

Received by OCB: 11/6/2025 9:34:12 AM

Facility Name: 8 Well Number(s):

245 Spill Volume Estimate Form Fill in Gray Cells

Release Discovery Date & Time: 6/9/2025 3:30 A.M.

Page 1 of 123

Provide any known details about the event:			Flaming Snail Fed Com 802H			Primary Cause (dropdown):		Procedures not followed		Secondary Cause (dropdown):		Communication	
			Was the Release to Soil / Caliche (dropdown):		Release On/Off Pad (dropdown):	Recovered Volume (bbl.) (if available, not included in volume calculations)		Release Type (dropdown):			Method of Determination (dropdown):		
Permian	Asset Area:	DBW - Farmland	Yes		On-Pad	7 BBL		Oil Mixture			Field Measurement		
Known Volume (dropdown):			No										
Known Area (dropdown):			No										
Spill Calculation - On-Pad Surface Pool Spill													
Divide irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Average Depth (in.)	Estimated Pool Area (sq. ft.)	Estimated volume of each pool area (bbl.)	Penetration allowance (ft.)	Total Estimated Volume of Spill (bbl.)	Percentage of Oil if Spilled Fluid is a Mixture (%.)		Total Estimated Volume of Spilled Oil (bbl.)	Total Estimated Volume of Spilled Liquid other than Oil (bbl.)		
Angle A	12	36	0.5	432.00	3.20	0.00	3.21	59%		1.89	1.32		
Angle B	15	35	0.5	525.00	3.89	0.00	3.90			2.30	1.60		
Angle C	12	38	0.3	456.00	1.69	0.00	1.69			1.00	0.69		
Angle D				0.00	0.00	0.00	0.00			0.00	0.00		
Angle E				0.00	0.00	0.00	0.00			0.00	0.00		
Angle F				0.00	0.00	0.00	0.00			0.00	0.00		
Angle G				0.00	0.00	0.00	0.00			0.00	0.00		
Angle H				0.00	0.00	0.00	0.00			0.00	0.00		
Angle I				0.00	0.00	0.00	0.00			0.00	0.00		
Angle J				0.00	0.00	0.00	0.00			0.00	0.00		
Total Surface Pool Volume Released, Release to Soil/Caliche:							8.8053			5.1951	3.6102		

Released to Imaging: 11/17/2025 11:26:29 AM



November 5, 2025

**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  
Flaming Snail Federal Com #802H  
COG Operating, LLC  
Incident Number NAPP2516055997  
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum) on behalf of COG Operating, LLC (COG), has prepared this *Closure Request* to document site assessment, excavation, and soil sampling activities at the Flaming Snail Federal Com #802H (Site). The purpose of the Site assessment, excavation, and soil sampling activities was to address impacts to soil resulting from a release of diesel/oil-based mud (OBM) at the Site. Based on the excavation activities and laboratory analytical results from the soil sampling events, COG is submitting this *Closure Request*, describing remedial activities that have occurred and requesting closure for Incident Number NAPP2516055997.

## **SITE DESCRIPTION AND RELEASE SUMMARY**

The Site is located in Unit A, Section 28, Township 25 South, Range 27 East, in Eddy County, New Mexico (32.10696°, -104.18971°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On June 9, 2025, during frac operations a transfer pump failed resulting in a release of approximately 8.8 barrels (bbls) of diesel/OBM onto the pad surface. A vacuum truck was dispatched to the Site to recover free-standing fluids; approximately 8 bbls of released fluids were recovered. COG reported the release to the New Mexico Oil Conservation Division (NMOCD) via Notification of Release (NOR) on June 9, 2025, and subsequently an Initial C-141 Application (C-141) on August 28, 2025. The release was assigned Incident Number NAPP2516055997.

## **SITE CHARACTERIZATION AND CLOSURE CRITERIA**

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 desktop review are presented below and potential Site receptors are identified on Figure 1.

Potential nearby receptors were assessed through desktop reviews of United States Geological Survey (USGS) topographic maps, Federal Emergency Management Administration (FEMA)

Geographic Information System (GIS) maps, New Mexico Office of the State Engineer (NMOSE) database, aerial photographs, and Site-specific observations.

Depth to groundwater at the Site is estimated to be less than 50 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well (USGS 320627104101801) is located 1.03 miles east of the Site and has a reported depth to groundwater of 16.85 feet bgs on January 2, 2025. The groundwater well is located at 3,064 feet above mean sea level in an established watercourse, which is approximately 35 feet lower in elevation than the Site. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well record is included in Appendix A.

The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is underlain by potentially unstable geology (high potential karst designation area).

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): 100 mg/kg
- Chloride: 600 mg/kg

## SITE ASSESSMENT AND DELINEATION ACTIVITIES

On August 28, 2025, Ensolum personnel were at the Site to evaluate the release extent based on information provided on the C-141 and visual observations. Six assessment soil samples (SS01 through SS06) were collected within and around the release extent from a depth of approximately 0.5 feet bgs to assess surficial soil associated with the release. On September 26, 2025, Ensolum personnel returned to the Site to oversee delineation activities. Four potholes (PH01 through PH04) were advanced to depths ranging from 1-foot bgs to 3 feet bgs utilizing heavy equipment to assess the vertical extent of impacted soil. Discrete delineation soil samples were collected from each pothole at depths ranging from 1-foot to 3 feet bgs. All soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. Field screening results were used as a guide to help determine the terminal depth needed for remediation. The release extent and soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was completed during the Site visits, and a photographic log is included in Appendix B. Field screening results and observations of the soil samples collected from the potholes were logged on a lithologic soil sampling log, which is included in Appendix C.

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

Laboratory analytical results for assessment samples SS01 and SS04 through SS06 indicated TPH and/or chloride concentrations exceeded Closure Criteria within the release extent at a depth of 0.5 feet bgs. Assessment soil samples SS02 and SS03 indicated all COC concentrations were compliant with the Closure Criteria. Laboratory analytical results for delineation soil sample PH01, collected at 2 feet bgs indicated TPH concentrations exceeded Closure Criteria but were in compliance at 3 feet bgs, successfully defining the vertical extent of the release. Delineation soil samples PH02 through PH04, collected from depths ranging from 1-foot bgs to 2 feet bgs, indicated all COCs were in compliance with Closure Criteria. Laboratory analytical results are summarized in Table 1, and the complete laboratory analytical reports are included as Appendix D.

## EXCAVATION SOIL SAMPLING ACTIVITIES

On October 6, 2025, Ensolum personnel were at the Site to oversee excavation activities. Impacted soil was excavated from the release extent as indicated by laboratory analytical results. Excavation activities were performed utilizing a trackhoe and transport vehicles. To direct excavation activities, Ensolum personnel field screened soil for VOCs and chloride as described above. Following the removal of impacted soil, Ensolum personnel collected 5-point composite soil samples representing no more than 200 square feet from the sidewalls and floor of the excavation. The 5-point composite soil samples were collected by placing five equivalent aliquots of soil into a resealable plastic bag and homogenizing the samples by thoroughly mixing. Confirmation soil samples FS01 through FS13 were collected from the floor of the excavation at depths ranging from 0.5 feet to 3 feet bgs. Confirmation sidewall soil samples SW01 and SW02 were collected from the sidewalls of the excavation at depths ranging from ground surface to 3 feet bgs. The soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and confirmation soil sample locations are presented on Figure 3.

Laboratory analytical results for all final confirmation soil samples collected indicated that all COC concentrations were compliant with the Closure Criteria and reclamation requirement, confirming the lateral and vertical extents of the release. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included as Appendix D.

The final excavation extent measured approximately 2,590 square feet. A total of approximately 150 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at Lea Land in Hobbs, New Mexico. COG backfilled the excavation with material purchased locally and recontoured the Site to match pre-existing site conditions.

## CLOSURE REQUEST

Site assessment, delineation, and excavation activities were conducted at the Site to address the June 9, 2025, release of diesel/OBM. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated that all COC concentrations were compliant with the Closure Criteria. Based on the soil sample analytical results, no further remediation was required.

Excavation of impacted soil has mitigated impacts at this Site. Depth to groundwater has been estimated to be less than 50 feet bgs and is underlain by potentially unstable geology (high potential karst designation area). COG believes these remedial actions are protective of human health, the environment, and groundwater. As such, COG respectfully requests closure for Incident Number NAPP2516055997.



COG Operating, LLC  
Closure Request  
Flaming Snail Federal Com #802H

Page 4

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

Sincerely,  
**Ensolum, LLC**



Alex Ferrell  
Staff Geologist



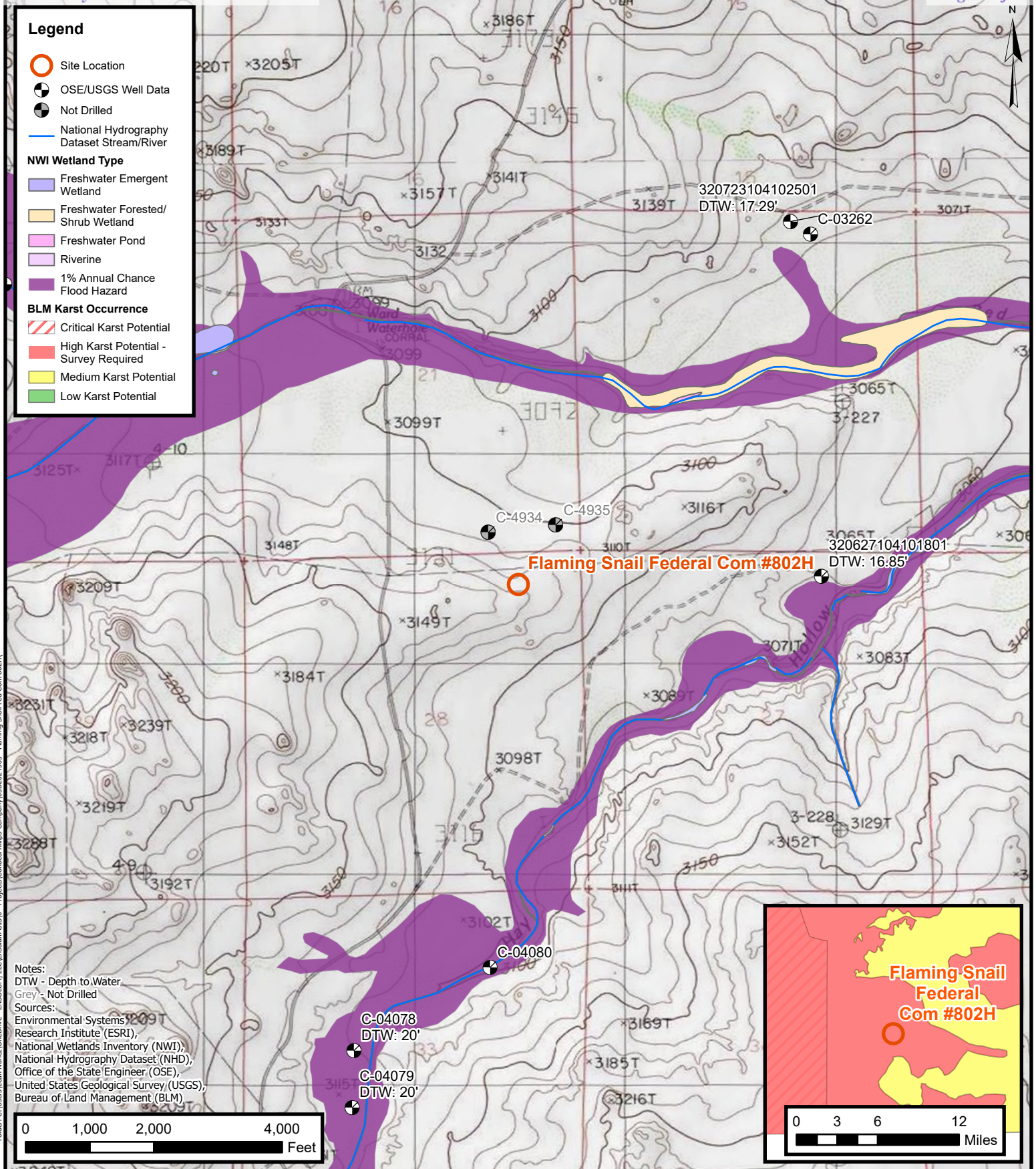
Kalei Jennings  
Senior Managing Scientist

**Attachments:**

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Figure 3	Excavation Soil Sample Locations
Table 1	Soil Sample Analytical Results
Appendix A	Referenced Well Records
Appendix B	Photographic Log
Appendix C	Lithologic Soil Sampling Log
Appendix D	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix E	NMOCD Notifications



FIGURES









**ENSOLUM**  
Environmental, Engineering and  
Hydrogeologic Consultants

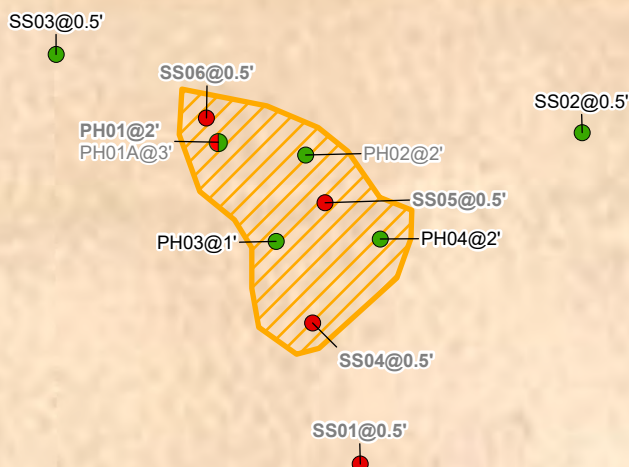
**Site Receptor Map**  
COG Operating, LLC  
Flaming Snail Federal Com #802H  
Incident Number: nAPP2516055997  
Unit A, Section 28, T 25S, R 27E  
Eddy County, New Mexico

**FIGURE**  
**1**



## Legend

-  Wellhead
-  Delineation Soil Sample in Compliance with Closure Criteria
-  Delineation Soil Sample with Concentrations Previously Exceeding Closure Criteria
-  Delineation Soil Sample with Concentrations Exceeding Closure Criteria
-  Fence
-  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 15 30 60  
 Feet

Sources: Environmental Systems Research Institute (ESRI)








## Delineation Soil Sample Locations

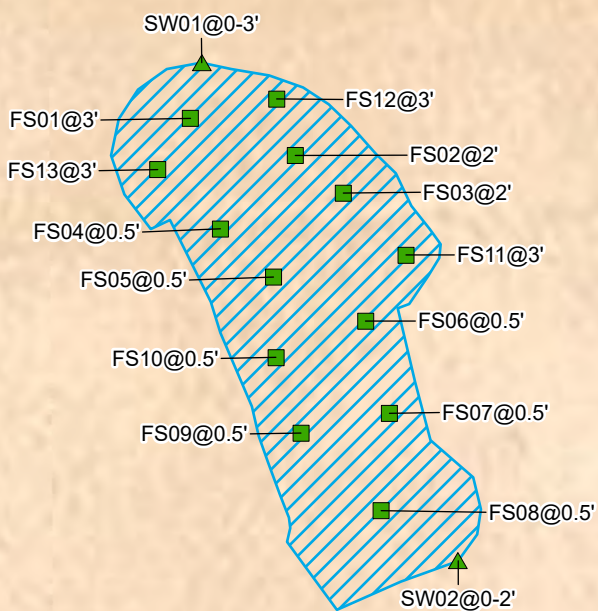
COG Operating, LLC  
 Flaming Snail Federal Com #802H  
 Incident Number: nAPP2516055997  
 Unit A, Section 28, T 25S, R 27E  
 Eddy County, New Mexico

FIGURE  
 2



**Legend**

-  Wellhead
-  Excavation Floor Soil Sample in Compliance with Closure Criteria
-  Excavation Sidewall Soil Sample in Compliance with Closure Criteria
-  Fence
-  Excavation Extent



Notes:  
Sample ID @ Depth Below Ground Surface.

