



April 23, 2026

New Mexico Oil Conservation Division

New Mexico Energy, Minerals, and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

**Re: Closure Request Addendum
Warren Unit Battery 5
Incident Number nAPP2516452330
Lea County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Hilcorp Energy Company (Hilcorp), has prepared the following *Closure Request Addendum* for the Warren Unit Battery 5 (Site; Figure 1). This *Closure Request Addendum* summarizes additional excavation activities conducted at the Site in response to the New Mexico Oil Conservation Division (NMOCD) denial of a previously submitted *Closure Request* dated January 9, 2026. In the denial, NMOCD expressed concern that additional remediation efforts were warranted. Based on the supplemental activities described below, Hilcorp is requesting no further remedial action for Incident Number nAPP2516452330.

BACKGROUND

The Site is located in Unit E, Section 27, Township 20 South, Range 38 East, in Lea County, New Mexico (32.54411°, -103.14279°) and is associated with oil and gas exploration and production operations on private land.

On June 13, 2025, equipment failure on a flowline valve resulted in the release of approximately 61 barrels (bbls) of crude oil into the earthen berm containment. Upon discovery, the line was immediately shut-in, repaired, and a vacuum truck was immediately dispatched to the Site to recover free-standing fluids. Approximately 60 bbls of released crude oil were recovered. Hilcorp reported the release to the NMOCD via a *Notification of Release* (NOR) on June 13, 2025, and subsequently submitted a *Release Notification Form C-141* (Form C-141) on June 30, 2025. The release was assigned Incident Number nAPP2516452330.

As documented in the *Closure Request* dated January 9, 2026, impacted soil was excavated from the release area as indicated by confirmation soil sample laboratory analytical results. Following removal of impacted soil, Ensolum personnel collected 5-point composite soil samples representing no more than 200 square feet from the excavation. Approximately 76 cubic yards of impacted soil was transported and properly disposed of at the Sundance Disposal in Eunice, New Mexico.

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The *Closure Request* was submitted on January 12, 2026, to the NMOCD. On February 6, 2026, NMOCD denied the *Closure Request* for Incident Number nAPP2516452330 for the reasons outlined below. Ensolum has provided additional details and clarifications in response to each item.

- *SS02A collected on 10/20/25, had GRO + DRO = 1,756 at 1' depth. According to Figure 3 this area was only excavated to .5'. Continue excavation in this area and collect confirmation samples representing no more than 200 square feet to confirm impacts have been removed.*
 - o Please see additional Site details in the Additional Excavation portion below.
- *SW06 on 12/2/25 had TPH of 10,886 mg/kg. How much did you further the excavation prior to collecting SW06A? Photographic documentation showing this area of the excavation should be included. Submit an updated report to the OCD by 5/7/26.*
 - o Following NMOCD's concern regarding the elevated TPH concentration reported for sidewall sample SW06, additional material was excavated from along the sidewall of the original sample location. After this supplemental excavation, sidewall sample SW06A was collected, as shown in Figure 3. The 5-point composite sidewall sample SW06A represents the updated sidewall conditions remaining after the expanded excavation and serves to confirm that impacts within this portion of the release extent have been addressed. Photographic documentation of site progress within the sample vicinity in question can be referenced in photographs 13 through 16 in Appendix B.

The report below reiterates the remediation activities previously included in the *Closure Request* and describes remediation efforts and additional soil sampling activities in response to the NMOCD.

SITE CHARACTERIZATION

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization are summarized below and detailed in the NMOCD permitting portal Form C-141 Site Characterization section.

Depth to groundwater at the Site is greater than 55 feet below ground surface (bgs) based on a recent soil boring drilled for determination of regional groundwater. On May 12, 2021, a soil boring drilled by ConocoPhillips was completed approximately 780 feet southwest of the Site and was subsequently named DTW-1. Soil boring DTW-1 was drilled to a depth of 55 feet bgs. A field geologist logged and described soils continuously. No moisture or groundwater was encountered during drilling activities. The borehole was left open for over 72 hours to allow for potential slow infill of groundwater. After the 72-hour waiting period without observing groundwater, it was confirmed groundwater beneath the Site is greater than 55 feet bgs. The borehole was properly abandoned with drill cuttings and hydrated bentonite chips. The Well Log is included in Appendix A. All wells used to determine depth to groundwater are depicted on Figure 1. Any additional depth to groundwater data can be referenced in *Remediation Plan* (Incident Number nAPP2131930937), approved by the NMOCD on May 31, 2022.

The site is more than 300 feet from a continuously flowing watercourse or any other significant watercourse. The Site is greater than 200 feet from any 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 from any 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). Potential Site receptors are identified on Figure 1.

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Based on the results of the Site Characterization, the following NMOCD Table I 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: 10,000 mg/kg

SITE ASSESSMENT ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On June 17, 2025, Ensolum evaluated the release extent based on visual observations and information provided by Hilcorp. Nine assessment soil samples (SS01 through SS09) were collected within the release extent from a depth of approximately 0.5 feet bgs to assess for the presence or absence of impacted soil. The assessment soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. The release extent and assessment soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was conducted during the Site visit, and a photographic log is included in Appendix B.

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 under strict chain-of-custody procedures to Eurofins Environment Testing (Eurofins) in Carlsbad, New Mexico, for analysis of the following chemicals of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH- oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Laboratory analytical results for assessment soil samples SS01 through SS04, collected within the release extent, indicated that BTEX and/or TPH concentrations exceeded the Site Closure Criteria. Laboratory analytical results for assessment soil samples SS05 through SS09, collected around the release extent, indicated that all COC concentrations are compliant with the Site Closure Criteria and successfully defined the lateral extent of the release. Based on visible staining in the release area and laboratory analytical results for the assessment soil samples SS01 through SS04, further remediation activities were warranted.

On October 20, 2025, Ensolum returned to the Site to conduct additional delineation activities. Ensolum collected soil samples SS01A through SS04A from a depth of 1-foot (bgs) to assess the vertical extent of the release. The soil samples were field screened and logged as described above. Laboratory analytical results for soil samples SS01A through SS03A, collected at 1-foot bgs within the release extent, indicated that all COCs were compliant with the Site Closure Criteria. Soil sample SS04A, collected at 1-foot bgs within the release extent, indicated that TPH concentrations exceeded Site Closure Criteria. Based on visible staining and laboratory analytical results for SS04A, additional remediation activities were warranted.

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EXCAVATION SOIL SAMPLING ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

Between November 13, 2025, and December 5, 2025, Ensolum personnel were at the Site to oversee excavation activities based on visible staining and laboratory analytical results. Excavation activities were performed via hydro vacuum truck, hand excavation, heavy equipment, and transport vehicles. To direct excavation activities, soil was field screened for VOCs and chloride as previously described. The excavation was completed to depths ranging from 0.5 to 2 feet bgs. Photographic documentation of the excavation activities is included in Appendix B.

Following removal of impacted soil, 5-point composite soil samples were collected every 200 square feet from the floor and sidewalls of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite floor samples FS01 through FS09 were collected from the floor of the excavation from depth ranging from 0.5 feet to 2 feet bgs. Composite sidewall samples SW01 through SW09 were collected from the sidewalls of the excavation at depths ranging from ground surface to 2 feet bgs. The excavation soil samples were handled and analyzed as previously described. The excavation extent and excavation soil sample locations were mapped utilizing a handheld GPS unit and are depicted in Figure 3.

Laboratory analytical results for excavation floor samples FS01 through FS09, and excavation sidewall samples SW01 through SW05, and SW07 through SW09 indicated all COC concentrations were compliant with the Site Closure Criteria. Laboratory analytical results for SW06 indicated that TPH exceeded Site Closure Criteria and required additional excavation. Additional soil was excavated in the vicinity of SW06 and resampled at depths ranging from ground surface to 0.5 feet. Laboratory analytical results for SW06A, indicated that all COC concentrations were compliant with the Site Closure Criteria.

On December 3, 2025, additional delineation samples, SS05A and SS08A were recollected at a depth of 0.5 feet bgs, successfully showing the release is delineated to the most stringent standards, successfully defining the lateral extent of the release.

The excavation area measured approximately 1,805 square feet in areal size. A total of approximately 76 cubic yards of impacted soil was removed, transported, and properly disposed of at Sundance Services Facility in Eunice, New Mexico. After completion of confirmation sampling, the excavation was secured with fencing. Laboratory analytical results are summarized in Table 1, and the complete laboratory analytical reports are included as Appendix C.

ADDITIONAL EXCAVATION

To address NMOCD's first concern regarding SS02A, Figure 2 shows that the sample collected on October 20, 2025, exhibited elevated GRO + DRO concentrations at 1-foot bgs, while the excavation in that area had only extended to approximately 0.5 feet bgs.

On March 2, 2026, Ensolum personnel returned to the Site to conduct additional excavation activities in the area associated with the failing soil sample, SS02A at 1-foot bgs. Following removal of impacted soil, one 5-point composite soil sample, FS09A, was collected at a depth of 1.25 feet bgs. In addition, one composite sidewall sample, SW10, was collected from the excavation sidewall adjacent to FS09A at depths ranging from ground surface to 1.25 feet bgs. The confirmation soil samples were field screened for VOCs and chloride as described above. The confirmation soil sample locations were mapped utilizing a GPS unit and are depicted on Figure 3. Photographic documentation of the sample location vicinity can be referenced in photographs 17 through 20 in Appendix B. The excavation soil samples were handled and analyzed as previously described.

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The excavation extent completed to date measured approximately 1,812 square feet and approximately 80 cubic yards of impacted soil were removed. The impacted soil was transported and properly disposed of at the Sundance Disposal Facility located in Eunice, New Mexico. The excavation will be backfilled with material purchased locally and the area was recontoured to match pre-existing Site conditions. In preparation for backfill, one representative 5-point composite soil sample (BF01) was collected from the backfill material. The sample was submitted for laboratory testing at Cardinal Laboratories on November 13, 2025, for the same COCs listed above and indicated that all COC concentrations were in compliance with the most stringent Table I Closure Criteria. The laboratory analytical report is included in Appendix C.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for the additional confirmation soil samples, FS09A and SW10, indicated all COCs were in compliance with Site Closure Criteria. The laboratory analytical results, including all soil sample data, are summarized in Table 1. The soil sample laboratory analytical reports are included in Appendix C.

CLOSURE REQUEST

Site assessment, delineation, and excavation activities were conducted at the Site to address the June 2025 release of crude oil. Laboratory analytical results for excavation soil samples collected from the final excavation extent indicated all COC concentrations were compliant with Site Closure Criteria. Based on laboratory analytical results, no further remediation was required. Hilcorp will backfill the excavation with material sourced locally and recontour the Site to match pre-existing site conditions. Backfill material was submitted for laboratory testing at Cardinal Laboratories on November 13, 2025, and indicated that all COC concentrations were in compliance with strictest Table I Closure Criteria and reclamation requirement. This laboratory analysis report is included in Appendix C.

Excavation of impacted soil has mitigated adverse effects at this Site. Depth to groundwater is confirmed to be greater than 55 feet bgs and no other sensitive receptors were identified near the release extent. Hilcorp believes these remedial actions are protective of human health, the environment, and groundwater. As such, Hilcorp respectfully requests closure for Incident Number nAPP2516452330.

If you have any questions or comments, please contact Ms. Kalei Jennings at (817) 683-2503 or kjennings@ensolum.com.

Sincerely,
Ensolum, LLC



Kara Naegeli
Staff Geologist



Kalei Jennings
Senior Managing Scientist

cc: Billy Ginn, Hilcorp

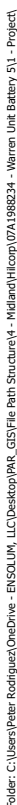
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Appendices:

Figure 1	Site Receptor Map
Figure 2	Assessment Soil Sample Locations
Figure 3	Confirmation Soil Sample Locations
Table 1	Soil Sample Analytical Results
Appendix A	Referenced Well Record
Appendix B	Photographic Log
Appendix C	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix D	NMOCD Correspondence



FIGURES



Site Receptor Map

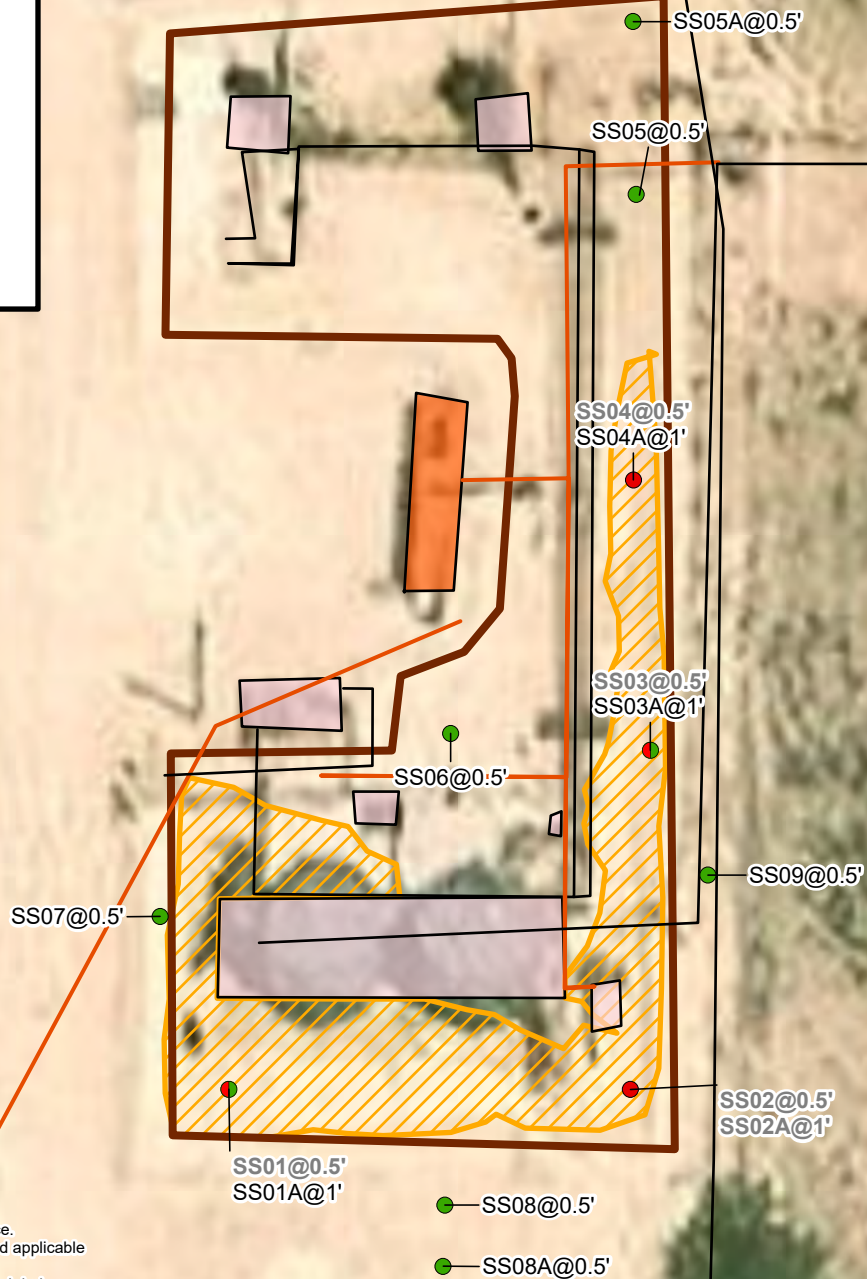
Warren Unit Battery 5
Hilcorp Energy Company
Incident Number: NAPP2516452330
Unit E, Sec 27, T20S, R38E
Lea County, New Mexico

FIGURE

1

Legend

- Delineation Soil Sample with Concentrations Previously Exceeding Closure Criteria
- Delineation Soil Sample in Compliance with Closure Criteria
- Delineation Soil Sample with Concentrations Exceeding Closure Criteria
- Electric Utility Line
- Surface Line
- Berm
- Electrical
- Infrastructure
- Release Extent



Notes:
 Sample ID @ Depth Below Ground Surface.
 Samples in **bold** indicate sample exceeded applicable Closure Criteria.
 Grey text indicate soil sample was removed during excavation activities.

0 25 50
 Feet

Sources: Environmental Systems Research Institute (ESRI)

Assessment Soil Sample Locations

Warren Unit Battery 5
 Hilcorp Energy Company
 Incident Number: NAPP2516452330
 Unit E, Sec 27, T20S, R38E
 Lea County, New Mexico

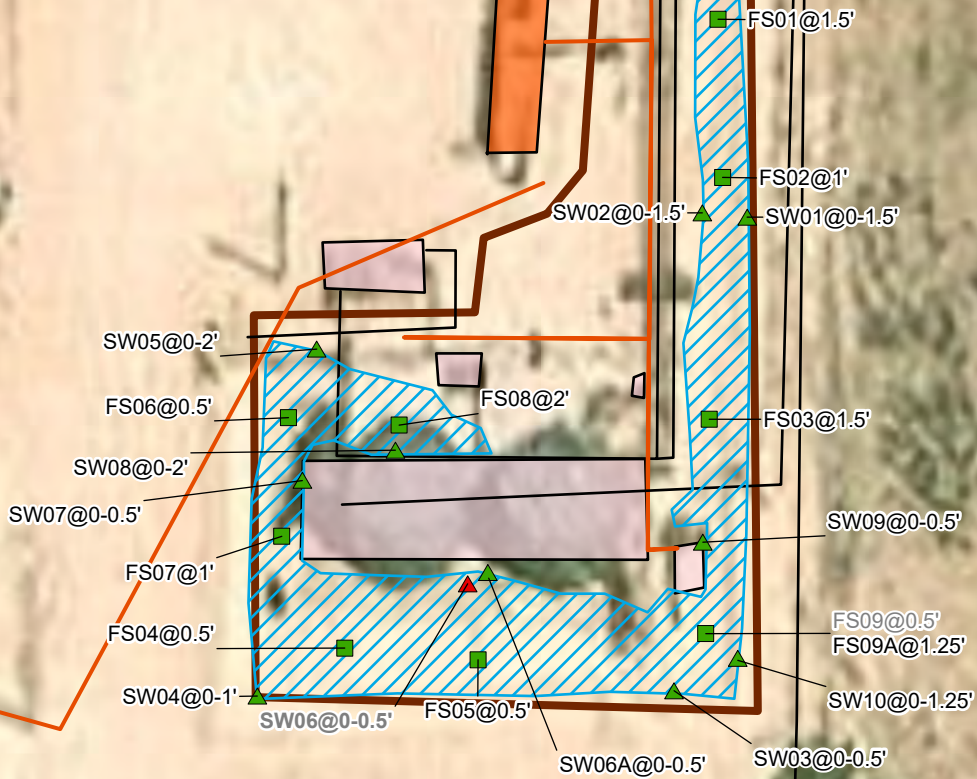
FIGURE

2



Legend

- Confirmation Floor Soil Sample in Compliance with Closure Criteria
- Confirmation Sidewall Soil Sample in Compliance with Closure Criteria
- Confirmation Sidewall Soil Sample with Concentrations Exceeding Closure Criteria
- Electric Utility Line
- Surface Line
- Berm
- Electrical
- Infrastructure
- Excavation Extent



Notes:
 Sample ID @ Depth Below Ground Surface.
 Samples in **bold** indicate sample exceeded applicable Closure Criteria.
 Grey text indicate soil sample was removed during excavation activities.

