

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

State of New Mexico
Energy Minerals and Natural
Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

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

Location of Release Source

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

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

Unit Letter	Section	Township	Range	County

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

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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

Initial Response

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

<input type="checkbox"/> The source of the release has been stopped.	
<input type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: _____	Title: _____
Signature: <u>Patricia Zapanta</u>	Date: _____
email: _____	Telephone: _____
<u>OCD Only</u>	
Received by: _____	Date: _____



February 6, 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: Remediation Work Plan
Atticus State Com #521H
Incident Number NAPP2403637444
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of COG Operating, LLC (COG), has prepared the following *Remediation Work Plan (Work Plan)* to document assessment activities completed to date and propose a work plan to address impacted soil identified at the Atticus State Com #521H (Site). The purpose of the Site assessment activities was to delineate the lateral and vertical extent of impacted soil resulting from a flash fire at the Site. The following *Work Plan* proposes to excavate impacted soil within the release extent.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit N, Section 36, Township 25 South, Range 27 East, in Eddy County, New Mexico (32.0798°, -104.1438°) and is associated with oil and gas exploration and production operations on State Trust Land (STL) managed by the New Mexico State Land Office (NMSLO).

On February 4, 2024, an equipment malfunction resulted in a flash fire. No fluids were recovered due to the fire burning off any standing fluid. COG reported the release to the New Mexico Oil Conservation Division (NMOCD) on February 5, 2024, and the release was assigned Incident Number NAPP2403637444.

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 are summarized below and detailed in the NMOCD permitting portal Form C-141 Site Characterization section.

Depth to groundwater at the Site is estimated to be between 51 feet and 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) permitted well C-04371-POD 1, located approximately 1.4 miles northwest of the Site. The groundwater well has a reported depth to groundwater of 69 feet bgs and a total depth of 100 feet bgs. All wells used for depth to groundwater determination are presented on Figure 1 and the associated well records are included in Appendix A.

COG Operating, LLC
Remediation Work Plan
Atticus State Com #521H

The closest continuously flowing or significant watercourse to the Site is a draw, located approximately 5,057 feet northeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is underlain by 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

CULTURAL PROPERTIES PROTECTION RULE

Since the release remained on pad, the Site is exempt from the Cultural Properties Protection Rule (CPP). As such no additional cultural resource surveys were completed in connection with this release.

BIOLOGICAL COMPLIANCE AND REPORTING

Ensolum personnel conducted a desktop review to establish if the Site is within an area of possible threatened, endangered, sensitive wildlife and plant species, environmentally sensitive areas, surface waters, and/or sensitive soils.

- The Site is not located within an area of possible threatened, endangered, or sensitive wildlife and plant species.
- The soil type is classified as Reeves-Reagan loams according to the Web Soil Survey. Reeves-Reagan loams is not considered a sensitive soil by the NMSLO definition.

SITE ASSESSMENT ACTIVITIES AND ANALYTICAL RESULTS

On December 5, 2024, Ensolum personnel were at the Site to evaluate the release extent based on information provided on the C-141 and visual observations. Four soil samples (SS01 through SS04) were collected around the release at a depth of 0.5 feet bgs to confirm the lateral extent of the release. Five soil samples (SS05 through SS09) were collected within the release to assess the extent of impacted soil. The soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. The release extent and 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 assessment and a photographic log is included in Appendix B.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Eurofins Environmental Testing in Midland, Texas 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

COG Operating, LLC
Remediation Work Plan
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organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.

Laboratory analytical results for assessment samples SS01 through SS09 indicated TPH and/or chloride concentrations exceeded the Site Closure Criteria at a depth of 0.5 feet bgs. Based on elevated field screening results and laboratory analytical results for the assessment soil samples, additional delineation activities were warranted.

DELINEATION ACTIVITIES AND ANALYTICAL RESULTS

On December 19, 2024, delineation activities were conducted at the Site to assess the vertical and lateral extent of impacted soil. Potholes PH01 through PH03 were advanced via backhoe within the release extent to maximum depths ranging from 3 feet to 4 feet bgs. Discrete delineation soil samples were collected from each pothole at depths ranging from 1-foot to 4 feet bgs. Additionally, SS01 through SS04 were stepped out and collected at a depth of 0.5 feet to confirm the lateral extent of impacted soil.

The soil samples were field screened for VOCs and chloride. Field screening results and observations from the potholes were logged on lithologic soil sampling logs, which are included in Appendix C. The delineation soil samples were handled and analyzed as described above. The delineation soil samples are depicted on Figure 2.

Laboratory analytical results for the delineation soil samples collected from potholes PH01 through PH03 indicated all COC concentrations were compliant with the Closure Criteria at depths ranging from 1-foot to 4 feet bgs. Laboratory analytical results for assessment samples SS02 and SS03 indicated all COC concentrations were compliant with the Closure Criteria. Laboratory analytical results for assessment samples SS01 and SS04 indicated chloride concentrations were still exceeding the Closure Criteria. The samples were stepped out laterally and recollected on January 24, 2025, which laboratory analytical results indicated all COC concentrations were compliant with the Closure Criteria and successfully defined the lateral extent of the release.

PROPOSED REMEDIATION WORK PLAN

The delineation soil sampling results indicate soil containing elevated chloride and/or TPH concentrations exist across an approximate 3,560-square foot area and extends to a maximum depth of 2 feet bgs. COG proposes to complete the following remediation activities on pad:

- Excavation of impacted soil to a depth of 2 feet bgs. Excavation will proceed laterally until sidewall samples confirm all COC concentrations are compliant with the Closure Criteria.
- Confirmation soil samples from the floor and sidewalls will be collected on a frequency of one 5-point composite sample for every 200 square feet.
- An estimated 250 cubic yards of impacted soil will be excavated. The excavated soil will be transferred a New Mexico approved landfill facility for disposal.
- The excavation will be backfilled and recontoured to match pre-existing conditions.

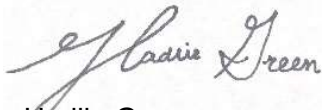
COG will proceed with the excavation and soil sampling activities and will submit a *Closure Report* within 90 days of the date of approval of this *Work Plan* by the NMOCD.

COG Operating, LLC
Remediation Work Plan
Atticus State Com #521H

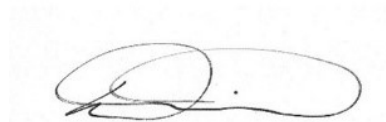
If you have any questions or comments, please contact Ms. Hadlie Green at (432) 557-8895 or hgreen@ensolum.com.