0 15 30 60  
Feet

Sources: Environmental Systems Research Institute (ESRI)



## Excavation Soil Sample Locations

COG Operating, LLC  
Flaming Snail Federal Com #802H  
Incident Number: nAPP2516055997  
Unit A, Section 28, T 25S, R 27E  
Eddy County, New Mexico

**FIGURE**

**3**



TABLE



**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 Flaming Snail Federal Com #802H  
 COG Operating, LLC  
 Eddy County, New Mexico

Sample Identification	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)
<b>NMOCD Table I Closure Criteria (NMAC 19.15.29)</b>			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>100</b>	<b>600</b>
<b>Assessment Soil Samples</b>										
SS01	08/28/2025	0.5	<0.00139	<0.00228	<14.5	83.8	28.2	83.8	112	578
SS02	08/28/2025	0.5	<0.00140	<0.00229	<14.5	79.8	<15.1	79.8	79.8	411
SS03	08/28/2025	0.5	<0.00141	<0.00231	<14.5	23.3	16.4	23.3	39.7	235
SS04	08/28/2025	0.5	<0.00138	<0.00227	<14.5	973	<15.1	973	973	1,500
SS05	08/28/2025	0.5	0.0370	40.8	859	34,900	223	35,760	36,000	1,430
SS06	08/28/2025	0.5	<0.0347	0.770	273	42,500	<151	42,780	42,800	992
<b>Delineation Soil Samples</b>										
PH01	09/26/2025	2.0	<0.050	<0.300	<10.0	346	<10.0	346	346	448
PH01A	09/26/2025	3.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320
PH02	09/26/2025	2.0	<0.050	<0.300	<10.0	28.1	<10.0	28.1	28.1	240
PH03	09/26/2025	1.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	368
PH04	09/26/2025	2.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288



**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 Flaming Snail Federal Com #802H  
 COG Operating, LLC  
 Eddy County, New Mexico

Sample Identification	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)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Excavation Sidewall Soil Samples										
SW01	10/06/2025	0 - 3	<0.050	<0.300	<10.0	16.4	<10.0	16.4	16.4	144
SW02	10/06/2025	0 - 2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
Excavation Floor Soil Samples										
FS01	10/06/2025	3.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
FS02	10/06/2025	2.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
FS03	10/06/2025	2.0	<0.050	<0.300	<10.0	12.2	<10.0	12.2	12.2	208
FS04	10/06/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
FS05	10/06/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
FS06	10/06/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	368
FS07	10/06/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	368
FS08	10/06/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS09	10/06/2025	0.5	<0.050	<0.300	<10.0	14.6	<10.0	14.6	14.6	336
FS10	10/06/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	368
FS11	10/06/2025	3.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
FS12	10/06/2025	3.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
FS13	10/06/2025	3.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112

**Notes:**

bgs: Below ground surface

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

mg/kg: Milligrams per kilogram

NE: Not Established

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation standard where applicable.~~Grey~~ text represents samples that have been excavated

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon





## APPENDIX A

### Referenced Well Records

---



USGS Home  
Contact USGS  
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:  
Groundwater

Geographic Area:  
United States

GO

Click to hideNews Bulletins

- Due to a lapse in government funding, the majority of USGS websites will not be updated except to provide important public safety information. Websites displaying real-time water data will be updated with limited support. For more information please see [www.doi.gov/shutdown](http://www.doi.gov/shutdown).
- Explore the NEW [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.

Groundwater levels for the Nation

**i** Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

Agency code = usgs  
site\_no list =

- 320627104101801

Minimum number of levels = 1  
[Save file of selected sites](#) to local disk for future upload

USGS 320627104101801 25S.27E.27.21242 498

Eddy County, New Mexico  
Latitude 32°06'25.92", Longitude 104°10'27.98" NAD83  
Land-surface elevation 3,064 feet above NAVD88  
This well is completed in the Other aquifers (N9999OTHER) national aquifer.  
This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measur
1983-02-02			D 62610		3049.96	NGVD29	1		Z	
1983-02-02			D 62611		3051.58	NAVD88	1		Z	
1983-02-02			D 72019	12.42			1		Z	
1987-10-09			D 62610		3051.85	NGVD29	1		Z	
1987-10-09			D 62611		3053.47	NAVD88	1		Z	
1987-10-09			D 72019	10.53			1		Z	
1992-12-08			D 62610		3050.12	NGVD29	1		S	
1992-12-08			D 62611		3051.74	NAVD88	1		S	
1992-12-08			D 72019	12.26			1		S	
1998-01-07			D 62610		3048.19	NGVD29	1		S	
1998-01-07			D 62611		3049.81	NAVD88	1		S	
1998-01-07			D 72019	14.19			1		S	
2003-01-29			D 62610		3045.95	NGVD29	1		S	USGS
2003-01-29			D 62611		3047.57	NAVD88	1		S	USGS
2003-01-29			D 72019	16.43			1		S	USGS

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measur
2022-01-13	14:35 UTC		m	62610	3046.65	NGVD29	1	V	USGS	
2022-01-13	14:35 UTC		m	62611	3048.27	NAVD88	1	V	USGS	
2022-01-13	14:35 UTC		m	72019	15.73		1	V	USGS	
2023-02-14	16:05 UTC		m	62610	3046.27	NGVD29	1	S	USGS	
2023-02-14	16:05 UTC		m	62611	3047.89	NAVD88	1	S	USGS	
2023-02-14	16:05 UTC		m	72019	16.11		1	S	USGS	
2024-03-08	15:07 UTC		m	62610	3045.89	NGVD29	P	S	USGS	
2024-03-08	15:07 UTC		m	62611	3047.51	NAVD88	P	S	USGS	
2024-03-08	15:07 UTC		m	72019	16.49		P	S	USGS	
2025-01-02	20:38 UTC		m	62610	3045.53	NGVD29	1	S	USGS	
2025-01-02	20:38 UTC		m	62611	3047.15	NAVD88	1	S	USGS	
2025-01-02	20:38 UTC		m	72019	16.85		1	S	USGS	

Explanation

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

Questions or Comments

Help

Data Tips

Explanation of terms

Subscribe for system changes

AccessibilityFOIAPrivacyPolicies and Notices

U.S. Department of the Interior | U.S. Geological Survey

Title: Groundwater for USA: Water Levels

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



Page Contact Information: USGS Water Data Support Team

Page Last Modified: 2025-10-13 12:38:31 EDT

0.35 0.3 nadww02



## APPENDIX B

### Photographic Log

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**Photographic Log**  
 COG Operating, LLC  
 Flaming Snail Federal Com #802H  
 nAPP2516055997

223°SW (T) LAT: 32.106825 LON: -104.189330 ±6ft ▲ 3139ft



Ensolum, LLC

Flaming Snail Fed Con 802H  
 28 Aug 2025, 14:54:32 MDT

Photograph: 1 Date: 8/28/2025  
 Description: Assessment activities  
 View: Southwest

318°NW (T) LAT: 32.106712 LON: -104.189316 ±13ft ▲ 3133ft



Ensolum, LLC

Flaming Snail Fed Con 802H  
 26 Sep 2025, 11:42:35 MDT

Photograph: 2 Date: 9/26/2025  
 Description: Delineation activities  
 View: Northwest

311°NW (T) LAT: 32.106705 LON: -104.189351 ±9ft ▲ 3135ft



Ensolum, LLC

Flaming Snail Fed Con 802H  
 06 Oct 2025, 12:51:32 MDT

Photograph: 3 Date: 10/6/2025  
 Description: Excavation activities; near FS06  
 View: Northwest

231°SW (T) LAT: 32.106640 LON: -104.189370 ±45ft ▲ 3137ft



Ensolum, LLC

Flaming Snail Fed Con 802H  
 06 Oct 2025, 12:51:26 MDT

Photograph: 4 Date: 10/6/2025  
 Description: Excavation activities; near FS08  
 View: Southwest





**Photographic Log**  
 COG Operating, LLC  
 Flaming Snail Federal Com #802H  
 nAPP2516055977

☉ 152°SE (T) LAT: 32.106867 LON: -104.189482 ±6ft ▲ 3125ft



Ensolum, LLC

Flaming Snail Fed Com 802H  
 06 Oct 2025, 18:45:51 MDT

☉ 299°NW (T) LAT: 32.106627 LON: -104.189295 ±6ft ▲ 3131ft



Ensolum, LLC

Flaming Snail Fed Com 802H  
 06 Oct 2025, 18:45:12 MDT

Photograph: 5 Date: 10/6/2025  
 Description: Final excavation extent; near FS01  
 View: Southeast

Photograph: 6 Date: 10/6/2025  
 Description: Final excavation extent; near FS11  
 View: Northwest

**South East**

☉ 157°SE (T) • 32.106917, -104.189512 ±9ft ▲ 3054ft



Backfilled Excavation

Flaming Snail Federal Com 802H  
 10-10-2025, 1:52:20 PM

**West**

☉ 266°W (T) • 32.10672, -104.189249 ±9ft ▲ 3061ft



Backfilled Excavation

Flaming Snail Federal Com 802H  
 10-10-2025, 1:53:43 PM

Photograph: 7 Date: 10/10/2025  
 Description: Backfilled excavation  
 View: Southeast


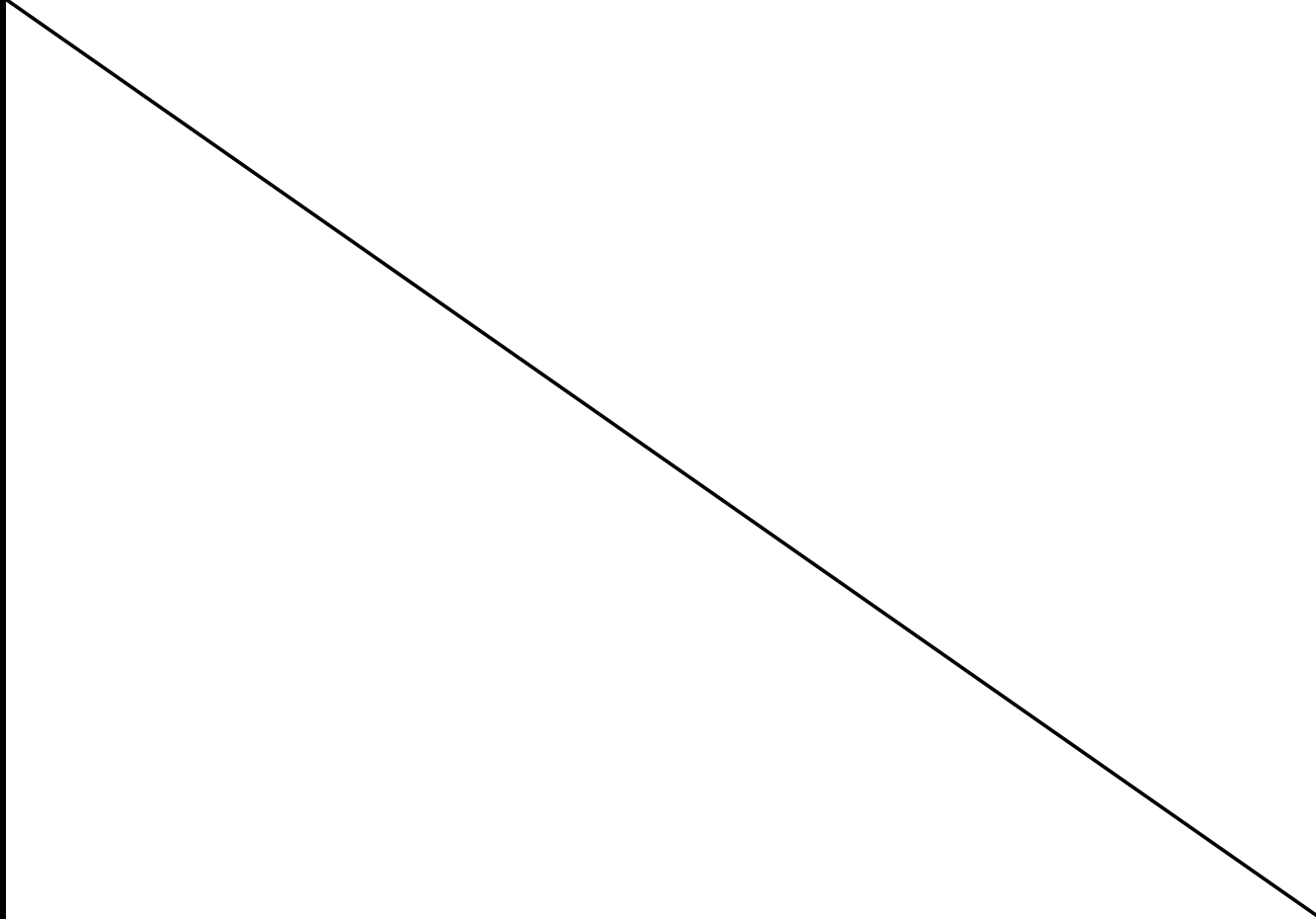
Photograph: 8 Date: 10/10/2025  
 Description: Backfilled excavation  
 View: West




## Appendix C


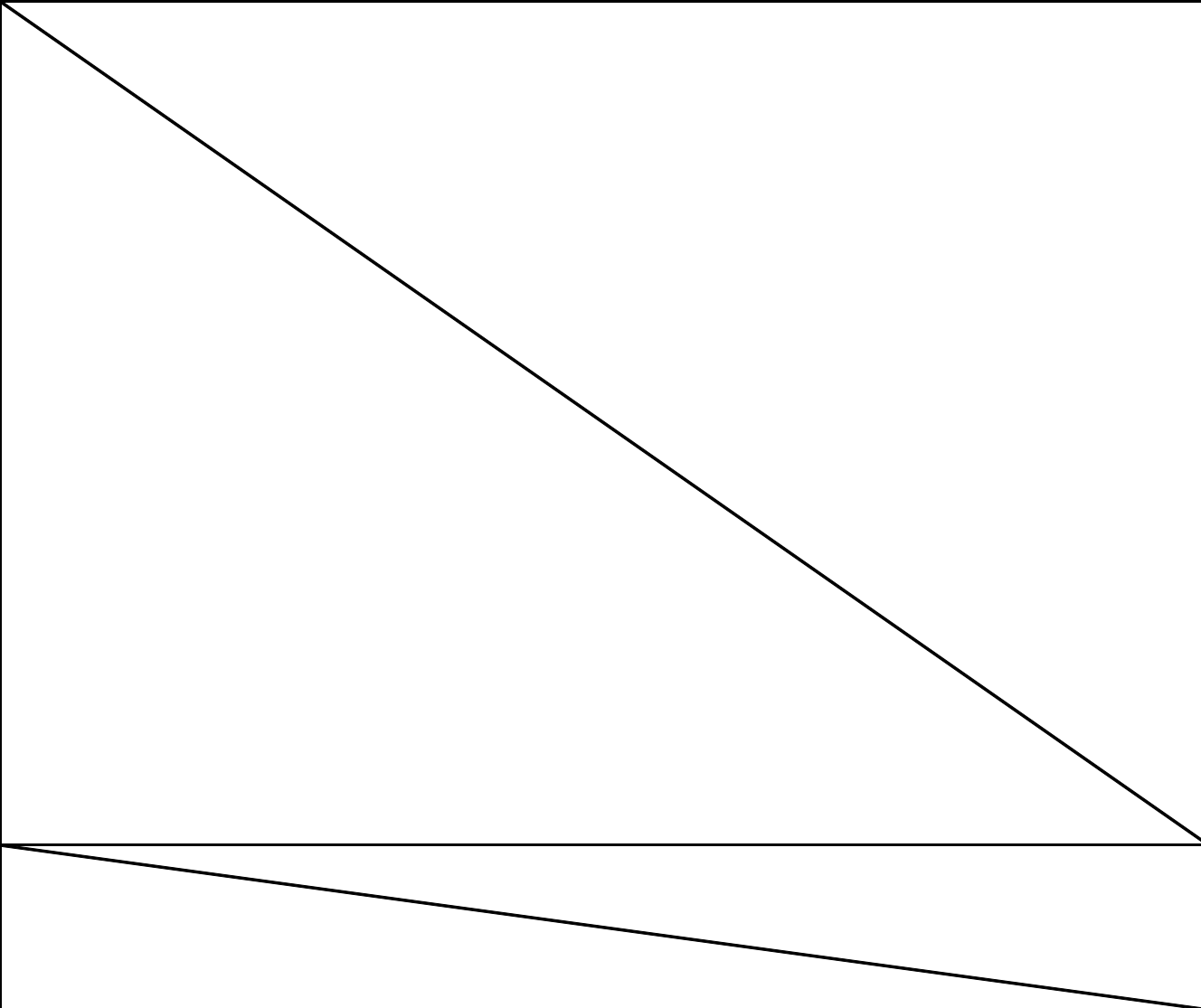
### Lithologic Soil Sampling Log


---

 <b>ENSOLUM</b>		Sample Name: PH01		Date: 9/26/2025				
		Site Name: Flaming Snail Fed Com 802H						
		Incident Number: nAPP2516055997						
		Job Number: 03D2024363						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.106804, -104.189447			Logged By: Alex Ferrell		Method: Backhoe			
			Hole Diameter: 2'		Total Depth: 2'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	800	9.4	N	PH01	2	0	CCHE	(0-1') CALICHE, tan, coarse to fine grained, Non cohesive, w/ silt
D	1,226	18.2	N			1		
D	526	8.7	N			2		
Total Depth @ 2 feet bgs								
								