0 25 50
 Feet

Sources: Environmental Systems Research Institute (ESRI)

Confirmation Soil Sample Locations

Warren Unit Battery 5
 Hilcorp Energy Company
 Incident Number: NAPP2516452330
 Unit E, Sec 27, T20S, R38E
 Lea County, New Mexico

FIGURE

3





TABLES



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Warren Unit Battery 5 Hilcorp Energy Company Incident Number nAPP2516452330 Lea County, New Mexico										
Sample Designation	Date	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)
NMOC Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	10,000
Assessment Soil Samples										
SS01	6/17/2025	0.5	1.45	81.8	628	5,130	<249	5,758	5,758	113
SS01A	10/20/2025	1	<0.050	<0.300	<10.0	349	133	349	482	32.0
SS02	6/17/2025	0.5	<0.0994	19.8	<249	3,510	<249	3,510	3,510	1,880
SS02A	10/20/2025	1	<0.050	<0.300	15.9	1,740	454	1,756	2,210	512
SS03	6/17/2025	0.5	<0.100	2.74	<999	16,200	<999	16,200	16,200	734
SS03A	10/20/2025	1	<0.050	<0.300	<10.0	347	161	347	508	64.0
SS04	6/17/2025	0.5	0.187	25.9	<996	10,300	<996	10,300	10,300	131
SS04A	10/20/2025	1	<0.050	<0.300	<10.0	2,090	672	2,090	2,762	48.0
SS05	6/17/2025	0.5	<0.00198	<0.00396	<49.9	294	<49.9	294	294	96.7
SS05A	12/3/2024	0.5	<0.050	<0.300	<10.0	13.2	<10.0	13.2	13.2	240
SS06	6/17/2025	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	132
SS07	6/17/2025	0.5	<0.00199	<0.00398	<50.0	67.7	<50.0	67.7	67.7	263
SS08	6/17/2025	0.5	<0.00198	<0.00396	<49.7	140	<49.7	140	140	299
SS08A	12/3/2025	0.5	<0.050	<0.300	<10.0	28.8	17.9	28.8	46.7	80.0
SS09	6/17/2025	0.5	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	133
Confirmation Floor Soil Samples										
FS01	11/24/2025	1.5	<0.050	<0.300	<10.0	47.4	15.0	47.4	62.4	80.0
FS02	11/24/2025	1	<0.050	<0.300	<10.0	65.6	15.2	65.6	80.8	992
FS03	11/24/2025	1.5	<0.050	<0.300	<10.0	45.8	23.0	45.8	68.8	288
FS04	11/24/2025	0.5	<0.050	<0.300	<10.0	29.8	<10.0	29.8	29.8	16.0
FS05	11/24/2025	0.5	<0.050	<0.300	<10.0	67.2	10.7	67.2	77.9	80.0
FS06	11/24/2025	0.5	<0.050	<0.300	<10.0	66.9	14.0	66.9	80.9	32.0
FS07	11/25/2025	1	<0.050	<0.300	<10.0	20.3	10.4	20.3	30.7	<16.0
FS08	11/24/2025	2	<0.050	<0.300	<10.0	146	40.4	146	186	<16.0
FS09	11/25/2025	0.5	<0.050	<0.300	<10.0	59.0	41.8	59.0	101	256
FS09A	3/2/2026	1.25	<0.050	<0.300	<10.0	79.1	34.0	79.1	113	144
Confirmation Sidewall Soil Samples										
SW01	11/24/2025	0-1.5	<0.050	<0.300	<10.0	71.1	24.6	71.1	95.7	368
SW02	11/24/2025	0-1.5	<0.050	<0.300	<10.0	25.2	19.8	25.2	45.0	208
SW03	11/25/2025	0-0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
SW04	11/25/2025	0-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW05	11/25/2025	0-2	<0.050	<0.300	<10.0	27.2	20.9	27.2	48.1	16.0
SW06	12/2/2025	0-0.5	<0.050	0.933	45.6	9,070	1,770	9,116	10,886	<16.0
SW06A	12/5/2025	0-0.5	<0.050	<0.300	<10.0	39.0	18.5	39.0	57.5	32.0
SW07	12/3/2025	0-0.5	<0.050	0.422	24.0	728	187	752	939	32.0
SW08	12/3/2025	0-2	<0.050	<0.300	11.8	756	218	768	986	<16.0
SW09	12/3/2025	0-0.5	<0.050	<0.300	<10.0	100	61.2	100	161	32.0
SW10	3/2/2026	0-1.25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	672
Backfill Soil Sample										
BF01	11/13/2025	--	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOC: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

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 NMOC Table I Closure Criteria or reclamation standard where applicable.

Grey text represents samples that have been excavated



APPENDIX A

Referenced Well Record

212C-MD-02377		TETRA TECH		LOG OF BORING DTW-1				Page 1 of 2			
Project Name: Warren Unit 134											
Borehole Location: GPS: 32.542309°, -103.144283°						Surface Elevation: 3548'					
Borehole Number: DTW-1						Borehole Diameter (in.): 8"		Date Started: 5/12/2021		Date Finished: 5/12/2021	

DEPTH (ft)	OPERATION TYPES	SAMPLE	CHLORIDE CONCENTRATION (ppm)	VOC CONCENTRATION (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS		
												While Drilling ☒ <u>Dry</u> 24 Hours After Completion of Drilling ☒ <u>Dry</u>		
												Remarks:		
												DEPTH (ft)	WELL DIAGRAM	
5												-SP- SAND: Light brown, dry, loose, non-cemented, with no staining, with no odor.	5	
10											-SC- CLAYEY SAND: Light brown to reddish brown, dry, loose, non-cemented, with no staining, with no odor.	15		
15											-SP- SAND: Tan, dry, loose, non-cemented, with no staining, with no odor.	20		
20											-SP- SAND: Light tan, dry, loose, non-cemented, with no staining, with no odor.	25		
25											-SP- SAND: Reddish-brown, dry, loose, non-cemented, with no staining, with no odor.	30		
30													30	4" Schedule 40 PVC Casing

Sampler Types: ☒ Split Spoon ☐ Shelby ☐ Bulk Sample ☐ Grab Sample ☐ Acetate Liner ☐ Vane Shear ☐ California ☐ Test Pit	Operation Types: ☐ Auger ☐ Hollow Stem Auger ☐ Continuous Flight Auger ☐ Mud Rotary ☐ Air Rotary ☐ Direct Push ☐ Drive Casing	Notes: Surface elevations are estimated from Google Earth data.
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Logger: Adrian Garcia	Drilling Equipment: Air Rotary	Driller: Scarborough Drilling
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212C-MD-02377		TETRA TECH		LOG OF BORING DTW-1			Page 2 of 2	
Project Name: Warren Unit 134								
Borehole Location: GPS: 32.542309°, -103.144283°					Surface Elevation: 3548'			
Borehole Number: DTW-1				Borehole Diameter (in.): 8"		Date Started: 5/12/2021		Date Finished: 5/12/2021

DEPTH (ft)	OPERATION TYPES	SAMPLE	CHLORIDE CONCENTRATION (ppm) ExStik	VOC CONCENTRATION (ppm) PID	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT LL	PLASTICITY INDEX PI	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS			
												While Drilling ☒ Dry 24 Hours After Completion of Drilling ☒ Dry			
												Remarks:			
												MATERIAL DESCRIPTION	DEPTH (ft)	WELL DIAGRAM	
35													-SM- SILTY SAND: Reddish-brown, dry, loose, non-cemented, with no staining, with no odor.		0.010" Slotted Screen
40															
45															
50															
55															

Bottom of borehole at 55.0 feet.

Sampler Types: ☒ Split Spoon ☐ Shelby ☐ Bulk Sample ☐ Grab Sample ☐ Acetate Liner ☐ Vane Shear ☐ California ☐ Test Pit	Operation Types: ☐ Auger ☐ Hollow Stem Auger ☐ Continuous Flight Auger ☐ Mud Rotary ☐ Air Rotary ☐ Direct Push ☐ Drive Casing	Notes: Surface elevations are estimated from Google Earth data.
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Logger: Adrian Garcia	Drilling Equipment: Air Rotary	Driller: Scarborough Drilling
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APPENDIX B

Photographic Log



Photographic Log

Hilcorp Energy Company

Warren Unit 5 Battery

Incident ID: nAPP2516452330

49°NE (T) LAT: 32.543980 LON: -103.142638 ±16ft ▲ 3545ft



Ensolum, LLC

Warren Unit Battery 5
16 Jun 2025, 12:56:58 MDT

Photograph: 1
Description: Assessment activities
View: Northeast

Date: 6/16/2025

353°N (T) LAT: 32.543983 LON: -103.142641 ±16ft ▲ 3544ft



Ensolum, LLC

Warren Unit Battery 5
16 Jun 2025, 12:56:19 MDT

Photograph: 2
Description: Assessment activities
View: North

Date: 6/16/2025

197°S (T) LAT: 32.544332 LON: -103.142637 ±59ft ▲ 3544ft



SS04
Ensolum, LLC

Warren Unit Battery 5
17 Jun 2025, 15:44:40 MDT

Photograph: 3
Description: Assessment activities
View: South

Date: 6/17/2025

98°E (T) LAT: 32.544162 LON: -103.142807 ±6ft ▲ 3548ft



SS07
Ensolum, LLC

Warren Unit Battery 5
17 Jun 2025, 15:46:35 MDT

Photograph: 4
Description: Assessment activities
View: East

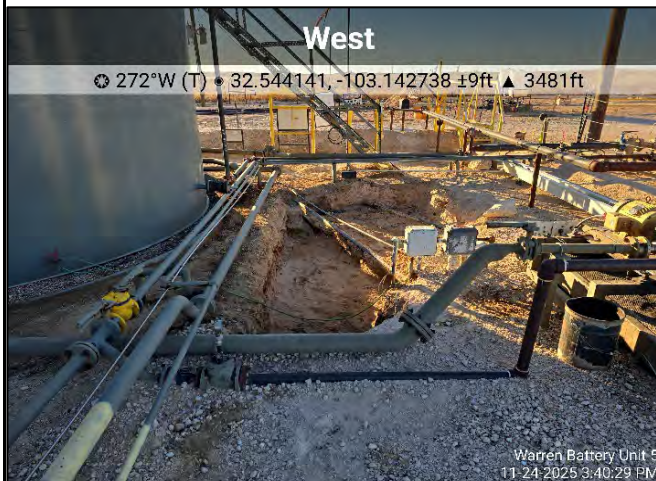
Date: 6/17/2025



Photographic Log
Hilcorp Energy Company
Warren Unit 5 Battery
Incident ID: nAPP2516452330



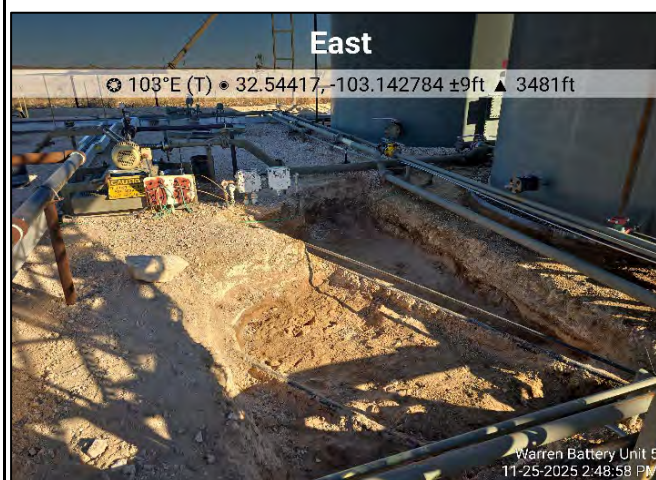
Photograph: 5 Date: 11/24/2025
Description: Excavation activities
View: Northwest



Photograph: 6 Date: 11/24/2025
Description: Excavation activities
View: West



Photograph: 7 Date: 11/24/2025
Description: Excavation activities
View: East



Photograph: 8 Date: 11/25/2025
Description: Excavation activities
View: East

**Photographic Log**

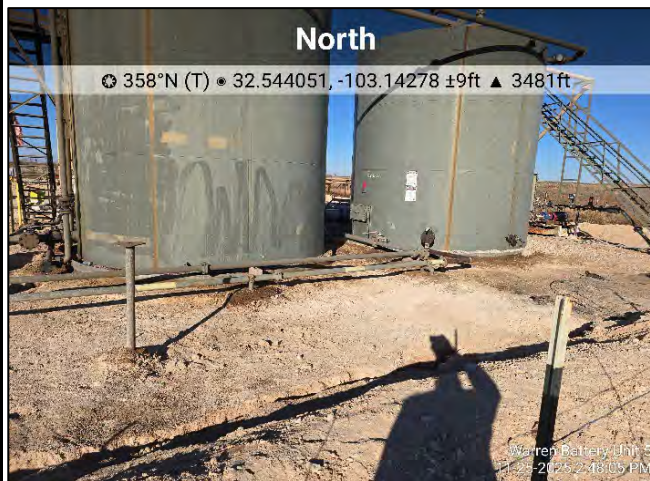
Hilcorp Energy Company

Warren Unit 5 Battery

Incident ID: nAPP2516452330



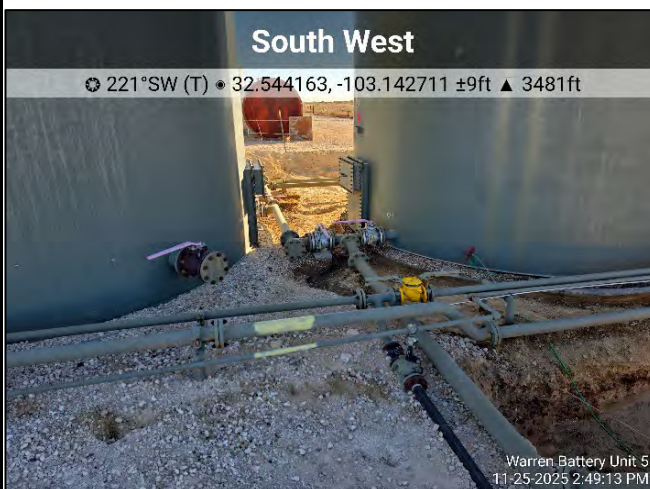
Photograph: 9 Date: 11/25/2025
 Description: Excavation activities
 View: Northwest



Photograph: 10 Date: 11/24/2025
 Description: Excavation activities
 View: North



Photograph: 11 Date: 11/25/2025
 Description: Excavation activities
 View: West



Photograph: 12 Date: 11/25/2025
 Description: Excavation activities
 View: Southwest

**Photographic Log**

Hilcorp Energy Company

Warren Unit 5 Battery

Incident ID: nAPP2516452330



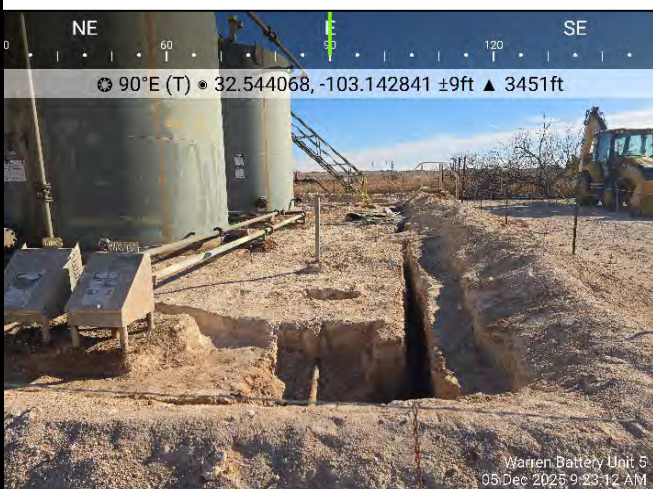
Photograph: 13 Date: 06/16/2025
 Description: Initial release near SW06
 View: Northwest



Photograph: 14 Date: 11/24/2025
 Description: Excavation activities near SW06
 View: North



Photograph: 15 Date: 11/25/2025
 Description: Excavation activities near SW06
 View: West



Photograph: 16 Date: 12/05/2025
 Description: Final excavation near SW06A
 View: East

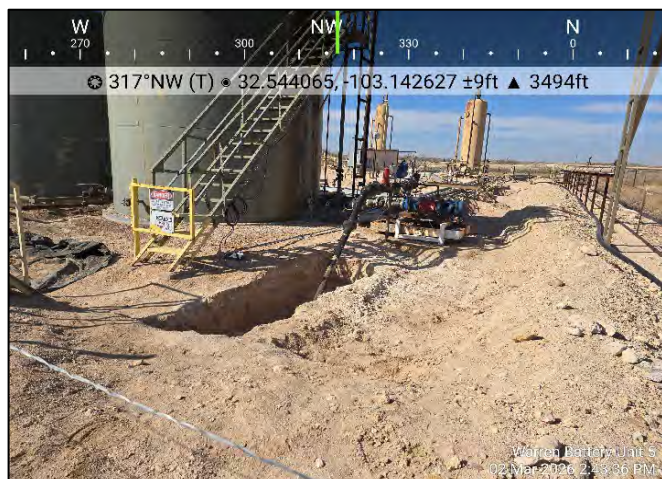


Photographic Log

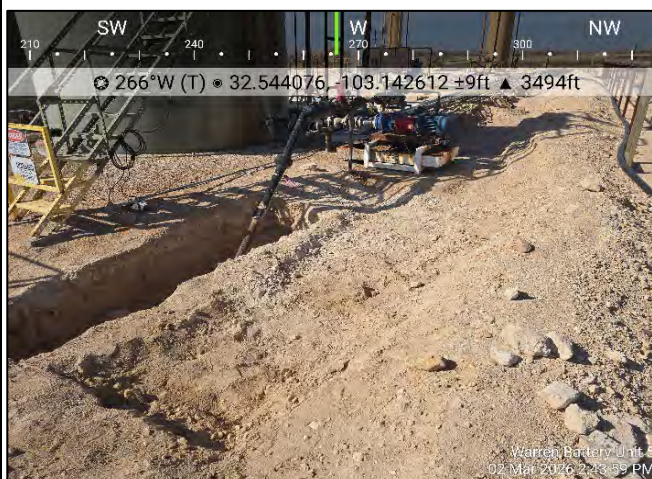
Hilcorp Energy Company

Warren Unit 5 Battery

Incident ID: nAPP2516452330



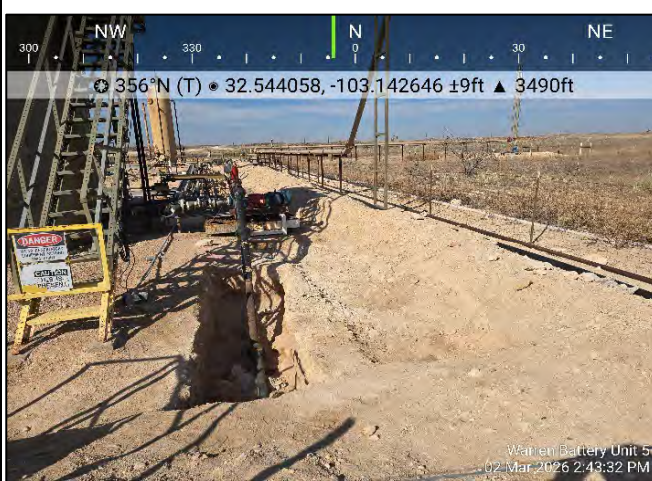
Photograph: 17 Date: 03/02/2026
Description: Excavation activities near FS09A
View: Northwest



Photograph: 18 Date: 03/02/2026
Description: Excavation activities near FS09A
View: West



Photograph: 19 Date: 03/02/2026
Description: Excavation activities near SW10
View: South



Photograph: 20 Date: 03/02/2026
Description: Final excavation near FS09A and SW10
View: North



APPENDIX C

Laboratory Analytical Reports & Chain-of-Custody Documentation



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Kalei Jennings
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 6/24/2025 11:04:42 AM Revision 1

JOB DESCRIPTION

WARREN UNIT BATTERY 5
07A1988234

JOB NUMBER

890-8297-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

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

Authorization



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

Generated
6/24/2025 11:04:42 AM
Revision 1

Client: Ensolum
Project/Site: WARREN UNIT BATTERY 5

Laboratory Job ID: 890-8297-1
SDG: 07A1988234

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Definitions/Glossary

Client: Ensolum
Project/Site: WARREN UNIT BATTERY 5

Job ID: 890-8297-1
SDG: 07A1988234

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum
Project: WARREN UNIT BATTERY 5

Job ID: 890-8297-1

Job ID: 890-8297-1

Eurofins Carlsbad

Job Narrative
890-8297-1

REVISION

The report being provided is a revision of the original report sent on 6/20/2025. The report (revision 1) is being revised due to Reviewing sample 2 for chloride. DL issue.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 6/18/2025 2:10 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.0°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS 01 (890-8297-1), SS 02 (890-8297-2), SS 03 (890-8297-3), SS 04 (890-8297-4), SS 05 (890-8297-5), SS 06 (890-8297-6), SS 07 (890-8297-7), SS 08 (890-8297-8) and SS 09 (890-8297-9).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: SS 01 (890-8297-1) and SS 04 (890-8297-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The following samples were diluted due to the nature of the sample matrix: SS 01 (890-8297-1), SS 02 (890-8297-2), SS 03 (890-8297-3) and SS 04 (890-8297-4). Elevated reporting limits (RLs) are provided.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-112564 and analytical batch 880-112560 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Diesel Range Organics

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SS 01 (890-8297-1), SS 03 (890-8297-3) and SS 04 (890-8297-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-112566 and analytical batch 880-112575 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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
Project/Site: WARREN UNIT BATTERY 5

Job ID: 890-8297-1
SDG: 07A1988234

Client Sample ID: SS 01

Lab Sample ID: 890-8297-1

Date Collected: 06/17/25 15:08

Matrix: Solid

Date Received: 06/18/25 14:10

Sample Depth: 0.5'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.45		0.0996	mg/Kg		06/19/25 09:03	06/19/25 13:26	50
Toluene	16.2		0.990	mg/Kg		06/19/25 15:50	06/19/25 19:39	500
Ethylbenzene	23.4		0.990	mg/Kg		06/19/25 15:50	06/19/25 19:39	500
m-Xylene & p-Xylene	28.7		1.98	mg/Kg		06/19/25 15:50	06/19/25 19:39	500
o-Xylene	12.0		0.990	mg/Kg		06/19/25 15:50	06/19/25 19:39	500
Xylenes, Total	40.7		1.98	mg/Kg		06/19/25 15:50	06/19/25 19:39	500