Sincerely,

Ensolum, LLC



Hadlie Green
Project Geologist



Daniel R. Moir, PG (licensed in WY & TX)
Senior Managing Geologist

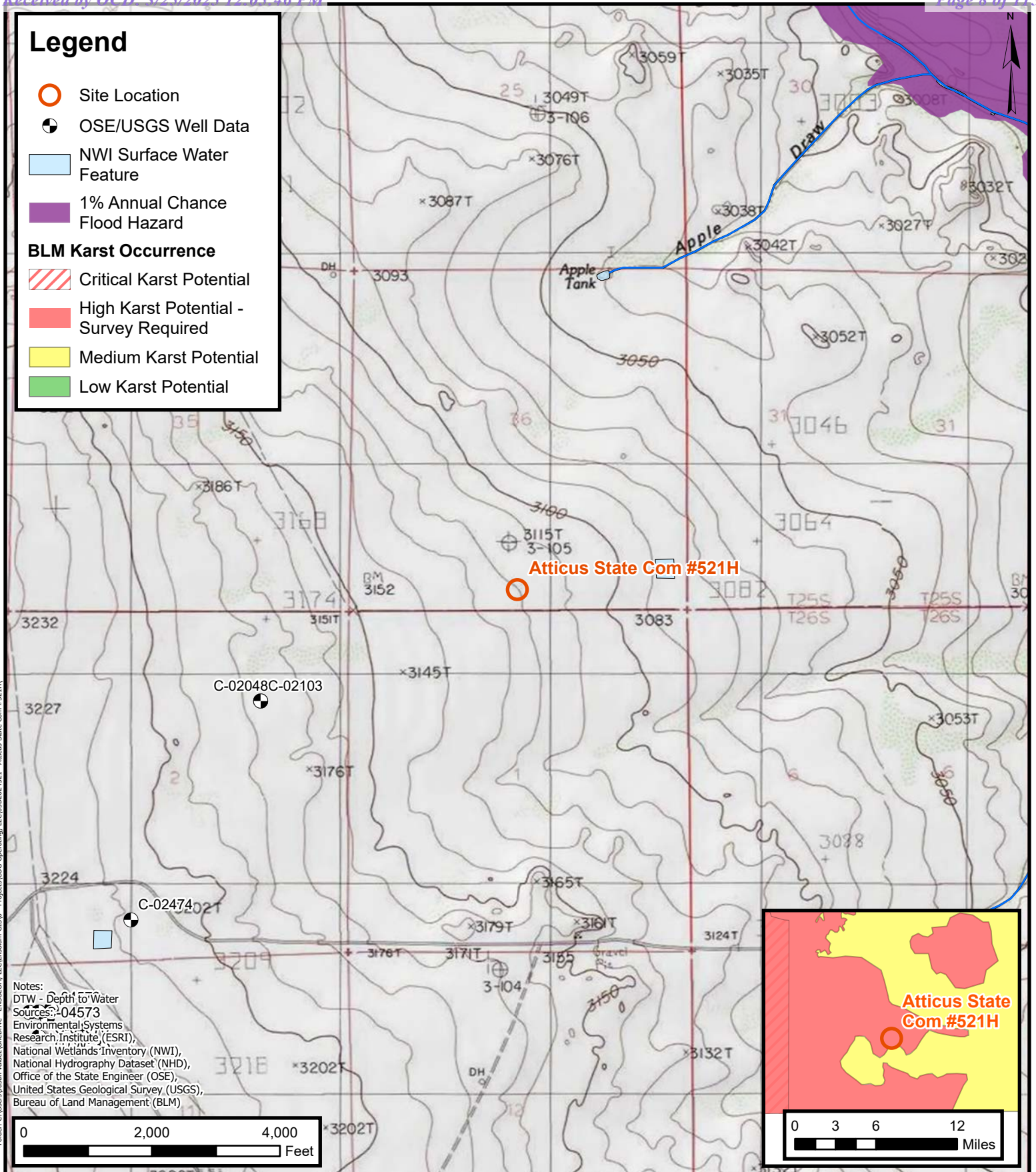
cc: Justin Carlile, ConocoPhillips Company
NMSLO

Appendices:

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



FIGURES



Site Receptor Map

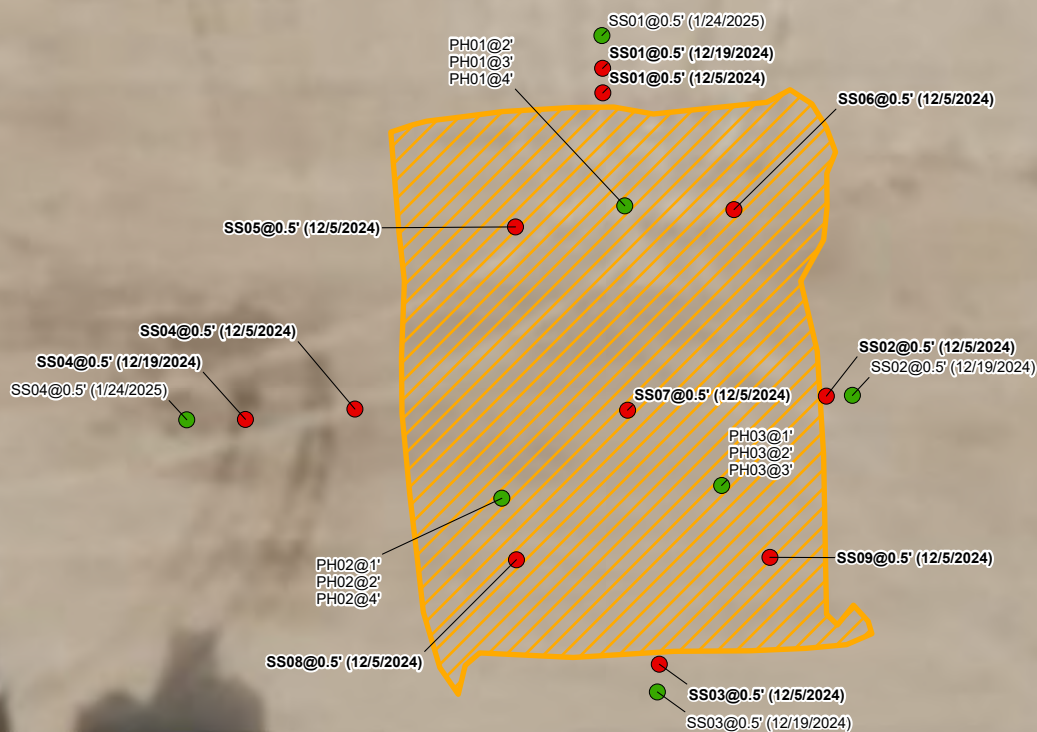
COG Operating, LLC
Atticus State Com #521H
Incident Number: NAPP2403637444
Unit N, Section 36, T 25S, R 27E
Eddy County, New Mexico

FIGURE

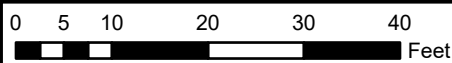
1

Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Delineation Soil Sample with Concentrations Exceeding Closure Criteria
- Release Extent



Notes:
Sample ID @ Depth Below Ground Surface.



