

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	107	70 - 130
1,4-Difluorobenzene (Surr)	99	70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 29759

Analysis Batch: 29845

Matrix: Solid

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U	0.0998	0.1046		mg/Kg		105	70 - 130	14	35
Toluene	<0.00199	U	0.0998	0.1012		mg/Kg		101	70 - 130	14	35
Ethylbenzene	< 0.00199	U	0.0998	0.09569		mg/Kg		96	70 - 130	9	35
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1992		mg/Kg		100	70 - 130	8	35
o-Xylene	<0.00199	U	0.0998	0.1064		mg/Kg		107	70 - 130	5	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: MB 880-29770/5-A

Matrix: Solid

Analysis Batch: 29845

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

Prep Batch: 29770

MB MB

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/14/22 16:20	07/15/22 14:37	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/14/22 16:20	07/15/22 14:37	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/14/22 16:20	07/15/22 14:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/14/22 16:20	07/15/22 14:37	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/14/22 16:20	07/15/22 14:37	1
Xylenes, Total	< 0.00400	U	0.00400	mg/Kg		07/14/22 16:20	07/15/22 14:37	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	07/14/22 16:20	07/15/22 14:37	1
1,4-Difluorobenzene (Surr)	96		70 - 130	07/14/22 16:20	07/15/22 14:37	1

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

Lab Sample ID: MB 880-29652/1-A

Matrix: Solid

Analysis Batch: 29696

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 29652

мв мв Result Qualifier RL Unit Prepared Analyzed <50.0 U 50.0 mg/Kg 07/13/22 11:06 07/14/22 11:11 Gasoline Range Organics

(GRO)-C6-C10

Client: Ensolum

Job ID: 890-2536-1 Project/Site: PLU 442 443 Battery

SDG: 03E1558067

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

Lab Sample ID: MB 880-29652/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 29696 Prep Batch: 29652 MB MB

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/13/22 11:06	07/14/22 11:11	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/13/22 11:06	07/14/22 11:11	1
	МВ	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130			07/13/22 11:06	07/14/22 11:11	1

95 70 - 130 07/13/22 11:06 07/14/22 11:11 o-Terphenyl Lab Sample ID: LCS 880-29652/2-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA Analysis Batch: 29696 Prep Batch: 29652 LCS LCS Spike Analyte Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics 1000 1173 117 70 - 130 mg/Kg (GRO)-C6-C10

(GNO)-00-010								
Diesel Range Organics (Over			1000	1102	mg/Kg	110	70 - 130	
C10-C28)								
	LCS	LCS						
Surrogate	%Recovery	Qualifier	Limits					
1-Chlorooctane	120		70 - 130					

70 - 130

Lab Sample ID: LCSD 880-29652/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 29696

o-Terphenyl

Spike LCSD LCSD %Rec **RPD** Added Result Qualifier Limits RPD Limit Analyte Unit D %Rec Gasoline Range Organics 1000 1173 117 70 - 130 0 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1142 mg/Kg 114 70 - 130 4 20 C10-C28)

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	124		70 - 130
o-Terphenyl	108		70 - 130

102

Lab Sample ID: 880-16861-A-1-B MS Client Sample ID: Matrix Spike **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 29696

MS MS %Rec Sample Sample Spike Result Qualifier Added Result Qualifier %Rec Analyte Unit Limits 996 70 - 130 Gasoline Range Organics 53.9 1119 107 mg/Kg (GRO)-C6-C10 833 *- F1 996 Diesel Range Organics (Over 1277 F1 mg/Kg 45 70 - 130 C10-C28)

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	89		70 - 130
o-Terphenyl	83		70 - 130

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Prep Batch: 29652

Prep Batch: 29652

Client: Ensolum Job ID: 890-2536-1 Project/Site: PLU 442 443 Battery

SDG: 03E1558067

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

Lab Sample ID: 880-16861-A-	b Sample ID: 880-16861-A-1-C MSD Clier								lient Sample ID: Matrix Spike Duplicate					
Matrix: Solid	atrix: Solid								Prep 1	Type: To	tal/NA			
Analysis Batch: 29696	nalysis Batch: 29696								Prep	Batch:	29652			
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD			
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit			
Gasoline Range Organics	53.9		998	1024		mg/Kg		97	70 - 130	9	20			
(GRO)-C6-C10														
Diesel Range Organics (Over	833	*- F1	998	1145	F1	mg/Kg		31	70 - 130	11	20			
C10 C20)														