 <b>ENSOLUM</b>		Sample Name: PH02		Date: 9/26/2025				
		Site Name: Flaming Snail Fed Com 802H						
		Incident Number: nAPP2516055997						
		Job Number: 03D2024363						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.106798, -104.189403			Logged By: Alex Ferrell		Method: Backhoe			
			Hole Diameter: 2'		Total Depth: 2'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	1321.6	4.0	N	PH02	2	0	CCHE	(0-1') CALICHE, tan, coarse to fine grained, Non cohesive, w/ silt
D	879.2	4.2	N			1		
D	268	12.5	N			2	2	SPSM
Total Depth @ 2 feet bgs								

 <b>ENSOLUM</b>		Sample Name: PH03		Date: 9/26/2025				
		Site Name: Flaming Snail Fed Com 802H						
		Incident Number: nAPP2516055997						
		Job Number: 03D2024363						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>				Logged By: Alex Ferrell		Method: Backhoe		
Coordinates: 32.106762, -104.189418				Hole Diameter: 2'		Total Depth: 1'		
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	655.2	2.5	N		0	0	CCHE	(0-1') CALICHE, tan, coarse to fine grained, Non cohesive, w/ silt
D	377.6	2.0	N	PH03	1	1		
Total Depth @ 1-foot bgs								
								

 <b>ENSOLUM</b>		Sample Name: PH04		Date: 9/26/2025				
		Site Name: Flaming Snail Fed Com 802H						
		Incident Number: nAPP2516055997						
		Job Number: 03D2024363						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.106762, -104.189366			Logged By: Alex Ferrell		Method: Backhoe			
			Hole Diameter: 2'		Total Depth: 2'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	1881.6	232.8	N	PH04	0	0	CCHE	(0-1') CALICHE, tan, coarse to fine grained, Non cohesive, w/ silt
D	1321.6	22.6	N		1	1		
D	358.4	4.6	N		2	2		
Total Depth @ 2 feet bgs								
<div style="position: absolute; top: 0; right: 0; width: 100%; height: 100%; border-left: 2px solid black; border-bottom: 2px solid black;"></div>								



## APPENDIX D

### Laboratory Analytical Reports & Chain-of-Custody Documentation

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Environment Testing

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# ANALYTICAL REPORT

## PREPARED FOR

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

Generated 9/12/2025 3:33:24 PM Revision 1

## JOB DESCRIPTION

Flaming Snail Fed Com 802H  
03D2024363

## JOB NUMBER

890-8739-1

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](mailto:Jessica.Kramer@et.eurofinsus.com)  
(432)704-5440

Generated  
9/12/2025 3:33:24 PM  
Revision 1



Client: Ensolum  
Project/Site: Flaming Snail Fed Com 802H

Laboratory Job ID: 890-8739-1  
SDG: 03D2024363

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Definitions/Glossary

Client: Ensolum  
Project/Site: Flaming Snail Fed Com 802H

Job ID: 890-8739-1  
SDG: 03D2024363

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	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: Flaming Snail Fed Com 802H

Job ID: 890-8739-1

Job ID: 890-8739-1

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**Job Narrative**  
**890-8739-1**

REVISION

The report being provided is a revision of the original report sent on 9/8/2025. The report (revision 1) is being revised due to Per client email, requesting SS01 re run.

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

**Receipt**

The samples were received on 8/29/2025 5:12 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.8°C.

**Receipt Exceptions**

The following samples were received and analyzed from an unpreserved bulk soil jar: SS 01 (890-8739-1), SS 02 (890-8739-2) and SS 03 (890-8739-3).

**GC VOA**

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-118218 and analytical batch 880-118310 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: SS 03 (890-8739-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The surrogate recovery for the blank associated with analytical batch 880-118310 was outside the upper control limits.

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

**Diesel Range Organics**

Method 8015MOD\_NM: The method blank for preparation batch 880-118103 and analytical batch 880-118424 contained Oil Range Organics (Over C28-C36) above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-118687/2-A). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: (880-60970-A-32-C MB). Evidence of matrix interferences is not obvious.

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

**HPLC/IC**

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

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## Client Sample Results

Client: Ensolum  
Project/Site: Flaming Snail Fed Com 802H

Job ID: 890-8739-1  
SDG: 03D2024363

Client Sample ID: SS 01

Lab Sample ID: 890-8739-1

Date Collected: 08/28/25 10:35

Matrix: Solid

Date Received: 08/29/25 17:12

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/04/25 09:13	09/05/25 19:11	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		09/04/25 09:13	09/05/25 19:11	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/04/25 09:13	09/05/25 19:11	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		09/04/25 09:13	09/05/25 19:11	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		09/04/25 09:13	09/05/25 19:11	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		09/04/25 09:13	09/05/25 19:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	09/04/25 09:13	09/05/25 19:11	1
1,4-Difluorobenzene (Surr)	111		70 - 130	09/04/25 09:13	09/05/25 19:11	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00399	0.00228	mg/Kg			09/05/25 19:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	112		50.1	15.1	mg/Kg			09/11/25 20:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.1	14.5	mg/Kg		09/11/25 15:32	09/11/25 20:28	1
Diesel Range Organics (Over C10-C28)	83.8		50.1	15.1	mg/Kg		09/11/25 15:32	09/11/25 20:28	1
Oil Range Organics (Over C28-C36)	28.2	J	50.1	15.1	mg/Kg		09/11/25 15:32	09/11/25 20:28	1
Total TPH	112		50.1	15.1	mg/Kg		09/11/25 15:32	09/11/25 20:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	09/11/25 15:32	09/11/25 20:28	1
o-Terphenyl	107		70 - 130	09/11/25 15:32	09/11/25 20:28	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	578		10.0	0.397	mg/Kg			09/04/25 14:57	1

Client Sample ID: SS 02

Lab Sample ID: 890-8739-2

Date Collected: 08/28/25 11:20

Matrix: Solid

Date Received: 08/29/25 17:12

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00201	0.00140	mg/Kg		09/04/25 09:13	09/05/25 19:31	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		09/04/25 09:13	09/05/25 19:31	1
Ethylbenzene	<0.00109	U	0.00201	0.00109	mg/Kg		09/04/25 09:13	09/05/25 19:31	1
m-Xylene & p-Xylene	<0.00229	U	0.00402	0.00229	mg/Kg		09/04/25 09:13	09/05/25 19:31	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		09/04/25 09:13	09/05/25 19:31	1
Xylenes, Total	<0.00229	U	0.00402	0.00229	mg/Kg		09/04/25 09:13	09/05/25 19:31	1

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## Client Sample Results

Client: Ensolum  
Project/Site: Flaming Snail Fed Com 802H

Job ID: 890-8739-1  
SDG: 03D2024363

Client Sample ID: SS 02

Lab Sample ID: 890-8739-2

Date Collected: 08/28/25 11:20

Matrix: Solid

Date Received: 08/29/25 17:12

Sample Depth: 0.5'

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130	09/04/25 09:13	09/05/25 19:31	1
1,4-Difluorobenzene (Surr)	111		70 - 130	09/04/25 09:13	09/05/25 19:31	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00402	0.00229	mg/Kg			09/05/25 19:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	79.8		50.0	15.1	mg/Kg			09/08/25 15:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		09/02/25 16:27	09/08/25 15:24	1
Diesel Range Organics (Over C10-C28)	79.8		50.0	15.1	mg/Kg		09/02/25 16:27	09/08/25 15:24	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		09/02/25 16:27	09/08/25 15:24	1
Total TPH	79.8	B	50.0	15.1	mg/Kg		09/02/25 16:27	09/08/25 15:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	09/02/25 16:27	09/08/25 15:24	1
o-Terphenyl	98		70 - 130	09/02/25 16:27	09/08/25 15:24	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	411		10.1	0.399	mg/Kg			09/04/25 15:03	1

Client Sample ID: SS 03

Lab Sample ID: 890-8739-3

Date Collected: 08/28/25 11:38

Matrix: Solid

Date Received: 08/29/25 17:12

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00141	U	0.00202	0.00141	mg/Kg		09/04/25 09:13	09/05/25 19:51	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg		09/04/25 09:13	09/05/25 19:51	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg		09/04/25 09:13	09/05/25 19:51	1
m-Xylene & p-Xylene	<0.00231	U	0.00404	0.00231	mg/Kg		09/04/25 09:13	09/05/25 19:51	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg		09/04/25 09:13	09/05/25 19:51	1
Xylenes, Total	<0.00231	U	0.00404	0.00231	mg/Kg		09/04/25 09:13	09/05/25 19:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130	09/04/25 09:13	09/05/25 19:51	1
1,4-Difluorobenzene (Surr)	116		70 - 130	09/04/25 09:13	09/05/25 19:51	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00231	U	0.00404	0.00231	mg/Kg			09/05/25 19:51	1

Eurofins Carlsbad



Client Sample Results

Client: Ensolum  
Project/Site: Flaming Snail Fed Com 802H

Job ID: 890-8739-1  
SDG: 03D2024363

Client Sample ID: SS 03  
Date Collected: 08/28/25 11:38  
Date Received: 08/29/25 17:12  
Sample Depth: 0.5'

Lab Sample ID: 890-8739-3  
Matrix: Solid

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	39.7	J	49.8	15.1	mg/Kg			09/08/25 15:38	1
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		09/02/25 16:27	09/08/25 15:38	1
Diesel Range Organics (Over C10-C28)	23.3	J	49.8	15.1	mg/Kg		09/02/25 16:27	09/08/25 15:38	1
Oil Range Organics (Over C28-C36)	16.4	J B	49.8	15.1	mg/Kg		09/02/25 16:27	09/08/25 15:38	1
Total TPH	39.7	J B	49.8	15.1	mg/Kg		09/02/25 16:27	09/08/25 15:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				09/02/25 16:27	09/08/25 15:38	1
o-Terphenyl	110		70 - 130				09/02/25 16:27	09/08/25 15:38	1
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	235		10.1	0.398	mg/Kg			09/04/25 15:09	1

## Surrogate Summary

Client: Ensolum  
Project/Site: Flaming Snail Fed Com 802H

Job ID: 890-8739-1  
SDG: 03D2024363

## 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)
890-8739-1	SS 01	107	111
890-8739-1 MS	SS 01	118	100
890-8739-1 MSD	SS 01	101	100
890-8739-2	SS 02	125	111
890-8739-3	SS 03	134 S1+	116
LCS 880-118218/1-A	Lab Control Sample	95	94
LCSD 880-118218/2-A	Lab Control Sample Dup	107	96
MB 880-118218/5-A	Method Blank	165 S1+	93
MB 880-118310/8	Method Blank	176 S1+	97

## 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)
880-61361-A-36-E MS	Matrix Spike	110	108
880-61361-A-36-F MSD	Matrix Spike Duplicate	110	106
890-8736-A-4-C MS	Matrix Spike	105	99
890-8736-A-4-D MSD	Matrix Spike Duplicate	107	100
890-8739-1	SS 01	104	107
890-8739-2	SS 02	99	98
890-8739-3	SS 03	112	110
LCS 880-118103/2-A	Lab Control Sample	107	105
LCS 880-118687/2-A	Lab Control Sample	132 S1+	125
LCSD 880-118103/3-A	Lab Control Sample Dup	106	103
LCSD 880-118687/3-A	Lab Control Sample Dup	126	126
MB 880-118103/1-A	Method Blank	89	91
MB 880-118687/1-A	Method Blank	114	117

## Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

## QC Sample Results

Client: Ensolum  
Project/Site: Flaming Snail Fed Com 802H

Job ID: 890-8739-1  
SDG: 03D2024363

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

Lab Sample ID: MB 880-118218/5-A

Matrix: Solid

Analysis Batch: 118310

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 118218

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/04/25 09:13	09/05/25 18:42	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		09/04/25 09:13	09/05/25 18:42	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/04/25 09:13	09/05/25 18:42	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		09/04/25 09:13	09/05/25 18:42	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		09/04/25 09:13	09/05/25 18:42	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		09/04/25 09:13	09/05/25 18:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	165	S1+	70 - 130	09/04/25 09:13	09/05/25 18:42	1
1,4-Difluorobenzene (Surr)	93		70 - 130	09/04/25 09:13	09/05/25 18:42	1

Lab Sample ID: LCS 880-118218/1-A

Matrix: Solid

Analysis Batch: 118310

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 118218

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08496		mg/Kg		85	70 - 130
Toluene	0.100	0.08881		mg/Kg		89	70 - 130
Ethylbenzene	0.100	0.07773		mg/Kg		78	70 - 130
m-Xylene & p-Xylene	0.200	0.1510		mg/Kg		76	70 - 130
o-Xylene	0.100	0.08471		mg/Kg		85	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: LCSD 880-118218/2-A

Matrix: Solid

Analysis Batch: 118310

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 118218

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08961		mg/Kg		90	70 - 130	5	35
Toluene	0.100	0.09762		mg/Kg		98	70 - 130	9	35
Ethylbenzene	0.100	0.09469		mg/Kg		95	70 - 130	20	35
m-Xylene & p-Xylene	0.200	0.2012		mg/Kg		101	70 - 130	28	35
o-Xylene	0.100	0.1076		mg/Kg		108	70 - 130	24	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 890-8739-1 MS

Matrix: Solid

Analysis Batch: 118310

Client Sample ID: SS 01

Prep Type: Total/NA

Prep Batch: 118218

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00139	U	0.100	0.08790		mg/Kg		88	70 - 130
Toluene	<0.00200	U	0.100	0.08927		mg/Kg		89	70 - 130

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## QC Sample Results

Client: Ensolum  
Project/Site: Flaming Snail Fed Com 802H

Job ID: 890-8739-1  
SDG: 03D2024363

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

Lab Sample ID: 890-8739-1 MS

Matrix: Solid

Analysis Batch: 118310

Client Sample ID: SS 01

Prep Type: Total/NA

Prep Batch: 118218

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00109	U	0.100	0.08439		mg/Kg		84	70 - 130
m-Xylene & p-Xylene	<0.00228	U	0.200	0.1837		mg/Kg		92	70 - 130
o-Xylene	<0.00158	U	0.100	0.09939		mg/Kg		99	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 890-8739-1 MSD

Matrix: Solid

Analysis Batch: 118310

Client Sample ID: SS 01

Prep Type: Total/NA

Prep Batch: 118218

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00139	U	0.100	0.08360		mg/Kg		84	70 - 130	5	35
Toluene	<0.00200	U	0.100	0.08552		mg/Kg		86	70 - 130	4	35
Ethylbenzene	<0.00109	U	0.100	0.08632		mg/Kg		86	70 - 130	2	35
m-Xylene & p-Xylene	<0.00228	U	0.200	0.1643		mg/Kg		82	70 - 130	11	35
o-Xylene	<0.00158	U	0.100	0.08716		mg/Kg		87	70 - 130	13	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: MB 880-118310/8

Matrix: Solid

Analysis Batch: 118310

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg			09/05/25 12:31	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg			09/05/25 12:31	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg			09/05/25 12:31	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg			09/05/25 12:31	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg			09/05/25 12:31	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg			09/05/25 12:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	176	S1+	70 - 130		09/05/25 12:31	1
1,4-Difluorobenzene (Surr)	97		70 - 130		09/05/25 12:31	1

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

Lab Sample ID: MB 880-118103/1-A

Matrix: Solid

Analysis Batch: 118424

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 118103

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		09/02/25 16:27	09/08/25 09:21	1

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## QC Sample Results

Client: Ensolum  
Project/Site: Flaming Snail Fed Com 802H

Job ID: 890-8739-1  
SDG: 03D2024363

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

Lab Sample ID: MB 880-118103/1-A

Matrix: Solid

Analysis Batch: 118424

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 118103

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		09/02/25 16:27	09/08/25 09:21	1
Oil Range Organics (Over C28-C36)	19.70	J	50.0	15.1	mg/Kg		09/02/25 16:27	09/08/25 09:21	1
Total TPH	19.70	J	50.0	15.1	mg/Kg		09/02/25 16:27	09/08/25 09:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	09/02/25 16:27	09/08/25 09:21	1
o-Terphenyl	91		70 - 130	09/02/25 16:27	09/08/25 09:21	1

Lab Sample ID: LCS 880-118103/2-A

Matrix: Solid

Analysis Batch: 118424

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 118103

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	857.9		mg/Kg		86	70 - 130
Diesel Range Organics (Over C10-C28)	1000	931.4		mg/Kg		93	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	107		70 - 130
o-Terphenyl	105		70 - 130