Sources: Environmental Systems Research Institute (ESRI)



Delineation Soil Sample Locations

COG Operating, LLC
Atticus State Com #521H
Incident Number: NAPP2403637444
Unit N, Section 36, T 25S, R 27E
Eddy County, New Mexico

FIGURE
2



TABLES



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Atticus State Com #521H COG Operating, LLC Eddy County, New Mexico										
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Assessment Soil Samples										
SS01	12/05/2024	0.5	<0.00200	<0.00399	<49.9	1,340	<49.9	1,340	1,340	436
SS01	12/19/2024	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	617
SS01	01/24/2025	0.5	<0.00200	<0.00399	<49.8	76.6	<49.8	76.6	76.6	26.2
SS02	12/05/2024	0.5	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	922
SS02	12/19/2024	0.5	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	328
SS03	12/05/2024	0.5	<0.00201	<0.00402	<49.9	622	<49.9	622	622	777
SS03	12/19/2024	0.5	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	407
SS04	12/05/2024	0.5	<0.00200	<0.00399	<49.8	762	<49.8	762	762	858
SS04	12/19/2024	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	802
SS04	01/24/2025	0.5	<0.00202	<0.00404	<49.6	72.6	<49.6	72.6	72.6	32.1
SS05	12/05/2024	0.5	<0.00199	<0.00398	<50.0	928	<50.0	928	928	544
SS06	12/05/2024	0.5	<0.00202	<0.00404	<49.9	949	<49.9	949	949	698
SS07	12/05/2024	0.5	<0.00200	<0.00399	<49.8	277	<49.8	277	277	2,110
SS08	12/05/2024	0.5	<0.00201	<0.00402	<49.9	292	<49.9	292	292	3,070
SS09	12/05/2024	0.5	<0.00200	<0.00399	<49.7	727	<49.7	727	727	1,770
PH01	12/19/2024	2	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	253
PH01	12/19/2024	3	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	261
PH01	12/19/2024	4	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	106
PH02	12/19/2024	1	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	272
PH02	12/19/2024	2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	152
PH02	12/19/2024	4	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	36.8
PH03	12/19/2024	1	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	<49.8	282
PH03	12/19/2024	2	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	155
PH03	12/19/2024	3	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	126

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation standard where applicable.

* indicates sample was collected in area to be reclaimed after remediation is complete; reclamation standard in the top 4 feet is 600 mg/kg for chloride and 100 mg/kg for TPH.




APPENDIX A

Referenced Well Records

Point of Diversion Summary

quarters are 1=NW 2=NE 3=SW 4=SE
quarters are smallest to largest

NAD83 UTM in meters

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
NA	C 04371 POD1	SW	SW	SE	26	25S	27E	579368.8	3551272.6	

* UTM location was derived from PLSS - see Help

Driller License:	1456	Driller Company:	WHITE DRILLING COMPANY		
Driller Name:	WHITE, JOHNNOWN.GENER				
Drill Start Date:	2019-10-17	Drill Finish Date:	2019-10-17	Plug Date:	2019-10-17
Log File Date:	2019-11-04	PCW Rcv Date:		Source:	Shallow
Pump Type:		Pipe Discharge Size:		Estimated Yield:	
Casing Size:		Depth Well:	100	Depth Water:	69

Water Bearing Stratifications:

Top	Bottom	Description
5	100	Other/Unknown

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



APPENDIX B

Photographic Log



Photographic Log
 COG Operating, LLC
 Atticus State Com #521H
 Incident Number NAPP2403637444

Date & Time: Thu, Dec 05, 2024 at 12:26:00 MST
 Position: 33.093122°N, 106.163959°W (+103.50ft)
 Altitude: 3156ft (+127.0ft)
 Datum: NAD83
 Azimuth Bearing: 282.6552° Azimuth True (+11°)
 Elevation Angle: +0.7°
 Horizon Angle: +0.1°
 Zoom: 0.5X



Date & Time: Thu, Dec 05, 2024 at 12:26:00 MST
 Position: 33.093122°N, 106.163959°W (+103.50ft)
 Altitude: 3156ft (+127.0ft)
 Datum: NAD83
 Azimuth Bearing: 035.1452° Azimuth True (+11°)
 Elevation Angle: +0.7°
 Horizon Angle: +0.1°
 Zoom: 0.5X



Photograph: 1 Date: 12/5/2024
 Description: Initial assessment activities
 View: Southwest

Photograph: 2 Date: 12/5/2024
 Description: Initial assessment activities
 View: Northeast

Date & Time: Thu, Dec 19, 2024 at 15:39:05 MST
 Position: 33.093122°N, 106.163959°W (+103.50ft)
 Altitude: 3156ft (+127.0ft)
 Datum: NAD83
 Azimuth Bearing: 130.5502° Azimuth True (+11°)
 Elevation Angle: +0.7°
 Horizon Angle: +0.1°
 Zoom: 0.5X



Photograph: 3 Date: 12/19/2024
 Description: Delineation activities
 View: Southeast

Date & Time: Thu, Dec 19, 2024 at 15:39:05 MST
 Position: 33.093122°N, 106.163959°W (+103.50ft)
 Altitude: 3156ft (+127.0ft)
 Datum: NAD83
 Azimuth Bearing: 130.5502° Azimuth True (+11°)
 Elevation Angle: +0.7°
 Horizon Angle: +0.1°
 Zoom: 0.5X





Photograph: 4 Date: 12/19/2024
 Description: Delineation activities
 View: Southeast




APPENDIX C

Lithologic Soil Sampling Logs

								Sample Name: PH01		Date: 12/19/2024	
								Site Name: Atticus State Com #521H			
								Incident Number: NAPP2403637444			
								Job Number: 03D2024321			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: TG		Method: Backhoe	
Coordinates: 32.0795241, -104.1435910								Hole Diameter: 2'		Total Depth: 4'	
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			N			0	CCHE	CALICHE, white, large clasts, poorly graded, no stain, no odor.			
D	240.8	0.4	N			1	CCHE	CALICHE, same as above (SAA), more sand			
D	241	0.1	N	PH01	2	2	SP	SAND, red, some clasts, poorly graded, no stain, no odor.			
D	201	0.4	N	PH01	3	3	SP	SAND, SAA			
D	<168	0.1	N	PH01	4	4	SP	SAND, SAA, less clasts			
Total Depth @ 4 FEET BGS											

		Sample Name: PH02		Date: 12/19/2024				
		Site Name: Atticus State Com #521H						
		Incident Number: NAPP2403637444						
		Job Number: 03D2024321						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.0794401, -104.1436344			Logged By: TG		Method: Backhoe			
			Hole Diameter: 2'		Total Depth: 4'			
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			N			0	CCHE	CALICHE, white, large clasts, poorly graded, no stain, no odor.
D	241	0.3	N	PH02	1	1	CCHE	CALICHE, same as above (SAA), more sand
D	<168	0.1	N	PH02	2	2	SP	SAND, red, some clasts, poorly graded, no stain, no odor.
D	<168	0.3	N			3	SP	SAND, SAA
D	<168	0.1	N	PH02	4	4	SP	SAND, SAA, less clasts
Total Depth @ 4 FEET BGS								