C10-C28)

	พรบ	พรบ			
Surrogate	%Recovery	Qualifier	Limits		
1-Chlorooctane	81		70 - 130		
o-Terphenyl	73		70 - 130		

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-29659/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 29860

мв мв Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 mg/Kg 07/16/22 09:49

Lab Sample ID: LCS 880-29659/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble Matrix: Solid**

Analysis Batch: 29860

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	263.5		mg/Kg		105	90 - 110	

Lab Sample ID: LCSD 880-29659/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 29860

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	263.3		mg/Kg	_	105	90 - 110	0	20	

Lab Sample ID: 890-2530-A-1-B MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 29860

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	36.5		248	305.7	-	ma/Ka		109	90 - 110	

Lab Sample ID: 890-2530-A-1-C MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 29860

-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	36.5		248	308.1		mg/Kg		110	90 - 110	1	20

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Prep Type: Soluble

Released to Imaging: 9/29/2022 12:08:41 PM

QC Association Summary

Client: Ensolum

Project/Site: PLU 442 443 Battery

Job ID: 890-2536-1 SDG: 03E1558067

GC VOA

Prep Batch: 29759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2536-1	BH01	Total/NA	Solid	5035	
890-2536-2	BH01A	Total/NA	Solid	5035	
890-2536-3	BH01B	Total/NA	Solid	5035	
MB 880-29759/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-29759/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-29759/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-16752-A-2-C MS	Matrix Spike	Total/NA	Solid	5035	
880-16752-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 29770

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-29770/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 29845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2536-1	BH01	Total/NA	Solid	8021B	29759
890-2536-2	BH01A	Total/NA	Solid	8021B	29759
890-2536-3	BH01B	Total/NA	Solid	8021B	29759
MB 880-29759/5-A	Method Blank	Total/NA	Solid	8021B	29759
MB 880-29770/5-A	Method Blank	Total/NA	Solid	8021B	29770
LCS 880-29759/1-A	Lab Control Sample	Total/NA	Solid	8021B	29759
LCSD 880-29759/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	29759
880-16752-A-2-C MS	Matrix Spike	Total/NA	Solid	8021B	29759
880-16752-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	29759

Analysis Batch: 29958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2536-1	BH01	Total/NA	Solid	Total BTEX	
890-2536-2	BH01A	Total/NA	Solid	Total BTEX	
890-2536-3	BH01B	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 29652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2536-1	BH01	Total/NA	Solid	8015NM Prep	
890-2536-2	BH01A	Total/NA	Solid	8015NM Prep	
890-2536-3	BH01B	Total/NA	Solid	8015NM Prep	
MB 880-29652/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-29652/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-29652/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-16861-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-16861-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 29696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2536-1	BH01	Total/NA	Solid	8015B NM	29652
890-2536-2	BH01A	Total/NA	Solid	8015B NM	29652
890-2536-3	BH01B	Total/NA	Solid	8015B NM	29652
MB 880-29652/1-A	Method Blank	Total/NA	Solid	8015B NM	29652
LCS 880-29652/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	29652

QC Association Summary

 Client: Ensolum
 Job ID: 890-2536-1

 Project/Site: PLU 442 443 Battery
 SDG: 03E1558067

GC Semi VOA (Continued)

Analysis Batch: 29696 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-29652/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	29652
880-16861-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	29652
880-16861-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	29652

Analysis Batch: 29842

Lab Sample ID 890-2536-1	Client Sample ID BH01	Prep Type Total/NA	Matrix Solid	Method 8015 NM	Prep Batch
890-2536-2	BH01A	Total/NA	Solid	8015 NM	
890-2536-3	BH01B	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 29659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2536-1	BH01	Soluble	Solid	DI Leach	
890-2536-2	BH01A	Soluble	Solid	DI Leach	
890-2536-3	BH01B	Soluble	Solid	DI Leach	
MB 880-29659/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-29659/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-29659/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2530-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2530-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 29860