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	818	S1+	70 - 130	06/19/25 09:03	06/19/25 13:26	50
1,4-Difluorobenzene (Surr)	112		70 - 130	06/19/25 09:03	06/19/25 13:26	50

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	81.8		1.98	mg/Kg			06/19/25 19:39	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	5760		249	mg/Kg			06/19/25 14:29	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	628		249	mg/Kg		06/19/25 09:36	06/19/25 14:29	5
Diesel Range Organics (Over C10-C28)	5130		249	mg/Kg		06/19/25 09:36	06/19/25 14:29	5
Oil Range Organics (Over C28-C36)	<249	U	249	mg/Kg		06/19/25 09:36	06/19/25 14:29	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	06/19/25 09:36	06/19/25 14:29	5
o-Terphenyl	135	S1+	70 - 130	06/19/25 09:36	06/19/25 14:29	5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	113		9.96	mg/Kg			06/19/25 14:27	1

Client Sample ID: SS 02

Lab Sample ID: 890-8297-2

Date Collected: 06/17/25 15:33

Matrix: Solid

Date Received: 06/18/25 14:10

Sample Depth: 0.5'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0994	U	0.0994	mg/Kg		06/19/25 09:03	06/19/25 13:46	50
Toluene	0.201		0.0994	mg/Kg		06/19/25 09:03	06/19/25 13:46	50
Ethylbenzene	0.952		0.0994	mg/Kg		06/19/25 09:03	06/19/25 13:46	50
m-Xylene & p-Xylene	0.880		0.199	mg/Kg		06/19/25 09:03	06/19/25 13:46	50
o-Xylene	17.8		0.0994	mg/Kg		06/19/25 09:03	06/19/25 13:46	50
Xylenes, Total	18.7		0.199	mg/Kg		06/19/25 09:03	06/19/25 13:46	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130	06/19/25 09:03	06/19/25 13:46	50

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Client Sample Results

Client: Ensolum
Project/Site: WARREN UNIT BATTERY 5

Job ID: 890-8297-1
SDG: 07A1988234

Client Sample ID: SS 02

Lab Sample ID: 890-8297-2

Date Collected: 06/17/25 15:33

Matrix: Solid

Date Received: 06/18/25 14:10

Sample Depth: 0.5'

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	129		70 - 130	06/19/25 09:03	06/19/25 13:46	50

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	19.8		0.199	mg/Kg			06/19/25 13:46	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	3510		249	mg/Kg			06/19/25 14:45	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<249	U	249	mg/Kg		06/19/25 09:36	06/19/25 14:45	5
Diesel Range Organics (Over C10-C28)	3510		249	mg/Kg		06/19/25 09:36	06/19/25 14:45	5
Oil Range Organics (Over C28-C36)	<249	U	249	mg/Kg		06/19/25 09:36	06/19/25 14:45	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130			06/19/25 09:36	06/19/25 14:45	5
o-Terphenyl	102		70 - 130			06/19/25 09:36	06/19/25 14:45	5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1880		49.6	mg/Kg			06/19/25 14:44	5

Client Sample ID: SS 03

Lab Sample ID: 890-8297-3

Date Collected: 06/17/25 15:31

Matrix: Solid

Date Received: 06/18/25 14:10

Sample Depth: 0.5'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.100	U	0.100	mg/Kg		06/19/25 09:03	06/19/25 14:07	50
Toluene	0.687		0.100	mg/Kg		06/19/25 09:03	06/19/25 14:07	50
Ethylbenzene	0.792		0.100	mg/Kg		06/19/25 09:03	06/19/25 14:07	50
m-Xylene & p-Xylene	0.728		0.200	mg/Kg		06/19/25 09:03	06/19/25 14:07	50
o-Xylene	0.535		0.100	mg/Kg		06/19/25 09:03	06/19/25 14:07	50
Xylenes, Total	1.26		0.200	mg/Kg		06/19/25 09:03	06/19/25 14:07	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	06/19/25 09:03	06/19/25 14:07	50
1,4-Difluorobenzene (Surr)	104		70 - 130	06/19/25 09:03	06/19/25 14:07	50

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	2.74		0.200	mg/Kg			06/19/25 14:07	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	16200		999	mg/Kg			06/19/25 15:01	1

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Client Sample Results

Client: Ensolum
Project/Site: WARREN UNIT BATTERY 5

Job ID: 890-8297-1
SDG: 07A1988234

Client Sample ID: SS 03

Lab Sample ID: 890-8297-3

Date Collected: 06/17/25 15:31

Matrix: Solid

Date Received: 06/18/25 14:10

Sample Depth: 0.5'

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<999	U	999	mg/Kg		06/19/25 09:36	06/19/25 15:01	20
Diesel Range Organics (Over C10-C28)	16200		999	mg/Kg		06/19/25 09:36	06/19/25 15:01	20
Oil Range Organics (Over C28-C36)	<999	U	999	mg/Kg		06/19/25 09:36	06/19/25 15:01	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130			06/19/25 09:36	06/19/25 15:01	20
o-Terphenyl	503	S1+	70 - 130			06/19/25 09:36	06/19/25 15:01	20

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	734		9.90	mg/Kg			06/19/25 14:50	1

Client Sample ID: SS 04

Lab Sample ID: 890-8297-4

Date Collected: 06/17/25 15:29

Matrix: Solid

Date Received: 06/18/25 14:10

Sample Depth: 0.5'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.187		0.100	mg/Kg		06/19/25 09:03	06/19/25 14:27	50
Toluene	3.28		0.100	mg/Kg		06/19/25 09:03	06/19/25 14:27	50
Ethylbenzene	6.61		0.100	mg/Kg		06/19/25 09:03	06/19/25 14:27	50
m-Xylene & p-Xylene	7.12		0.200	mg/Kg		06/19/25 09:03	06/19/25 14:27	50
o-Xylene	8.66		0.100	mg/Kg		06/19/25 09:03	06/19/25 14:27	50
Xylenes, Total	15.8		0.200	mg/Kg		06/19/25 09:03	06/19/25 14:27	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	167	S1+	70 - 130			06/19/25 09:03	06/19/25 14:27	50
1,4-Difluorobenzene (Surr)	120		70 - 130			06/19/25 09:03	06/19/25 14:27	50

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	25.9		0.200	mg/Kg			06/19/25 14:27	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	10300		996	mg/Kg			06/19/25 15:17	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<996	U	996	mg/Kg		06/19/25 09:36	06/19/25 15:17	20
Diesel Range Organics (Over C10-C28)	10300		996	mg/Kg		06/19/25 09:36	06/19/25 15:17	20
Oil Range Organics (Over C28-C36)	<996	U	996	mg/Kg		06/19/25 09:36	06/19/25 15:17	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130			06/19/25 09:36	06/19/25 15:17	20
o-Terphenyl	311	S1+	70 - 130			06/19/25 09:36	06/19/25 15:17	20

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Client Sample Results

Client: Ensolum
Project/Site: WARREN UNIT BATTERY 5

Job ID: 890-8297-1
SDG: 07A1988234

Client Sample ID: SS 04

Lab Sample ID: 890-8297-4

Date Collected: 06/17/25 15:29

Matrix: Solid

Date Received: 06/18/25 14:10

Sample Depth: 0.5'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	131		9.92	mg/Kg			06/19/25 14:56	1

Client Sample ID: SS 05

Lab Sample ID: 890-8297-5

Date Collected: 06/17/25 15:04

Matrix: Solid

Date Received: 06/18/25 14:10

Sample Depth: 0.5'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		06/19/25 09:03	06/19/25 11:44	1
Toluene	0.00246		0.00198	mg/Kg		06/19/25 09:03	06/19/25 11:44	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		06/19/25 09:03	06/19/25 11:44	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		06/19/25 09:03	06/19/25 11:44	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		06/19/25 09:03	06/19/25 11:44	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		06/19/25 09:03	06/19/25 11:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130			06/19/25 09:03	06/19/25 11:44	1
1,4-Difluorobenzene (Surr)	96		70 - 130			06/19/25 09:03	06/19/25 11:44	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			06/19/25 11:44	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	294		49.9	mg/Kg			06/19/25 15:50	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		06/19/25 09:36	06/19/25 15:50	1
Diesel Range Organics (Over C10-C28)	294		49.9	mg/Kg		06/19/25 09:36	06/19/25 15:50	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/19/25 09:36	06/19/25 15:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130			06/19/25 09:36	06/19/25 15:50	1
o-Terphenyl	106		70 - 130			06/19/25 09:36	06/19/25 15:50	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	96.7		10.0	mg/Kg			06/19/25 15:01	1

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Client Sample Results

Client: Ensolum
Project/Site: WARREN UNIT BATTERY 5

Job ID: 890-8297-1
SDG: 07A1988234

Client Sample ID: SS 06

Lab Sample ID: 890-8297-6

Date Collected: 06/17/25 15:02

Matrix: Solid

Date Received: 06/18/25 14:10

Sample Depth: 0.5'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		06/19/25 09:03	06/19/25 12:04	1
Toluene	0.00235		0.00199	mg/Kg		06/19/25 09:03	06/19/25 12:04	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		06/19/25 09:03	06/19/25 12:04	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		06/19/25 09:03	06/19/25 12:04	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		06/19/25 09:03	06/19/25 12:04	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		06/19/25 09:03	06/19/25 12:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	06/19/25 09:03	06/19/25 12:04	1
1,4-Difluorobenzene (Surr)	96		70 - 130	06/19/25 09:03	06/19/25 12:04	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			06/19/25 12:04	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			06/19/25 16:06	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		06/19/25 09:36	06/19/25 16:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/19/25 09:36	06/19/25 16:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/19/25 09:36	06/19/25 16:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	06/19/25 09:36	06/19/25 16:06	1
o-Terphenyl	102		70 - 130	06/19/25 09:36	06/19/25 16:06	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	132		9.94	mg/Kg			06/19/25 15:07	1

Client Sample ID: SS 07

Lab Sample ID: 890-8297-7

Date Collected: 06/17/25 14:59

Matrix: Solid

Date Received: 06/18/25 14:10

Sample Depth: 0.5'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		06/19/25 09:18	06/19/25 12:25	1
Toluene	0.00226		0.00199	mg/Kg		06/19/25 09:18	06/19/25 12:25	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		06/19/25 09:18	06/19/25 12:25	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		06/19/25 09:18	06/19/25 12:25	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		06/19/25 09:18	06/19/25 12:25	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		06/19/25 09:18	06/19/25 12:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	06/19/25 09:18	06/19/25 12:25	1

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Client Sample Results

Client: Ensolum
Project/Site: WARREN UNIT BATTERY 5

Job ID: 890-8297-1
SDG: 07A1988234

Client Sample ID: SS 07

Lab Sample ID: 890-8297-7

Date Collected: 06/17/25 14:59

Matrix: Solid

Date Received: 06/18/25 14:10

Sample Depth: 0.5'

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	97		70 - 130	06/19/25 09:18	06/19/25 12:25	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			06/19/25 12:25	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	67.7		50.0	mg/Kg			06/19/25 16:22	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		06/19/25 09:36	06/19/25 16:22	1
Diesel Range Organics (Over C10-C28)	67.7		50.0	mg/Kg		06/19/25 09:36	06/19/25 16:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/19/25 09:36	06/19/25 16:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130			06/19/25 09:36	06/19/25 16:22	1
o-Terphenyl	94		70 - 130			06/19/25 09:36	06/19/25 16:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	263		9.92	mg/Kg			06/19/25 15:13	1

Client Sample ID: SS 08

Lab Sample ID: 890-8297-8

Date Collected: 06/17/25 14:57

Matrix: Solid

Date Received: 06/18/25 14:10

Sample Depth: 0.5'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		06/19/25 09:18	06/19/25 12:04	1
Toluene	<0.00198	U	0.00198	mg/Kg		06/19/25 09:18	06/19/25 12:04	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		06/19/25 09:18	06/19/25 12:04	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		06/19/25 09:18	06/19/25 12:04	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		06/19/25 09:18	06/19/25 12:04	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		06/19/25 09:18	06/19/25 12:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	06/19/25 09:18	06/19/25 12:04	1
1,4-Difluorobenzene (Surr)	95		70 - 130	06/19/25 09:18	06/19/25 12:04	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			06/19/25 12:04	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	140		49.7	mg/Kg			06/19/25 16:38	1

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Client Sample Results

Client: Ensolum
Project/Site: WARREN UNIT BATTERY 5

Job ID: 890-8297-1
SDG: 07A1988234

Client Sample ID: SS 08

Lab Sample ID: 890-8297-8

Date Collected: 06/17/25 14:57

Matrix: Solid

Date Received: 06/18/25 14:10

Sample Depth: 0.5'

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		06/19/25 09:36	06/19/25 16:38	1
Diesel Range Organics (Over C10-C28)	140		49.7	mg/Kg		06/19/25 09:36	06/19/25 16:38	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		06/19/25 09:36	06/19/25 16:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130			06/19/25 09:36	06/19/25 16:38	1
o-Terphenyl	90		70 - 130			06/19/25 09:36	06/19/25 16:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	299		10.0	mg/Kg			06/19/25 15:18	1

Client Sample ID: SS 09

Lab Sample ID: 890-8297-9

Date Collected: 06/17/25 15:07

Matrix: Solid

Date Received: 06/18/25 14:10

Sample Depth: 0.5'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		06/19/25 09:16	06/19/25 11:51	1
Toluene	0.00269		0.00198	mg/Kg		06/19/25 09:16	06/19/25 11:51	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		06/19/25 09:16	06/19/25 11:51	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		06/19/25 09:16	06/19/25 11:51	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		06/19/25 09:16	06/19/25 11:51	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		06/19/25 09:16	06/19/25 11:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			06/19/25 09:16	06/19/25 11:51	1
1,4-Difluorobenzene (Surr)	88		70 - 130			06/19/25 09:16	06/19/25 11:51	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			06/19/25 11:51	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			06/19/25 16:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130			06/19/25 09:36	06/19/25 16:55	1
o-Terphenyl	97		70 - 130			06/19/25 09:36	06/19/25 16:55	1

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Client Sample Results

Client: Ensolum
Project/Site: WARREN UNIT BATTERY 5

Job ID: 890-8297-1
SDG: 07A1988234

Client Sample ID: SS 09
Date Collected: 06/17/25 15:07
Date Received: 06/18/25 14:10
Sample Depth: 0.5'

Lab Sample ID: 890-8297-9
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	133		10.1	mg/Kg			06/19/25 22:25	1	

Surrogate Summary

Client: Ensolum
Project/Site: WARREN UNIT BATTERY 5

Job ID: 890-8297-1
SDG: 07A1988234

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
880-59478-A-1-A MS	Matrix Spike	112	94
880-59478-A-1-B MSD	Matrix Spike Duplicate	106	98
890-8297-1	SS 01	818 S1+	112
890-8297-2	SS 02	125	129
890-8297-3	SS 03	106	104
890-8297-4	SS 04	167 S1+	120
890-8297-5	SS 05	100	96
890-8297-5 MS	SS 05	87	88
890-8297-5 MSD	SS 05	87	91
890-8297-6	SS 06	100	96
890-8297-7	SS 07	90	97
890-8297-8	SS 08	87	95
890-8297-8 MS	SS 08	87	104
890-8297-8 MSD	SS 08	98	87
890-8297-9	SS 09	102	88
890-8297-9 MS	SS 09	97	95
890-8297-9 MSD	SS 09	94	97
LCS 880-112564/1-A	Lab Control Sample	107	97
LCS 880-112567/1-A	Lab Control Sample	94	93
LCS 880-112570/1-A	Lab Control Sample	94	97
LCS 880-112571/1-A	Lab Control Sample	94	99
LCSD 880-112564/2-A	Lab Control Sample Dup	106	98
LCSD 880-112567/2-A	Lab Control Sample Dup	90	91
LCSD 880-112570/2-A	Lab Control Sample Dup	96	97
LCSD 880-112571/2-A	Lab Control Sample Dup	87	99
MB 880-112564/5-A	Method Blank	103	93
MB 880-112567/5-A	Method Blank	91	94
MB 880-112570/5-A	Method Blank	96	87
MB 880-112571/5-A	Method Blank	82	94

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1	OTPH1
		(70-130)	(70-130)
890-8269-A-3-C MS	Matrix Spike	100	91
890-8269-A-3-D MSD	Matrix Spike Duplicate	84	88
890-8297-1	SS 01	97	135 S1+
890-8297-2	SS 02	92	102
890-8297-3	SS 03	104	503 S1+
890-8297-4	SS 04	103	311 S1+
890-8297-5	SS 05	105	106
890-8297-6	SS 06	103	102
890-8297-7	SS 07	97	94
890-8297-8	SS 08	95	90

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Surrogate Summary

Client: Ensolum
Project/Site: WARREN UNIT BATTERY 5

Job ID: 890-8297-1
SDG: 07A1988234

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-8297-9	SS 09	101	97
LCS 880-112572/2-A	Lab Control Sample	76	84
LCSD 880-112572/3-A	Lab Control Sample Dup	92	83
MB 880-112572/1-A	Method Blank	124	128
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum
Project/Site: WARREN UNIT BATTERY 5

Job ID: 890-8297-1
SDG: 07A1988234

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-112564/5-A

Matrix: Solid

Analysis Batch: 112560

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 112564

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/19/25 08:57	06/19/25 11:29	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/19/25 08:57	06/19/25 11:29	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/19/25 08:57	06/19/25 11:29	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/19/25 08:57	06/19/25 11:29	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/19/25 08:57	06/19/25 11:29	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/19/25 08:57	06/19/25 11:29	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	06/19/25 08:57	06/19/25 11:29	1
1,4-Difluorobenzene (Surr)	93		70 - 130	06/19/25 08:57	06/19/25 11:29	1

Lab Sample ID: LCS 880-112564/1-A

Matrix: Solid

Analysis Batch: 112560

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 112564

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08212		mg/Kg		82	70 - 130
Toluene	0.100	0.07547		mg/Kg		75	70 - 130
Ethylbenzene	0.100	0.07746		mg/Kg		77	70 - 130
m-Xylene & p-Xylene	0.200	0.1574		mg/Kg		79	70 - 130
o-Xylene	0.100	0.08150		mg/Kg		81	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: LCSD 880-112564/2-A

Matrix: Solid

Analysis Batch: 112560

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 112564

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09486		mg/Kg		95	70 - 130	14	35
Toluene	0.100	0.08348		mg/Kg		83	70 - 130	10	35
Ethylbenzene	0.100	0.08473		mg/Kg		85	70 - 130	9	35
m-Xylene & p-Xylene	0.200	0.1711		mg/Kg		86	70 - 130	8	35
o-Xylene	0.100	0.08728		mg/Kg		87	70 - 130	7	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 880-59478-A-1-A MS

Matrix: Solid

Analysis Batch: 112560

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 112564

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00198	U	0.100	0.09380		mg/Kg		94	70 - 130
Toluene	<0.00198	U F1	0.100	0.06715	F1	mg/Kg		67	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: WARREN UNIT BATTERY 5

Job ID: 890-8297-1
SDG: 07A1988234

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

Lab Sample ID: 880-59478-A-1-A MS

Matrix: Solid

Analysis Batch: 112560

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 112564

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00198	U F1	0.100	0.04819	F1	mg/Kg		48	70 - 130
m-Xylene & p-Xylene	<0.00396	U F1	0.200	0.09444	F1	mg/Kg		47	70 - 130
o-Xylene	<0.00198	U F1	0.100	0.04889	F1	mg/Kg		49	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 880-59478-A-1-B MSD

Matrix: Solid

Analysis Batch: 112560

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 112564

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00198	U	0.100	0.09633		mg/Kg		96	70 - 130	3	35
Toluene	<0.00198	U F1	0.100	0.06798	F1	mg/Kg		68	70 - 130	1	35
Ethylbenzene	<0.00198	U F1	0.100	0.05070	F1	mg/Kg		51	70 - 130	5	35
m-Xylene & p-Xylene	<0.00396	U F1	0.200	0.09908	F1	mg/Kg		50	70 - 130	5	35
o-Xylene	<0.00198	U F1	0.100	0.04995	F1	mg/Kg		50	70 - 130	2	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: MB 880-112567/5-A