		Sample Name: PH03		Date: 12/19/2024				
		Site Name: Atticus State Com #521H						
		Incident Number: NAPP2403637444						
		Job Number: 03D2024321						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.0794444, -104.1435606				Logged By: TG		Method: Backhoe		
				Hole Diameter: 2'		Total Depth: 3'		
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			N			0	CCHE	CALICHE, white, large clasts, poorly graded, no stain, no odor.
D	280	0.1	N	PH03	1	1	CCHE	CALICHE, same as above (SAA), more sand
D	<168	0.2	N	PH03	2	2	SP	SAND, red, some clasts, poorly graded, no stain, no odor.
D	<168	0.3	N	PH03	3	3	SP	SAND, SAA
Total Depth @ 3 FEET BGS								



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



Environment Testing

1

2

3

4

5

6

7

8

9

10

11

12

13

ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green

Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

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JOB DESCRIPTION

Atticus State Com #54

Eddy County

JOB NUMBER

880-51849-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization



Generated
12/6/2024 2:58:55 PM

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

Client: Ensolum
Project/Site: Atticus State Com #54

Laboratory Job ID: 880-51849-1
SDG: Eddy County

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Definitions/Glossary

Client: Ensolum
Project/Site: Atticus State Com #54

Job ID: 880-51849-1
SDG: Eddy County

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum
Project: Atticus State Com #54

Job ID: 880-51849-1

Job ID: 880-51849-1

Eurofins Midland

Job Narrative 880-51849-1

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

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

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

Receipt

The samples were received on 12/5/2024 4:56 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS01 (880-51849-1), SS02 (880-51849-2), SS03 (880-51849-3), SS04 (880-51849-4), SS05 (880-51849-5), SS06 (880-51849-6), SS07 (880-51849-7), SS08 (880-51849-8) and SS09 (880-51849-9).

GC VOA

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 matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-97199 and analytical batch 880-97226 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-97215 and analytical batch 880-97228 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

HPLC/IC

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-97201 and analytical batch 880-97213 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

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Client Sample Results

Client: Ensolum
Project/Site: Atticus State Com #54

Job ID: 880-51849-1
SDG: Eddy County

Client Sample ID: SS01

Lab Sample ID: 880-51849-1

Date Collected: 12/05/24 11:12

Matrix: Solid

Date Received: 12/05/24 16:56

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/06/24 08:10	12/06/24 11:55	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/06/24 08:10	12/06/24 11:55	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/06/24 08:10	12/06/24 11:55	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		12/06/24 08:10	12/06/24 11:55	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/06/24 08:10	12/06/24 11:55	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/06/24 08:10	12/06/24 11:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	12/06/24 08:10	12/06/24 11:55	1
1,4-Difluorobenzene (Surr)	97		70 - 130	12/06/24 08:10	12/06/24 11:55	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			12/06/24 11:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1340		49.9	mg/Kg			12/06/24 09:54	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/05/24 16:25	12/06/24 09:54	1
Diesel Range Organics (Over C10-C28)	1340	F1	49.9	mg/Kg		12/05/24 16:25	12/06/24 09:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/05/24 16:25	12/06/24 09:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130	12/05/24 16:25	12/06/24 09:54	1
o-Terphenyl	86		70 - 130	12/05/24 16:25	12/06/24 09:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	436		10.0	mg/Kg			12/06/24 09:42	1

Client Sample ID: SS02

Lab Sample ID: 880-51849-2

Date Collected: 12/05/24 11:16

Matrix: Solid

Date Received: 12/05/24 16:56

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		12/06/24 08:10	12/06/24 12:16	1
Toluene	<0.00202	U	0.00202	mg/Kg		12/06/24 08:10	12/06/24 12:16	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		12/06/24 08:10	12/06/24 12:16	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		12/06/24 08:10	12/06/24 12:16	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		12/06/24 08:10	12/06/24 12:16	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		12/06/24 08:10	12/06/24 12:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	12/06/24 08:10	12/06/24 12:16	1
1,4-Difluorobenzene (Surr)	94		70 - 130	12/06/24 08:10	12/06/24 12:16	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Atticus State Com #54

Job ID: 880-51849-1
SDG: Eddy County

Client Sample ID: SS02

Lab Sample ID: 880-51849-2

Date Collected: 12/05/24 11:16

Matrix: Solid

Date Received: 12/05/24 16:56

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			12/06/24 12:16	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/06/24 10:41	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/05/24 16:25	12/06/24 10:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/05/24 16:25	12/06/24 10:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/05/24 16:25	12/06/24 10:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130			12/05/24 16:25	12/06/24 10:41	1
o-Terphenyl	86		70 - 130			12/05/24 16:25	12/06/24 10:41	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	922		10.1	mg/Kg			12/06/24 09:47	1

Client Sample ID: SS03

Lab Sample ID: 880-51849-3

Date Collected: 12/05/24 11:20

Matrix: Solid

Date Received: 12/05/24 16:56

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		12/06/24 08:10	12/06/24 12:36	1
Toluene	<0.00201	U	0.00201	mg/Kg		12/06/24 08:10	12/06/24 12:36	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		12/06/24 08:10	12/06/24 12:36	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		12/06/24 08:10	12/06/24 12:36	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		12/06/24 08:10	12/06/24 12:36	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		12/06/24 08:10	12/06/24 12:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130			12/06/24 08:10	12/06/24 12:36	1
1,4-Difluorobenzene (Surr)	94		70 - 130			12/06/24 08:10	12/06/24 12:36	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			12/06/24 12:36	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	622		49.9	mg/Kg			12/06/24 10:58	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/05/24 16:25	12/06/24 10:58	1
Diesel Range Organics (Over C10-C28)	622		49.9	mg/Kg		12/05/24 16:25	12/06/24 10:58	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Atticus State Com #54

Job ID: 880-51849-1
SDG: Eddy County

Client Sample ID: SS03

Lab Sample ID: 880-51849-3

Date Collected: 12/05/24 11:20

Matrix: Solid

Date Received: 12/05/24 16:56

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/05/24 16:25	12/06/24 10:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130			12/05/24 16:25	12/06/24 10:58	1
o-Terphenyl	84		70 - 130			12/05/24 16:25	12/06/24 10:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	777		10.1	mg/Kg			12/06/24 10:03	1