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2536-1	BH01	Soluble	Solid	300.0	29659
890-2536-2	BH01A	Soluble	Solid	300.0	29659
890-2536-3	BH01B	Soluble	Solid	300.0	29659
MB 880-29659/1-A	Method Blank	Soluble	Solid	300.0	29659
LCS 880-29659/2-A	Lab Control Sample	Soluble	Solid	300.0	29659
LCSD 880-29659/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	29659
890-2530-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	29659
890-2530-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	29659

Client: Ensolum

Project/Site: PLU 442 443 Battery

Job ID: 890-2536-1

SDG: 03E1558067

Lab Sample ID: 890-2536-1

Matrix: Solid

Client Sample ID: BH01 Date Collected: 07/11/22 09:00

Date Received: 07/11/22 15:18

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	29759	07/14/22 13:24	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29845	07/16/22 10:00	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29958	07/18/22 13:45	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29842	07/15/22 10:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	29652	07/13/22 11:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29696	07/14/22 17:54	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	29659	07/13/22 12:36	SMC	XEN MID
Soluble	Analysis	300.0		1			29860	07/16/22 11:12	CH	XEN MID

Client Sample ID: BH01A

Date Collected: 07/11/22 09:05 Date Received: 07/11/22 15:18

Lab Sample ID: 890-2536-2

Matrix: Solid

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 29759 Total/NA Prep 4.97 g 5 mL 07/14/22 13:24 MR XEN MID 8021B Total/NA 5 mL 07/16/22 10:20 XEN MID Analysis 1 5 mL 29845 MR Total/NA Total BTEX 29958 07/18/22 13:45 XEN MID Analysis 1 SM Total/NA Analysis 8015 NM 29842 07/15/22 10:26 XEN MID Total/NA 8015NM Prep 29652 XEN MID Prep 10.01 g 07/13/22 11:07 DM 10 mL Total/NA Analysis 8015B NM 29696 07/14/22 18:14 AJ XEN MID Soluble SMC XEN MID Leach DI Leach 5 g 50 mL 29659 07/13/22 12:36 Soluble Analysis 300.0 29860 07/16/22 11:39 CH XEN MID

Client Sample ID: BH01B

Date Collected: 07/11/22 09:10 Date Received: 07/11/22 15:18

Lab Sample ID: 890-2536-3

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	29759	07/14/22 13:24	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29845	07/16/22 10:41	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29958	07/18/22 13:45	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29842	07/15/22 10:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	29652	07/13/22 11:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29696	07/14/22 18:35	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	29659	07/13/22 12:36	SMC	XEN MID
Soluble	Analysis	300.0		1			29860	07/16/22 11:48	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-2536-1 Project/Site: PLU 442 443 Battery

SDG: 03E1558067

Laboratory: Eurofins Midland

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

Authority	Pr	rogram	Identification Number	Expiration Date
Texas	NI	ELAP	T104704400-22-24	06-30-23
The following analytes the agency does not of	. ,	ut 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	
Total BTEX		Solid	Total BTEX	

Method Summary

Client: Ensolum

Project/Site: PLU 442 443 Battery

Job ID: 890-2536-1

SDG: 03E1558067

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

Protocol References:

ASTM = ASTM International

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Carlsbad

Released to Imaging: 9/29/2022 12:08:41 PM

Sample Summary

Client: Ensolum

Project/Site: PLU 442 443 Battery

Job ID: 890-2536-1

SDG: 03E1558067

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	
890-2536-1	BH01	Solid	07/11/22 09:00	07/11/22 15:18	0
890-2536-2	BH01A	Solid	07/11/22 09:05	07/11/22 15:18	1'
890-2536-3	BH01B	Solid	07/11/22 09:10	07/11/22 15:18	2'