Matrix: Solid

Analysis Batch: 112559

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 112567

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/19/25 09:03	06/19/25 11:22	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/19/25 09:03	06/19/25 11:22	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/19/25 09:03	06/19/25 11:22	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/19/25 09:03	06/19/25 11:22	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/19/25 09:03	06/19/25 11:22	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/19/25 09:03	06/19/25 11:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	06/19/25 09:03	06/19/25 11:22	1
1,4-Difluorobenzene (Surr)	94		70 - 130	06/19/25 09:03	06/19/25 11:22	1

Lab Sample ID: LCS 880-112567/1-A

Matrix: Solid

Analysis Batch: 112559

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 112567

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09865		mg/Kg		99	70 - 130
Toluene	0.100	0.09474		mg/Kg		95	70 - 130
Ethylbenzene	0.100	0.09538		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	0.200	0.1954		mg/Kg		98	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: WARREN UNIT BATTERY 5

Job ID: 890-8297-1
SDG: 07A1988234

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

Lab Sample ID: LCS 880-112567/1-A

Matrix: Solid

Analysis Batch: 112559

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 112567

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.09849		mg/Kg		98	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: LCSD 880-112567/2-A

Matrix: Solid

Analysis Batch: 112559

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 112567

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.08518		mg/Kg		85	70 - 130	15	35
Toluene	0.100	0.08155		mg/Kg		82	70 - 130	15	35
Ethylbenzene	0.100	0.07980		mg/Kg		80	70 - 130	18	35
m-Xylene & p-Xylene	0.200	0.1650		mg/Kg		83	70 - 130	17	35
o-Xylene	0.100	0.08490		mg/Kg		85	70 - 130	15	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: 890-8297-5 MS

Matrix: Solid

Analysis Batch: 112559

Client Sample ID: SS 05

Prep Type: Total/NA

Prep Batch: 112567

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00198	U	0.100	0.09782		mg/Kg		98	70 - 130
Toluene	0.00246		0.100	0.08846		mg/Kg		86	70 - 130
Ethylbenzene	<0.00198	U	0.100	0.08518		mg/Kg		85	70 - 130
m-Xylene & p-Xylene	<0.00396	U	0.200	0.1724		mg/Kg		86	70 - 130
o-Xylene	<0.00198	U	0.100	0.08546		mg/Kg		85	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	87		70 - 130
1,4-Difluorobenzene (Surr)	88		70 - 130

Lab Sample ID: 890-8297-5 MSD

Matrix: Solid

Analysis Batch: 112559

Client Sample ID: SS 05

Prep Type: Total/NA

Prep Batch: 112567

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00198	U	0.100	0.09829		mg/Kg		98	70 - 130	0	35
Toluene	0.00246		0.100	0.09060		mg/Kg		88	70 - 130	2	35
Ethylbenzene	<0.00198	U	0.100	0.08704		mg/Kg		87	70 - 130	2	35
m-Xylene & p-Xylene	<0.00396	U	0.200	0.1759		mg/Kg		88	70 - 130	2	35
o-Xylene	<0.00198	U	0.100	0.08764		mg/Kg		88	70 - 130	3	35

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QC Sample Results

Client: Ensolum
Project/Site: WARREN UNIT BATTERY 5

Job ID: 890-8297-1
SDG: 07A1988234

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

Lab Sample ID: 890-8297-5 MSD

Matrix: Solid

Analysis Batch: 112559

Client Sample ID: SS 05

Prep Type: Total/NA

Prep Batch: 112567

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	87		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: MB 880-112570/5-A

Matrix: Solid

Analysis Batch: 112561

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 112570

Analyte	MB	MB							
	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/19/25 09:16	06/19/25 11:29	1	
Toluene	<0.00200	U	0.00200	mg/Kg		06/19/25 09:16	06/19/25 11:29	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/19/25 09:16	06/19/25 11:29	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/19/25 09:16	06/19/25 11:29	1	
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/19/25 09:16	06/19/25 11:29	1	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/19/25 09:16	06/19/25 11:29	1	

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil	Fac		
4-Bromofluorobenzene (Surr)	96		70 - 130	06/19/25 09:16	06/19/25 11:29	1			
1,4-Difluorobenzene (Surr)	87		70 - 130	06/19/25 09:16	06/19/25 11:29	1			

Lab Sample ID: LCS 880-112570/1-A

Matrix: Solid

Analysis Batch: 112561

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 112570

Analyte	Spike	LCS	LCS						
	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	0.100	0.09393		mg/Kg		94	70 - 130		
Toluene	0.100	0.08480		mg/Kg		85	70 - 130		
Ethylbenzene	0.100	0.08604		mg/Kg		86	70 - 130		
m-Xylene & p-Xylene	0.200	0.1798		mg/Kg		90	70 - 130		
o-Xylene	0.100	0.08971		mg/Kg		90	70 - 130		

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: LCSD 880-112570/2-A

Matrix: Solid

Analysis Batch: 112561

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 112570

Analyte	Spike	LCSD	LCSD							
	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1027		mg/Kg		103	70 - 130	9	35	
Toluene	0.100	0.09094		mg/Kg		91	70 - 130	7	35	
Ethylbenzene	0.100	0.09193		mg/Kg		92	70 - 130	7	35	
m-Xylene & p-Xylene	0.200	0.1898		mg/Kg		95	70 - 130	5	35	
o-Xylene	0.100	0.09474		mg/Kg		95	70 - 130	5	35	

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: WARREN UNIT BATTERY 5

Job ID: 890-8297-1
SDG: 07A1988234

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

Lab Sample ID: LCSD 880-112570/2-A

Matrix: Solid

Analysis Batch: 112561

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 112570

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

Lab Sample ID: 890-8297-9 MS

Matrix: Solid

Analysis Batch: 112561

Client Sample ID: SS 09

Prep Type: Total/NA

Prep Batch: 112570

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Benzene	<0.00198	U	0.100	0.1114		mg/Kg		111	70 - 130
Toluene	0.00269		0.100	0.09976		mg/Kg		97	70 - 130
Ethylbenzene	<0.00198	U	0.100	0.1034		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	<0.00396	U	0.200	0.2140		mg/Kg		107	70 - 130
o-Xylene	<0.00198	U	0.100	0.1064		mg/Kg		106	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 890-8297-9 MSD

Matrix: Solid

Analysis Batch: 112561

Client Sample ID: SS 09

Prep Type: Total/NA

Prep Batch: 112570

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00198	U	0.100	0.1207		mg/Kg		121	70 - 130	8	35
Toluene	0.00269		0.100	0.1058		mg/Kg		103	70 - 130	6	35
Ethylbenzene	<0.00198	U	0.100	0.1091		mg/Kg		109	70 - 130	5	35
m-Xylene & p-Xylene	<0.00396	U	0.200	0.2263		mg/Kg		113	70 - 130	6	35
o-Xylene	<0.00198	U	0.100	0.1115		mg/Kg		111	70 - 130	5	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: MB 880-112571/5-A

Matrix: Solid

Analysis Batch: 112474

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 112571

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/19/25 09:18	06/19/25 11:42	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/19/25 09:18	06/19/25 11:42	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/19/25 09:18	06/19/25 11:42	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/19/25 09:18	06/19/25 11:42	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/19/25 09:18	06/19/25 11:42	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/19/25 09:18	06/19/25 11:42	1

	MB	MB						
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	82		70 - 130	06/19/25 09:18	06/19/25 11:42	1		
1,4-Difluorobenzene (Surr)	94		70 - 130	06/19/25 09:18	06/19/25 11:42	1		

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QC Sample Results

Client: Ensolum
Project/Site: WARREN UNIT BATTERY 5

Job ID: 890-8297-1
SDG: 07A1988234

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

Lab Sample ID: LCS 880-112571/1-A

Matrix: Solid

Analysis Batch: 112474

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 112571

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09485		mg/Kg		95	70 - 130
Toluene	0.100	0.09735		mg/Kg		97	70 - 130
Ethylbenzene	0.100	0.08605		mg/Kg		86	70 - 130
m-Xylene & p-Xylene	0.200	0.1568		mg/Kg		78	70 - 130
o-Xylene	0.100	0.08264		mg/Kg		83	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-112571/2-A

Matrix: Solid

Analysis Batch: 112474

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 112571

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09536		mg/Kg		95	70 - 130	1	35
Toluene	0.100	0.09761		mg/Kg		98	70 - 130	0	35
Ethylbenzene	0.100	0.09442		mg/Kg		94	70 - 130	9	35
m-Xylene & p-Xylene	0.200	0.1687		mg/Kg		84	70 - 130	7	35
o-Xylene	0.100	0.08523		mg/Kg		85	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	87		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 890-8297-8 MS

Matrix: Solid

Analysis Batch: 112474

Client Sample ID: SS 08

Prep Type: Total/NA

Prep Batch: 112571

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00198	U	0.100	0.1014		mg/Kg		101	70 - 130
Toluene	<0.00198	U	0.100	0.1030		mg/Kg		103	70 - 130
Ethylbenzene	<0.00198	U	0.100	0.1006		mg/Kg		101	70 - 130
m-Xylene & p-Xylene	<0.00396	U	0.200	0.1798		mg/Kg		90	70 - 130
o-Xylene	<0.00198	U	0.100	0.09044		mg/Kg		90	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	87		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 890-8297-8 MSD

Matrix: Solid

Analysis Batch: 112474

Client Sample ID: SS 08

Prep Type: Total/NA

Prep Batch: 112571

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.100	0.09172		mg/Kg		92	70 - 130	10	35
Toluene	<0.00198	U	0.100	0.1063		mg/Kg		106	70 - 130	3	35
Ethylbenzene	<0.00198	U	0.100	0.1128		mg/Kg		113	70 - 130	11	35

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QC Sample Results

Client: Ensolum
Project/Site: WARREN UNIT BATTERY 5

Job ID: 890-8297-1
SDG: 07A1988234

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

Lab Sample ID: 890-8297-8 MSD

Matrix: Solid

Analysis Batch: 112474

Client Sample ID: SS 08

Prep Type: Total/NA

Prep Batch: 112571

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene	<0.00396	U	0.200	0.1949		mg/Kg		97	70 - 130	8	35
o-Xylene	<0.00198	U	0.100	0.09734		mg/Kg		97	70 - 130	7	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	98		70 - 130								
1,4-Difluorobenzene (Surr)	87		70 - 130								

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

Lab Sample ID: MB 880-112572/1-A

Matrix: Solid

Analysis Batch: 112579

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 112572

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		06/19/25 09:36	06/19/25 03:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/19/25 09:36	06/19/25 03:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/19/25 09:36	06/19/25 03:56	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130			06/19/25 09:36	06/19/25 03:56	1
o-Terphenyl	128		70 - 130			06/19/25 09:36	06/19/25 03:56	1

Lab Sample ID: LCS 880-112572/2-A

Matrix: Solid

Analysis Batch: 112579

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 112572

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Gasoline Range Organics (GRO)-C6-C10	1000	818.0		mg/Kg		82	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	915.3		mg/Kg		92	70 - 130	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
1-Chlorooctane	76		70 - 130					
o-Terphenyl	84		70 - 130					

Lab Sample ID: LCSD 880-112572/3-A

Matrix: Solid

Analysis Batch: 112579

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 112572

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	801.7		mg/Kg		80	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	858.7		mg/Kg		86	70 - 130	6	20

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QC Sample Results

Client: Ensolum
Project/Site: WARREN UNIT BATTERY 5

Job ID: 890-8297-1
SDG: 07A1988234

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

Lab Sample ID: LCSD 880-112572/3-A

Matrix: Solid

Analysis Batch: 112579

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 112572

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	92		70 - 130
o-Terphenyl	83		70 - 130

Lab Sample ID: 890-8269-A-3-C MS

Matrix: Solid

Analysis Batch: 112579

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 112572

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	997	788.2		mg/Kg		79	70 - 130
Diesel Range Organics (Over C10-C28)	<50.1	U	997	804.8		mg/Kg		81	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	100		70 - 130						
o-Terphenyl	91		70 - 130						

Lab Sample ID: 890-8269-A-3-D MSD

Matrix: Solid

Analysis Batch: 112579

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 112572

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	997	781.0		mg/Kg		78	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.1	U	997	855.5		mg/Kg		86	70 - 130	6	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	84		70 - 130								
o-Terphenyl	88		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-112566/1-A

Matrix: Solid

Analysis Batch: 112575

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0	mg/Kg			06/19/25 12:28	1

Lab Sample ID: LCS 880-112566/2-A

Matrix: Solid

Analysis Batch: 112575

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	243.2		mg/Kg		97	90 - 110

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QC Sample Results

Client: Ensolum
Project/Site: WARREN UNIT BATTERY 5

Job ID: 890-8297-1
SDG: 07A1988234

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-112566/3-A

Matrix: Solid

Analysis Batch: 112575

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	244.2		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 880-59446-A-2-E MS

Matrix: Solid

Analysis Batch: 112575

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1000	F1	253	1226	F1	mg/Kg		88	90 - 110		

Lab Sample ID: 880-59446-A-2-F MSD

Matrix: Solid

Analysis Batch: 112575

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1000	F1	253	1228	F1	mg/Kg		89	90 - 110	0	20

Lab Sample ID: MB 880-112578/1-A

Matrix: Solid

Analysis Batch: 112632

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0	mg/Kg			06/19/25 19:18	1

Lab Sample ID: LCS 880-112578/2-A

Matrix: Solid

Analysis Batch: 112632

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	259.2		mg/Kg		104	90 - 110		

Lab Sample ID: LCSD 880-112578/3-A

Matrix: Solid

Analysis Batch: 112632

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	259.2		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 880-59483-A-51-B MS

Matrix: Solid

Analysis Batch: 112632

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	8790		2510	11380		mg/Kg		103	90 - 110		

Lab Sample ID: 880-59483-A-51-C MSD

Matrix: Solid

Analysis Batch: 112632

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	8790		2510	11410		mg/Kg		104	90 - 110	0	20

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QC Association Summary

Client: Ensolum
Project/Site: WARREN UNIT BATTERY 5

Job ID: 890-8297-1
SDG: 07A1988234

GC VOA

Analysis Batch: 112474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8297-7	SS 07	Total/NA	Solid	8021B	112571
890-8297-8	SS 08	Total/NA	Solid	8021B	112571
MB 880-112571/5-A	Method Blank	Total/NA	Solid	8021B	112571
LCS 880-112571/1-A	Lab Control Sample	Total/NA	Solid	8021B	112571
LCSD 880-112571/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	112571
890-8297-8 MS	SS 08	Total/NA	Solid	8021B	112571
890-8297-8 MSD	SS 08	Total/NA	Solid	8021B	112571

Analysis Batch: 112559

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8297-1	SS 01	Total/NA	Solid	8021B	112567
890-8297-2	SS 02	Total/NA	Solid	8021B	112567
890-8297-3	SS 03	Total/NA	Solid	8021B	112567
890-8297-4	SS 04	Total/NA	Solid	8021B	112567
890-8297-5	SS 05	Total/NA	Solid	8021B	112567
890-8297-6	SS 06	Total/NA	Solid	8021B	112567
MB 880-112567/5-A	Method Blank	Total/NA	Solid	8021B	112567
LCS 880-112567/1-A	Lab Control Sample	Total/NA	Solid	8021B	112567
LCSD 880-112567/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	112567
890-8297-5 MS	SS 05	Total/NA	Solid	8021B	112567
890-8297-5 MSD	SS 05	Total/NA	Solid	8021B	112567

Analysis Batch: 112560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8297-1	SS 01	Total/NA	Solid	8021B	112564
MB 880-112564/5-A	Method Blank	Total/NA	Solid	8021B	112564
LCS 880-112564/1-A	Lab Control Sample	Total/NA	Solid	8021B	112564
LCSD 880-112564/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	112564
880-59478-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	112564
880-59478-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	112564

Analysis Batch: 112561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8297-9	SS 09	Total/NA	Solid	8021B	112570
MB 880-112570/5-A	Method Blank	Total/NA	Solid	8021B	112570
LCS 880-112570/1-A	Lab Control Sample	Total/NA	Solid	8021B	112570
LCSD 880-112570/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	112570
890-8297-9 MS	SS 09	Total/NA	Solid	8021B	112570
890-8297-9 MSD	SS 09	Total/NA	Solid	8021B	112570

Prep Batch: 112564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8297-1	SS 01	Total/NA	Solid	5035	
MB 880-112564/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-112564/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-112564/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-59478-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-59478-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

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QC Association Summary

Client: Ensolum
Project/Site: WARREN UNIT BATTERY 5

Job ID: 890-8297-1
SDG: 07A1988234

GC VOA

Prep Batch: 112567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8297-1	SS 01	Total/NA	Solid	5035	
890-8297-2	SS 02	Total/NA	Solid	5035	
890-8297-3	SS 03	Total/NA	Solid	5035	
890-8297-4	SS 04	Total/NA	Solid	5035	
890-8297-5	SS 05	Total/NA	Solid	5035	
890-8297-6	SS 06	Total/NA	Solid	5035	
MB 880-112567/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-112567/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-112567/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8297-5 MS	SS 05	Total/NA	Solid	5035	
890-8297-5 MSD	SS 05	Total/NA	Solid	5035	

Prep Batch: 112570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8297-9	SS 09	Total/NA	Solid	5035	
MB 880-112570/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-112570/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-112570/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8297-9 MS	SS 09	Total/NA	Solid	5035	
890-8297-9 MSD	SS 09	Total/NA	Solid	5035	

Prep Batch: 112571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8297-7	SS 07	Total/NA	Solid	5035	
890-8297-8	SS 08	Total/NA	Solid	5035	
MB 880-112571/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-112571/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-112571/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8297-8 MS	SS 08	Total/NA	Solid	5035	
890-8297-8 MSD	SS 08	Total/NA	Solid	5035	

Analysis Batch: 112625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8297-1	SS 01	Total/NA	Solid	Total BTEX	
890-8297-2	SS 02	Total/NA	Solid	Total BTEX	
890-8297-3	SS 03	Total/NA	Solid	Total BTEX	
890-8297-4	SS 04	Total/NA	Solid	Total BTEX	
890-8297-5	SS 05	Total/NA	Solid	Total BTEX	
890-8297-6	SS 06	Total/NA	Solid	Total BTEX	
890-8297-7	SS 07	Total/NA	Solid	Total BTEX	
890-8297-8	SS 08	Total/NA	Solid	Total BTEX	
890-8297-9	SS 09	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 112572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8297-1	SS 01	Total/NA	Solid	8015NM Prep	
890-8297-2	SS 02	Total/NA	Solid	8015NM Prep	
890-8297-3	SS 03	Total/NA	Solid	8015NM Prep	
890-8297-4	SS 04	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Ensolum
Project/Site: WARREN UNIT BATTERY 5

Job ID: 890-8297-1
SDG: 07A1988234

GC Semi VOA (Continued)

Prep Batch: 112572 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8297-5	SS 05	Total/NA	Solid	8015NM Prep	
890-8297-6	SS 06	Total/NA	Solid	8015NM Prep	
890-8297-7	SS 07	Total/NA	Solid	8015NM Prep	
890-8297-8	SS 08	Total/NA	Solid	8015NM Prep	
890-8297-9	SS 09	Total/NA	Solid	8015NM Prep	
MB 880-112572/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-112572/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-112572/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8269-A-3-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-8269-A-3-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 112579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8297-1	SS 01	Total/NA	Solid	8015B NM	112572
890-8297-2	SS 02	Total/NA	Solid	8015B NM	112572
890-8297-3	SS 03	Total/NA	Solid	8015B NM	112572
890-8297-4	SS 04	Total/NA	Solid	8015B NM	112572
890-8297-5	SS 05	Total/NA	Solid	8015B NM	112572
890-8297-6	SS 06	Total/NA	Solid	8015B NM	112572
890-8297-7	SS 07	Total/NA	Solid	8015B NM	112572
890-8297-8	SS 08	Total/NA	Solid	8015B NM	112572
890-8297-9	SS 09	Total/NA	Solid	8015B NM	112572
MB 880-112572/1-A	Method Blank	Total/NA	Solid	8015B NM	112572
LCS 880-112572/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	112572
LCSD 880-112572/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	112572
890-8269-A-3-C MS	Matrix Spike	Total/NA	Solid	8015B NM	112572
890-8269-A-3-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	112572

Analysis Batch: 112633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8297-1	SS 01	Total/NA	Solid	8015 NM	
890-8297-2	SS 02	Total/NA	Solid	8015 NM	
890-8297-3	SS 03	Total/NA	Solid	8015 NM	
890-8297-4	SS 04	Total/NA	Solid	8015 NM	
890-8297-5	SS 05	Total/NA	Solid	8015 NM	
890-8297-6	SS 06	Total/NA	Solid	8015 NM	
890-8297-7	SS 07	Total/NA	Solid	8015 NM	
890-8297-8	SS 08	Total/NA	Solid	8015 NM	
890-8297-9	SS 09	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 112566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8297-1	SS 01	Soluble	Solid	DI Leach	
890-8297-2	SS 02	Soluble	Solid	DI Leach	
890-8297-3	SS 03	Soluble	Solid	DI Leach	
890-8297-4	SS 04	Soluble	Solid	DI Leach	
890-8297-5	SS 05	Soluble	Solid	DI Leach	
890-8297-6	SS 06	Soluble	Solid	DI Leach	
890-8297-7	SS 07	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Ensolum
Project/Site: WARREN UNIT BATTERY 5