Client Sample ID: SS04

Lab Sample ID: 880-51849-4

Date Collected: 12/05/24 11:24

Matrix: Solid

Date Received: 12/05/24 16:56

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/06/24 08:10	12/06/24 12:57	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/06/24 08:10	12/06/24 12:57	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/06/24 08:10	12/06/24 12:57	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		12/06/24 08:10	12/06/24 12:57	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/06/24 08:10	12/06/24 12:57	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/06/24 08:10	12/06/24 12:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130			12/06/24 08:10	12/06/24 12:57	1
1,4-Difluorobenzene (Surr)	96		70 - 130			12/06/24 08:10	12/06/24 12:57	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			12/06/24 12:57	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	762		49.8	mg/Kg			12/06/24 11:14	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		12/05/24 16:25	12/06/24 11:14	1
Diesel Range Organics (Over C10-C28)	762		49.8	mg/Kg		12/05/24 16:25	12/06/24 11:14	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		12/05/24 16:25	12/06/24 11:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130			12/05/24 16:25	12/06/24 11:14	1
o-Terphenyl	87		70 - 130			12/05/24 16:25	12/06/24 11:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	858		9.96	mg/Kg			12/06/24 10:08	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Atticus State Com #54

Job ID: 880-51849-1
SDG: Eddy County

Client Sample ID: SS05

Lab Sample ID: 880-51849-5

Date Collected: 12/05/24 11:28

Matrix: Solid

Date Received: 12/05/24 16:56

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/06/24 08:10	12/06/24 13:17	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/06/24 08:10	12/06/24 13:17	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/06/24 08:10	12/06/24 13:17	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		12/06/24 08:10	12/06/24 13:17	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/06/24 08:10	12/06/24 13:17	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/06/24 08:10	12/06/24 13:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	12/06/24 08:10	12/06/24 13:17	1
1,4-Difluorobenzene (Surr)	95		70 - 130	12/06/24 08:10	12/06/24 13:17	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/06/24 13:17	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	928		50.0	mg/Kg			12/06/24 09:54	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/06/24 08:21	12/06/24 09:54	1
Diesel Range Organics (Over C10-C28)	928	F1 F2	50.0	mg/Kg		12/06/24 08:21	12/06/24 09:54	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/06/24 08:21	12/06/24 09:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130			12/06/24 08:21	12/06/24 09:54	1
o-Terphenyl	101		70 - 130			12/06/24 08:21	12/06/24 09:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	544		9.92	mg/Kg			12/06/24 10:14	1

Client Sample ID: SS06

Lab Sample ID: 880-51849-6

Date Collected: 12/05/24 11:31

Matrix: Solid

Date Received: 12/05/24 16:56

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		12/06/24 08:10	12/06/24 13:38	1
Toluene	<0.00202	U	0.00202	mg/Kg		12/06/24 08:10	12/06/24 13:38	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		12/06/24 08:10	12/06/24 13:38	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		12/06/24 08:10	12/06/24 13:38	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		12/06/24 08:10	12/06/24 13:38	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		12/06/24 08:10	12/06/24 13:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	12/06/24 08:10	12/06/24 13:38	1
1,4-Difluorobenzene (Surr)	95		70 - 130	12/06/24 08:10	12/06/24 13:38	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Atticus State Com #54

Job ID: 880-51849-1
SDG: Eddy County

Client Sample ID: SS06

Lab Sample ID: 880-51849-6

Date Collected: 12/05/24 11:31

Matrix: Solid

Date Received: 12/05/24 16:56

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			12/06/24 13:38	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	949		49.9	mg/Kg			12/06/24 10:41	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/06/24 08:21	12/06/24 10:41	1
Diesel Range Organics (Over C10-C28)	949		49.9	mg/Kg		12/06/24 08:21	12/06/24 10:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/06/24 08:21	12/06/24 10:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130			12/06/24 08:21	12/06/24 10:41	1
o-Terphenyl	101		70 - 130			12/06/24 08:21	12/06/24 10:41	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	698		10.0	mg/Kg			12/06/24 10:19	1

Client Sample ID: SS07

Lab Sample ID: 880-51849-7

Date Collected: 12/05/24 11:36

Matrix: Solid

Date Received: 12/05/24 16:56

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/06/24 08:10	12/06/24 13:58	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/06/24 08:10	12/06/24 13:58	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/06/24 08:10	12/06/24 13:58	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		12/06/24 08:10	12/06/24 13:58	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/06/24 08:10	12/06/24 13:58	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/06/24 08:10	12/06/24 13:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130			12/06/24 08:10	12/06/24 13:58	1
1,4-Difluorobenzene (Surr)	94		70 - 130			12/06/24 08:10	12/06/24 13:58	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			12/06/24 13:58	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	277		49.8	mg/Kg			12/06/24 10:58	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		12/06/24 08:21	12/06/24 10:58	1
Diesel Range Organics (Over C10-C28)	277		49.8	mg/Kg		12/06/24 08:21	12/06/24 10:58	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Atticus State Com #54

Job ID: 880-51849-1
SDG: Eddy County

Client Sample ID: SS07

Lab Sample ID: 880-51849-7

Date Collected: 12/05/24 11:36

Matrix: Solid

Date Received: 12/05/24 16:56

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		12/06/24 08:21	12/06/24 10:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130			12/06/24 08:21	12/06/24 10:58	1
o-Terphenyl	95		70 - 130			12/06/24 08:21	12/06/24 10:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2110		99.2	mg/Kg			12/06/24 10:24	10

Client Sample ID: SS08

Lab Sample ID: 880-51849-8

Date Collected: 12/05/24 11:40

Matrix: Solid

Date Received: 12/05/24 16:56

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		12/06/24 08:10	12/06/24 14:18	1
Toluene	<0.00201	U	0.00201	mg/Kg		12/06/24 08:10	12/06/24 14:18	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		12/06/24 08:10	12/06/24 14:18	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		12/06/24 08:10	12/06/24 14:18	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		12/06/24 08:10	12/06/24 14:18	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		12/06/24 08:10	12/06/24 14:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130			12/06/24 08:10	12/06/24 14:18	1
1,4-Difluorobenzene (Surr)	96		70 - 130			12/06/24 08:10	12/06/24 14:18	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			12/06/24 14:18	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	292		49.9	mg/Kg			12/06/24 11:14	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/06/24 08:21	12/06/24 11:14	1
Diesel Range Organics (Over C10-C28)	292		49.9	mg/Kg		12/06/24 08:21	12/06/24 11:14	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/06/24 08:21	12/06/24 11:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130			12/06/24 08:21	12/06/24 11:14	1
o-Terphenyl	96		70 - 130			12/06/24 08:21	12/06/24 11:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3070	F1	101	mg/Kg			12/06/24 10:29	10