Lab Sample ID: LCSD 880-118103/3-A

Matrix: Solid

Analysis Batch: 118424

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 118103

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	858.8		mg/Kg		86	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	1000	887.1		mg/Kg		89	70 - 130	5	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	103		70 - 130

Lab Sample ID: 890-8736-A-4-C MS

Matrix: Solid

Analysis Batch: 118424

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 118103

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	997	740.7		mg/Kg		74	70 - 130
Diesel Range Organics (Over C10-C28)	16.0	J	997	884.0		mg/Kg		87	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	105		70 - 130

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## QC Sample Results

Client: Ensolum  
Project/Site: Flaming Snail Fed Com 802H

Job ID: 890-8739-1  
SDG: 03D2024363

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

Lab Sample ID: 890-8736-A-4-C MS

Matrix: Solid

Analysis Batch: 118424

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 118103

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl	99		70 - 130

Lab Sample ID: 890-8736-A-4-D MSD

Matrix: Solid

Analysis Batch: 118424

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 118103

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	<14.5	U	997	788.5		mg/Kg		79	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	16.0	J	997	903.0		mg/Kg		89	70 - 130	2	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	107		70 - 130
<i>o</i> -Terphenyl	100		70 - 130

Lab Sample ID: MB 880-118687/1-A

Matrix: Solid

Analysis Batch: 118702

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 118687

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		09/11/25 11:11	09/11/25 12:08	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		09/11/25 11:11	09/11/25 12:08	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		09/11/25 11:11	09/11/25 12:08	1
Total TPH	<15.1	U	50.0	15.1	mg/Kg		09/11/25 11:11	09/11/25 12:08	1

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130	09/11/25 11:11	09/11/25 12:08	1
<i>o</i> -Terphenyl	117		70 - 130	09/11/25 11:11	09/11/25 12:08	1

Lab Sample ID: LCS 880-118687/2-A

Matrix: Solid

Analysis Batch: 118702

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 118687

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	936.6		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1010		mg/Kg		101	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	132	S1+	70 - 130
<i>o</i> -Terphenyl	125		70 - 130

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## QC Sample Results

Client: Ensolum  
Project/Site: Flaming Snail Fed Com 802H

Job ID: 890-8739-1  
SDG: 03D2024363

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

Lab Sample ID: LCSD 880-118687/3-A

Matrix: Solid

Analysis Batch: 118702

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 118687

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	931.0		mg/Kg		93	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	1011		mg/Kg		101	70 - 130	0	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	126		70 - 130						
o-Terphenyl	126		70 - 130						

Lab Sample ID: 880-61361-A-36-E MS

Matrix: Solid

Analysis Batch: 118702

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 118687

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<14.6	U	994	788.2		mg/Kg		79	70 - 130		
Diesel Range Organics (Over C10-C28)	<15.3	U	994	906.8		mg/Kg		91	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	110		70 - 130								
o-Terphenyl	108		70 - 130								

Lab Sample ID: 880-61361-A-36-F MSD

Matrix: Solid

Analysis Batch: 118702

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 118687

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	<14.6	U	994	787.7		mg/Kg		79	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<15.3	U	994	911.4		mg/Kg		92	70 - 130	0	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	110		70 - 130								
o-Terphenyl	106		70 - 130								

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-118094/1-A

Matrix: Solid

Analysis Batch: 118174

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	10.0	0.395	mg/Kg			09/04/25 08:08	1

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## QC Sample Results

Client: Ensolum  
Project/Site: Flaming Snail Fed Com 802H

Job ID: 890-8739-1  
SDG: 03D2024363

## Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-118094/2-A

Matrix: Solid

Analysis Batch: 118174

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	274.0		mg/Kg		110	90 - 110

Lab Sample ID: LCSD 880-118094/3-A

Matrix: Solid

Analysis Batch: 118174

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	255.6		mg/Kg		102	90 - 110	7	20

Lab Sample ID: 890-8739-3 MS

Matrix: Solid

Analysis Batch: 118174

Client Sample ID: SS 03

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	235		252	481.2		mg/Kg		98	90 - 110

Lab Sample ID: 890-8739-3 MSD

Matrix: Solid

Analysis Batch: 118174

Client Sample ID: SS 03

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	235		252	481.0		mg/Kg		98	90 - 110	0	20

## QC Association Summary

Client: Ensolum  
Project/Site: Flaming Snail Fed Com 802H

Job ID: 890-8739-1  
SDG: 03D2024363

## GC VOA

## Prep Batch: 118218

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8739-1	SS 01	Total/NA	Solid	5035	
890-8739-2	SS 02	Total/NA	Solid	5035	
890-8739-3	SS 03	Total/NA	Solid	5035	
MB 880-118218/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-118218/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-118218/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8739-1 MS	SS 01	Total/NA	Solid	5035	
890-8739-1 MSD	SS 01	Total/NA	Solid	5035	

## Analysis Batch: 118310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8739-1	SS 01	Total/NA	Solid	8021B	118218
890-8739-2	SS 02	Total/NA	Solid	8021B	118218
890-8739-3	SS 03	Total/NA	Solid	8021B	118218
MB 880-118218/5-A	Method Blank	Total/NA	Solid	8021B	118218
MB 880-118310/8	Method Blank	Total/NA	Solid	8021B	
LCS 880-118218/1-A	Lab Control Sample	Total/NA	Solid	8021B	118218
LCSD 880-118218/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	118218
890-8739-1 MS	SS 01	Total/NA	Solid	8021B	118218
890-8739-1 MSD	SS 01	Total/NA	Solid	8021B	118218

## Analysis Batch: 118453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8739-1	SS 01	Total/NA	Solid	Total BTEX	
890-8739-2	SS 02	Total/NA	Solid	Total BTEX	
890-8739-3	SS 03	Total/NA	Solid	Total BTEX	

## GC Semi VOA

## Prep Batch: 118103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8739-2	SS 02	Total/NA	Solid	8015NM Prep	
890-8739-3	SS 03	Total/NA	Solid	8015NM Prep	
MB 880-118103/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-118103/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-118103/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8736-A-4-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-8736-A-4-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 118424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8739-2	SS 02	Total/NA	Solid	8015B NM	118103
890-8739-3	SS 03	Total/NA	Solid	8015B NM	118103
MB 880-118103/1-A	Method Blank	Total/NA	Solid	8015B NM	118103
LCS 880-118103/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	118103
LCSD 880-118103/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	118103
890-8736-A-4-C MS	Matrix Spike	Total/NA	Solid	8015B NM	118103
890-8736-A-4-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	118103

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## QC Association Summary

Client: Ensolum  
Project/Site: Flaming Snail Fed Com 802H

Job ID: 890-8739-1  
SDG: 03D2024363

## GC Semi VOA

## Analysis Batch: 118476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8739-1	SS 01	Total/NA	Solid	8015 NM	
890-8739-2	SS 02	Total/NA	Solid	8015 NM	
890-8739-3	SS 03	Total/NA	Solid	8015 NM	

## Prep Batch: 118687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8739-1	SS 01	Total/NA	Solid	8015NM Prep	
MB 880-118687/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-118687/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-118687/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-61361-A-36-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-61361-A-36-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 118702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8739-1	SS 01	Total/NA	Solid	8015B NM	118687
MB 880-118687/1-A	Method Blank	Total/NA	Solid	8015B NM	118687
LCS 880-118687/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	118687
LCSD 880-118687/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	118687
880-61361-A-36-E MS	Matrix Spike	Total/NA	Solid	8015B NM	118687
880-61361-A-36-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	118687

## HPLC/IC

## Leach Batch: 118094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8739-1	SS 01	Soluble	Solid	DI Leach	
890-8739-2	SS 02	Soluble	Solid	DI Leach	
890-8739-3	SS 03	Soluble	Solid	DI Leach	
MB 880-118094/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-118094/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-118094/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-8739-3 MS	SS 03	Soluble	Solid	DI Leach	
890-8739-3 MSD	SS 03	Soluble	Solid	DI Leach	

## Analysis Batch: 118174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8739-1	SS 01	Soluble	Solid	300.0	118094
890-8739-2	SS 02	Soluble	Solid	300.0	118094
890-8739-3	SS 03	Soluble	Solid	300.0	118094
MB 880-118094/1-A	Method Blank	Soluble	Solid	300.0	118094
LCS 880-118094/2-A	Lab Control Sample	Soluble	Solid	300.0	118094
LCSD 880-118094/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	118094
890-8739-3 MS	SS 03	Soluble	Solid	300.0	118094
890-8739-3 MSD	SS 03	Soluble	Solid	300.0	118094

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum  
Project/Site: Flaming Snail Fed Com 802H

Job ID: 890-8739-1  
SDG: 03D2024363

Client Sample ID: SS 01  
Date Collected: 08/28/25 10:35  
Date Received: 08/29/25 17:12

Lab Sample ID: 890-8739-1  
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			5.01 g	5 mL	118218	09/04/25 09:13	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	118310	09/05/25 19:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			118453	09/05/25 19:11	SA	EET MID
Total/NA	Analysis	8015 NM		1			118476	09/11/25 20:28	SA	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	118687	09/11/25 15:32	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	118702	09/11/25 20:28	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	118094	09/02/25 16:24	SA	EET MID
Soluble	Analysis	300.0		1			118174	09/04/25 14:57	SMC	EET MID

Client Sample ID: SS 02  
Date Collected: 08/28/25 11:20  
Date Received: 08/29/25 17:12

Lab Sample ID: 890-8739-2  
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			4.98 g	5 mL	118218	09/04/25 09:13	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	118310	09/05/25 19:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			118453	09/05/25 19:31	SA	EET MID
Total/NA	Analysis	8015 NM		1			118476	09/08/25 15:24	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	118103	09/02/25 16:27	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	118424	09/08/25 15:24	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	118094	09/02/25 16:24	SA	EET MID
Soluble	Analysis	300.0		1			118174	09/04/25 15:03	SMC	EET MID

Client Sample ID: SS 03  
Date Collected: 08/28/25 11:38  
Date Received: 08/29/25 17:12

Lab Sample ID: 890-8739-3  
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			4.95 g	5 mL	118218	09/04/25 09:13	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	118310	09/05/25 19:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			118453	09/05/25 19:51	SA	EET MID
Total/NA	Analysis	8015 NM		1			118476	09/08/25 15:38	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	118103	09/02/25 16:27	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	118424	09/08/25 15:38	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	118094	09/02/25 16:24	SA	EET MID
Soluble	Analysis	300.0		1			118174	09/04/25 15:09	SMC	EET MID

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

Accreditation/Certification Summary

Client: Ensolum  
Project/Site: Flaming Snail Fed Com 802H

Job ID: 890-8739-1  
SDG: 03D2024363

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	06-30-26
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
8015B NM	8015NM Prep	Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum  
Project/Site: Flaming Snail Fed Com 802H

Job ID: 890-8739-1  
SDG: 03D2024363

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: Flaming Snail Fed Com 802H

Job ID: 890-8739-1  
SDG: 03D2024363

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8739-1	SS 01	Solid	08/28/25 10:35	08/29/25 17:12	0.5'
890-8739-2	SS 02	Solid	08/28/25 11:20	08/29/25 17:12	0.5'
890-8739-3	SS 03	Solid	08/28/25 11:38	08/29/25 17:12	0.5'

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**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:**

Page \_\_\_\_\_ of \_\_\_\_\_  
www.xenco.com

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

Work Order Comments	
Program: UST/PST	<input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:	
Reporting: Level II	<input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables: EDD	<input type="checkbox"/> ADAPT <input type="checkbox"/> Other:

Project Name:		Flaming Shell Fed Con 802H		Turn Around				ANALYSIS REQUEST		Preservative Codes	
Project Number:		03D2024363		<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush		Pres. Code				None: NO      DI Water: H <sub>2</sub> O	
Project Location:		32.106968,-104.189714		Due Date:		5-Day				Cool: Cool      MeOH: Me	
Sampler's Name:		Alex Ferrell		TAT starts the day received by the lab, if received by 4:30pm						HCL: HC      HNO <sub>3</sub> : HN	
PO #:										H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> NaOH: Na	
SAMPLE RECEIPT		Temp Blank:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Wet Ice:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		H <sub>3</sub> PO <sub>4</sub> : HP	
Samples Received Intact:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Thermometer ID:				T-1000		NaHSO <sub>4</sub> : NABIS	
Cooler Custody Seals:		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		N/A Correction Factor:				-0.2		Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>	
Sample Custody Seals:		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		N/A Temperature Reading:				6.6		Zn Acetate+NaOH: Zn	
Total Containers:				Corrected Temperature:				5.8		NaOH+Ascorbic Acid: SAPC	
Parameters											
<div> <div>890-8739 Chain of Custody</div>  </div>											
<div> <div>de 300</div> <div>015</div> <div>8021</div> </div>											

[illegible]

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 <sub>2</sub> Na Sr Ti Sn U V Zr
<b>Circle Method(s) and Metal(s) to be analyzed</b>		
TCLP / 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 trademark, 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 service. A minimum charge of \$85.00 will be applied to each project and a charge of \$3 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
1 <i>[Signature]</i>	<i>[Signature]</i>	5/19/25 1:54 <sup>2</sup>	<i>[Signature]</i>	8/12/29	1712
3 <i>[Signature]</i>					
5					



## Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8739-1

SDG Number: 03D2024363

Login Number: 8739

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: 890-8739-1

SDG Number: 03D2024363

Login Number: 8739

List Number: 2

Creator: Laing, Edmundo

List Source: Eurofins Midland

List Creation: 09/03/25 08:17 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	



Environment Testing

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# ANALYTICAL REPORT

## PREPARED FOR

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

Generated 9/11/2025 3:13:34 PM Revision 1

## JOB DESCRIPTION

Flaming Snail Fed Com 802H  
03D2024363

## JOB NUMBER

890-8740-1

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](mailto:Jessica.Kramer@et.eurofinsus.com)  
(432)704-5440

Generated  
9/11/2025 3:13:34 PM  
Revision 1

Client: Ensolum  
Project/Site: Flaming Snail Fed Com 802H

Laboratory Job ID: 890-8740-1  
SDG: 03D2024363

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Definitions/Glossary

Client: Ensolum  
Project/Site: Flaming Snail Fed Com 802H

Job ID: 890-8740-1  
SDG: 03D2024363

Qualifiers

GC VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	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: Flaming Snail Fed Com 802H

Job ID: 890-8740-1

Job ID: 890-8740-1

Eurofins Carlsbad

**Job Narrative**  
**890-8740-1**

REVISION

The report being provided is a revision of the original report sent on 9/8/2025. The report (revision 1) is being revised due to Per client email, requesting project name correction.

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

**Receipt**

The samples were received on 8/29/2025 5:12 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.8°C.

**GC VOA**

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-118184 and analytical batch 880-118209 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-118217 and analytical batch 880-118210 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: SS 06 (890-8740-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: SS 05 (890-8740-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: SS 04 (890-8740-1), (890-8758-A-32-G) and (890-8758-A-32-F MSD). 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.