Job ID: 890-8297-1
SDG: 07A1988234

HPLC/IC (Continued)

Leach Batch: 112566 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8297-8	SS 08	Soluble	Solid	DI Leach	
MB 880-112566/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-112566/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-112566/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-59446-A-2-E MS	Matrix Spike	Soluble	Solid	DI Leach	
880-59446-A-2-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 112575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8297-1	SS 01	Soluble	Solid	300.0	112566
890-8297-2	SS 02	Soluble	Solid	300.0	112566
890-8297-3	SS 03	Soluble	Solid	300.0	112566
890-8297-4	SS 04	Soluble	Solid	300.0	112566
890-8297-5	SS 05	Soluble	Solid	300.0	112566
890-8297-6	SS 06	Soluble	Solid	300.0	112566
890-8297-7	SS 07	Soluble	Solid	300.0	112566
890-8297-8	SS 08	Soluble	Solid	300.0	112566
MB 880-112566/1-A	Method Blank	Soluble	Solid	300.0	112566
LCS 880-112566/2-A	Lab Control Sample	Soluble	Solid	300.0	112566
LCSD 880-112566/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	112566
880-59446-A-2-E MS	Matrix Spike	Soluble	Solid	300.0	112566
880-59446-A-2-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	112566

Leach Batch: 112578

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8297-9	SS 09	Soluble	Solid	DI Leach	
MB 880-112578/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-112578/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-112578/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-59483-A-51-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-59483-A-51-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 112632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8297-9	SS 09	Soluble	Solid	300.0	112578
MB 880-112578/1-A	Method Blank	Soluble	Solid	300.0	112578
LCS 880-112578/2-A	Lab Control Sample	Soluble	Solid	300.0	112578
LCSD 880-112578/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	112578
880-59483-A-51-B MS	Matrix Spike	Soluble	Solid	300.0	112578
880-59483-A-51-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	112578

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Lab Chronicle

Client: Ensolum
Project/Site: WARREN UNIT BATTERY 5

Job ID: 890-8297-1
SDG: 07A1988234

Client Sample ID: SS 01**Lab Sample ID: 890-8297-1****Date Collected: 06/17/25 15:08****Matrix: Solid****Date Received: 06/18/25 14:10**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	112564	06/19/25 15:50	MNR	EET MID
Total/NA	Analysis	8021B		500	5 mL	5 mL	112560	06/19/25 19:39	MNR	EET MID
Total/NA	Prep	5035			5.02 g	5 mL	112567	06/19/25 09:03	MNR	EET MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	112559	06/19/25 13:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			112625	06/19/25 19:39	SM	EET MID
Total/NA	Analysis	8015 NM		1			112633	06/19/25 14:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	112572	06/19/25 09:36	EL	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	112579	06/19/25 14:29	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	112566	06/19/25 09:00	SA	EET MID
Soluble	Analysis	300.0		1			112575	06/19/25 14:27	CH	EET MID

Client Sample ID: SS 02**Lab Sample ID: 890-8297-2****Date Collected: 06/17/25 15:33****Matrix: Solid****Date Received: 06/18/25 14:10**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	112567	06/19/25 09:03	MNR	EET MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	112559	06/19/25 13:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			112625	06/19/25 13:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			112633	06/19/25 14:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	112572	06/19/25 09:36	EL	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	112579	06/19/25 14:45	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	112566	06/19/25 09:00	SA	EET MID
Soluble	Analysis	300.0		5			112575	06/19/25 14:44	CH	EET MID

Client Sample ID: SS 03**Lab Sample ID: 890-8297-3****Date Collected: 06/17/25 15:31****Matrix: Solid****Date Received: 06/18/25 14:10**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	112567	06/19/25 09:03	MNR	EET MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	112559	06/19/25 14:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			112625	06/19/25 14:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			112633	06/19/25 15:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	112572	06/19/25 09:36	EL	EET MID
Total/NA	Analysis	8015B NM		20	1 uL	1 uL	112579	06/19/25 15:01	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	112566	06/19/25 09:00	SA	EET MID
Soluble	Analysis	300.0		1			112575	06/19/25 14:50	CH	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: WARREN UNIT BATTERY 5

Job ID: 890-8297-1
SDG: 07A1988234

Client Sample ID: SS 04**Date Collected: 06/17/25 15:29****Date Received: 06/18/25 14:10****Lab Sample ID: 890-8297-4****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	112567	06/19/25 09:03	MNR	EET MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	112559	06/19/25 14:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			112625	06/19/25 14:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			112633	06/19/25 15:17	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	112572	06/19/25 09:36	EL	EET MID
Total/NA	Analysis	8015B NM		20	1 uL	1 uL	112579	06/19/25 15:17	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	112566	06/19/25 09:00	SA	EET MID
Soluble	Analysis	300.0		1			112575	06/19/25 14:56	CH	EET MID

Client Sample ID: SS 05**Date Collected: 06/17/25 15:04****Date Received: 06/18/25 14:10****Lab Sample ID: 890-8297-5****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	112567	06/19/25 09:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	112559	06/19/25 11:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			112625	06/19/25 11:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			112633	06/19/25 15:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	112572	06/19/25 09:36	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	112579	06/19/25 15:50	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	112566	06/19/25 09:00	SA	EET MID
Soluble	Analysis	300.0		1			112575	06/19/25 15:01	CH	EET MID

Client Sample ID: SS 06**Date Collected: 06/17/25 15:02****Date Received: 06/18/25 14:10****Lab Sample ID: 890-8297-6****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	112567	06/19/25 09:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	112559	06/19/25 12:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			112625	06/19/25 12:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			112633	06/19/25 16:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	112572	06/19/25 09:36	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	112579	06/19/25 16:06	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	112566	06/19/25 09:00	SA	EET MID
Soluble	Analysis	300.0		1			112575	06/19/25 15:07	CH	EET MID

Client Sample ID: SS 07**Date Collected: 06/17/25 14:59****Date Received: 06/18/25 14:10****Lab Sample ID: 890-8297-7****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	112571	06/19/25 09:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	112474	06/19/25 12:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			112625	06/19/25 12:25	SM	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: WARREN UNIT BATTERY 5

Job ID: 890-8297-1
SDG: 07A1988234

Client Sample ID: SS 07

Date Collected: 06/17/25 14:59

Date Received: 06/18/25 14:10

Lab Sample ID: 890-8297-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			112633	06/19/25 16:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	112572	06/19/25 09:36	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	112579	06/19/25 16:22	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	112566	06/19/25 09:00	SA	EET MID
Soluble	Analysis	300.0		1			112575	06/19/25 15:13	CH	EET MID

Client Sample ID: SS 08

Date Collected: 06/17/25 14:57

Date Received: 06/18/25 14:10

Lab Sample ID: 890-8297-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	112571	06/19/25 09:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	112474	06/19/25 12:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			112625	06/19/25 12:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			112633	06/19/25 16:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	112572	06/19/25 09:36	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	112579	06/19/25 16:38	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	112566	06/19/25 09:00	SA	EET MID
Soluble	Analysis	300.0		1			112575	06/19/25 15:18	CH	EET MID

Client Sample ID: SS 09

Date Collected: 06/17/25 15:07

Date Received: 06/18/25 14:10

Lab Sample ID: 890-8297-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	112570	06/19/25 09:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	112561	06/19/25 11:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			112625	06/19/25 11:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			112633	06/19/25 16:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	112572	06/19/25 09:36	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	112579	06/19/25 16:55	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	112578	06/19/25 10:40	SA	EET MID
Soluble	Analysis	300.0		1			112632	06/19/25 22:25	CH	EET MID

Laboratory References:

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

Eurofins Carlsbad

Accreditation/Certification Summary

Client: Ensolum
Project/Site: WARREN UNIT BATTERY 5

Job ID: 890-8297-1
SDG: 07A1988234

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: WARREN UNIT BATTERY 5

Job ID: 890-8297-1
SDG: 07A1988234

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

Protocol References:

- ASTM = ASTM International
- EPA = US Environmental Protection Agency
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: WARREN UNIT BATTERY 5

Job ID: 890-8297-1
SDG: 07A1988234

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8297-1	SS 01	Solid	06/17/25 15:08	06/18/25 14:10	0.5'
890-8297-2	SS 02	Solid	06/17/25 15:33	06/18/25 14:10	0.5'
890-8297-3	SS 03	Solid	06/17/25 15:31	06/18/25 14:10	0.5'
890-8297-4	SS 04	Solid	06/17/25 15:29	06/18/25 14:10	0.5'
890-8297-5	SS 05	Solid	06/17/25 15:04	06/18/25 14:10	0.5'
890-8297-6	SS 06	Solid	06/17/25 15:02	06/18/25 14:10	0.5'
890-8297-7	SS 07	Solid	06/17/25 14:59	06/18/25 14:10	0.5'
890-8297-8	SS 08	Solid	06/17/25 14:57	06/18/25 14:10	0.5'
890-8297-9	SS 09	Solid	06/17/25 15:07	06/18/25 14:10	0.5'



Environment Testing
Xenco

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
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Chain of Custody

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	Kalei Jennings	Bill to: (if different)	Billy Ginn
Company Name:	Ensolum, LLC	Company Name:	Hilcorp
Address:	3122 National Parks Hwy	Address:	
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	
Phone:	817-683-2503	Email:	khomasan@ensolum.com, kjennings@ensolum.com

Program: ☐ UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	Deliverables: EDD ☐ ADAPT ☐ Other: _____

Project Name:	Warren Unit Battery 5	Turn Around	☒ Routine ☐ Rush	Pres. Code	
---------------	-----------------------	-------------	---	------------	--

Project Number:	07A1988234	Due Date:	5-Day		
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Project Location:	32.544, -103.14279	TAT starts the day received by the lab. If received by 4:30pm			
-------------------	--------------------	---	--	--	--

Sampler Name:	Alex Ferrell				
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PO #:					
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SAMPLE RECEIPT	Temp Blank: ☒ Yes ☒ No	Wet Ice: ☒ Yes ☒ No			
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Samples Received Intact:	☒ Yes ☒ No	Thermometer ID:	111111		
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Cooler Custody Seals:	☒ Yes ☒ No	Correction Factor:	0.2		
-----------------------	--	--------------------	-----	--	--

Sample Custody Seals:	☒ Yes ☒ No	Temperature Reading:	3.2		
-----------------------	--	----------------------	-----	--	--

Total Containers:		Corrected Temperature:	3.0		
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Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Chloride 300	TPH 8015	BTEX 8021	ANALYSIS REQUEST	Preservative Codes	Sample Comments
SS01	Soil	6/17/2025	1535	0.5'	Grab	1	X	X	X		None: NO Geol: Cool HCL: HC H ₂ SO ₄ : H ₂ H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC	
SS02	Soil	6/17/2025	1533	0.5'	Grab	1	X	X	X			
SS03	Soil	6/17/2025	1531	0.5'	Grab	1	X	X	X			
SS04	Soil	6/17/2025	1529	0.5'	Grab	1	X	X	X			
SS05	Soil	6/17/2025	1504	0.5'	Grab	1	X	X	X			
SS06	Soil	6/17/2025	1502	0.5'	Grab	1	X	X	X			
SS07	Soil	6/17/2025	1459	0.5'	Grab	1	X	X	X			
SS08	Soil	6/17/2025	1457	0.5'	Grab	1	X	X	X			
SS09	Soil	6/17/2025	1507	0.5'	Grab	1	X	X	X			

Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM	Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed		TCPLP / SPLP 6010:	8RCRA	Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U
			Hg:	1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		6/18 13:52			
		6/18 14:10			

Eurofins Carlsbad

1089 N Canal St
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)		Sampler:	Lab PM:		Carrier Tracking No(s):		COC No:							
Client Contact:		N/A	Kramer, Jessica		N/A		890-5282.1							
Shipping/Receiving:		Phone:	E-Mail:		State of Origin:		Page:							
Eurofins Environment Testing South Cent		N/A	Jessica.Kramer@et.eurofins.com		New Mexico		Page 1 of 1							
Address:		Due Date Requested:		Accreditations Required (See note):		Job #:								
1211 W. Florida Ave.		6/24/2025		NELAP - Texas		890-8297-1								
City:		TAT Requested (days):		Analysis Requested										
Midland		N/A												
State Zip:														
TX, 79701														
Phone:		PO #												
432-704-5440(Tel)		N/A												
Email:		WO #												
N/A		N/A												
Project Name:		Project #												
WARREN UNIT BATTERY 5		89000236												
Site:		SSOW#												
N/A		N/A												
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=solid, O=soil, A=Asphalt, B=Trass, A=Al)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep(MOD) Full TPH	8015MOD_Calc	300_ORGFM_28D/DI_LEACHChloride	8021B/5035FP_Calc(MOD) BTEX	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note:
SS 01 (890-8297-1)	6/17/25	15:08	Mountain	G	Solid	X	X	X	X	X	X	X	1	
SS 02 (890-8297-2)	6/17/25	15:33	Mountain	G	Solid	X	X	X	X	X	X	X	1	
SS 03 (890-8297-3)	6/17/25	13:31	Mountain	G	Solid	X	X	X	X	X	X	X	1	
SS 04 (890-8297-4)	6/17/25	15:29	Mountain	G	Solid	X	X	X	X	X	X	X	1	
SS 05 (890-8297-5)	6/17/25	15:04	Mountain	G	Solid	X	X	X	X	X	X	X	1	
SS 06 (890-8297-6)	6/17/25	15:02	Mountain	G	Solid	X	X	X	X	X	X	X	1	
SS 07 (890-8297-7)	6/17/25	14:59	Mountain	G	Solid	X	X	X	X	X	X	X	1	
SS 08 (890-8297-8)	6/17/25	14:57	Mountain	G	Solid	X	X	X	X	X	X	X	1	
SS 09 (890-8297-9)	6/17/25	15:07	Mountain	G	Solid	X	X	X	X	X	X	X	1	
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Cent, LLC places the ownership of method, analyte & accreditation compliance upon our 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/shipment being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Cent, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Cent, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Cent, LLC.														
Possible Hazard Identification														
Unconfirmed														
Deliverable Requested: I, II, III, IV, Other (specify)														
Primary Deliverable Rank: 2														
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)														
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months														
Special Instructions/OC Requirements:														
Empty Kit Relinquished by:														
Date/Time: 6/18 16:30 Company: Received by: [Signature] Date/Time: 6/19/25 0800 Company: [Signature]														
Relinquished by: [Signature] Date/Time: Company: Received by: [Signature] Date/Time: Company: [Signature]														
Relinquished by: Date/Time: Company: Received by: [Signature] Date/Time: Company: [Signature]														
Custody Seals Intact: A Yes A No Custody Seal No.: Cooler/temperature/C and other Remarks: IR-8 (-0.1)														

Eurofins Carlsbad

1089 N Canal St.
Carlsbad, NM 86220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)		Sampler Kramer, Jessica		COC No. 890-5282.1																							
Client Contact: Shipping/Receiving		E-Mail: Jessica.Kramer@et.eurofinsus.com		Page: Page 1 of 1																							
Company Eurofins Environment Testing South Cent		Accreditations Required (See note): NELAP - Texas		Job #: 890-8297-1																							
Address: 1211 W. Florida Ave.		Due Date Requested: 6/24/2025		Preservation Codes:																							
City: Midland		TAT Requested (days): N/A		Analysis Requested																							
State, Zip TX, 79701		PO #: N/A		8015MOD_NM/8015NM_S_Prep(MOD) Full TPH																							
Phone: 432-704-5440(Tel)		WFO #: N/A		8015MOD_Calc																							
Email: N/A		Project #: 89000236		300_ORGFM_28D/DI_LEACHChloride																							
Project Name WARREN UNIT BATTERY 5		SSOW#: N/A		8021B/5035FP_Calc(MOD) BTEX																							
Site: N/A		Field Filtered Sample (Yes or No) ☒		Total_BTEX_GCV																							
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=oil, M=mud, A=air, B=bottoms, N=none)		Preservation Code:		Field Filtered Sample (Yes or No) ☒		Perform MS/MSD (Yes or No) ☒		8015MOD_NM/8015NM_S_Prep(MOD) Full TPH		8015MOD_Calc		300_ORGFM_28D/DI_LEACHChloride		8021B/5035FP_Calc(MOD) BTEX		Total_BTEX_GCV		Total Number of containers		Special Instructions/Note:	
SS 01 (890-8297-1)		6/17/25		15:08		G		Solid		☒		☒		X		X		X		X		X		1			
SS 02 (890-8297-2)		6/17/25		15:33		G		Solid		☒		☒		X		X		X		X		X		1			
SS 03 (890-8297-3)		6/17/25		15:31		G		Solid		☒		☒		X		X		X		X		X		1			
SS 04 (890-8297-4)		6/17/25		15:29		G		Solid		☒		☒		X		X		X		X		X		1			
SS 05 (890-8297-5)		6/17/25		15:04		G		Solid		☒		☒		X		X		X		X		X		1			
SS 06 (890-8297-6)		6/17/25		13:02		G		Solid		☒		☒		X		X		X		X		X		1			
SS 07 (890-8297-7)		6/17/25		14:59		G		Solid		☒		☒		X		X		X		X		X		1			
SS 08 (890-8297-8)		6/17/25		14:57		G		Solid		☒		☒		X		X		X		X		X		1			
SS 09 (890-8297-9)		6/17/25		15:07		G		Solid		☒		☒		X		X		X		X		X		1			
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our 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/test/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 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 signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.																											
Possible Hazard Identification																											
Unconfirmed																											
Deliverable Requested: I, II, III, IV, Other (specify)																											
Primary Deliverable Rank: 2																											
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)																											
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ☐ Months																											
Special Instructions/QC Requirements:																											
Empty Kit Relinquished by:																											
Relinquished by:																											
Relinquished by:																											
Relinquished by:																											
Custody Seals Intact:																											
Custody Seal No.:																											
A Yes A No																											

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8297-1

SDG Number: 07A1988234

Login Number: 8297**List Number: 1****Creator: Bruns, Shannon****List Source: Eurofins Carlsbad**

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8297-1

SDG Number: 07A1988234

Login Number: 8297

List Number: 2

Creator: Rios, Minerva

List Source: Eurofins Midland

List Creation: 06/19/25 09:25 AM

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

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

December 16, 2025

KARA NAEGELI

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: WARREN UNIT BATTERY 5

Enclosed are the results of analyses for samples received by the laboratory on 10/20/25 13:28.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at

www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705

Project: WARREN UNIT BATTERY 5
Project Number: 07A1988234
Project Manager: KARA NAEGELI
Fax To:

Reported:
16-Dec-25 16:02

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01A 1'	H256601-01	Soil	20-Oct-25 09:45	20-Oct-25 13:28
SS02A 1'	H256601-02	Soil	20-Oct-25 09:50	20-Oct-25 13:28
SS03A 1'	H256601-03	Soil	20-Oct-25 10:00	20-Oct-25 13:28
SS04A 1'	H256601-04	Soil	20-Oct-25 10:05	20-Oct-25 13:28

12/16/25 - Client changed the sample IDs on all samples (see COC). This is the revised report and will replace the one sent on 10/24/25.