Circle Method(s)

eurofins Environment lesting

Chain of Custody

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

Work Order No:

roject Manager: Ben Belill				Bill to: (if different)		Garrett Green	Green		Work Order	Work Order Comments	
	LLC			Company Name:		XTO En	XTO Energy, Inc.	7	Program: UST/PST ☐PRP ☐Brownfleids ☐RRC		Superfund
	3122 National parks Hwy			Address:		3104 E.	3104 E. Green Street		State of Project:		
e ZIP:	Carlsbad, NM 88220			City, State ZIP:		Carlsba	Carlsbad, NM 88220		Reporting: Level III PST/UST TRRP]PST/UST □TRRP □	Level IV
9898540852	352		Email:	Email: bbelill@ensolum.com	lum.com				Deliverables: EDD A	ADaPT Other:	
roject Name: PLI	PLU 442 443 Battery	ery	Turn	Turn Around				ANALYSIS REQU	JEST	Preservative Codes	Codes
ä	03E1558067		Routine	Rush	Pres.					None: NO D	DI Water: H ₂ O
roject Location: EDI	EDDY COUNTY, NM		Due Date:							Cool: Cool M	MeOH: Me
	Conner Shore		TAT starts the	TAT starts the day received by							HNO3: HN
			the lab, if rece	the lab, if received by 4:30pm	_			_		H ₂ SO ₄ : H ₂ N	NaOH: Na
AMPLE RECEIPT Te	Temp Blank:	Res) No	Wet Ice:	No No	ete	.0)	-			H ₃ PO ₄ : HP	
*		Thermometer ID:	Ď	DM 80	ram	300				NaHSO ₄ : NABIS	
ooler Custody Seals: Yes	No MIA	Correction Factor:	tor:	-0.2	Pa	PA:				Na ₂ S ₂ O ₃ : NaSO ₃	
	No V N/A	Temperature Reading:	Reading:	5,2		S (E				Zn Acetate+NaOH: Zn	Zn
		Corrected Temperature:	perature:	5.0		IDE		890-2536 Chain of Custody		NaOH+Ascorbic Acid: SAPC	d: SAPC
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth Grab/	Cont	CHLOR	TPH (80 BTEX (Sample Comments	ments
BH01	S	7/11/2022	900	0.5' Grab/	1	×	Н			Cost Center: 1081181001	B1181001
BH01A		7/11/2022	905	1' Grab/	1	×	×				
BH01B		7/11/2022	910	2' Grab/	0/ 1	×	×				
	_									INCIDENT NUMBER:	JMBER:
	_	1	\							NAPP2214734717	34717
\											
2	\										
10											
10											
Total 200.7 / 6010 200.	200.8 / 6020:	84	8RCRA 13PPM	PM Texas 11	≥	Sb As	As Ba Be B		K Se A	SiO2 Na Sr Tl Sn U V Z	Zn
ircle Method(s) and Metal(s) to be analyzed) to be analyze	a.	TCLP / S	TCLP / SPLP 6010: 8RCRA	н	Sb As	Ba Be	Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni	Se Ag TI U Hg: 16	Hg: 1631 / 245.1 / 7470 / 7471	71
nature of this document and	relinquishment of	amples constitu	utes a valid pur	chase order from	client con	npany to	Eurofins Xe	slice: 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	signs standard terms and conditions		
Xenco. A minimum charge o	of \$85.00 will be ap	olied to each pro	oject and a cha	ge of \$5 for each	sample si	ubmitted :	to Eurofins	Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiate	be enforced unless previously negotiated	d.	
Relinquished by: (Signature)	re)	Received	Received by: (Signature)	ire)		Date/Time	ime	Relinquished by: (Signature)	e) Received by: (Signature)		Date/Time
V		8	0~	111	1-/	1	1000	*			

Sampler's Name: PO #:

Project Number:

roject Name:

Phone:

City, State ZIP:

Project Manager:

Company Name:

SAMPLE REC

Samples Received

Sample Custody S Cooler Custody Se

Revised Date: 08/25/2020 Rev. 2020.2

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220 Phone. 575-988-3199 Fax 575-988-3199