**Diesel Range Organics**

Method 8015MOD\_NM: The method blank for preparation batch 880-118103 and analytical batch 880-118424 contained Oil Range Organics (Over C28-C36) above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: SS 05 (890-8740-2) and SS 06 (890-8740-3). 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**

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

Eurofins Carlsbad

Case Narrative

Client: Ensolum  
Project: Flaming Snail Fed Com 802H

Job ID: 890-8740-1

**Job ID: 890-8740-1 (Continued)** **Eurofins Carlsbad**

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Eurofins Carlsbad

## Client Sample Results

Client: Ensolum  
Project/Site: Flaming Snail Fed Com 802H

Job ID: 890-8740-1  
SDG: 03D2024363

Client Sample ID: SS 04

Lab Sample ID: 890-8740-1

Date Collected: 08/28/25 09:50

Matrix: Solid

Date Received: 08/29/25 17:12

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00199	0.00138	mg/Kg	-	09/08/25 09:28	09/08/25 14:18	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg	-	09/08/25 09:28	09/08/25 14:18	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg	-	09/08/25 09:28	09/08/25 14:18	1
m-Xylene & p-Xylene	<0.00227	U	0.00398	0.00227	mg/Kg	-	09/08/25 09:28	09/08/25 14:18	1
o-Xylene	<0.00157	U	0.00199	0.00157	mg/Kg	-	09/08/25 09:28	09/08/25 14:18	1
Xylenes, Total	<0.00227	U	0.00398	0.00227	mg/Kg	-	09/08/25 09:28	09/08/25 14:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130	09/08/25 09:28	09/08/25 14:18	1
1,4-Difluorobenzene (Surr)	98		70 - 130	09/08/25 09:28	09/08/25 14:18	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00227	U	0.00398	0.00227	mg/Kg	-		09/08/25 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	973		49.8	15.1	mg/Kg	-		09/08/25 15:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg	-	09/02/25 16:27	09/08/25 15:52	1
Diesel Range Organics (Over C10-C28)	973		49.8	15.1	mg/Kg	-	09/02/25 16:27	09/08/25 15:52	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg	-	09/02/25 16:27	09/08/25 15:52	1
Total TPH	973	B	49.8	15.1	mg/Kg	-	09/02/25 16:27	09/08/25 15:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	09/02/25 16:27	09/08/25 15:52	1
o-Terphenyl	127		70 - 130	09/02/25 16:27	09/08/25 15:52	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1500		50.0	1.98	mg/Kg	-		09/04/25 15:12	5

Client Sample ID: SS 05

Lab Sample ID: 890-8740-2

Date Collected: 08/28/25 13:40

Matrix: Solid

Date Received: 08/29/25 17:12

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0370	J *	0.0499	0.0347	mg/Kg	-	09/03/25 15:42	09/04/25 19:46	25
Toluene	0.473	*	0.0499	0.0499	mg/Kg	-	09/03/25 15:42	09/04/25 19:46	25
Ethylbenzene	1.65		0.0499	0.0272	mg/Kg	-	09/03/25 15:42	09/04/25 19:46	25
m-Xylene & p-Xylene	4.19		0.0998	0.0570	mg/Kg	-	09/03/25 15:42	09/04/25 19:46	25
o-Xylene	4.45		0.0499	0.0395	mg/Kg	-	09/03/25 15:42	09/04/25 19:46	25
Xylenes, Total	8.64		0.0998	0.0570	mg/Kg	-	09/03/25 15:42	09/04/25 19:46	25

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## Client Sample Results

Client: Ensolum  
Project/Site: Flaming Snail Fed Com 802H

Job ID: 890-8740-1  
SDG: 03D2024363

Client Sample ID: SS 05

Date Collected: 08/28/25 13:40

Date Received: 08/29/25 17:12

Sample Depth: 0.5'

Lab Sample ID: 890-8740-2

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	266	S1+	70 - 130	09/03/25 15:42	09/04/25 19:46	25
1,4-Difluorobenzene (Surr)	84		70 - 130	09/03/25 15:42	09/04/25 19:46	25

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	10.8		0.0998	0.0570	mg/Kg			09/04/25 19:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	36000		499	151	mg/Kg			09/08/25 16:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	859		499	145	mg/Kg		09/02/25 16:27	09/08/25 16:36	10
Diesel Range Organics (Over C10-C28)	34900		499	151	mg/Kg		09/02/25 16:27	09/08/25 16:36	10
Oil Range Organics (Over C28-C36)	223	J B	499	151	mg/Kg		09/02/25 16:27	09/08/25 16:36	10
Total TPH	36000	B	499	151	mg/Kg		09/02/25 16:27	09/08/25 16:36	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	202	S1+	70 - 130	09/02/25 16:27	09/08/25 16:36	10
o-Terphenyl	342	S1+	70 - 130	09/02/25 16:27	09/08/25 16:36	10

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1430		50.0	1.98	mg/Kg			09/04/25 15:19	5

Client Sample ID: SS 06

Date Collected: 08/28/25 13:42

Date Received: 08/29/25 17:12

Sample Depth: 0.5'

Lab Sample ID: 890-8740-3

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0347	U	0.0499	0.0347	mg/Kg		09/04/25 09:06	09/04/25 15:07	25
Toluene	<0.0499	U	0.0499	0.0499	mg/Kg		09/04/25 09:06	09/04/25 15:07	25
Ethylbenzene	0.120		0.0499	0.0272	mg/Kg		09/04/25 09:06	09/04/25 15:07	25
m-Xylene & p-Xylene	0.341		0.0998	0.0570	mg/Kg		09/04/25 09:06	09/04/25 15:07	25
o-Xylene	0.309		0.0499	0.0395	mg/Kg		09/04/25 09:06	09/04/25 15:07	25
Xylenes, Total	0.650		0.0998	0.0570	mg/Kg		09/04/25 09:06	09/04/25 15:07	25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	240	S1+	70 - 130	09/04/25 09:06	09/04/25 15:07	25
1,4-Difluorobenzene (Surr)	115		70 - 130	09/04/25 09:06	09/04/25 15:07	25

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.770		0.0998	0.0570	mg/Kg			09/04/25 15:07	1

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## Client Sample Results

Client: Ensolum  
Project/Site: Flaming Snail Fed Com 802H

Job ID: 890-8740-1  
SDG: 03D2024363

Client Sample ID: SS 06

Lab Sample ID: 890-8740-3

Date Collected: 08/28/25 13:42

Matrix: Solid

Date Received: 08/29/25 17:12

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	42800		500	151	mg/Kg			09/08/25 16:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	273	J	500	145	mg/Kg		09/02/25 16:27	09/08/25 16:50	10
Diesel Range Organics (Over C10-C28)	42500		500	151	mg/Kg		09/02/25 16:27	09/08/25 16:50	10
Oil Range Organics (Over C28-C36)	<151	U	500	151	mg/Kg		09/02/25 16:27	09/08/25 16:50	10
Total TPH	42800	B	500	151	mg/Kg		09/02/25 16:27	09/08/25 16:50	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	159	S1+	70 - 130	09/02/25 16:27	09/08/25 16:50	10
o-Terphenyl	458	S1+	70 - 130	09/02/25 16:27	09/08/25 16:50	10

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	992		10.0	0.395	mg/Kg			09/04/25 12:38	1

# Surrogate Summary

Client: Ensolum  
Project/Site: Flaming Snail Fed Com 802H

Job ID: 890-8740-1  
SDG: 03D2024363

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-8738-A-1-C MS	Matrix Spike	118	99
890-8738-A-1-D MSD	Matrix Spike Duplicate	126	98
890-8740-1	SS 04	131 S1+	98
890-8740-2	SS 05	266 S1+	84
890-8740-3	SS 06	240 S1+	115
890-8741-A-1-F MS	Matrix Spike	101	97
890-8741-A-1-G MSD	Matrix Spike Duplicate	98	98
890-8758-A-32-E MS	Matrix Spike	128	98
890-8758-A-32-F MSD	Matrix Spike Duplicate	133 S1+	103
LCS 880-118184/1-A	Lab Control Sample	115	94
LCS 880-118217/1-A	Lab Control Sample	101	101
LCS 880-118400/1-A	Lab Control Sample	121	103
LCSD 880-118184/2-A	Lab Control Sample Dup	118	96
LCSD 880-118217/2-A	Lab Control Sample Dup	101	97
LCSD 880-118400/2-A	Lab Control Sample Dup	120	99
MB 880-118184/5-A	Method Blank	104	86
MB 880-118217/5-A	Method Blank	94	138 S1+
MB 880-118400/5-A	Method Blank	123	91
<b>Surrogate Legend</b>			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-8736-A-4-C MS	Matrix Spike	105	99
890-8736-A-4-D MSD	Matrix Spike Duplicate	107	100
890-8740-1	SS 04	107	127
890-8740-2	SS 05	202 S1+	342 S1+
890-8740-3	SS 06	159 S1+	458 S1+
LCS 880-118103/2-A	Lab Control Sample	107	105
LCSD 880-118103/3-A	Lab Control Sample Dup	106	103
MB 880-118103/1-A	Method Blank	89	91
<b>Surrogate Legend</b>			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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## QC Sample Results

Client: Ensolum  
Project/Site: Flaming Snail Fed Com 802H

Job ID: 890-8740-1  
SDG: 03D2024363

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

Lab Sample ID: MB 880-118184/5-A

Matrix: Solid

Analysis Batch: 118209

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 118184

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/03/25 15:42	09/04/25 11:41	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		09/03/25 15:42	09/04/25 11:41	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/03/25 15:42	09/04/25 11:41	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		09/03/25 15:42	09/04/25 11:41	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		09/03/25 15:42	09/04/25 11:41	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		09/03/25 15:42	09/04/25 11:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	09/03/25 15:42	09/04/25 11:41	1
1,4-Difluorobenzene (Surr)	86		70 - 130	09/03/25 15:42	09/04/25 11:41	1

Lab Sample ID: LCS 880-118184/1-A

Matrix: Solid

Analysis Batch: 118209

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 118184

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.06476	*-	mg/Kg		65	70 - 130
Toluene	0.100	0.06881	*-	mg/Kg		69	70 - 130
Ethylbenzene	0.100	0.08402		mg/Kg		84	70 - 130
m-Xylene & p-Xylene	0.200	0.1717		mg/Kg		86	70 - 130
o-Xylene	0.100	0.08611		mg/Kg		86	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: LCSD 880-118184/2-A

Matrix: Solid

Analysis Batch: 118209

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 118184

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.07712		mg/Kg		77	70 - 130	17	35
Toluene	0.100	0.07666		mg/Kg		77	70 - 130	11	35
Ethylbenzene	0.100	0.09153		mg/Kg		92	70 - 130	9	35
m-Xylene & p-Xylene	0.200	0.1839		mg/Kg		92	70 - 130	7	35
o-Xylene	0.100	0.09149		mg/Kg		91	70 - 130	6	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 890-8738-A-1-C MS

Matrix: Solid

Analysis Batch: 118209

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 118184

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00139	U *-	0.100	0.08411		mg/Kg		84	70 - 130
Toluene	<0.00200	U *-	0.100	0.07710		mg/Kg		77	70 - 130

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## QC Sample Results

Client: Ensolum  
Project/Site: Flaming Snail Fed Com 802H

Job ID: 890-8740-1  
SDG: 03D2024363

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

Lab Sample ID: 890-8738-A-1-C MS

Matrix: Solid

Analysis Batch: 118209

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 118184

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00109	U	0.100	0.08841		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	<0.00228	U	0.200	0.1731		mg/Kg		87	70 - 130
o-Xylene	<0.00158	U	0.100	0.08612		mg/Kg		86	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 890-8738-A-1-D MSD

Matrix: Solid

Analysis Batch: 118209

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 118184

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00139	U *	0.100	0.08335		mg/Kg		83	70 - 130	1	35
Toluene	<0.00200	U *	0.100	0.08735		mg/Kg		87	70 - 130	12	35
Ethylbenzene	<0.00109	U	0.100	0.1071		mg/Kg		107	70 - 130	19	35
m-Xylene & p-Xylene	<0.00228	U	0.200	0.2152		mg/Kg		108	70 - 130	22	35
o-Xylene	<0.00158	U	0.100	0.1084		mg/Kg		108	70 - 130	23	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	126		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: MB 880-118217/5-A

Matrix: Solid

Analysis Batch: 118210

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 118217

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/04/25 09:06	09/04/25 11:41	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		09/04/25 09:06	09/04/25 11:41	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/04/25 09:06	09/04/25 11:41	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		09/04/25 09:06	09/04/25 11:41	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		09/04/25 09:06	09/04/25 11:41	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		09/04/25 09:06	09/04/25 11:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	09/04/25 09:06	09/04/25 11:41	1
1,4-Difluorobenzene (Surr)	138	S1+	70 - 130	09/04/25 09:06	09/04/25 11:41	1

Lab Sample ID: LCS 880-118217/1-A

Matrix: Solid

Analysis Batch: 118210

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 118217

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08008		mg/Kg		80	70 - 130
Toluene	0.100	0.09116		mg/Kg		91	70 - 130
Ethylbenzene	0.100	0.08559		mg/Kg		86	70 - 130
m-Xylene & p-Xylene	0.200	0.1706		mg/Kg		85	70 - 130

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## QC Sample Results

Client: Ensolum  
Project/Site: Flaming Snail Fed Com 802H

Job ID: 890-8740-1  
SDG: 03D2024363

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

Lab Sample ID: LCS 880-118217/1-A

Matrix: Solid

Analysis Batch: 118210

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 118217

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.08660		mg/Kg		87	70 - 130

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

Lab Sample ID: LCSD 880-118217/2-A

Matrix: Solid

Analysis Batch: 118210

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 118217

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.08221		mg/Kg		82	70 - 130	3	35
Toluene	0.100	0.09281		mg/Kg		93	70 - 130	2	35
Ethylbenzene	0.100	0.08808		mg/Kg		88	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.1732		mg/Kg		87	70 - 130	1	35
o-Xylene	0.100	0.08786		mg/Kg		88	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 890-8741-A-1-F MS

Matrix: Solid

Analysis Batch: 118210

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 118217

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00139	U	0.100	0.09386		mg/Kg		94	70 - 130
Toluene	<0.00199	U	0.100	0.1065		mg/Kg		106	70 - 130
Ethylbenzene	<0.00108	U	0.100	0.1029		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	<0.00228	U	0.200	0.2027		mg/Kg		101	70 - 130
o-Xylene	<0.00158	U	0.100	0.1016		mg/Kg		102	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 890-8741-A-1-G MSD

Matrix: Solid

Analysis Batch: 118210

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 118217

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00139	U	0.100	0.1017		mg/Kg		102	70 - 130	8	35
Toluene	<0.00199	U	0.100	0.1148		mg/Kg		115	70 - 130	8	35
Ethylbenzene	<0.00108	U	0.100	0.1106		mg/Kg		111	70 - 130	7	35
m-Xylene & p-Xylene	<0.00228	U	0.200	0.2170		mg/Kg		109	70 - 130	7	35
o-Xylene	<0.00158	U	0.100	0.1090		mg/Kg		109	70 - 130	7	35

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## QC Sample Results

Client: Ensolum  
Project/Site: Flaming Snail Fed Com 802H

Job ID: 890-8740-1  
SDG: 03D2024363

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

Lab Sample ID: 890-8741-A-1-G MSD

Matrix: Solid

Analysis Batch: 118210

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 118217

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

Lab Sample ID: MB 880-118400/5-A

Matrix: Solid

Analysis Batch: 118383

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 118400

Analyte	MB	MB							
	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/08/25 09:28	09/08/25 11:33	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		09/08/25 09:28	09/08/25 11:33	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/08/25 09:28	09/08/25 11:33	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		09/08/25 09:28	09/08/25 11:33	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		09/08/25 09:28	09/08/25 11:33	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		09/08/25 09:28	09/08/25 11:33	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	123		70 - 130	09/08/25 09:28	09/08/25 11:33	1			
1,4-Difluorobenzene (Surr)	91		70 - 130	09/08/25 09:28	09/08/25 11:33	1			

Lab Sample ID: LCS 880-118400/1-A

Matrix: Solid

Analysis Batch: 118383

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 118400

Analyte	Spike	LCS	LCS						
	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	0.100	0.08427		mg/Kg		84	70 - 130		
Toluene	0.100	0.08666		mg/Kg		87	70 - 130		
Ethylbenzene	0.100	0.09914		mg/Kg		99	70 - 130		
m-Xylene & p-Xylene	0.200	0.2029		mg/Kg		101	70 - 130		
o-Xylene	0.100	0.1055		mg/Kg		106	70 - 130		

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	121		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 880-118400/2-A

Matrix: Solid

Analysis Batch: 118383

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 118400

Analyte	Spike	LCSD	LCSD							
	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.09280		mg/Kg		93	70 - 130	10	35	
Toluene	0.100	0.09570		mg/Kg		96	70 - 130	10	35	
Ethylbenzene	0.100	0.1095		mg/Kg		109	70 - 130	10	35	
m-Xylene & p-Xylene	0.200	0.2249		mg/Kg		112	70 - 130	10	35	
o-Xylene	0.100	0.1155		mg/Kg		116	70 - 130	9	35	

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130

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## QC Sample Results

Client: Ensolum  
Project/Site: Flaming Snail Fed Com 802H

Job ID: 890-8740-1  
SDG: 03D2024363

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

Lab Sample ID: LCSD 880-118400/2-A

Matrix: Solid

Analysis Batch: 118383

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 118400

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

Lab Sample ID: 890-8758-A-32-E MS

Matrix: Solid

Analysis Batch: 118383

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 118400

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Benzene	<0.00139	U	0.100	0.09415		mg/Kg		94	70 - 130
Toluene	0.00207		0.100	0.09626		mg/Kg		94	70 - 130
Ethylbenzene	0.00445		0.100	0.1065		mg/Kg		102	70 - 130
m-Xylene & p-Xylene	0.0141		0.200	0.2241		mg/Kg		105	70 - 130
o-Xylene	0.0112		0.100	0.1122		mg/Kg		101	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	128		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 890-8758-A-32-F MSD