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence or any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

A handwritten signature in cursive script, appearing to read "Coley D. Keene", written in black ink.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705

Project: WARREN UNIT BATTERY 5
Project Number: 07A1988234
Project Manager: KARA NAEGELI
Fax To:

Reported:
16-Dec-25 16:02

SS01A 1'
H256601-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	5102123	HM	21-Oct-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5102045	JH	22-Oct-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5102045	JH	22-Oct-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5102045	JH	22-Oct-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5102045	JH	22-Oct-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5102045	JH	22-Oct-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 120 % 70.4-141 5102045 JH 22-Oct-25 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5102041	MS	21-Oct-25	8015B	
DRO >C10-C28*	349		10.0	mg/kg	1	5102041	MS	21-Oct-25	8015B	
EXT DRO >C28-C36	133		10.0	mg/kg	1	5102041	MS	21-Oct-25	8015B	

Surrogate: 1-Chlorooctane 95.2 % 52.4-130 5102041 MS 21-Oct-25 8015B

Surrogate: 1-Chlorooctadecane 97.3 % 39.9-141 5102041 MS 21-Oct-25 8015B

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705

Project: WARREN UNIT BATTERY 5
Project Number: 07A1988234
Project Manager: KARA NAEGELI
Fax To:

Reported:
16-Dec-25 16:02

SS02A 1'
H256601-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	512		16.0	mg/kg	4	5102123	HM	21-Oct-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5102045	JH	22-Oct-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5102045	JH	22-Oct-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5102045	JH	22-Oct-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5102045	JH	22-Oct-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5102045	JH	22-Oct-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			119 %	70.4-141		5102045	JH	22-Oct-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	15.9		10.0	mg/kg	1	5102041	MS	21-Oct-25	8015B	
DRO >C10-C28*	1740		10.0	mg/kg	1	5102041	MS	21-Oct-25	8015B	
EXT DRO >C28-C36	454		10.0	mg/kg	1	5102041	MS	21-Oct-25	8015B	

Surrogate: 1-Chlorooctane			96.7 %	52.4-130		5102041	MS	21-Oct-25	8015B	
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Surrogate: 1-Chlorooctadecane			133 %	39.9-141		5102041	MS	21-Oct-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705

Project: WARREN UNIT BATTERY 5
Project Number: 07A1988234
Project Manager: KARA NAEGELI
Fax To:

Reported:
16-Dec-25 16:02

SS03A 1'
H256601-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	64.0		16.0	mg/kg	4	5102123	HM	21-Oct-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5102045	JH	22-Oct-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5102045	JH	22-Oct-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5102045	JH	22-Oct-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5102045	JH	22-Oct-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5102045	JH	22-Oct-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		116 %		70.4-141		5102045	JH	22-Oct-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5102041	MS	21-Oct-25	8015B	
DRO >C10-C28*	347		10.0	mg/kg	1	5102041	MS	21-Oct-25	8015B	
EXT DRO >C28-C36	161		10.0	mg/kg	1	5102041	MS	21-Oct-25	8015B	

Surrogate: 1-Chlorooctane		95.9 %		52.4-130		5102041	MS	21-Oct-25	8015B	
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Surrogate: 1-Chlorooctadecane		99.9 %		39.9-141		5102041	MS	21-Oct-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705

Project: WARREN UNIT BATTERY 5
Project Number: 07A1988234
Project Manager: KARA NAEGELI
Fax To:

Reported:
16-Dec-25 16:02

SS04A 1'
H256601-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	48.0		16.0	mg/kg	4	5102123	HM	21-Oct-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5102045	JH	22-Oct-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5102045	JH	22-Oct-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5102045	JH	22-Oct-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5102045	JH	22-Oct-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5102045	JH	22-Oct-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			117 %	70.4-141		5102045	JH	22-Oct-25	8021B	
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Petroleum Hydrocarbons by GC FID**S-04**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5102041	MS	21-Oct-25	8015B	
DRO >C10-C28*	2090		10.0	mg/kg	1	5102041	MS	21-Oct-25	8015B	
EXT DRO >C28-C36	672		10.0	mg/kg	1	5102041	MS	21-Oct-25	8015B	

Surrogate: 1-Chlorooctane			98.2 %	52.4-130		5102041	MS	21-Oct-25	8015B	
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Surrogate: 1-Chlorooctadecane			171 %	39.9-141		5102041	MS	21-Oct-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705

Project: WARREN UNIT BATTERY 5
Project Number: 07A1988234
Project Manager: KARA NAEGELI
Fax To:

Reported:
16-Dec-25 16:02

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 5102123 - 1:4 DI Water									
Blank (5102123-BLK1)									
					Prepared & Analyzed: 21-Oct-25				
Chloride	ND	16.0	mg/kg						
LCS (5102123-BS1)									
					Prepared & Analyzed: 21-Oct-25				
Chloride	432	16.0	mg/kg	400		108	80-120		
LCS Dup (5102123-BSD1)									
					Prepared & Analyzed: 21-Oct-25				
Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705

Project: WARREN UNIT BATTERY 5
Project Number: 07A1988234
Project Manager: KARA NAEGELI
Fax To:

Reported:
16-Dec-25 16:02

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5102045 - Volatiles**Blank (5102045-BLK1)**

Prepared: 20-Oct-25 Analyzed: 22-Oct-25

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0568		mg/kg	0.0500		114	70.4-141			

LCS (5102045-BS1)

Prepared: 20-Oct-25 Analyzed: 21-Oct-25

Benzene	2.21	0.050	mg/kg	2.00		110	71-111			
Toluene	2.20	0.050	mg/kg	2.00		110	75-116			
Ethylbenzene	2.28	0.050	mg/kg	2.00		114	74.2-119			
m,p-Xylene	4.64	0.100	mg/kg	4.00		116	72.5-123			
o-Xylene	2.33	0.050	mg/kg	2.00		116	70.5-124			
Total Xylenes	6.97	0.150	mg/kg	6.00		116	72.2-123			
Surrogate: 4-Bromofluorobenzene (PID)	0.0541		mg/kg	0.0500		108	70.4-141			

LCS Dup (5102045-BSD1)

Prepared: 20-Oct-25 Analyzed: 22-Oct-25

Benzene	2.21	0.050	mg/kg	2.00		110	71-111	0.0177	17.6	
Toluene	2.15	0.050	mg/kg	2.00		108	75-116	2.33	14.8	
Ethylbenzene	2.20	0.050	mg/kg	2.00		110	74.2-119	3.43	14.2	
m,p-Xylene	4.50	0.100	mg/kg	4.00		112	72.5-123	3.22	13.6	
o-Xylene	2.26	0.050	mg/kg	2.00		113	70.5-124	3.09	13.7	
Total Xylenes	6.75	0.150	mg/kg	6.00		113	72.2-123	3.18	13.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0524		mg/kg	0.0500		105	70.4-141			

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705

Project: WARREN UNIT BATTERY 5
Project Number: 07A1988234
Project Manager: KARA NAEGELI
Fax To:

Reported:
16-Dec-25 16:02

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 5102041 - General Prep - Organics**Blank (5102041-BLK1)**

Prepared: 20-Oct-25 Analyzed: 21-Oct-25

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	50.8		mg/kg	50.0		102	52.4-130		
Surrogate: 1-Chlorooctadecane	47.7		mg/kg	50.0		95.4	39.9-141		

LCS (5102041-BS1)

Prepared: 20-Oct-25 Analyzed: 21-Oct-25

GRO C6-C10	235	10.0	mg/kg	200		117	78.7-123		
DRO >C10-C28	217	10.0	mg/kg	200		109	74.8-123		
Total TPH C6-C28	452	10.0	mg/kg	400		113	78.6-121		
Surrogate: 1-Chlorooctane	53.4		mg/kg	50.0		107	52.4-130		
Surrogate: 1-Chlorooctadecane	52.1		mg/kg	50.0		104	39.9-141		

LCS Dup (5102041-BSD1)

Prepared: 20-Oct-25 Analyzed: 21-Oct-25

GRO C6-C10	241	10.0	mg/kg	200		120	78.7-123	2.63	11.3
DRO >C10-C28	219	10.0	mg/kg	200		110	74.8-123	1.03	10.9
Total TPH C6-C28	460	10.0	mg/kg	400		115	78.6-121	1.86	10.5
Surrogate: 1-Chlorooctane	54.0		mg/kg	50.0		108	52.4-130		
Surrogate: 1-Chlorooctadecane	51.4		mg/kg	50.0		103	39.9-141		

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC				BILL TO				P.O. #:	ANALYSIS REQUEST
Project Manager: KARA NAEGELI								Company: HILCORP ENERGY	
Address: 601 N MARINEFELD								Attn: BILLY GINN	
City: Midland				State: TX Zip: 79701				Address:	
Phone #: 512 709 8493				Fax #:				City:	
Project #: 07A1588234				Project Owner: HILCORP ENERGY				State:	
Project Name: MAREN UNIT BATTERY 5				Phone #:				Zip:	
Project Location: EDDY COUNTY				Fax #:					
Sampler Name: Rick Ayuka / Jackson Engels.									

FOR LAB USE ONLY		SAMPLE INFORMATION		PRESERVATION		SAMPLING	TESTS	
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX	DATE	TIME	
					GROUNDEWATER WASTEWATER SOIL OIL SLUDGE OTHER :	ACID/BASE: ICE / COOL OTHER :		
HASQUAI	SC01 A	1	G 1	X		X	10/20/25 0945	TPH (8015)
	SC02 A	1	G 1	X		X	0850	BTEX (8021)
	SC03 A	1	G 1	X		X	1000	CHLORIDE (300/4500)
	SC04 A	1	G 1	X		X	10/20/25 1005	
	<i>KSA 12-10-25</i>							

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Relinquished By: _____		Date: 10-20-25		Received By: _____		Date: 10-20-25	
Time: 1335				Time: 1335			
Relinquished By: _____				Received By: _____			
Time: _____				Time: _____			

Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Overserved Temp.: °C 44.7 Corrected Temp.: °C 5.2		Sample Condition Cool Intact Yes ☒ No ☐ Yes ☐ No ☐		CHECKED BY: (Initials) ABP	
Turnaround Time: NO ISSUES		Standard Rush ☒		Bacteria (only) Sample Condition Cool Intact Yes ☐ No ☐		Thermometer ID #113 -#110D Correction Factor -.5°C to .3°C	
REMARKS: sample ID correction per client. Stockpile							

CONFIRMED 12-20-25



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

November 26, 2025

KARA NAEGELI

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: WARREN BATTERY UNIT 5

Enclosed are the results of analyses for samples received by the laboratory on 11/24/25 16:08.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
KARA NAEGELI
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 11/24/2025
Reported: 11/26/2025
Project Name: WARREN BATTERY UNIT 5
Project Number: 07A1988234
Project Location: 32.544, -103.14279

Sampling Date: 11/24/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS01 1.5 (H257397-01)

BTEX 8021B		mg/kg	Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2025	ND	1.97	98.4	2.00	0.936	
Toluene*	<0.050	0.050	11/25/2025	ND	2.00	99.9	2.00	0.913	
Ethylbenzene*	<0.050	0.050	11/25/2025	ND	1.99	99.4	2.00	0.954	
Total Xylenes*	<0.150	0.150	11/25/2025	ND	6.33	106	6.00	0.784	
Total BTEX	<0.300	0.300	11/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 70.4-141

Chloride, SM4500Cl-B		mg/kg	Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/25/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/25/2025	ND	202	101	200	0.275	
DRO >C10-C28*	47.4	10.0	11/25/2025	ND	188	93.8	200	3.52	
EXT DRO >C28-C36	15.0	10.0	11/25/2025	ND					

Surrogate: 1-Chlorooctane 92.6 % 52.4-130

Surrogate: 1-Chlorooctadecane 94.7 % 39.9-141

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
KARA NAEGELI
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 11/24/2025
Reported: 11/26/2025
Project Name: WARREN BATTERY UNIT 5
Project Number: 07A1988234
Project Location: 32.544, -103.14279

Sampling Date: 11/24/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS02 1 (H257397-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/25/2025	ND	1.97	98.4	2.00	0.936		
Toluene*	<0.050	0.050	11/25/2025	ND	2.00	99.9	2.00	0.913		
Ethylbenzene*	<0.050	0.050	11/25/2025	ND	1.99	99.4	2.00	0.954		
Total Xylenes*	<0.150	0.150	11/25/2025	ND	6.33	106	6.00	0.784		
Total BTEX	<0.300	0.300	11/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	992	16.0	11/25/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/25/2025	ND	202	101	200	0.275	
DRO >C10-C28*	65.6	10.0	11/25/2025	ND	188	93.8	200	3.52	
EXT DRO >C28-C36	15.2	10.0	11/25/2025	ND					

Surrogate: 1-Chlorooctane 72.8 % 52.4-130

Surrogate: 1-Chlorooctadecane 71.9 % 39.9-141

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
KARA NAEGELI
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 11/24/2025
Reported: 11/26/2025
Project Name: WARREN BATTERY UNIT 5
Project Number: 07A1988234
Project Location: 32.544, -103.14279

Sampling Date: 11/24/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS03 1.5 (H257397-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/25/2025	ND	1.97	98.4	2.00	0.936		
Toluene*	<0.050	0.050	11/25/2025	ND	2.00	99.9	2.00	0.913		
Ethylbenzene*	<0.050	0.050	11/25/2025	ND	1.99	99.4	2.00	0.954		
Total Xylenes*	<0.150	0.150	11/25/2025	ND	6.33	106	6.00	0.784		
Total BTEx	<0.300	0.300	11/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	11/25/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/25/2025	ND	202	101	200	0.275	
DRO >C10-C28*	45.8	10.0	11/25/2025	ND	188	93.8	200	3.52	
EXT DRO >C28-C36	23.0	10.0	11/25/2025	ND					

Surrogate: 1-Chlorooctane 80.8 % 52.4-130

Surrogate: 1-Chlorooctadecane 79.5 % 39.9-141

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
KARA NAEGELI
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 11/24/2025
Reported: 11/26/2025
Project Name: WARREN BATTERY UNIT 5
Project Number: 07A1988234
Project Location: 32.544, -103.14279

Sampling Date: 11/24/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS04 0.5 (H257397-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/25/2025	ND	1.97	98.4	2.00	0.936		
Toluene*	<0.050	0.050	11/25/2025	ND	2.00	99.9	2.00	0.913		
Ethylbenzene*	<0.050	0.050	11/25/2025	ND	1.99	99.4	2.00	0.954		
Total Xylenes*	<0.150	0.150	11/25/2025	ND	6.33	106	6.00	0.784		
Total BTEX	<0.300	0.300	11/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/25/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/25/2025	ND	202	101	200	0.275	
DRO >C10-C28*	29.8	10.0	11/25/2025	ND	188	93.8	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	11/25/2025	ND					

Surrogate: 1-Chlorooctane 79.7 % 52.4-130

Surrogate: 1-Chlorooctadecane 78.7 % 39.9-141

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
KARA NAEGELI
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 11/24/2025
Reported: 11/26/2025
Project Name: WARREN BATTERY UNIT 5
Project Number: 07A1988234
Project Location: 32.544, -103.14279

Sampling Date: 11/24/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS05 0.5 (H257397-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/25/2025	ND	1.97	98.4	2.00	0.936		
Toluene*	<0.050	0.050	11/25/2025	ND	2.00	99.9	2.00	0.913		
Ethylbenzene*	<0.050	0.050	11/25/2025	ND	1.99	99.4	2.00	0.954		
Total Xylenes*	<0.150	0.150	11/25/2025	ND	6.33	106	6.00	0.784		
Total BTEX	<0.300	0.300	11/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	11/25/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/25/2025	ND	202	101	200	0.275	
DRO >C10-C28*	67.2	10.0	11/25/2025	ND	188	93.8	200	3.52	
EXT DRO >C28-C36	10.7	10.0	11/25/2025	ND					

Surrogate: 1-Chlorooctane 83.3 % 52.4-130

Surrogate: 1-Chlorooctadecane 82.9 % 39.9-141

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
KARA NAEGELI
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 11/24/2025
Reported: 11/26/2025
Project Name: WARREN BATTERY UNIT 5
Project Number: 07A1988234
Project Location: 32.544, -103.14279

Sampling Date: 11/24/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS06 0.5 (H257397-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/25/2025	ND	1.97	98.4	2.00	0.936		
Toluene*	<0.050	0.050	11/25/2025	ND	2.00	99.9	2.00	0.913		
Ethylbenzene*	<0.050	0.050	11/25/2025	ND	1.99	99.4	2.00	0.954		
Total Xylenes*	<0.150	0.150	11/25/2025	ND	6.33	106	6.00	0.784		
Total BTEX	<0.300	0.300	11/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/25/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/26/2025	ND	199	99.7	200	0.649	
DRO >C10-C28*	66.9	10.0	11/26/2025	ND	187	93.4	200	0.126	
EXT DRO >C28-C36	14.0	10.0	11/26/2025	ND					

Surrogate: 1-Chlorooctane 93.2 % 52.4-130

Surrogate: 1-Chlorooctadecane 90.9 % 39.9-141

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
KARA NAEGELI
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 11/24/2025
Reported: 11/26/2025
Project Name: WARREN BATTERY UNIT 5
Project Number: 07A1988234
Project Location: 32.544, -103.14279

Sampling Date: 11/24/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS08 2 (H257397-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/25/2025	ND	1.97	98.4	2.00	0.936		
Toluene*	<0.050	0.050	11/25/2025	ND	2.00	99.9	2.00	0.913		
Ethylbenzene*	<0.050	0.050	11/25/2025	ND	1.99	99.4	2.00	0.954		
Total Xylenes*	<0.150	0.150	11/25/2025	ND	6.33	106	6.00	0.784		
Total BTEX	<0.300	0.300	11/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/25/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/26/2025	ND	199	99.7	200	0.649	
DRO >C10-C28*	146	10.0	11/26/2025	ND	187	93.4	200	0.126	
EXT DRO >C28-C36	40.4	10.0	11/26/2025	ND					

Surrogate: 1-Chlorooctane 96.8 % 52.4-130

Surrogate: 1-Chlorooctadecane 95.0 % 39.9-141

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
KARA NAEGELI
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 11/24/2025
Reported: 11/26/2025
Project Name: WARREN BATTERY UNIT 5
Project Number: 07A1988234
Project Location: 32.544, -103.14279

Sampling Date: 11/24/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 01 0-1.5 (H257397-08)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2025	ND	1.97	98.4	2.00	0.936	
Toluene*	<0.050	0.050	11/25/2025	ND	2.00	99.9	2.00	0.913	
Ethylbenzene*	<0.050	0.050	11/25/2025	ND	1.99	99.4	2.00	0.954	
Total Xylenes*	<0.150	0.150	11/25/2025	ND	6.33	106	6.00	0.784	
Total BTX	<0.300	0.300	11/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	11/25/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/26/2025	ND	199	99.7	200	0.649	
DRO >C10-C28*	71.1	10.0	11/26/2025	ND	187	93.4	200	0.126	
EXT DRO >C28-C36	24.6	10.0	11/26/2025	ND					

Surrogate: 1-Chlorooctane 95.8 % 52.4-130

Surrogate: 1-Chlorooctadecane 89.7 % 39.9-141

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
KARA NAEGELI
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 11/24/2025
Reported: 11/26/2025
Project Name: WARREN BATTERY UNIT 5
Project Number: 07A1988234
Project Location: 32.544, -103.14279

Sampling Date: 11/24/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 02 0-1.5 (H257397-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/25/2025	ND	1.97	98.4	2.00	0.936		
Toluene*	<0.050	0.050	11/25/2025	ND	2.00	99.9	2.00	0.913		
Ethylbenzene*	<0.050	0.050	11/25/2025	ND	1.99	99.4	2.00	0.954		
Total Xylenes*	<0.150	0.150	11/25/2025	ND	6.33	106	6.00	0.784		
Total BTEX	<0.300	0.300	11/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	11/25/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/26/2025	ND	199	99.7	200	0.649	
DRO >C10-C28*	25.2	10.0	11/26/2025	ND	187	93.4	200	0.126	
EXT DRO >C28-C36	19.8	10.0	11/26/2025	ND					

Surrogate: 1-Chlorooctane 101 % 52.4-130

Surrogate: 1-Chlorooctadecane 96.4 % 39.9-141

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*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Mike Snyder", is written over a horizontal line.