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Client Sample Results

Client: Ensolum
Project/Site: Atticus State Com #54

Job ID: 880-51849-1
SDG: Eddy County

Client Sample ID: SS09

Lab Sample ID: 880-51849-9

Date Collected: 12/05/24 11:44

Matrix: Solid

Date Received: 12/05/24 16:56

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/06/24 08:10	12/06/24 14:39	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/06/24 08:10	12/06/24 14:39	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/06/24 08:10	12/06/24 14:39	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		12/06/24 08:10	12/06/24 14:39	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/06/24 08:10	12/06/24 14:39	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/06/24 08:10	12/06/24 14:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	12/06/24 08:10	12/06/24 14:39	1
1,4-Difluorobenzene (Surr)	95		70 - 130	12/06/24 08:10	12/06/24 14:39	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			12/06/24 14:39	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	727		49.7	mg/Kg			12/06/24 11:31	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		12/06/24 08:21	12/06/24 11:31	1
Diesel Range Organics (Over C10-C28)	727		49.7	mg/Kg		12/06/24 08:21	12/06/24 11:31	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		12/06/24 08:21	12/06/24 11:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	12/06/24 08:21	12/06/24 11:31	1
o-Terphenyl	97		70 - 130	12/06/24 08:21	12/06/24 11:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1770		101	mg/Kg			12/06/24 10:45	10

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Surrogate Summary

Client: Ensolum
Project/Site: Atticus State Com #54

Job ID: 880-51849-1
SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	BFB1	DFBZ1				
		(70-130)	(70-130)				
880-51849-1	SS01	116	97				
880-51849-1 MS	SS01	107	97				
880-51849-1 MSD	SS01	109	98				
880-51849-2	SS02	120	94				
880-51849-3	SS03	116	94				
880-51849-4	SS04	125	96				
880-51849-5	SS05	120	95				
880-51849-6	SS06	118	95				
880-51849-7	SS07	110	94				
880-51849-8	SS08	120	96				
880-51849-9	SS09	119	95				
LCS 880-97212/1-A	Lab Control Sample	102	97				
LCSD 880-97212/2-A	Lab Control Sample Dup	99	98				
MB 880-97212/5-A	Method Blank	115	88				
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)				
880-51849-1	SS01	94	86				
880-51849-1 MS	SS01	97	85				
880-51849-1 MSD	SS01	98	84				
880-51849-2	SS02	108	86				
880-51849-3	SS03	100	84				
880-51849-4	SS04	104	87				
880-51849-5	SS05	104	101				
880-51849-5 MS	SS05	106	100				
880-51849-5 MSD	SS05	105	99				
880-51849-6	SS06	108	101				
880-51849-7	SS07	104	95				
880-51849-8	SS08	106	96				
880-51849-9	SS09	101	97				
LCS 880-97199/2-A	Lab Control Sample	114	102				
LCS 880-97215/2-A	Lab Control Sample	98	98				
LCSD 880-97199/3-A	Lab Control Sample Dup	106	97				
LCSD 880-97215/3-A	Lab Control Sample Dup	107	110				
MB 880-97199/1-A	Method Blank	96	77				
MB 880-97215/1-A	Method Blank	104	98				
Surrogate Legend							
1CO = 1-Chlorooctane							
OTPH = o-Terphenyl							

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QC Sample Results

Client: Ensolum
Project/Site: Atticus State Com #54

Job ID: 880-51849-1
SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-97212/5-A

Matrix: Solid

Analysis Batch: 97229

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 97212

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/06/24 08:10	12/06/24 11:34	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/06/24 08:10	12/06/24 11:34	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/06/24 08:10	12/06/24 11:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/06/24 08:10	12/06/24 11:34	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/06/24 08:10	12/06/24 11:34	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/06/24 08:10	12/06/24 11:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	12/06/24 08:10	12/06/24 11:34	1
1,4-Difluorobenzene (Surr)	88		70 - 130	12/06/24 08:10	12/06/24 11:34	1

Lab Sample ID: LCS 880-97212/1-A

Matrix: Solid

Analysis Batch: 97229

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 97212

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1054		mg/Kg		105	70 - 130
Toluene	0.100	0.1021		mg/Kg		102	70 - 130
Ethylbenzene	0.100	0.1064		mg/Kg		106	70 - 130
m-Xylene & p-Xylene	0.200	0.2135		mg/Kg		107	70 - 130
o-Xylene	0.100	0.1101		mg/Kg		110	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: LCSD 880-97212/2-A

Matrix: Solid

Analysis Batch: 97229

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 97212

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1101		mg/Kg		110	70 - 130	4	35
Toluene	0.100	0.1059		mg/Kg		106	70 - 130	4	35
Ethylbenzene	0.100	0.1104		mg/Kg		110	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.2209		mg/Kg		110	70 - 130	3	35
o-Xylene	0.100	0.1138		mg/Kg		114	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 880-51849-1 MS

Matrix: Solid

Analysis Batch: 97229

Client Sample ID: SS01

Prep Type: Total/NA

Prep Batch: 97212

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.08554		mg/Kg		86	70 - 130
Toluene	<0.00200	U	0.100	0.08240		mg/Kg		82	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Atticus State Com #54

Job ID: 880-51849-1
SDG: Eddy County

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

Lab Sample ID: 880-51849-1 MS

Matrix: Solid

Analysis Batch: 97229

Client Sample ID: SS01

Prep Type: Total/NA

Prep Batch: 97212

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.08598		mg/Kg		86	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1703		mg/Kg		85	70 - 130
o-Xylene	<0.00200	U	0.100	0.08838		mg/Kg		88	70 - 130

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

Lab Sample ID: 880-51849-1 MSD

Matrix: Solid

Analysis Batch: 97229

Client Sample ID: SS01

Prep Type: Total/NA

Prep Batch: 97212

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.08935		mg/Kg		89	70 - 130	4	35
Toluene	<0.00200	U	0.100	0.08873		mg/Kg		89	70 - 130	7	35
Ethylbenzene	<0.00200	U	0.100	0.08937		mg/Kg		89	70 - 130	4	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1776		mg/Kg		89	70 - 130	4	35
o-Xylene	<0.00200	U	0.100	0.09097		mg/Kg		91	70 - 130	3	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

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

Lab Sample ID: MB 880-97199/1-A

Matrix: Solid

Analysis Batch: 97226

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 97199

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/05/24 16:25	12/06/24 04:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/05/24 16:25	12/06/24 04:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/05/24 16:25	12/06/24 04:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	12/05/24 16:25	12/06/24 04:08	1
o-Terphenyl	77		70 - 130	12/05/24 16:25	12/06/24 04:08	1

Lab Sample ID: LCS 880-97199/2-A

Matrix: Solid

Analysis Batch: 97226

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 97199

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1139		mg/Kg		114	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1012		mg/Kg		101	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Atticus State Com #54

Job ID: 880-51849-1
SDG: Eddy County

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

Lab Sample ID: LCS 880-97199/2-A

Matrix: Solid

Analysis Batch: 97226

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 97199

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	114		70 - 130
o-Terphenyl	102		70 - 130

Lab Sample ID: LCSD 880-97199/3-A

Matrix: Solid

Analysis Batch: 97226

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 97199

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1120		mg/Kg		112	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	955.0		mg/Kg		95	70 - 130	6	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	97		70 - 130