Matrix: Solid

Analysis Batch: 118383

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 118400

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00139	U	0.100	0.09901		mg/Kg		99	70 - 130	5	35
Toluene	0.00207		0.100	0.1018		mg/Kg		100	70 - 130	6	35
Ethylbenzene	0.00445		0.100	0.1102		mg/Kg		106	70 - 130	3	35
m-Xylene & p-Xylene	0.0141		0.200	0.2306		mg/Kg		108	70 - 130	3	35
o-Xylene	0.0112		0.100	0.1150		mg/Kg		104	70 - 130	2	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

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

Lab Sample ID: MB 880-118103/1-A

Matrix: Solid

Analysis Batch: 118424

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 118103

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		09/02/25 16:27	09/08/25 09:21	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		09/02/25 16:27	09/08/25 09:21	1
Oil Range Organics (Over C28-C36)	19.70	J	50.0	15.1	mg/Kg		09/02/25 16:27	09/08/25 09:21	1
Total TPH	19.70	J	50.0	15.1	mg/Kg		09/02/25 16:27	09/08/25 09:21	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1-Chlorooctane	89		70 - 130	09/02/25 16:27	09/08/25 09:21	1			

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## QC Sample Results

Client: Ensolum  
Project/Site: Flaming Snail Fed Com 802H

Job ID: 890-8740-1  
SDG: 03D2024363

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

Lab Sample ID: MB 880-118103/1-A

Matrix: Solid

Analysis Batch: 118424

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 118103

	MB	MB								
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac				
o-Terphenyl	91		70 - 130	09/02/25 16:27	09/08/25 09:21	1				

Lab Sample ID: LCS 880-118103/2-A

Matrix: Solid

Analysis Batch: 118424

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 118103

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	857.9		mg/Kg		86	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	931.4		mg/Kg		93	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane	107		70 - 130						
o-Terphenyl	105		70 - 130						

Lab Sample ID: LCSD 880-118103/3-A

Matrix: Solid

Analysis Batch: 118424

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 118103

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	858.8		mg/Kg		86	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	1000	887.1		mg/Kg		89	70 - 130	5	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	106		70 - 130						
o-Terphenyl	103		70 - 130						

Lab Sample ID: 890-8736-A-4-C MS

Matrix: Solid

Analysis Batch: 118424

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 118103

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	997	740.7		mg/Kg		74	70 - 130		
Diesel Range Organics (Over C10-C28)	16.0	J	997	884.0		mg/Kg		87	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	105		70 - 130								
o-Terphenyl	99		70 - 130								

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## QC Sample Results

Client: Ensolum  
Project/Site: Flaming Snail Fed Com 802H

Job ID: 890-8740-1  
SDG: 03D2024363

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

Lab Sample ID: 890-8736-A-4-D MSD

Matrix: Solid

Analysis Batch: 118424

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 118103

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	<14.5	U	997	788.5		mg/Kg		79	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	16.0	J	997	903.0		mg/Kg		89	70 - 130	2	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	107		70 - 130								
o-Terphenyl	100		70 - 130								

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-118101/1-A

Matrix: Solid

Analysis Batch: 118187

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	10.0	0.395	mg/Kg			09/04/25 11:06	1

Lab Sample ID: LCS 880-118101/2-A

Matrix: Solid

Analysis Batch: 118187

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	229.9		mg/Kg		92	90 - 110

Lab Sample ID: LCSD 880-118101/3-A

Matrix: Solid

Analysis Batch: 118187

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	237.8		mg/Kg		95	90 - 110	3	20

Lab Sample ID: 890-8734-A-2-B MS

Matrix: Solid

Analysis Batch: 118187

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	360		252	599.5		mg/Kg		95	90 - 110

Lab Sample ID: 890-8734-A-2-C MSD

Matrix: Solid

Analysis Batch: 118187

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	360		252	618.5		mg/Kg		102	90 - 110	3	20

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QC Sample Results

Client: Ensolum  
Project/Site: Flaming Snail Fed Com 802H

Job ID: 890-8740-1  
SDG: 03D2024363

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-8742-A-1-B MS							Client Sample ID: Matrix Spike				
Matrix: Solid							Prep Type: Soluble				
Analysis Batch: 118187											
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	270		249	517.0		mg/Kg		99	90 - 110		

Lab Sample ID: 890-8742-A-1-C MSD							Client Sample ID: Matrix Spike Duplicate				
Matrix: Solid							Prep Type: Soluble				
Analysis Batch: 118187											
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	270		249	535.4		mg/Kg		107	90 - 110	3	20

QC Association Summary

Client: Ensolum  
Project/Site: Flaming Snail Fed Com 802H

Job ID: 890-8740-1  
SDG: 03D2024363

GC VOA

Prep Batch: 118184

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8740-2	SS 05	Total/NA	Solid	5035	
MB 880-118184/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-118184/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-118184/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8738-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-8738-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 118209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8740-2	SS 05	Total/NA	Solid	8021B	118184
MB 880-118184/5-A	Method Blank	Total/NA	Solid	8021B	118184
LCS 880-118184/1-A	Lab Control Sample	Total/NA	Solid	8021B	118184
LCSD 880-118184/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	118184
890-8738-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	118184
890-8738-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	118184

Analysis Batch: 118210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8740-3	SS 06	Total/NA	Solid	8021B	118217
MB 880-118217/5-A	Method Blank	Total/NA	Solid	8021B	118217
LCS 880-118217/1-A	Lab Control Sample	Total/NA	Solid	8021B	118217
LCSD 880-118217/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	118217
890-8741-A-1-F MS	Matrix Spike	Total/NA	Solid	8021B	118217
890-8741-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	118217

Prep Batch: 118217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8740-3	SS 06	Total/NA	Solid	5035	
MB 880-118217/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-118217/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-118217/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8741-A-1-F MS	Matrix Spike	Total/NA	Solid	5035	
890-8741-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 118290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8740-1	SS 04	Total/NA	Solid	Total BTEX	
890-8740-2	SS 05	Total/NA	Solid	Total BTEX	
890-8740-3	SS 06	Total/NA	Solid	Total BTEX	

Analysis Batch: 118383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8740-1	SS 04	Total/NA	Solid	8021B	118400
MB 880-118400/5-A	Method Blank	Total/NA	Solid	8021B	118400
LCS 880-118400/1-A	Lab Control Sample	Total/NA	Solid	8021B	118400
LCSD 880-118400/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	118400
890-8758-A-32-E MS	Matrix Spike	Total/NA	Solid	8021B	118400
890-8758-A-32-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	118400

## QC Association Summary

Client: Ensolum  
Project/Site: Flaming Snail Fed Com 802H

Job ID: 890-8740-1  
SDG: 03D2024363

## GC VOA

## Prep Batch: 118400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8740-1	SS 04	Total/NA	Solid	5035	
MB 880-118400/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-118400/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-118400/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8758-A-32-E MS	Matrix Spike	Total/NA	Solid	5035	
890-8758-A-32-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

## GC Semi VOA

## Prep Batch: 118103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8740-1	SS 04	Total/NA	Solid	8015NM Prep	
890-8740-2	SS 05	Total/NA	Solid	8015NM Prep	
890-8740-3	SS 06	Total/NA	Solid	8015NM Prep	
MB 880-118103/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-118103/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-118103/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8736-A-4-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-8736-A-4-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 118424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8740-1	SS 04	Total/NA	Solid	8015B NM	118103
890-8740-2	SS 05	Total/NA	Solid	8015B NM	118103
890-8740-3	SS 06	Total/NA	Solid	8015B NM	118103
MB 880-118103/1-A	Method Blank	Total/NA	Solid	8015B NM	118103
LCS 880-118103/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	118103
LCSD 880-118103/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	118103
890-8736-A-4-C MS	Matrix Spike	Total/NA	Solid	8015B NM	118103
890-8736-A-4-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	118103

## Analysis Batch: 118477

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8740-1	SS 04	Total/NA	Solid	8015 NM	
890-8740-2	SS 05	Total/NA	Solid	8015 NM	
890-8740-3	SS 06	Total/NA	Solid	8015 NM	

## HPLC/IC

## Leach Batch: 118101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8740-1	SS 04	Soluble	Solid	DI Leach	
890-8740-2	SS 05	Soluble	Solid	DI Leach	
890-8740-3	SS 06	Soluble	Solid	DI Leach	
MB 880-118101/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-118101/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-118101/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-8734-A-2-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-8734-A-2-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
890-8742-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-8742-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Ensolum  
Project/Site: Flaming Snail Fed Com 802H

Job ID: 890-8740-1  
SDG: 03D2024363

HPLC/IC

Analysis Batch: 118187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8740-1	SS 04	Soluble	Solid	300.0	118101
890-8740-2	SS 05	Soluble	Solid	300.0	118101
890-8740-3	SS 06	Soluble	Solid	300.0	118101
MB 880-118101/1-A	Method Blank	Soluble	Solid	300.0	118101
LCS 880-118101/2-A	Lab Control Sample	Soluble	Solid	300.0	118101
LCSD 880-118101/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	118101
890-8734-A-2-B MS	Matrix Spike	Soluble	Solid	300.0	118101
890-8734-A-2-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	118101
890-8742-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	118101
890-8742-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	118101

Lab Chronicle

Client: Ensolum  
Project/Site: Flaming Snail Fed Com 802H

Job ID: 890-8740-1  
SDG: 03D2024363

**Client Sample ID: SS 04**  
**Date Collected: 08/28/25 09:50**  
**Date Received: 08/29/25 17:12**

**Lab Sample ID: 890-8740-1**  
**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	118400	09/08/25 09:28	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	118383	09/08/25 14:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			118290	09/08/25 14:18	SA	EET MID
Total/NA	Analysis	8015 NM		1			118477	09/08/25 15:52	SA	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	118103	09/02/25 16:27	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	118424	09/08/25 15:52	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	118101	09/02/25 16:27	SA	EET MID
Soluble	Analysis	300.0		5			118187	09/04/25 15:12	SMC	EET MID

**Client Sample ID: SS 05**  
**Date Collected: 08/28/25 13:40**  
**Date Received: 08/29/25 17:12**

**Lab Sample ID: 890-8740-2**  
**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			5.01 g	5 mL	118184	09/03/25 15:42	MNR	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	118209	09/04/25 19:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			118290	09/04/25 19:46	SA	EET MID
Total/NA	Analysis	8015 NM		1			118477	09/08/25 16:36	SA	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	118103	09/02/25 16:27	EL	EET MID
Total/NA	Analysis	8015B NM		10	1 uL	1 uL	118424	09/08/25 16:36	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	118101	09/02/25 16:27	SA	EET MID
Soluble	Analysis	300.0		5			118187	09/04/25 15:19	SMC	EET MID

**Client Sample ID: SS 06**  
**Date Collected: 08/28/25 13:42**  
**Date Received: 08/29/25 17:12**

**Lab Sample ID: 890-8740-3**  
**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			5.01 g	5 mL	118217	09/04/25 09:06	EL	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	118210	09/04/25 15:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			118290	09/04/25 15:07	SA	EET MID
Total/NA	Analysis	8015 NM		1			118477	09/08/25 16:50	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	118103	09/02/25 16:27	EL	EET MID
Total/NA	Analysis	8015B NM		10	1 uL	1 uL	118424	09/08/25 16:50	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	118101	09/02/25 16:27	SA	EET MID
Soluble	Analysis	300.0		1			118187	09/04/25 12:38	SMC	EET MID

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



Accreditation/Certification Summary

Client: Ensolum  
Project/Site: Flaming Snail Fed Com 802H

Job ID: 890-8740-1  
SDG: 03D2024363

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	06-30-26
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
8015B NM	8015NM Prep	Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum  
Project/Site: Flaming Snail Fed Com 802H

Job ID: 890-8740-1  
SDG: 03D2024363

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: Flaming Snail Fed Com 802H

Job ID: 890-8740-1  
SDG: 03D2024363

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8740-1	SS 04	Solid	08/28/25 09:50	08/29/25 17:12	0.5'
890-8740-2	SS 05	Solid	08/28/25 13:40	08/29/25 17:12	0.5'
890-8740-3	SS 06	Solid	08/28/25 13:42	08/29/25 17:12	0.5'

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



Environment Testing  
Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300  
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3333  
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 \_\_\_\_\_ of \_\_\_\_\_

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

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other:	

[illegible]

## Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8740-1

SDG Number: 03D2024363

**Login Number: 8740****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: 890-8740-1

SDG Number: 03D2024363

Login Number: 8740

List Number: 2

Creator: Laing, Edmundo

List Source: Eurofins Midland

List Creation: 09/03/25 08:17 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

September 30, 2025

KALEI JENNINGS

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: FLAMING SNAIL FED CON 802H

Enclosed are the results of analyses for samples received by the laboratory on 09/26/25 15:46.

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](http://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' at the beginning.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
KALEI JENNINGS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 09/26/2025  
Reported: 09/30/2025  
Project Name: FLAMING SNAIL FED CON 802H  
Project Number: 07A1988176  
Project Location: 32.106968, -104.189714

Sampling Date: 09/26/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: PH 01A 3' (H256068-01)**

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	09/29/2025	ND	2.03	101	2.00	3.56		
Toluene*	<0.050	0.050	09/29/2025	ND	2.04	102	2.00	3.63		
Ethylbenzene*	<0.050	0.050	09/29/2025	ND	2.00	100	2.00	4.41		
Total Xylenes*	<0.150	0.150	09/29/2025	ND	5.96	99.3	6.00	4.44		
Total BTX	<0.300	0.300	09/29/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	320	16.0	09/30/2025	ND	416	104	400	0.00		

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	09/29/2025	ND	190	95.1	200	4.09	
DRO >C10-C28*	<10.0	10.0	09/29/2025	ND	209	105	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	09/29/2025	ND					

Surrogate: 1-Chlorooctane 81.2 % 52.4-130

Surrogate: 1-Chlorooctadecane 76.0 % 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



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

September 29, 2025

KALEI JENNINGS

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: FLAMING SNAIL FED CON 802H

Enclosed are the results of analyses for samples received by the laboratory on 09/26/25 15:46.

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](http://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  
KALEI JENNINGS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 09/26/2025  
Reported: 09/29/2025  
Project Name: FLAMING SNAIL FED CON 802H  
Project Number: 07A1988176  
Project Location: 32.106968, -104.189714

Sampling Date: 09/26/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: PH 01 2' (H256069-01)**

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	09/27/2025	ND	1.92	96.2	2.00	4.31	
Toluene*	<0.050	0.050	09/27/2025	ND	1.94	96.8	2.00	4.04	
Ethylbenzene*	<0.050	0.050	09/27/2025	ND	1.94	97.0	2.00	4.18	
Total Xylenes*	<0.150	0.150	09/27/2025	ND	5.99	99.8	6.00	4.41	
Total BTX	<0.300	0.300	09/27/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	448	16.0	09/29/2025	ND	416	104	400	7.41		

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	09/27/2025	ND	179	89.3	200	0.815	
DRO >C10-C28*	346	10.0	09/27/2025	ND	184	92.1	200	0.729	
EXT DRO >C28-C36	<10.0	10.0	09/27/2025	ND					

Surrogate: 1-Chlorooctane 82.3 % 52.4-130

Surrogate: 1-Chlorooctadecane 99.3 % 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  
KALEI JENNINGS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 09/26/2025  
Reported: 09/29/2025  
Project Name: FLAMING SNAIL FED CON 802H  
Project Number: 07A1988176  
Project Location: 32.106968, -104.189714

Sampling Date: 09/26/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: PH 02 2' (H256069-02)**

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	09/27/2025	ND	1.92	96.2	2.00	4.31		
Toluene*	<0.050	0.050	09/27/2025	ND	1.94	96.8	2.00	4.04		
Ethylbenzene*	<0.050	0.050	09/27/2025	ND	1.94	97.0	2.00	4.18		
Total Xylenes*	<0.150	0.150	09/27/2025	ND	5.99	99.8	6.00	4.41		
Total BTX	<0.300	0.300	09/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	09/29/2025	ND	416	104	400	7.41		

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	09/27/2025	ND	179	89.3	200	0.815	
DRO >C10-C28*	28.1	10.0	09/27/2025	ND	184	92.1	200	0.729	
EXT DRO >C28-C36	<10.0	10.0	09/27/2025	ND					

Surrogate: 1-Chlorooctane 84.6 % 52.4-130

Surrogate: 1-Chlorooctadecane 85.5 % 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  
KALEI JENNINGS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 09/26/2025  
Reported: 09/29/2025  
Project Name: FLAMING SNAIL FED CON 802H  
Project Number: 07A1988176  
Project Location: 32.106968, -104.189714

Sampling Date: 09/26/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: PH 03 1' (H256069-03)**

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	09/27/2025	ND	1.92	96.2	2.00	4.31		
Toluene*	<0.050	0.050	09/27/2025	ND	1.94	96.8	2.00	4.04		
Ethylbenzene*	<0.050	0.050	09/27/2025	ND	1.94	97.0	2.00	4.18		
Total Xylenes*	<0.150	0.150	09/27/2025	ND	5.99	99.8	6.00	4.41		
Total BTX	<0.300	0.300	09/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	368	16.0	09/29/2025	ND	416	104	400	7.41		

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	09/27/2025	ND	179	89.3	200	0.815	
DRO >C10-C28*	<10.0	10.0	09/27/2025	ND	184	92.1	200	0.729	
EXT DRO >C28-C36	<10.0	10.0	09/27/2025	ND					

Surrogate: 1-Chlorooctane 88.1 % 52.4-130

Surrogate: 1-Chlorooctadecane 87.3 % 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  
KALEI JENNINGS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 09/26/2025  
Reported: 09/29/2025  
Project Name: FLAMING SNAIL FED CON 802H  
Project Number: 07A1988176  
Project Location: 32.106968, -104.189714

Sampling Date: 09/26/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: PH 04 2' (H256069-04)**

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	09/27/2025	ND	1.92	96.2	2.00	4.31		
Toluene*	<0.050	0.050	09/27/2025	ND	1.94	96.8	2.00	4.04		
Ethylbenzene*	<0.050	0.050	09/27/2025	ND	1.94	97.0	2.00	4.18		
Total Xylenes*	<0.150	0.150	09/27/2025	ND	5.99	99.8	6.00	4.41		
Total BTEx	<0.300	0.300	09/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	288	16.0	09/29/2025	ND	416	104	400	7.41		

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	09/27/2025	ND	179	89.3	200	0.815	
DRO >C10-C28*	<10.0	10.0	09/27/2025	ND	184	92.1	200	0.729	
EXT DRO >C28-C36	<10.0	10.0	09/27/2025	ND					

Surrogate: 1-Chlorooctane 83.3 % 52.4-130

Surrogate: 1-Chlorooctadecane 82.5 % 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



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

October 07, 2025

KALEI JENNINGS

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: FLAMING SNAIL FED COM 802H

Enclosed are the results of analyses for samples received by the laboratory on 10/07/25 13:40.