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC Project Manager: Kase Nageli Address: 3122 National Parks Hwy City: Carlsbad State: NM Zip: 88220 Phone #: 505-709-2723 Fax #: Project #: 07A198834 Project Owner: Project Name: Warden Battery Unit 5 Project Location: 38.544, -103.14279 Sampler Name: MARIO SANCHEZ FOR LAB USE ONLY				BILL TO P.O. #: Company: Hilcorp Attn: Billy Ginn Address: City: State: Zip: Phone #: Fax #:				ANALYSIS REQUEST							
Lab I.D. HS5397		Sample I.D.		Depth (feet)		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING	
										GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER :		ACID/BASE: ICE / COOL OTHER :		DATE TIME	
1		FS01		1.5		C 1		✓		✓		11/24/05 0915		BTEX	
2		FS02		1		C 1		✓		✓		0917		TPH	
3		FS03		1.5		C 1		✓		✓		0918		Chloride	
4		FS04		0.5		C 1		✓		✓		1214			
5		FS05		0.5		C 1		✓		✓		1217			
6		FS06		0.5		C 1		✓		✓		1430			
7		FS08		2		C 1		✓		✓		1331			
8		SW01		0-1.5		C 1		✓		✓		1039			
9		SW02		0-1.5		C 1		✓		✓		1034			
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Relinquished By: Date: 1/24/05 Time: 1:00				Received By: Date: Time:				Verbal Result: ☐ Yes ☐ No ☐ Add'l Phone #: All Results are emailed. Please provide Email address:							
Relinquished By: Date: Time:				Received By: Date: Time:				REMARKS: Kase.nageli@ensolum.com / msanchez@ensolum.com CS-0402401K							
Delivered By: (Circle One) Sampler - UPS - Other:		Observed Temp. °C 3.4 Corrected Temp. °C 3.7 Sample Condition Cool Intact ☒ Yes ☐ No Bacteria (only) ☐ Yes ☐ No Turnaround Time: 48-49 hrs Thermometer ID #113 #150 Correction Factor -0.5°C		CHECKED BY: (Initials)		Standard ☒ Bacteria (only) ☐ Cool Intact ☐ Bacteria (only) ☐ Turnaround Time: 48-49 hrs Thermometer ID #113 #150 Correction Factor -0.5°C		Sample Condition Observed Temp. °C Corrected Temp. °C							



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

December 01, 2025

KARA NAEGELI

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: WARREN BATTERY UNIT 5

Enclosed are the results of analyses for samples received by the laboratory on 11/25/25 15:17.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
KARA NAEGELI
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 11/25/2025
Reported: 12/01/2025
Project Name: WARREN BATTERY UNIT 5
Project Number: 07A1988234
Project Location: HILCORP 32.544, -103.14279

Sampling Date: 11/25/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 07 1 (H257430-01)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/26/2025	ND	1.81	90.7	2.00	2.77		
Toluene*	<0.050	0.050	11/26/2025	ND	1.96	97.8	2.00	0.0550		
Ethylbenzene*	<0.050	0.050	11/26/2025	ND	1.95	97.4	2.00	1.63		
Total Xylenes*	<0.150	0.150	11/26/2025	ND	5.77	96.2	6.00	0.918		
Total BTEX	<0.300	0.300	11/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/26/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/26/2025	ND	191	95.3	200	3.47	
DRO >C10-C28*	20.3	10.0	11/26/2025	ND	185	92.5	200	6.50	
EXT DRO >C28-C36	10.4	10.0	11/26/2025	ND					

Surrogate: 1-Chlorooctane 86.9 % 52.4-130

Surrogate: 1-Chlorooctadecane 91.6 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
KARA NAEGELI
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 11/25/2025
Reported: 12/01/2025
Project Name: WARREN BATTERY UNIT 5
Project Number: 07A1988234
Project Location: HILCORP 32.544, -103.14279

Sampling Date: 11/25/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 09 0.5 (H257430-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/26/2025	ND	1.81	90.7	2.00	2.77		
Toluene*	<0.050	0.050	11/26/2025	ND	1.96	97.8	2.00	0.0550		
Ethylbenzene*	<0.050	0.050	11/26/2025	ND	1.95	97.4	2.00	1.63		
Total Xylenes*	<0.150	0.150	11/26/2025	ND	5.77	96.2	6.00	0.918		
Total BTEX	<0.300	0.300	11/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	11/26/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/26/2025	ND	191	95.3	200	3.47	
DRO >C10-C28*	59.0	10.0	11/26/2025	ND	185	92.5	200	6.50	
EXT DRO >C28-C36	41.8	10.0	11/26/2025	ND					

Surrogate: 1-Chlorooctane 80.6 % 52.4-130

Surrogate: 1-Chlorooctadecane 83.2 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
KARA NAEGELI
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 11/25/2025
Reported: 12/01/2025
Project Name: WARREN BATTERY UNIT 5
Project Number: 07A1988234
Project Location: HILCORP 32.544, -103.14279

Sampling Date: 11/25/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SW 03 0-0.5 (H257430-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/26/2025	ND	1.81	90.7	2.00	2.77		
Toluene*	<0.050	0.050	11/26/2025	ND	1.96	97.8	2.00	0.0550		
Ethylbenzene*	<0.050	0.050	11/26/2025	ND	1.95	97.4	2.00	1.63		
Total Xylenes*	<0.150	0.150	11/26/2025	ND	5.77	96.2	6.00	0.918		
Total BTEx	<0.300	0.300	11/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	11/26/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/26/2025	ND	191	95.3	200	3.47	
DRO >C10-C28*	<10.0	10.0	11/26/2025	ND	185	92.5	200	6.50	
EXT DRO >C28-C36	<10.0	10.0	11/26/2025	ND					

Surrogate: 1-Chlorooctane 76.5 % 52.4-130

Surrogate: 1-Chlorooctadecane 77.3 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
KARA NAEGELI
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 11/25/2025
Reported: 12/01/2025
Project Name: WARREN BATTERY UNIT 5
Project Number: 07A1988234
Project Location: HILCORP 32.544, -103.14279

Sampling Date: 11/25/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SW 04 0-1 (H257430-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/26/2025	ND	1.81	90.7	2.00	2.77		
Toluene*	<0.050	0.050	11/26/2025	ND	1.96	97.8	2.00	0.0550		
Ethylbenzene*	<0.050	0.050	11/26/2025	ND	1.95	97.4	2.00	1.63		
Total Xylenes*	<0.150	0.150	11/26/2025	ND	5.77	96.2	6.00	0.918		
Total BTEX	<0.300	0.300	11/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/26/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/26/2025	ND	191	95.3	200	3.47	
DRO >C10-C28*	<10.0	10.0	11/26/2025	ND	185	92.5	200	6.50	
EXT DRO >C28-C36	<10.0	10.0	11/26/2025	ND					

Surrogate: 1-Chlorooctane 78.3 % 52.4-130

Surrogate: 1-Chlorooctadecane 79.8 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
KARA NAEGELI
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 11/25/2025
Reported: 12/01/2025
Project Name: WARREN BATTERY UNIT 5
Project Number: 07A1988234
Project Location: HILCORP 32.544, -103.14279

Sampling Date: 11/25/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SW 05 0-2 (H257430-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/26/2025	ND	1.81	90.7	2.00	2.77		
Toluene*	<0.050	0.050	11/26/2025	ND	1.96	97.8	2.00	0.0550		
Ethylbenzene*	<0.050	0.050	11/26/2025	ND	1.95	97.4	2.00	1.63		
Total Xylenes*	<0.150	0.150	11/26/2025	ND	5.77	96.2	6.00	0.918		
Total BTEX	<0.300	0.300	11/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/26/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/26/2025	ND	191	95.3	200	3.47	
DRO >C10-C28*	27.2	10.0	11/26/2025	ND	185	92.5	200	6.50	
EXT DRO >C28-C36	20.9	10.0	11/26/2025	ND					

Surrogate: 1-Chlorooctane 82.7 % 52.4-130

Surrogate: 1-Chlorooctadecane 84.2 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC

Project Manager: Kala Nagel

Address: 3122 National Parks Hwy

City: Carlsbad

State: NM Zip: 88220

Phone #: 512-709-2473

Fax #:

Project #: 074488234

Project Owner:

Project Name: Warren Battery Unit 5

State: Zip:

Project Location: 32,544, -103,14279

Phone #:

Sampler Name: Mario Sam NIS

Fax #:

BILL TO

ANALYSIS REQUEST

P.O. #:

Company: Hilerf

Attn: Billy Ginn

Address:

City:

State: Zip:

Phone #:

Fax #:

Project Manager: Kafa Nageli										P.O. #:			
Address: 3122 National Parks Hwy										Company: Hilerf			
City: Carlsbad										Attn: Billy Ginn			
State: NM										Address:			
Zip: 88220										City:			
Phone #: 512-709-2473										State:			
Fax #:										Zip:			
Project #: 07A1988234										Phone #:			
Project Owner:										Fax #:			
Project Name: Warren Battery Unit 5													
Project Location: 32,544,-103,14279													
Sample Name: Mario Samis													
FOR LAB USE ONLY													
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING	
					GROUNDWATER								
					WASTEWATER								
					SOIL								
					OIL								
					SLUDGE								
					OTHER :								
					ACID/BASE:								
					ICE / COOL								
					OTHER :								
					DATE								
					TIME								
11/25/95	PS07	1	C	1									
2	FS09	0.5	C	1									
3	SW03	0-0.5	C	1									
4	SW04	0-1	C	1									
5	SW05	0-2	C	1									
										</			

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated remedies or otherwise.

Relinquished By:

Date: 11/25/95

Received By:

Relinquished By:

Date: 11/25/95

Received By:

Delivered By: (Circle One)

Observed Temp. °C: 4.5

Sample Condition

CHECKED BY: (Initials)

Sampler - UPS - Bus - Other:

Corrected Temp. °C: 4.8

Sample Condition

CHECKED BY: (Initials)

Verbal Result: ☐ Yes ☐ No Add'l Phone #:
All Results are emailed. Please provide Email address:
REMARKS: K Nagel@ensolum.com/msn@ensolum.com

Turnaround Time: Standard

Thermometer ID: #113

Correction Factor: 0.5°C

Turnaround Time: Rush

Thermometer ID: #113

Correction Factor: 0.5°C

† Cardinal cannot accept verbal changes. Please email changes to caley.keene@cardinallabsnm.com



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

December 04, 2025

KARA NAEGELI

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: WARREN BATTERY UNIT 5

Enclosed are the results of analyses for samples received by the laboratory on 12/03/25 15:44.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
KARA NAEGELI
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 12/03/2025
Reported: 12/04/2025
Project Name: WARREN BATTERY UNIT 5
Project Number: 07A1988234
Project Location: HILCORP 32.544, -103.14279

Sampling Date: 12/02/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SW 06 0-0.5' (H257535-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2025	ND	2.21	110	2.00	7.63	
Toluene*	0.086	0.050	12/04/2025	ND	2.16	108	2.00	6.81	
Ethylbenzene*	0.171	0.050	12/04/2025	ND	2.05	103	2.00	7.35	
Total Xylenes*	0.676	0.150	12/04/2025	ND	6.25	104	6.00	6.89	
Total BTX	0.933	0.300	12/04/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 135 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/04/2025	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	45.6	10.0	12/04/2025	ND	220	110	200	13.3		
DRO >C10-C28*	9070	10.0	12/04/2025	ND	221	111	200	5.59		
EXT DRO >C28-C36	1770	10.0	12/04/2025	ND						

Surrogate: 1-Chlorooctane 103 % 52.4-130

Surrogate: 1-Chlorooctadecane 416 % 39.9-141

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
KARA NAEGELI
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 12/03/2025
Reported: 12/04/2025
Project Name: WARREN BATTERY UNIT 5
Project Number: 07A1988234
Project Location: HILCORP 32.544, -103.14279

Sampling Date: 12/03/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SW 07 0-0.5' (H257535-02)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2025	ND	2.21	110	2.00	7.63	
Toluene*	<0.050	0.050	12/04/2025	ND	2.16	108	2.00	6.81	
Ethylbenzene*	0.054	0.050	12/04/2025	ND	2.05	103	2.00	7.35	
Total Xylenes*	0.368	0.150	12/04/2025	ND	6.25	104	6.00	6.89	
Total BTEX	0.422	0.300	12/04/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 138 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/04/2025	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	24.0	10.0	12/04/2025	ND	220	110	200	13.3	
DRO >C10-C28*	728	10.0	12/04/2025	ND	221	111	200	5.59	
EXT DRO >C28-C36	187	10.0	12/04/2025	ND					

Surrogate: 1-Chlorooctane 85.7 % 52.4-130

Surrogate: 1-Chlorooctadecane 137 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
KARA NAEGELI
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 12/03/2025
Reported: 12/04/2025
Project Name: WARREN BATTERY UNIT 5
Project Number: 07A1988234
Project Location: HILCORP 32.544, -103.14279

Sampling Date: 12/03/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SW 08 0-2' (H257535-03)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2025	ND	2.21	110	2.00	7.63	
Toluene*	<0.050	0.050	12/04/2025	ND	2.16	108	2.00	6.81	
Ethylbenzene*	<0.050	0.050	12/04/2025	ND	2.05	103	2.00	7.35	
Total Xylenes*	0.231	0.150	12/04/2025	ND	6.25	104	6.00	6.89	
Total BTEX	<0.300	0.300	12/04/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/04/2025	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	11.8	10.0	12/04/2025	ND	220	110	200	13.3	
DRO >C10-C28*	756	10.0	12/04/2025	ND	221	111	200	5.59	
EXT DRO >C28-C36	218	10.0	12/04/2025	ND					

Surrogate: 1-Chlorooctane 85.7 % 52.4-130

Surrogate: 1-Chlorooctadecane 111 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-04	The RPD for the BS/BSD was outside of historical limits.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

1 of 1

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum Project Manager: Kara Naedeli Address: 3122 National Parks Hwy City: Carlsbad State: NM Zip: 88220 Phone #: 512-769-2473 Fax #: Project #: 0741988334 Project Owner: HILCORP Project Name: Wagon Battery Unit #5 Project Location: Lea County, NM Sampler Name: Sherie Brooks Man's Satis		P.O. #: Company: HILCORP Attn: Billy Ginn Address: City: State: Zip: Phone #: Fax #:	
FOR LAB USE ONLY Lab I.D. Sample I.D. Sample Depth (G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER: DATE TIME		MATRIX PRESERV. SAMPLING ABTEX 8024 TPH 8015 Chloride 4500 DATE TIME	
Relinquished By: Date: Time: Received By: Date: Time:		Verbal Result: ☐ Yes ☐ No ☐ Add'l Phone #: Remarks: Turnaround Time: ☐ Standard ☐ Rush Thermometer ID #140 Correction Factor +0.3°C Bacteria (only) ☐ Yes ☐ No Cool Intact ☐ Yes ☐ No Sample Condition ☐ Yes ☐ No Checked By: (Initials) Turnaround Time: ☐ Standard ☐ Rush Thermometer ID #140 Correction Factor +0.3°C Bacteria (only) ☐ Yes ☐ No Cool Intact ☐ Yes ☐ No Sample Condition ☐ Yes ☐ No Checked By: (Initials)	



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

December 04, 2025

KARA NAEGELI

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: WARREN BATTERY UNIT 5

Enclosed are the results of analyses for samples received by the laboratory on 12/03/25 15:44.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
KARA NAEGELI
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	12/03/2025	Sampling Date:	12/03/2025
Reported:	12/04/2025	Sampling Type:	Soil
Project Name:	WARREN BATTERY UNIT 5	Sampling Condition:	Cool & Intact
Project Number:	07A1988234	Sample Received By:	Alyssa Parras
Project Location:	HILCORP 32.544, -103.14279		

Sample ID: SW09 0-0.5' (H257533-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/03/2025	ND	2.21	110	2.00	7.63	
Toluene*	<0.050	0.050	12/03/2025	ND	2.16	108	2.00	6.81	
Ethylbenzene*	<0.050	0.050	12/03/2025	ND	2.05	103	2.00	7.35	
Total Xylenes*	<0.150	0.150	12/03/2025	ND	6.25	104	6.00	6.89	
Total BTEX	<0.300	0.300	12/03/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/04/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/03/2025	ND	220	110	200	13.3	
DRO >C10-C28*	100	10.0	12/03/2025	ND	221	111	200	5.59	
EXT DRO >C28-C36	61.2	10.0	12/03/2025	ND					

Surrogate: 1-Chlorooctane 68.4 % 52.4-130

Surrogate: 1-Chlorooctadecane 74.2 % 39.9-141

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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(575) 393-2326 FAX (575) 393-2476

1 of 1

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

December 16, 2025

KARA NAEGELI

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: WARREN BATTERY UNIT 5

Enclosed are the results of analyses for samples received by the laboratory on 12/03/25 15:44.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at

www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220Project: WARREN BATTERY UNIT 5
Project Number: 07A1988234
Project Manager: KARA NAEGELI
Fax To:Reported:
16-Dec-25 16:07

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS05A 0.5'	H257534-01	Soil	03-Dec-25 13:06	03-Dec-25 15:44
SS08A 0.5'	H257534-02	Soil	03-Dec-25 11:29	03-Dec-25 15:44

12/16/25 - Client changed the sample IDs (see COC). This is the revised report and will replace the one sent on 12/04/25.

Cardinal Laboratories

*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "C. Keene", written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: WARREN BATTERY UNIT 5
Project Number: 07A1988234
Project Manager: KARA NAEGELI
Fax To:

Reported:
16-Dec-25 16:07

SS05A 0.5'
H257534-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories**Inorganic Compounds**

Chloride	240		16.0	mg/kg	4	5120406	HM	04-Dec-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5120325	JH	03-Dec-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5120325	JH	03-Dec-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5120325	JH	03-Dec-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5120325	JH	03-Dec-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5120325	JH	03-Dec-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			96.2 %	70.4-141		5120325	JH	03-Dec-25	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5120323	MS	03-Dec-25	8015B	
DRO >C10-C28*	13.2		10.0	mg/kg	1	5120323	MS	03-Dec-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5120323	MS	03-Dec-25	8015B	
Surrogate: 1-Chlorooctane			79.4 %	52.4-130		5120323	MS	03-Dec-25	8015B	
Surrogate: 1-Chlorooctadecane			79.6 %	39.9-141		5120323	MS	03-Dec-25	8015B	

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: WARREN BATTERY UNIT 5
Project Number: 07A1988234
Project Manager: KARA NAEGELI
Fax To:

Reported:
16-Dec-25 16:07

SS08A 0.5'
H257534-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	80.0		16.0	mg/kg	4	5120406	HM	04-Dec-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5120325	JH	03-Dec-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5120325	JH	03-Dec-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5120325	JH	03-Dec-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5120325	JH	03-Dec-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5120325	JH	03-Dec-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			95.4 %	70.4-141		5120325	JH	03-Dec-25	8021B	
--	--	--	--------	----------	--	---------	----	-----------	-------	--

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5120323	MS	04-Dec-25	8015B	
DRO >C10-C28*	28.8		10.0	mg/kg	1	5120323	MS	04-Dec-25	8015B	
EXT DRO >C28-C36	17.9		10.0	mg/kg	1	5120323	MS	04-Dec-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			65.6 %	52.4-130		5120323	MS	04-Dec-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			65.4 %	39.9-141		5120323	MS	04-Dec-25	8015B	
--------------------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: WARREN BATTERY UNIT 5
Project Number: 07A1988234
Project Manager: KARA NAEGELI
Fax To:

Reported:
16-Dec-25 16:07

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 5120406 - 1:4 DI Water									
Blank (5120406-BLK1)				Prepared & Analyzed: 04-Dec-25					
Chloride	ND	16.0	mg/kg						
LCS (5120406-BS1)				Prepared & Analyzed: 04-Dec-25					
Chloride	416	16.0	mg/kg	400		104	80-120		
LCS Dup (5120406-BSD1)				Prepared & Analyzed: 04-Dec-25					
Chloride	432	16.0	mg/kg	400		108	80-120	3.77	20

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Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: WARREN BATTERY UNIT 5
Project Number: 07A1988234
Project Manager: KARA NAEGELI
Fax To:

Reported:
16-Dec-25 16:07

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5120325 - Volatiles**Blank (5120325-BLK1)**

Prepared & Analyzed: 03-Dec-25

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		97.4	70.4-141			

LCS (5120325-BS1)

Prepared & Analyzed: 03-Dec-25

Benzene	2.21	0.050	mg/kg	2.00		110	71-111			
Toluene	2.16	0.050	mg/kg	2.00		108	75-116			
Ethylbenzene	2.05	0.050	mg/kg	2.00		103	74.2-119			
m,p-Xylene	4.27	0.100	mg/kg	4.00		107	72.5-123			
o-Xylene	1.98	0.050	mg/kg	2.00		98.8	70.5-124			
Total Xylenes	6.25	0.150	mg/kg	6.00		104	72.2-123			
Surrogate: 4-Bromofluorobenzene (PID)	0.0488		mg/kg	0.0500		97.6	70.4-141			

LCS Dup (5120325-BSD1)

Prepared & Analyzed: 03-Dec-25

Benzene	2.04	0.050	mg/kg	2.00		102	71-111	7.63	17.6	
Toluene	2.02	0.050	mg/kg	2.00		101	75-116	6.81	14.8	
Ethylbenzene	1.91	0.050	mg/kg	2.00		95.3	74.2-119	7.35	14.2	
m,p-Xylene	3.99	0.100	mg/kg	4.00		99.9	72.5-123	6.71	13.6	
o-Xylene	1.84	0.050	mg/kg	2.00		91.9	70.5-124	7.28	13.7	
Total Xylenes	5.83	0.150	mg/kg	6.00		97.2	72.2-123	6.89	13.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0487		mg/kg	0.0500		97.4	70.4-141			

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Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: WARREN BATTERY UNIT 5
Project Number: 07A1988234
Project Manager: KARA NAEGELI
Fax To:

Reported:
16-Dec-25 16:07

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5120323 - General Prep - Organics**Blank (5120323-BLK1)**

Prepared & Analyzed: 03-Dec-25

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	32.0		mg/kg	50.0		64.1	52.4-130			
Surrogate: 1-Chlorooctadecane	31.9		mg/kg	50.0		63.9	39.9-141			

LCS (5120323-BS1)

Prepared & Analyzed: 03-Dec-25

GRO C6-C10	220	10.0	mg/kg	200		110	78.7-123			
DRO >C10-C28	221	10.0	mg/kg	200		111	74.8-123			
Total TPH C6-C28	441	10.0	mg/kg	400		110	78.6-121			
Surrogate: 1-Chlorooctane	56.4		mg/kg	50.0		113	52.4-130			
Surrogate: 1-Chlorooctadecane	51.9		mg/kg	50.0		104	39.9-141			

LCS Dup (5120323-BS1)

Prepared & Analyzed: 03-Dec-25

GRO C6-C10	192	10.0	mg/kg	200		96.2	78.7-123	13.3	11.3	QR-04
DRO >C10-C28	209	10.0	mg/kg	200		105	74.8-123	5.59	10.9	
Total TPH C6-C28	402	10.0	mg/kg	400		100	78.6-121	9.34	10.5	
Surrogate: 1-Chlorooctane	46.5		mg/kg	50.0		93.0	52.4-130			
Surrogate: 1-Chlorooctadecane	47.9		mg/kg	50.0		95.7	39.9-141			

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Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in cursive script, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

[illegible]

Page 9 of 9

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

December 10, 2025

KARA NAEGELI

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: WARREN BATTERY UNIT 5

Enclosed are the results of analyses for samples received by the laboratory on 12/05/25 9:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at

www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: WARREN BATTERY UNIT 5
Project Number: 07A1988234
Project Manager: KARA NAEGELI
Fax To:

Reported:
10-Dec-25 17:22

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW 06A 0-0.5'	H257575-01	Soil	05-Dec-25 08:00	05-Dec-25 09:50

12/10/25 - Client changed the sample ID (see COC). This is the revised report and will replace the one sent on 12/08/25.