Lab Sample ID: 880-51849-1 MS

Matrix: Solid

Analysis Batch: 97226

Client Sample ID: SS01

Prep Type: Total/NA

Prep Batch: 97199

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	864.9		mg/Kg		87	70 - 130
Diesel Range Organics (Over C10-C28)	1340	F1	996	797.7	F1	mg/Kg		-54	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	85		70 - 130

Lab Sample ID: 880-51849-1 MSD

Matrix: Solid

Analysis Batch: 97226

Client Sample ID: SS01

Prep Type: Total/NA

Prep Batch: 97199

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	878.3		mg/Kg		88	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1340	F1	996	811.7	F1	mg/Kg		-53	70 - 130	2	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenyl	84		70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Atticus State Com #54

Job ID: 880-51849-1
SDG: Eddy County

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

Lab Sample ID: MB 880-97215/1-A

Matrix: Solid

Analysis Batch: 97228

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 97215

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/06/24 08:20	12/06/24 04:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/06/24 08:20	12/06/24 04:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/06/24 08:20	12/06/24 04:08	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130			12/06/24 08:20	12/06/24 04:08	1
o-Terphenyl	98		70 - 130			12/06/24 08:20	12/06/24 04:08	1

Lab Sample ID: LCS 880-97215/2-A

Matrix: Solid

Analysis Batch: 97228

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 97215

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	927.5		mg/Kg		93	70 - 130
Diesel Range Organics (Over C10-C28)	1000	900.8		mg/Kg		90	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	98		70 - 130				
o-Terphenyl	98		70 - 130				

Lab Sample ID: LCSD 880-97215/3-A

Matrix: Solid

Analysis Batch: 97228

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 97215

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1095		mg/Kg		109	70 - 130	17	20
Diesel Range Organics (Over C10-C28)	1000	1004		mg/Kg		100	70 - 130	11	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	107		70 - 130						
o-Terphenyl	110		70 - 130						

Lab Sample ID: 880-51849-5 MS

Matrix: Solid

Analysis Batch: 97228

Client Sample ID: SS05

Prep Type: Total/NA

Prep Batch: 97215

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	899.8		mg/Kg		90	70 - 130
Diesel Range Organics (Over C10-C28)	928	F1 F2	999	1567	F1	mg/Kg		64	70 - 130

Eurofins Midland

QC Sample Results

Client: Ensolum
Project/Site: Atticus State Com #54

Job ID: 880-51849-1
SDG: Eddy County

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

Lab Sample ID: 880-51849-5 MS

Matrix: Solid

Analysis Batch: 97228

Client Sample ID: SS05

Prep Type: Total/NA

Prep Batch: 97215

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	100		70 - 130

Lab Sample ID: 880-51849-5 MSD

Matrix: Solid

Analysis Batch: 97228

Client Sample ID: SS05

Prep Type: Total/NA

Prep Batch: 97215

	Sample	Sample	Spike	MSD	MSD				%Rec	RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	891.5		mg/Kg		89	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	928	F1 F2	999	852.2	F1 F2	mg/Kg		-8	70 - 130	59	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	105		70 - 130								
o-Terphenyl	99		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-97201/1-A

Matrix: Solid

Analysis Batch: 97213

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	<10.0	U	10.0	mg/Kg			12/06/24 09:00	1		

Lab Sample ID: LCS 880-97201/2-A

Matrix: Solid

Analysis Batch: 97213

Client Sample ID: Lab Control Sample

Prep Type: Soluble

	Spike	LCS	LCS				%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	250	238.9		mg/Kg		96	90 - 110		

Lab Sample ID: LCSD 880-97201/3-A

Matrix: Solid

Analysis Batch: 97213

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

	Spike	LCSD	LCSD				%Rec	RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	239.0		mg/Kg		96	90 - 110	0	20

Lab Sample ID: 880-51849-8 MS

Matrix: Solid

Analysis Batch: 97213

Client Sample ID: SS08

Prep Type: Soluble

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	3070	F1	2520	5137	F1	mg/Kg		82	90 - 110	

Eurofins Midland

QC Sample Results

Client: Ensolum
Project/Site: Atticus State Com #54

Job ID: 880-51849-1
SDG: Eddy County

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-51849-8 MSD							Client Sample ID: SS08					
Matrix: Solid							Prep Type: Soluble					
Analysis Batch: 97213												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	3070	F1	2520	5150	F1	mg/Kg		82	90 - 110	0	20	

QC Association Summary

Client: Ensolum
Project/Site: Atticus State Com #54

Job ID: 880-51849-1
SDG: Eddy County

GC VOA

Prep Batch: 97212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51849-1	SS01	Total/NA	Solid	5035	
880-51849-2	SS02	Total/NA	Solid	5035	
880-51849-3	SS03	Total/NA	Solid	5035	
880-51849-4	SS04	Total/NA	Solid	5035	
880-51849-5	SS05	Total/NA	Solid	5035	
880-51849-6	SS06	Total/NA	Solid	5035	
880-51849-7	SS07	Total/NA	Solid	5035	
880-51849-8	SS08	Total/NA	Solid	5035	
880-51849-9	SS09	Total/NA	Solid	5035	
MB 880-97212/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-97212/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-97212/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-51849-1 MS	SS01	Total/NA	Solid	5035	
880-51849-1 MSD	SS01	Total/NA	Solid	5035	

Analysis Batch: 97229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51849-1	SS01	Total/NA	Solid	8021B	97212
880-51849-2	SS02	Total/NA	Solid	8021B	97212
880-51849-3	SS03	Total/NA	Solid	8021B	97212
880-51849-4	SS04	Total/NA	Solid	8021B	97212
880-51849-5	SS05	Total/NA	Solid	8021B	97212
880-51849-6	SS06	Total/NA	Solid	8021B	97212
880-51849-7	SS07	Total/NA	Solid	8021B	97212
880-51849-8	SS08	Total/NA	Solid	8021B	97212
880-51849-9	SS09	Total/NA	Solid	8021B	97212
MB 880-97212/5-A	Method Blank	Total/NA	Solid	8021B	97212
LCS 880-97212/1-A	Lab Control Sample	Total/NA	Solid	8021B	97212
LCSD 880-97212/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	97212
880-51849-1 MS	SS01	Total/NA	Solid	8021B	97212
880-51849-1 MSD	SS01	Total/NA	Solid	8021B	97212

Analysis Batch: 97306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51849-1	SS01	Total/NA	Solid	Total BTEX	
880-51849-2	SS02	Total/NA	Solid	Total BTEX	
880-51849-3	SS03	Total/NA	Solid	Total BTEX	
880-51849-4	SS04	Total/NA	Solid	Total BTEX	
880-51849-5	SS05	Total/NA	Solid	Total BTEX	
880-51849-6	SS06	Total/NA	Solid	Total BTEX	
880-51849-7	SS07	Total/NA	Solid	Total BTEX	
880-51849-8	SS08	Total/NA	Solid	Total BTEX	
880-51849-9	SS09	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 97199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51849-1	SS01	Total/NA	Solid	8015NM Prep	
880-51849-2	SS02	Total/NA	Solid	8015NM Prep	
880-51849-3	SS03	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Ensolum
Project/Site: Atticus State Com #54