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](http://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 "Coley 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  
KALEI JENNINGS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 10/07/2025  
Reported: 10/07/2025  
Project Name: FLAMING SNAIL FED COM 802H  
Project Number: 07A1988176  
Project Location: 32.106968, -104.189714

Sampling Date: 10/06/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 01 3' (H256236-01)**

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	10/07/2025	ND	1.93	96.6	2.00	18.4	
Toluene*	<0.050	0.050	10/07/2025	ND	1.90	95.1	2.00	16.6	
Ethylbenzene*	<0.050	0.050	10/07/2025	ND	1.84	92.2	2.00	15.0	
Total Xylenes*	<0.150	0.150	10/07/2025	ND	5.39	89.8	6.00	16.0	
Total BTEx	<0.300	0.300	10/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 88.9 % 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	176	16.0	10/07/2025	ND	400	100	400	7.69	

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	10/07/2025	ND	202	101	200	2.29	
DRO >C10-C28*	<10.0	10.0	10/07/2025	ND	207	103	200	2.03	
EXT DRO >C28-C36	<10.0	10.0	10/07/2025	ND					

Surrogate: 1-Chlorooctane 80.4 % 52.4-130

Surrogate: 1-Chlorooctadecane 75.4 % 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  
KALEI JENNINGS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 10/07/2025  
Reported: 10/07/2025  
Project Name: FLAMING SNAIL FED COM 802H  
Project Number: 07A1988176  
Project Location: 32.106968, -104.189714

Sampling Date: 10/06/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 02 2' (H256236-02)**

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	10/07/2025	ND	1.93	96.6	2.00	18.4	
Toluene*	<0.050	0.050	10/07/2025	ND	1.90	95.1	2.00	16.6	
Ethylbenzene*	<0.050	0.050	10/07/2025	ND	1.84	92.2	2.00	15.0	
Total Xylenes*	<0.150	0.150	10/07/2025	ND	5.39	89.8	6.00	16.0	
Total BTEx	<0.300	0.300	10/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.8 % 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	176	16.0	10/07/2025	ND	400	100	400	7.69	

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	10/07/2025	ND	202	101	200	2.29	
DRO >C10-C28*	<10.0	10.0	10/07/2025	ND	207	103	200	2.03	
EXT DRO >C28-C36	<10.0	10.0	10/07/2025	ND					

Surrogate: 1-Chlorooctane 87.8 % 52.4-130

Surrogate: 1-Chlorooctadecane 82.5 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
KALEI JENNINGS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 10/07/2025  
Reported: 10/07/2025  
Project Name: FLAMING SNAIL FED COM 802H  
Project Number: 07A1988176  
Project Location: 32.106968, -104.189714

Sampling Date: 10/06/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 03 2' (H256236-03)**

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	10/07/2025	ND	1.93	96.6	2.00	18.4		
Toluene*	<0.050	0.050	10/07/2025	ND	1.90	95.1	2.00	16.6		
Ethylbenzene*	<0.050	0.050	10/07/2025	ND	1.84	92.2	2.00	15.0		
Total Xylenes*	<0.150	0.150	10/07/2025	ND	5.39	89.8	6.00	16.0		
Total BTEx	<0.300	0.300	10/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.1 % 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	208	16.0	10/07/2025	ND	400	100	400	7.69	

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	10/07/2025	ND	202	101	200	2.29	
DRO >C10-C28*	12.2	10.0	10/07/2025	ND	207	103	200	2.03	
EXT DRO >C28-C36	<10.0	10.0	10/07/2025	ND					

Surrogate: 1-Chlorooctane 83.5 % 52.4-130

Surrogate: 1-Chlorooctadecane 78.4 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
KALEI JENNINGS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 10/07/2025  
Reported: 10/07/2025  
Project Name: FLAMING SNAIL FED COM 802H  
Project Number: 07A1988176  
Project Location: 32.106968, -104.189714

Sampling Date: 10/06/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 04 0.5' (H256236-04)**

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	10/07/2025	ND	1.93	96.6	2.00	18.4		
Toluene*	<0.050	0.050	10/07/2025	ND	1.90	95.1	2.00	16.6		
Ethylbenzene*	<0.050	0.050	10/07/2025	ND	1.84	92.2	2.00	15.0		
Total Xylenes*	<0.150	0.150	10/07/2025	ND	5.39	89.8	6.00	16.0		
Total BTEx	<0.300	0.300	10/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.7 % 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	208	16.0	10/07/2025	ND	400	100	400	7.69		

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	10/07/2025	ND	202	101	200	2.29	
DRO >C10-C28*	<10.0	10.0	10/07/2025	ND	207	103	200	2.03	
EXT DRO >C28-C36	<10.0	10.0	10/07/2025	ND					

Surrogate: 1-Chlorooctane 89.9 % 52.4-130

Surrogate: 1-Chlorooctadecane 83.7 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
KALEI JENNINGS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 10/07/2025  
Reported: 10/07/2025  
Project Name: FLAMING SNAIL FED COM 802H  
Project Number: 07A1988176  
Project Location: 32.106968, -104.189714

Sampling Date: 10/06/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 05 0.5' (H256236-05)**

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	10/07/2025	ND	1.93	96.6	2.00	18.4		
Toluene*	<0.050	0.050	10/07/2025	ND	1.90	95.1	2.00	16.6		
Ethylbenzene*	<0.050	0.050	10/07/2025	ND	1.84	92.2	2.00	15.0		
Total Xylenes*	<0.150	0.150	10/07/2025	ND	5.39	89.8	6.00	16.0		
Total BTEx	<0.300	0.300	10/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.6 % 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	272	16.0	10/07/2025	ND	400	100	400	7.69	

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	10/07/2025	ND	202	101	200	2.29	
DRO >C10-C28*	<10.0	10.0	10/07/2025	ND	207	103	200	2.03	
EXT DRO >C28-C36	<10.0	10.0	10/07/2025	ND					

Surrogate: 1-Chlorooctane 84.5 % 52.4-130

Surrogate: 1-Chlorooctadecane 78.9 % 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  
KALEI JENNINGS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 10/07/2025  
Reported: 10/07/2025  
Project Name: FLAMING SNAIL FED COM 802H  
Project Number: 07A1988176  
Project Location: 32.106968, -104.189714

Sampling Date: 10/06/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 06 0.5' (H256236-06)**

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	10/07/2025	ND	1.86	93.0	2.00	20.7		
Toluene*	<0.050	0.050	10/07/2025	ND	1.96	97.9	2.00	17.7		
Ethylbenzene*	<0.050	0.050	10/07/2025	ND	1.97	98.6	2.00	16.6		
Total Xylenes*	<0.150	0.150	10/07/2025	ND	6.11	102	6.00	15.5		
Total BTEx	<0.300	0.300	10/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	10/07/2025	ND	400	100	400	7.69		

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	10/07/2025	ND	195	97.3	200	1.67	
DRO >C10-C28*	<10.0	10.0	10/07/2025	ND	219	110	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	10/07/2025	ND					

Surrogate: 1-Chlorooctane 79.4 % 52.4-130

Surrogate: 1-Chlorooctadecane 71.4 % 39.9-141

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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  
KALEI JENNINGS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 10/07/2025  
Reported: 10/07/2025  
Project Name: FLAMING SNAIL FED COM 802H  
Project Number: 07A1988176  
Project Location: 32.106968, -104.189714

Sampling Date: 10/06/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 07 0.5' (H256236-07)**

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	10/07/2025	ND	1.86	93.0	2.00	20.7		
Toluene*	<0.050	0.050	10/07/2025	ND	1.96	97.9	2.00	17.7		
Ethylbenzene*	<0.050	0.050	10/07/2025	ND	1.97	98.6	2.00	16.6		
Total Xylenes*	<0.150	0.150	10/07/2025	ND	6.11	102	6.00	15.5		
Total BTEX	<0.300	0.300	10/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	368	16.0	10/07/2025	ND	400	100	400	7.69		

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	10/07/2025	ND	195	97.3	200	1.67	
DRO >C10-C28*	<10.0	10.0	10/07/2025	ND	219	110	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	10/07/2025	ND					

Surrogate: 1-Chlorooctane 81.1 % 52.4-130

Surrogate: 1-Chlorooctadecane 73.4 % 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  
KALEI JENNINGS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 10/07/2025  
Reported: 10/07/2025  
Project Name: FLAMING SNAIL FED COM 802H  
Project Number: 07A1988176  
Project Location: 32.106968, -104.189714

Sampling Date: 10/06/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 08 0.5' (H256236-08)**

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	10/07/2025	ND	1.86	93.0	2.00	20.7		
Toluene*	<0.050	0.050	10/07/2025	ND	1.96	97.9	2.00	17.7		
Ethylbenzene*	<0.050	0.050	10/07/2025	ND	1.97	98.6	2.00	16.6		
Total Xylenes*	<0.150	0.150	10/07/2025	ND	6.11	102	6.00	15.5		
Total BTEX	<0.300	0.300	10/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	144	16.0	10/07/2025	ND	400	100	400	7.69		

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	10/07/2025	ND	195	97.3	200	1.67	
DRO >C10-C28*	<10.0	10.0	10/07/2025	ND	219	110	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	10/07/2025	ND					

Surrogate: 1-Chlorooctane 77.1 % 52.4-130

Surrogate: 1-Chlorooctadecane 70.2 % 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  
KALEI JENNINGS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 10/07/2025  
Reported: 10/07/2025  
Project Name: FLAMING SNAIL FED COM 802H  
Project Number: 07A1988176  
Project Location: 32.106968, -104.189714

Sampling Date: 10/06/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 09 0.5' (H256236-09)**

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	10/07/2025	ND	1.86	93.0	2.00	20.7		
Toluene*	<0.050	0.050	10/07/2025	ND	1.96	97.9	2.00	17.7		
Ethylbenzene*	<0.050	0.050	10/07/2025	ND	1.97	98.6	2.00	16.6		
Total Xylenes*	<0.150	0.150	10/07/2025	ND	6.11	102	6.00	15.5		
Total BTEx	<0.300	0.300	10/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	336	16.0	10/07/2025	ND	400	100	400	7.69		

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	10/07/2025	ND	195	97.3	200	1.67	
DRO >C10-C28*	14.6	10.0	10/07/2025	ND	219	110	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	10/07/2025	ND					

Surrogate: 1-Chlorooctane 81.1 % 52.4-130

Surrogate: 1-Chlorooctadecane 74.3 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
KALEI JENNINGS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 10/07/2025  
Reported: 10/07/2025  
Project Name: FLAMING SNAIL FED COM 802H  
Project Number: 07A1988176  
Project Location: 32.106968, -104.189714

Sampling Date: 10/06/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 10 0.5' (H256236-10)**

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	10/07/2025	ND	1.86	93.0	2.00	20.7		
Toluene*	<0.050	0.050	10/07/2025	ND	1.96	97.9	2.00	17.7		
Ethylbenzene*	<0.050	0.050	10/07/2025	ND	1.97	98.6	2.00	16.6		
Total Xylenes*	<0.150	0.150	10/07/2025	ND	6.11	102	6.00	15.5		
Total BTEX	<0.300	0.300	10/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	10/07/2025	ND	400	100	400	7.69		

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	10/07/2025	ND	195	97.3	200	1.67	
DRO >C10-C28*	<10.0	10.0	10/07/2025	ND	219	110	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	10/07/2025	ND					

Surrogate: 1-Chlorooctane 79.3 % 52.4-130

Surrogate: 1-Chlorooctadecane 70.7 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
KALEI JENNINGS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 10/07/2025  
Reported: 10/07/2025  
Project Name: FLAMING SNAIL FED COM 802H  
Project Number: 07A1988176  
Project Location: 32.106968, -104.189714

Sampling Date: 10/06/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 11 3' (H256236-11)**

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	10/07/2025	ND	2.10	105	2.00	20.1	
Toluene*	<0.050	0.050	10/07/2025	ND	1.96	97.8	2.00	15.8	
Ethylbenzene*	<0.050	0.050	10/07/2025	ND	2.04	102	2.00	14.9	
Total Xylenes*	<0.150	0.150	10/07/2025	ND	6.20	103	6.00	14.5	
Total BTEX	<0.300	0.300	10/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 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	192	16.0	10/07/2025	ND	400	100	400	7.69	

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	10/07/2025	ND	206	103	200	4.24	
DRO >C10-C28*	<10.0	10.0	10/07/2025	ND	207	103	200	0.0891	
EXT DRO >C28-C36	<10.0	10.0	10/07/2025	ND					

Surrogate: 1-Chlorooctane 73.3 % 52.4-130

Surrogate: 1-Chlorooctadecane 70.5 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
KALEI JENNINGS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 10/07/2025  
Reported: 10/07/2025  
Project Name: FLAMING SNAIL FED COM 802H  
Project Number: 07A1988176  
Project Location: 32.106968, -104.189714

Sampling Date: 10/06/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 12 3' (H256236-12)**

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	10/07/2025	ND	2.10	105	2.00	20.1		
Toluene*	<0.050	0.050	10/07/2025	ND	1.96	97.8	2.00	15.8		
Ethylbenzene*	<0.050	0.050	10/07/2025	ND	2.04	102	2.00	14.9		
Total Xylenes*	<0.150	0.150	10/07/2025	ND	6.20	103	6.00	14.5		
Total BTEx	<0.300	0.300	10/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	192	16.0	10/07/2025	ND	400	100	400	7.69		

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	10/07/2025	ND	206	103	200	4.24	
DRO >C10-C28*	<10.0	10.0	10/07/2025	ND	207	103	200	0.0891	
EXT DRO >C28-C36	<10.0	10.0	10/07/2025	ND					

Surrogate: 1-Chlorooctane 83.1 % 52.4-130

Surrogate: 1-Chlorooctadecane 80.7 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
KALEI JENNINGS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 10/07/2025  
Reported: 10/07/2025  
Project Name: FLAMING SNAIL FED COM 802H  
Project Number: 07A1988176  
Project Location: 32.106968, -104.189714

Sampling Date: 10/06/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 13 3' (H256236-13)**

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	10/07/2025	ND	2.10	105	2.00	20.1		
Toluene*	<0.050	0.050	10/07/2025	ND	1.96	97.8	2.00	15.8		
Ethylbenzene*	<0.050	0.050	10/07/2025	ND	2.04	102	2.00	14.9		
Total Xylenes*	<0.150	0.150	10/07/2025	ND	6.20	103	6.00	14.5		
Total BTEx	<0.300	0.300	10/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	112	16.0	10/07/2025	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	10/07/2025	ND	206	103	200	4.24	
DRO >C10-C28*	<10.0	10.0	10/07/2025	ND	207	103	200	0.0891	
EXT DRO >C28-C36	<10.0	10.0	10/07/2025	ND					