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Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: WARREN BATTERY UNIT 5
Project Number: 07A1988234
Project Manager: KARA NAEGELI
Fax To:

Reported:
10-Dec-25 17:22

SW 06A 0-0.5'**H257575-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	5120532	KH	05-Dec-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5120430	JH	05-Dec-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5120430	JH	05-Dec-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5120430	JH	05-Dec-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5120430	JH	05-Dec-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5120430	JH	05-Dec-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			110 %	70.4-141		5120430	JH	05-Dec-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5120432	MS	05-Dec-25	8015B	
DRO >C10-C28*	39.0		10.0	mg/kg	1	5120432	MS	05-Dec-25	8015B	
EXT DRO >C28-C36	18.5		10.0	mg/kg	1	5120432	MS	05-Dec-25	8015B	

Surrogate: 1-Chlorooctane			86.2 %	52.4-130		5120432	MS	05-Dec-25	8015B	
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Surrogate: 1-Chlorooctadecane			81.7 %	39.9-141		5120432	MS	05-Dec-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: WARREN BATTERY UNIT 5
Project Number: 07A1988234
Project Manager: KARA NAEGELI
Fax To:

Reported:
10-Dec-25 17:22

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 5120532 - 1:4 DI Water									
Blank (5120532-BLK1)				Prepared & Analyzed: 05-Dec-25					
Chloride	ND	16.0	mg/kg						
LCS (5120532-BS1)				Prepared & Analyzed: 05-Dec-25					
Chloride	432	16.0	mg/kg	400		108	80-120		
LCS Dup (5120532-BSD1)				Prepared & Analyzed: 05-Dec-25					
Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20

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Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: WARREN BATTERY UNIT 5
Project Number: 07A1988234
Project Manager: KARA NAEGELI
Fax To:

Reported:
10-Dec-25 17:22

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5120430 - Volatiles**Blank (5120430-BLK1)**

Prepared: 04-Dec-25 Analyzed: 05-Dec-25

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0544		mg/kg	0.0500		109	70.4-141			

LCS (5120430-BS1)

Prepared: 04-Dec-25 Analyzed: 05-Dec-25

Benzene	1.79	0.050	mg/kg	2.00		89.3	71-111			
Toluene	1.88	0.050	mg/kg	2.00		94.1	75-116			
Ethylbenzene	1.86	0.050	mg/kg	2.00		92.9	74.2-119			
m,p-Xylene	3.71	0.100	mg/kg	4.00		92.8	72.5-123			
o-Xylene	1.78	0.050	mg/kg	2.00		89.1	70.5-124			
Total Xylenes	5.49	0.150	mg/kg	6.00		91.5	72.2-123			
Surrogate: 4-Bromofluorobenzene (PID)	0.0510		mg/kg	0.0500		102	70.4-141			

LCS Dup (5120430-BSD1)

Prepared: 04-Dec-25 Analyzed: 05-Dec-25

Benzene	1.76	0.050	mg/kg	2.00		87.8	71-111	1.78	17.6	
Toluene	1.89	0.050	mg/kg	2.00		94.3	75-116	0.220	14.8	
Ethylbenzene	1.82	0.050	mg/kg	2.00		91.0	74.2-119	1.99	14.2	
m,p-Xylene	3.67	0.100	mg/kg	4.00		91.7	72.5-123	1.13	13.6	
o-Xylene	1.82	0.050	mg/kg	2.00		90.9	70.5-124	2.03	13.7	
Total Xylenes	5.49	0.150	mg/kg	6.00		91.4	72.2-123	0.0960	13.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0498		mg/kg	0.0500		99.6	70.4-141			

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Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: WARREN BATTERY UNIT 5
Project Number: 07A1988234
Project Manager: KARA NAEGELI
Fax To:

Reported:
10-Dec-25 17:22

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5120432 - General Prep - Organics**Blank (5120432-BLK1)**

Prepared: 04-Dec-25 Analyzed: 05-Dec-25

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	46.8		mg/kg	50.0		93.6	52.4-130			
Surrogate: 1-Chlorooctadecane	43.5		mg/kg	50.0		87.0	39.9-141			

LCS (5120432-BS1)

Prepared: 04-Dec-25 Analyzed: 05-Dec-25

GRO C6-C10	218	10.0	mg/kg	200		109	78.7-123			
DRO >C10-C28	221	10.0	mg/kg	200		111	74.8-123			
Total TPH C6-C28	440	10.0	mg/kg	400		110	78.6-121			
Surrogate: 1-Chlorooctane	50.4		mg/kg	50.0		101	52.4-130			
Surrogate: 1-Chlorooctadecane	47.5		mg/kg	50.0		95.0	39.9-141			

LCS Dup (5120432-BSD1)

Prepared: 04-Dec-25 Analyzed: 05-Dec-25

GRO C6-C10	212	10.0	mg/kg	200		106	78.7-123	2.99	11.3	
DRO >C10-C28	215	10.0	mg/kg	200		108	74.8-123	2.86	10.9	
Total TPH C6-C28	427	10.0	mg/kg	400		107	78.6-121	2.92	10.5	
Surrogate: 1-Chlorooctane	49.8		mg/kg	50.0		99.7	52.4-130			
Surrogate: 1-Chlorooctadecane	47.4		mg/kg	50.0		94.9	39.9-141			

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

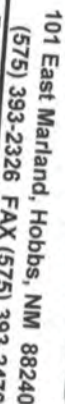
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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 8 of 8



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

November 18, 2025

KARA NAEGELI

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: WARREN UNIT BATTERY 5

Enclosed are the results of analyses for samples received by the laboratory on 11/14/25 9:54.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
KARA NAEGELI
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received: 11/14/2025
Reported: 11/18/2025
Project Name: WARREN UNIT BATTERY 5
Project Number: 07A1988234
Project Location: HILCORP - LEA CO NM

Sampling Date: 11/13/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: BF 01 SURFACE (H257177-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/14/2025	ND	1.93	96.7	2.00	1.47	
Toluene*	<0.050	0.050	11/14/2025	ND	1.97	98.7	2.00	0.422	
Ethylbenzene*	<0.050	0.050	11/14/2025	ND	1.92	95.8	2.00	0.561	
Total Xylenes*	<0.150	0.150	11/14/2025	ND	5.75	95.8	6.00	0.353	
Total BTX	<0.300	0.300	11/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/14/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/14/2025	ND	218	109	200	0.741	
DRO >C10-C28*	<10.0	10.0	11/14/2025	ND	218	109	200	3.05	
EXT DRO >C28-C36	<10.0	10.0	11/14/2025	ND					

Surrogate: 1-Chlorooctane 103 % 52.4-130

Surrogate: 1-Chlorooctadecane 98.5 % 39.9-141

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

March 06, 2026

KARA NAEGELI

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: WARREN BATTERY UNIT 5

Enclosed are the results of analyses for samples received by the laboratory on 03/02/26 16:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
KARA NAEGELI
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/02/2026
Reported: 03/06/2026
Project Name: WARREN BATTERY UNIT 5
Project Number: 07A1988234
Project Location: HILCORP 32.544, -103.14279

Sampling Date: 03/02/2026
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SW 10 0-1.25 (H261156-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2026	ND	1.88	93.9	2.00	2.83	
Toluene*	<0.050	0.050	03/03/2026	ND	1.90	95.0	2.00	6.67	
Ethylbenzene*	<0.050	0.050	03/03/2026	ND	1.98	99.1	2.00	4.70	
Total Xylenes*	<0.150	0.150	03/03/2026	ND	5.96	99.4	6.00	3.63	
Total BTX	<0.300	0.300	03/03/2026	ND					

Surrogate: 4-Bromofluorobenzene (PID) 130 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	672	16.0	03/03/2026	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/03/2026	ND	203	101	200	1.45	
DRO >C10-C28*	<10.0	10.0	03/03/2026	ND	182	91.0	200	3.49	
EXT DRO >C28-C36	<10.0	10.0	03/03/2026	ND					

Surrogate: 1-Chlorooctane 89.4 % 52.4-130

Surrogate: 1-Chlorooctadecane 86.8 % 39.9-141

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
KARA NAEGELI
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/02/2026
Reported: 03/06/2026
Project Name: WARREN BATTERY UNIT 5
Project Number: 07A1988234
Project Location: HILCORP 32.544, -103.14279

Sampling Date: 03/02/2026
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS09A 1.25 (H261156-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/03/2026	ND	1.88	93.9	2.00	2.83		
Toluene*	<0.050	0.050	03/03/2026	ND	1.90	95.0	2.00	6.67		
Ethylbenzene*	<0.050	0.050	03/03/2026	ND	1.98	99.1	2.00	4.70		
Total Xylenes*	<0.150	0.150	03/03/2026	ND	5.96	99.4	6.00	3.63		
Total BTEX	<0.300	0.300	03/03/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 122 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	03/03/2026	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/03/2026	ND	203	101	200	1.45	
DRO >C10-C28*	79.1	10.0	03/03/2026	ND	182	91.0	200	3.49	
EXT DRO >C28-C36	34.0	10.0	03/03/2026	ND					

Surrogate: 1-Chlorooctane 87.0 % 52.4-130

Surrogate: 1-Chlorooctadecane 88.5 % 39.9-141

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
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Cardinal Laboratories

*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



APPENDIX D

NMOCD Correspondence



Outlook

FW: The Oil Conservation Division (OCD) has accepted the application, Application ID: 474039

From Stuart Hyde <shyde@ensolum.com>

Date Mon 6/16/2025 5:34 PM

To Kalei Jennings <kjennings@ensolum.com>

Cc Devin Hencmann <dhencmann@ensolum.com>; Billy Ginn <william.ginn@hilcorp.com>

For the Warren Unit Battery 5.

**Stuart Hyde, PG**

(Licensed in TX, WA, & WY)

Senior Managing Geologist

970-903-1607

[Ensolum, LLC](#)

in f X

"If you want to go fast, go alone. If you want to go far, go together." – African Proverb

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>

Sent: Friday, June 13, 2025 2:32 PM

To: Stuart Hyde <shyde@ensolum.com>

Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 474039

[**EXTERNAL EMAIL**]

To whom it may concern (c/o Stuart Hyde for HILCORP ENERGY COMPANY),

The OCD has accepted the submitted *Notification of a release* (NOR), for incident ID (n#)

nAPP2516452330,

with the following conditions:

- **When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.**

Please reference nAPP2516452330, on all subsequent C-141 submissions and communications regarding the remediation of this release.

NOTE: As of December 2019, NMOCD has discontinued the use of the "RP" number.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

ocd.enviro@state.nm.us

New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive

Santa Fe, NM 87505

Kalei Jennings

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Thursday, September 11, 2025 9:50 AM
To: Kalei Jennings
Subject: RE: [EXTERNAL] NAPP2516452330 - Warren Unit Battery 5- Extension Request

You don't often get email from shelly.wells@emnrd.nm.gov. [Learn why this is important](#)

[**EXTERNAL EMAIL**]

Good morning Kalei,

A 90-day extension is approved for nAPP2516452330 Warren Unit Battery 5. A remediation plan or remediation closure report must be submitted to the OCD Permitting website no later than December 10, 2025. Please include a copy of this and all notifications in the report to ensure the notifications are documented in the project file.

Kind regards,

Shelly

Shelly Wells * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505
(505)469-7520 Shelly.Wells@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

From: Kalei Jennings <kjennings@ensolum.com>
Sent: Thursday, September 11, 2025 8:03 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Subject: [EXTERNAL] NAPP2516452330 - Warren Unit Battery 5- Extension Request

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

To Whom it May Concern,

On behalf of Hilcorp Energy Company, we respectfully submit this correspondence to provide an update on remediation activities and to formally request a 90-day extension for the Warren Unit Battery 5, located in Lea County, New Mexico (32.54411, -103.14279). The release occurred on June 13, 2025, and initial site assessment commenced on June 16, 2025, with additional efforts to delineate the extent of the release.

No depth to groundwater data is available within the NMOCD preferred 0.5 miles and 25-year recommendation. Hilcorp plans on drilling a soil boring to a depth greater than 100 feet bgs within 0.5 miles of the release to confirm the applicable Table I Closure Criteria. In order to complete excavation of

impacted soil, drill a depth to groundwater soil boring, conduct final confirmation soil sampling, and draft a closure or remediation work plan, Hilcorp respectfully requests a 90-day extension, extending the deadline from September 11, 2025, to December 10, 2025.

Thank you,



Kalei Jennings

Senior Managing Scientist

817-683-2503

[Ensolum, LLC](#)

in f X

Kalei Jennings

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Monday, December 8, 2025 4:20 PM
To: Kalei Jennings
Cc: Kara Naegeli; Bratcher, Michael, EMNRD
Subject: RE: [EXTERNAL] NAPP2516452330 - Warren Unit Battery 5- Extension Request

[**EXTERNAL EMAIL**]

Good afternoon Kalei,

A 30-day extension is approved for nAPP2516452330 WARREN UNIT BATTERY 5. A remediation closure report must be submitted to the OCD Permitting website no later than January 9, 2026. Please include a copy of this and all notifications in the report to ensure the notifications are documented in the project file.

Kind regards,

Shelly

Shelly Wells * Senior Environmental Scientist
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505
(505)469-7520 Shelly.Wells@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

From: Kalei Jennings <kjennings@ensolum.com>
Sent: Monday, December 8, 2025 2:21 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Kara Naegeli <knaegeli@ensolum.com>
Subject: [EXTERNAL] NAPP2516452330 - Warren Unit Battery 5- Extension Request

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

To Whom it May Concern,

On behalf of Hilcorp Energy Company, we respectfully submit this update on remediation activities and to formally request a 30-day extension for the Warren Unit Battery 5, located in Lea County, New Mexico (32.54411,-103.14279). The release occurred on June 13, 2025, and site assessment and remediation activities have commenced to address the release.

Following confirmation of driller availability, Hilcorp advanced to drilling a soil boring. Because no depth-to-groundwater data were available within the NMOCD-preferred 0.5-mile radius and 25-year

recommendation, Hilcorp drilled a soil boring to a depth greater than 100 feet bgs within 0.5 miles of the release to confirm the applicable Table I Closure Criteria on November 15, 2025.

The subject facility—has been under active remediation efforts for over two weeks. Progress at the Site has experienced slower-than-anticipated progress due to safety-related constraints. The site is an H₂S facility, and our contractors are actively monitoring air quality and adhering to strict safety protocols, which require frequent breaks and limit continuous work. Excavation activities at the Site were completed on December 5, 2025, and are awaiting final laboratory analytical results. In order to address any exceedances, conduct final confirmation soil sampling, and draft a closure or remediation work plan, Hilcorp respectfully requests a 30-day extension until January 9, 2026.

Thank you,



Kalei Jennings

Senior Managing Scientist

817-683-2503

[Ensolum, LLC](#)

in f X

From: OCDOnline@emnrd.nm.gov
To: [Kalei Jennings](#)
Subject: The Oil Conservation Division (OCD) has rejected the application, Application ID: 542194
Date: Friday, February 6, 2026 5:37:48 PM

[**EXTERNAL EMAIL**]

To whom it may concern (c/o Kalei Jennings for HILCORP ENERGY COMPANY),

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2516452330, for the following reasons:

- **Remediation closure denied for the following reasons:**
- **1) SS02A collected on 10/20/25, had GRO + DRO = 1,756 at 1' depth. According to Figure 3 this area was only excavated to .5'. Continue excavation in this area and collect confirmation samples representing no more than 200 square feet to confirm impacts have been removed.**
- **2) SW06 on 12/2/25 had TPH of 10,886 mg/kg. How much did you further the excavation prior to collecting SW06A? Photographic documentation showing this area of the excavation should be included.**
- **Submit an updated report to the OCD by 5/7/26.**

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 542194.

Please review and make the required correction(s) prior to resubmitting.

If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

Thank you,
Shelly Wells
Environmental Specialist-A
505-469-7520
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New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 578833

QUESTIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 578833
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2516452330
Incident Name	NAPP2516452330 WARREN UNIT BATTERY 5 @ E-27-20S-38E
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received

Location of Release Source*Please answer all the questions in this group.*

Site Name	WARREN UNIT BATTERY 5
Date Release Discovered	06/13/2025
Surface Owner	Private

Incident Details*Please answer all the questions in this group.*

Incident Type	Oil Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release*Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.*

Crude Oil Released (bbls) Details	Cause: Equipment Failure Valve Crude Oil Released: 61 BBL Recovered: 60 BBL Lost: 1 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS (continued)

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QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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.

I hereby agree and sign off to the above statement	Name: Stuart Hyde Title: Senior Geologist Email: shyde@ensolum.com Date: 04/24/2026
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Action 578833

QUESTIONS (continued)

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QUESTIONS

Site Characterization	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	992
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	2210
GRO+DRO (EPA SW-846 Method 8015M)	1756
BTEX (EPA SW-846 Method 8021B or 8260B)	0.4
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	06/17/2026
On what date will (or did) the final sampling or liner inspection occur	03/02/2026
On what date will (or was) the remediation complete(d)	03/02/2026
What is the estimated surface area (in square feet) that will be reclaimed	1812
What is the estimated volume (in cubic yards) that will be reclaimed	267
What is the estimated surface area (in square feet) that will be remediated	1812
What is the estimated volume (in cubic yards) that will be remediated	80
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS (continued)

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QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	fEEM0112334085 SUNDANCE PARABO
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
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.	
I hereby agree and sign off to the above statement	Name: Stuart Hyde Title: Senior Geologist Email: shyde@ensolum.com Date: 04/24/2026
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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Action 578833

QUESTIONS (continued)

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QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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Action 578833

QUESTIONS (continued)

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QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	559391
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/13/2026
What was the (estimated) number of samples that were to be gathered	4
What was the sampling surface area in square feet	14700

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	1812
What was the total volume (cubic yards) remediated	80
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	1812
What was the total volume (in cubic yards) reclaimed	80
Summarize any additional remediation activities not included by answers (above)	Site assessment, delineation, and excavation activities were conducted at the Site to address the June 2025 release of crude oil. Laboratory analytical results for excavation soil samples collected from the final excavation extent indicated all COC concentrations were compliant with Site Closure Criteria. Based on laboratory analytical results, no further remediation was required. Hilcorp will backfill the excavation with material sourced locally and recontour the Site to match pre-existing site conditions. Backfill material was submitted for laboratory testing at Cardinal Laboratories on November 13, 2025, and indicated that all COC concentrations were in compliance with strictest Table I Closure Criteria and reclamation requirement. Excavation of impacted soil has mitigated adverse effects at this Site. Depth to groundwater is confirmed to be greater than 55 feet bgs and no other sensitive receptors were identified near the release extent. Hilcorp believes these remedial actions are protective of human health, the environment, and groundwater. As such, Hilcorp respectfully requests closure for Incident Number nAPP2516452330.

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 (in .pdf format) 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.

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

I hereby agree and sign off to the above statement	Name: Stuart Hyde Title: Senior Geologist Email: shyde@ensolum.com Date: 04/24/2026
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QUESTIONS (continued)

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QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

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CONDITIONS

Created By	Condition	Condition Date
scwells	None	5/4/2026