Chain of Custody Record

Client Information (Sub Contract Lab)				Kran	Kramer Jessica	ssica	_					Call I	ac	(e)oki filir	(8)			20 5	890-837 1	77						
	Phone			E-Mail	E-Mail	amer	met e	To l		3		State of Origin	of Origi	3 5				0 0 0	Page	Page						
Company: Eurofins Environment Testing South Centr					Accreditations Required (See note): NELAP - Texas	itations P - T	Requi	red (Se	e note		-	ſ			- 1			g G	Job #	Job #:				l		
Address 1211 W Florida Ave	Due Date Requested 7/15/2022					- [Anal	lvsis		Requested	a		- 1		- 1	20 2	eser	vatio	Preservation Codes	es l				_
City Midland	TAT Requested (days)	ys)			,	en editorio ed											_	C ₪ >		HCL NaOH Zn Acetate	TO .	0 Z 3	None AsNaO2	Š .		
State Zip TX 79701					en fluorities	TPH												пυ		Nitric Acid	- 7		Na20	Na204S Na2S03		
Phone 432-704-5440(Tel)	PO #:).	O) Full		le										. ი ¬		MeOH Amchlor	Ē		H2SO4	Dodec	Nazozoo H2SO4 TSP Dodecahydrate	<u> </u>
Email	WO#				700	p (MO			EX									I	_	ASCOMIC ACID ce DI Water	ACIO			one A	!	
Project Name: PLU 442 443 Battery	Project# 89000093				2000 mill	S_Pre) BT		*							Sh. American		EDTA EDA		u ≺ ≶		a ₹	5	
	SSOW#				ammunusa	16NM_			_								interference Maria	Sec. 1885	Other:			ı	Š	outer (apocal)	197	
			Sample	Matrix	CHYPON ASSESSE	NM/80	Calc										Alice Street	ider o								
Cample Identification Office ID (194 ID)	,	Ψ.	Type (C=comp,	(W=water S=solid, O=waste/oll,	eld Fill erform	16MOD	16MOD	0_ORG	21B/50: tal_BTE								tal Nu	Lan IX U								
	V	X	Preservation Code:	كأتديين	W. W. 10			-4			1	, and	1	4	-	4	.	¥	1.) Spec	101		Cilo	Special ilistructions/Note) e	
BH01 (890-2536-1)	7/11/22	09 00 Mountain		Solid		×	×	×	×							_	_			disvelor con	S. arriando					
BH01A (890-2536-2)	7/11/22	09 05 Mountain		Solid		×	×	×	×	$\stackrel{\sim}{\dashv}$					\dashv		A	-								
BH01B (890-2536-3)	7/11/22	09 10 Mountain		Solid		×	×	×	×								ريختن									
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Note Since laboratory accreditations are subject to change Eurofins Environment Testing South Central LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed. The samples must be shipped back to the Eurofins Environment Testing South Central LLC alternation intractions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central LLC attention immediately. If all requested accreditations are current to date return the stoned Chain of Custody affecting to acid complicance in Eurofins Environment Testing South Central LLC attention immediately. If all requested accreditations are current to date return the stoned Chain of Custody affecting to acid complicance in Eurofins Environment Testing South Central LLC attention immediately. If all requested accreditations are current to date return the stoned Chain of Custody affecting to acid complicance in Eurofins Environment Testing South Central LLC attention immediately.	Testing South Centra ve for analysis/tests/r ral LLC attention imr	LLC places th natrix being and	e ownership of alyzed the sam	f method anal	yte & ac shipped	credita back to	ation co	mplian urofins	ce upo Enviro	n out su	bcontr Testing	act lab South	oratorie Centra	al LC	is san	nple s	or oth	nt is f	forwar	ded u	nder c	hain- rovide	of-cus	tody ly cha	f the iges to	
Possible Hazard Identification					Sa	mple	Sample Disposal (A fee	osal (A fe	may	may be assessed if samples are retained longer	sses	ed if	sam	ples	are	retai	ned	logo	ert	than 1 month)	l g	nth)			
	Drimon, Dollars	No Donk o			+_	R	Return To Client	70 CI	ent			Disposal By Lab	al By	Lab		Г	Ą	chive	Archive For	l `			Months	ths		L
Oner (specify)	Primary Deliverable Rank. 2	ble Rank. 2			Sp	ecial	Special Instructions/QC R	ctions	QC.	Requi	equirements	ıs														
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Environment Testing America