Surrogate: 1-Chlorooctane 82.6 % 52.4-130

Surrogate: 1-Chlorooctadecane 79.2 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ENSOLUM  
KALEI JENNINGS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 10/07/2025  
Reported: 10/07/2025  
Project Name: FLAMING SNAIL FED COM 802H  
Project Number: 07A1988176  
Project Location: 32.106968, -104.189714

Sampling Date: 10/06/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SW 01 0-3' (H256236-14)**

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	10/07/2025	ND	2.10	105	2.00	20.1		
Toluene*	<0.050	0.050	10/07/2025	ND	1.96	97.8	2.00	15.8		
Ethylbenzene*	<0.050	0.050	10/07/2025	ND	2.04	102	2.00	14.9		
Total Xylenes*	<0.150	0.150	10/07/2025	ND	6.20	103	6.00	14.5		
Total BTEx	<0.300	0.300	10/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 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	144	16.0	10/07/2025	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	10/07/2025	ND	206	103	200	4.24	
DRO >C10-C28*	16.4	10.0	10/07/2025	ND	207	103	200	0.0891	
EXT DRO >C28-C36	<10.0	10.0	10/07/2025	ND					

Surrogate: 1-Chlorooctane 78.1 % 52.4-130

Surrogate: 1-Chlorooctadecane 76.0 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
KALEI JENNINGS  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 10/07/2025  
Reported: 10/07/2025  
Project Name: FLAMING SNAIL FED COM 802H  
Project Number: 07A1988176  
Project Location: 32.106968, -104.189714

Sampling Date: 10/06/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SW 02 0-2' (H256236-15)**

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	10/07/2025	ND	2.10	105	2.00	20.1		
Toluene*	<0.050	0.050	10/07/2025	ND	1.96	97.8	2.00	15.8		
Ethylbenzene*	<0.050	0.050	10/07/2025	ND	2.04	102	2.00	14.9		
Total Xylenes*	<0.150	0.150	10/07/2025	ND	6.20	103	6.00	14.5		
Total BTX	<0.300	0.300	10/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 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	304	16.0	10/07/2025	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	10/07/2025	ND	206	103	200	4.24	
DRO >C10-C28*	<10.0	10.0	10/07/2025	ND	207	103	200	0.0891	
EXT DRO >C28-C36	<10.0	10.0	10/07/2025	ND					

Surrogate: 1-Chlorooctane 86.3 % 52.4-130

Surrogate: 1-Chlorooctadecane 82.5 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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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 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

<b>Company Name:</b> Ensolum, LLC.		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>											
<b>Project Manager:</b> Kalei Jennings		<b>P.O. #:</b>													
<b>Address:</b> 3122 National Parks Hwy		<b>Company:</b>													
<b>City:</b> Carlsbad		<b>Attn:</b>													
<b>Phone #:</b> 817-683-2503		<b>Address:</b>													
<b>Fax #:</b>															
<b>Project #:</b> 07A1988176		<b>City:</b>													
<b>Project Owner:</b> ConocoPhillips		<b>State:</b>													
<b>Project Name:</b> Flaming Snail Fed Com 802H		<b>Zip:</b>													
<b>Project Location:</b> 32.106968,-104.189714		<b>Phone #:</b>													
<b>Sample Name:</b> Alex Ferrell		<b>Fax #:</b>													
FOR LAB USE ONLY															
<b>Lab I.D.</b>		<b>Sample I.D.</b>		<b>Sample Depth</b>		<b>(G)RAB OR (C)OMP.</b>		<b># CONTAINERS</b>		<b>MATRIX</b>		<b>PRESERV.</b>		<b>SAMPLING</b>	
FS01		3'				C 1		X		X		X		X	
FS02		2'				C 1		X		X		X		X	
FS03		2'				C 1		X		X		X		X	
FS04		0.5'				C 1		X		X		X		X	
FS05		0.5'				C 1		X		X		X		X	
FS06		0.5'				C 1		X		X		X		X	
FS07		0.5'				C 1		X		X		X		X	
FS08		0.5'				C 1		X		X		X		X	
FS09		0.5'				C 1		X		X		X		X	
FS10		0.5'				C 1		X		X		X		X	
<b>PLEASE NOTE:</b> 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 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 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 reasons or otherwise.															
<b>Relinquished By:</b>		<b>Date:</b> 10-7-25		<b>Received By:</b>		<b>Date:</b> 10-7-25		<b>Time:</b> 1340		<b>Time:</b> 1340		<b>Time:</b> 1340		<b>Time:</b> 1340	
<b>Relinquished By:</b>		<b>Date:</b>		<b>Received By:</b>		<b>Date:</b>		<b>Time:</b>		<b>Time:</b>		<b>Time:</b>		<b>Time:</b>	
<b>Delivered By:</b> (Circle One)		<b>Observed Temp. °C:</b> 3.3		<b>Sample Condition</b>		<b>CHECKED BY:</b>		<b>Turnaround Time:</b>		<b>Standard</b>		<b>Bacteria (only) Sample Condition</b>		<b>Observed Temp. °C</b>	
<b>Sampler - UPS - Bus - Other:</b>		<b>Corrected Temp. °C:</b> 3.6		<b>Cool Intact</b>		<b>(Initials)</b>		<b>Thermometer ID #140</b>		<b>Rush</b>		<b>Cool Intact</b>		<b>Observed Temp. °C</b>	
<b>FORM-006 R 3.6 02/12/25</b>				<b>Yes</b>		<b>Yes</b>		<b>Correction Factor +0.3°C</b>		<b>SAME DAY</b>		<b>Yes</b>		<b>Corrected Temp. °C</b>	
				<b>No</b>		<b>No</b>				<b>NO</b>		<b>No</b>			
<b>REMARKS:</b>															
<b>Verbal Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Add'l Phone #:</b>															
<b>All Results are emailed. Please provide Email address:</b>															
<b>Aferrell@ensolum.com</b> <b>KJennings@ensolum.com</b>															
<b>KJennings@ensolum.com</b>															

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





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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



## APPENDIX E

### NMOCD Notifications

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## Kalei Jennings

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**From:** Carlile, Justin <Justin.Carlile@conocophillips.com>  
**Sent:** Tuesday, September 23, 2025 10:45 AM  
**To:** Kalei Jennings  
**Subject:** FW: [EXTERNAL]The Oil Conservation Division (OCD) has accepted the application, Application ID: 508365

[ \*\*EXTERNAL EMAIL\*\* ]

### Justin Carlile

Sr. Environmental Engineer  
Lower 48 Environmental – D&C, Water Management, Workovers, and Oklahoma  
T: 281.206.5770 | M: 432.202.4112 | [Justin.Carlile@ConocoPhillips.com](mailto:Justin.Carlile@ConocoPhillips.com)



---

**From:** OCDOnline@state.nm.us <OCDOnline@state.nm.us>  
**Sent:** Tuesday, September 23, 2025 10:42 AM  
**To:** Carlile, Justin <Justin.Carlile@conocophillips.com>  
**Subject:** [EXTERNAL]The Oil Conservation Division (OCD) has accepted the application, Application ID: 508365

**CAUTION:** This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

To whom it may concern (c/o Justin Carlile for COG OPERATING LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2516055997.

The sampling event is expected to take place:

**When:** 09/26/2025 @ 08:00

**Where:** A-28-25S-27E 0 FNL 0 FEL (32.106968,-104.189714)

**Additional Information:** Contact Kalei Jennings, 817-683-2503

**Additional Instructions:** Flaming Snail Fed Com 802H  
(NAPP2516055997)  
31.106968, -104.1899714

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling



must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**
- **If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

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

OCD Permitting

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[NOTIFY] Notification Of Sampling (C-141N) Application

Submission Information

Submission ID:	508365	Districts:	Artesia
Operator:	[229137] COG OPERATING LLC	Counties:	Eddy
Description:	COG OPERATING LLC [229137] , FLAMING SNAIL FEDERAL COM , nAPP2516055997		
Status:	Approved		
Status Date:	09/23/2025		
References (0):			

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2516055997
Incident Name	NAPP2516055997 FLAMING SNAIL FEDERAL COM @ 30-015-54195
Incident Type	Release Other
Incident Status	Initial C-141 Approved
Incident Well	[30-015-54195] FLAMING SNAIL FEDERAL COM #802H

Location of Release Source

Site Name	FLAMING SNAIL FEDERAL COM
Date Release Discovered	06/09/2025
Surface Owner	Federal

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	1,500
What is the estimated number of samples that will be gathered	10
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/26/2025
Time sampling will commence	08:00 AM
Warning: Notification can not be less than two business days prior to conducting final sampling.	
Please provide any information necessary for observers to contact samplers	Contact Kalei Jennings, 817-683-2503
Please provide any information necessary for navigation to sampling site	Flaming Snail Fed Com 802H (NAPP2516055997) 31.106968, -104.1899714

Comments

No comments found for this submission.

Conditions

Summary:

carlij (9/23/2025), Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

carlij (9/23/2025), If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.

Reasons

No reasons found for this submission.

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OCD Permitting

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[NOTIFY] Notification Of Sampling (C-141N) Application

Submission Information

Submission ID:	510872	Districts:	Artesia
Operator:	[229137] COG OPERATING LLC	Counties:	Eddy
Description:	COG OPERATING LLC [229137] , FLAMING SNAIL FEDERAL COM , nAPP2516055997		
Status:	Approved		
Status Date:	09/30/2025		
References (0):			

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2516055997
Incident Name	NAPP2516055997 FLAMING SNAIL FEDERAL COM @ 30-015-54195
Incident Type	Release Other
Incident Status	Initial C-141 Approved
Incident Well	[30-015-54195] FLAMING SNAIL FEDERAL COM #802H

Location of Release Source

Site Name	FLAMING SNAIL FEDERAL COM
Date Release Discovered	06/09/2025
Surface Owner	Federal

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	1,500
What is the estimated number of samples that will be gathered	15
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/06/2025
Time sampling will commence	08:00 AM
Warning: Notification can not be less than two business days prior to conducting final sampling.	
Please provide any information necessary for observers to contact samplers	Contact Kalei Jennings, 817-683-2503
Please provide any information necessary for navigation to sampling site	Flaming Snail Fed Com 802H (NAPP2516055997) 32.106968,-104.189714

Comments

No comments found for this submission.

Conditions

Summary:

carlij (9/30/2025), Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

carlij (9/30/2025), If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.

Reasons

No reasons found for this submission.

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OCD Permitting

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[NOTIFY] Notification Of Sampling (C-141N) Application

Submission Information

Submission ID:	510874	Districts:	Artesia
Operator:	[229137] COG OPERATING LLC	Counties:	Eddy
Description:	COG OPERATING LLC [229137] , FLAMING SNAIL FEDERAL COM , nAPP2516055997		
Status:	Approved		
Status Date:	09/30/2025		
References (0):			

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nAPP2516055997
Incident Name	NAPP2516055997 FLAMING SNAIL FEDERAL COM @ 30-015-54195
Incident Type	Release Other
Incident Status	Initial C-141 Approved
Incident Well	[30-015-54195] FLAMING SNAIL FEDERAL COM #802H

Location of Release Source

Site Name	FLAMING SNAIL FEDERAL COM
Date Release Discovered	06/09/2025
Surface Owner	Federal

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	1,500
What is the estimated number of samples that will be gathered	15
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/07/2025
Time sampling will commence	08:00 AM
Warning: Notification can not be less than two business days prior to conducting final sampling.	
Please provide any information necessary for observers to contact samplers	Contact Kalei Jennings, 817-683-2503
Please provide any information necessary for navigation to sampling site	Flaming Snail Fed Com 802H (NAPP2516055997) 32.106968,-104.189714

Comments

No comments found for this submission.

Conditions

Summary:

carlij (9/30/2025), Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

carlij (9/30/2025), If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.

Reasons

No reasons found for this submission.

Go Back



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Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS

Action 523770

**QUESTIONS**

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 523770
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2516055997
Incident Name	NAPP2516055997 FLAMING SNAIL FEDERAL COM @ 30-015-54195
Incident Type	Release Other
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-54195] FLAMING SNAIL FEDERAL COM #802H

**Location of Release Source**

Please answer all the questions in this group.

Site Name	FLAMING SNAIL FEDERAL COM
Date Release Discovered	06/09/2025
Surface Owner	Federal

**Incident Details**

Please answer all the questions in this group.

Incident Type	Release Other
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	Not answered.
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	Cause: Normal Operations   Tank (Any)   Drilling Mud/Fluid   Released: 9 BBL   Recovered: 8 BBL   Lost: 1 BBL.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Diesel 5.1951 bbls released 5 bbls recovered OBM 3.6102 bbls released 3 bbls recovered

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**Santa Fe, NM 87505**

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Action 523770

**QUESTIONS (continued)**

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 523770
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	<b>No, according to supplied volumes this does not appear to be a "gas only" report.</b>
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	<b>No</b>
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>
<i>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.</i>	

**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	<b>True</b>
The impacted area has been secured to protect human health and the environment	<b>True</b>
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	<b>True</b>
All free liquids and recoverable materials have been removed and managed appropriately	<b>True</b>
If all the actions described above have not been undertaken, explain why	<b>N/A</b>

*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: Brittany Esparza Title: Environmental Technician Email: <a href="mailto:brittany.Esparza@ConocoPhillips.com">brittany.Esparza@ConocoPhillips.com</a> Date: 11/06/2025
----------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

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**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

QUESTIONS, Page 3

Action 523770

**QUESTIONS (continued)**

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 523770
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Site Characterization</b>	
<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)	Less than or equal 25 (ft.)
What method was used to determine the depth to ground water	U.S. Geological Survey
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 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	Greater than 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1000 (ft.) and ½ (mi.)
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

<b>Remediation Plan</b>	
<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
<b>Soil Contamination Sampling:</b> (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	411
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	79.8
GRO+DRO (EPA SW-846 Method 8015M)	79.8
BTEX (EPA SW-846 Method 8021B or 8260B)	0
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	08/28/2025
On what date will (or did) the final sampling or liner inspection occur	10/06/2025
On what date will (or was) the remediation complete(d)	10/06/2025
What is the estimated surface area (in square feet) that will be reclaimed	2590
What is the estimated volume (in cubic yards) that will be reclaimed	150
What is the estimated surface area (in square feet) that will be remediated	2590
What is the estimated volume (in cubic yards) that will be remediated	150
<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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**Santa Fe, NM 87505**

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Action 523770

**QUESTIONS (continued)**

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 523770
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<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>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	<a href="#">fEEM0112342028 LEA LAND LANDFILL</a>
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> 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: Brittany Esparza Title: Environmental Technician Email: <a href="mailto:brittany.Esparza@ConocoPhillips.com">brittany.Esparza@ConocoPhillips.com</a> Date: 11/06/2025
<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 523770

QUESTIONS (continued)

Operator:  COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:  229137
	Action Number:  523770
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
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Action 523770

**QUESTIONS (continued)**

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 523770
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	510874
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/07/2025
What was the (estimated) number of samples that were to be gathered	15
What was the sampling surface area in square feet	1500

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
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	2590
What was the total volume (cubic yards) remediated	150
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	2590
What was the total volume (in cubic yards) reclaimed	150
Summarize any additional remediation activities not included by answers (above)	Excavation of impacted soil has mitigated impacts at this Site. Depth to groundwater has been estimated to be less than 50 feet bgs and is underlain by potentially unstable geology (high potential karst designation area). COG believes these remedial actions are protective of human health, the environment, and groundwater. As such, COG respectfully requests closure for Incident Number NAPP2516055997.
<i>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>	
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: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 11/06/2025

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Action 523770

QUESTIONS (continued)

Operator:  COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:  229137
	Action Number:  523770
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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

Action 523770

**CONDITIONS**

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 523770
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**CONDITIONS**

Created By	Condition	Condition Date
michael.buchanan	Remediation closure is approved.	11/17/2025
michael.buchanan	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. The OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	11/17/2025
michael.buchanan	A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	11/17/2025
michael.buchanan	All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeding activities, inspections, and final pictures when revegetation is achieved.	11/17/2025
michael.buchanan	A revegetation report will not be accepted until revegetation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	11/17/2025
michael.buchanan	Per 19.15.29.13 E. NMAC, if a reclamation and revegetation report has been submitted to the surface owner, it may be used if the requirements of the surface owner provide equal or better protection of freshwater, human health, and the environment. A copy of the approval of the reclamation and revegetation report from the surface owner and a copy of the approved reclamation and revegetation report will need to be submitted to the OCD via the Permitting website.	11/17/2025