💸 eurofins

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-2536-1 SDG Number: 03E1558067

Login Number: 2536 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.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2536-1 SDG Number: 03E1558067

Login Number: 2536 **List Source: Eurofins Midland** List Number: 2 List Creation: 07/13/22 11:52 AM

Creator: Kramer, Jessica

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.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	N/A	

<6mm (1/4").



APPENDIX E

NMOCD Notifications

Green, Garrett J

From: Green, Garrett J

Sent: Tuesday, May 17, 2022 9:27 AM

To: ocd.enviro@state.nm.us; Bratcher, Mike, EMNRD; Hamlet, Robert, EMNRD

Cc: DelawareSpills /SM

Subject: XTO - 24 Hour Notification - PLU 442/443 Battery - Released on 5/15/22

All,

This is notification of a release greater than 25 barrels that occurred Sunday at the PLU 442/443 Battery near the GPS coordinates given below. All of the fluids remained in containment and all standing fluids were recovered by vacuum truck. Details will be provided with a form C-141. Please contact us with any questions or concerns.

GPS: 32.19297,-103.91887

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

Collins, Melanie

From: Hamlet, Robert, EMNRD < Robert.Hamlet@state.nm.us>

Sent: Tuesday, May 17, 2022 4:01 PM

To: Green, Garrett J

Cc: DelawareSpills /SM; Bratcher, Mike, EMNRD; Nobui, Jennifer, EMNRD; Harimon, Jocelyn,

EMNRD

Subject: RE: [EXTERNAL] XTO - 24 Hour Notification - PLU 442/443 Battery - Released on

5/15/22

Garrett,

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Robert Hamlet • Environmental Specialist - Advanced

Environmental Bureau
EMNRD - Oil Conservation Division
811 S. First Street | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
http://www.emnrd.state.nm.us/OCD/



From: Green, Garrett J <garrett.green@exxonmobil.com>

Sent: Tuesday, May 17, 2022 9:27 AM

To: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Hamlet,

Robert, EMNRD < Robert. Hamlet@state.nm.us>

Cc: DelawareSpills /SM <DelawareSpills@exxonmobil.com>

Subject: [EXTERNAL] XTO - 24 Hour Notification - PLU 442/443 Battery - Released on 5/15/22

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

All,

This is notification of a release greater than 25 barrels that occurred Sunday at the PLU 442/443 Battery near the GPS coordinates given below. All of the fluids remained in containment and all standing fluids were recovered by vacuum truck. Details will be provided with a form C-141. Please contact us with any questions or concerns.

GPS: 32.19297,-103.91887

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

2

From: Green, Garrett J

To: ocd.enviro@state.nm.us; Bratcher, Mike, EMNRD; <a href="mailto:Hamlet, <a href="mailto:Robert, EMNRD; <a href="mailto:Hamlet, <a href="mailto:Board, <a href="mailto:Hamlet, <a href="mailto:Hamlet</

 Cc:
 Pennington, Shelby G; Tacoma Morrissey: DelawareSpills /SM

 Subject:
 XTO - Sampling Notification (week of 7/11/22 - 7/15/22)

Date: Friday, July 8, 2022 1:21:32 PM

[**EXTERNAL EMAIL**]

All,

XTO plans to complete final sampling activities at the following sites the week of July 11, 2022.

Monday, July 11

- PLU 442, 443 / nAPP2214734717

Wednesday, July 13

PLU 15 TWR Battery / nAPP2205641685, nAPP2205638843, nAPP2207746719

Thursday, July 14

PLU 15 TWR Battery / nAPP2205641685, nAPP2205638843, nAPP2207746719

Friday, July 15

- PLU 15 TWR Battery / nAPP2205641685, nAPP2205638843, nAPP2207746719

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 133508

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	133508
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	9/29/2022