Job ID: 880-51849-1
SDG: Eddy County

GC Semi VOA (Continued)

Prep Batch: 97199 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51849-4	SS04	Total/NA	Solid	8015NM Prep	
MB 880-97199/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-97199/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-97199/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-51849-1 MS	SS01	Total/NA	Solid	8015NM Prep	
880-51849-1 MSD	SS01	Total/NA	Solid	8015NM Prep	

Prep Batch: 97215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51849-5	SS05	Total/NA	Solid	8015NM Prep	
880-51849-6	SS06	Total/NA	Solid	8015NM Prep	
880-51849-7	SS07	Total/NA	Solid	8015NM Prep	
880-51849-8	SS08	Total/NA	Solid	8015NM Prep	
880-51849-9	SS09	Total/NA	Solid	8015NM Prep	
MB 880-97215/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-97215/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-97215/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-51849-5 MS	SS05	Total/NA	Solid	8015NM Prep	
880-51849-5 MSD	SS05	Total/NA	Solid	8015NM Prep	

Analysis Batch: 97226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51849-1	SS01	Total/NA	Solid	8015B NM	97199
880-51849-2	SS02	Total/NA	Solid	8015B NM	97199
880-51849-3	SS03	Total/NA	Solid	8015B NM	97199
880-51849-4	SS04	Total/NA	Solid	8015B NM	97199
MB 880-97199/1-A	Method Blank	Total/NA	Solid	8015B NM	97199
LCS 880-97199/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	97199
LCSD 880-97199/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	97199
880-51849-1 MS	SS01	Total/NA	Solid	8015B NM	97199
880-51849-1 MSD	SS01	Total/NA	Solid	8015B NM	97199

Analysis Batch: 97228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51849-5	SS05	Total/NA	Solid	8015B NM	97215
880-51849-6	SS06	Total/NA	Solid	8015B NM	97215
880-51849-7	SS07	Total/NA	Solid	8015B NM	97215
880-51849-8	SS08	Total/NA	Solid	8015B NM	97215
880-51849-9	SS09	Total/NA	Solid	8015B NM	97215
MB 880-97215/1-A	Method Blank	Total/NA	Solid	8015B NM	97215
LCS 880-97215/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	97215
LCSD 880-97215/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	97215
880-51849-5 MS	SS05	Total/NA	Solid	8015B NM	97215
880-51849-5 MSD	SS05	Total/NA	Solid	8015B NM	97215

Analysis Batch: 97296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51849-1	SS01	Total/NA	Solid	8015 NM	
880-51849-2	SS02	Total/NA	Solid	8015 NM	
880-51849-3	SS03	Total/NA	Solid	8015 NM	
880-51849-4	SS04	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Ensolum
Project/Site: Atticus State Com #54

Job ID: 880-51849-1
SDG: Eddy County

GC Semi VOA (Continued)

Analysis Batch: 97296 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51849-5	SS05	Total/NA	Solid	8015 NM	
880-51849-6	SS06	Total/NA	Solid	8015 NM	
880-51849-7	SS07	Total/NA	Solid	8015 NM	
880-51849-8	SS08	Total/NA	Solid	8015 NM	
880-51849-9	SS09	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 97201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51849-1	SS01	Soluble	Solid	DI Leach	
880-51849-2	SS02	Soluble	Solid	DI Leach	
880-51849-3	SS03	Soluble	Solid	DI Leach	
880-51849-4	SS04	Soluble	Solid	DI Leach	
880-51849-5	SS05	Soluble	Solid	DI Leach	
880-51849-6	SS06	Soluble	Solid	DI Leach	
880-51849-7	SS07	Soluble	Solid	DI Leach	
880-51849-8	SS08	Soluble	Solid	DI Leach	
880-51849-9	SS09	Soluble	Solid	DI Leach	
MB 880-97201/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-97201/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-97201/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-51849-8 MS	SS08	Soluble	Solid	DI Leach	
880-51849-8 MSD	SS08	Soluble	Solid	DI Leach	

Analysis Batch: 97213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51849-1	SS01	Soluble	Solid	300.0	97201
880-51849-2	SS02	Soluble	Solid	300.0	97201
880-51849-3	SS03	Soluble	Solid	300.0	97201
880-51849-4	SS04	Soluble	Solid	300.0	97201
880-51849-5	SS05	Soluble	Solid	300.0	97201
880-51849-6	SS06	Soluble	Solid	300.0	97201
880-51849-7	SS07	Soluble	Solid	300.0	97201
880-51849-8	SS08	Soluble	Solid	300.0	97201
880-51849-9	SS09	Soluble	Solid	300.0	97201
MB 880-97201/1-A	Method Blank	Soluble	Solid	300.0	97201
LCS 880-97201/2-A	Lab Control Sample	Soluble	Solid	300.0	97201
LCSD 880-97201/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	97201
880-51849-8 MS	SS08	Soluble	Solid	300.0	97201
880-51849-8 MSD	SS08	Soluble	Solid	300.0	97201

Lab Chronicle

Client: Ensolum
Project/Site: Atticus State Com #54

Job ID: 880-51849-1
SDG: Eddy County

Client Sample ID: SS01

Lab Sample ID: 880-51849-1

Date Collected: 12/05/24 11:12

Matrix: Solid

Date Received: 12/05/24 16:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			97212	AA	EET MID	12/06/24 08:10
Total/NA	Analysis	8021B		1	97229	SM	EET MID	12/06/24 11:55
Total/NA	Analysis	Total BTEX		1	97306	SM	EET MID	12/06/24 11:55
Total/NA	Analysis	8015 NM		1	97296	SM	EET MID	12/06/24 09:54
Total/NA	Prep	8015NM Prep			97199	EL	EET MID	12/05/24 16:25
Total/NA	Analysis	8015B NM		1	97226	TKC	EET MID	12/06/24 09:54
Soluble	Leach	DI Leach			97201	SA	EET MID	12/05/24 17:03
Soluble	Analysis	300.0		1	97213	CH	EET MID	12/06/24 09:42

Client Sample ID: SS02

Lab Sample ID: 880-51849-2

Date Collected: 12/05/24 11:16

Matrix: Solid

Date Received: 12/05/24 16:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			97212	AA	EET MID	12/06/24 08:10
Total/NA	Analysis	8021B		1	97229	SM	EET MID	12/06/24 12:16
Total/NA	Analysis	Total BTEX		1	97306	SM	EET MID	12/06/24 12:16
Total/NA	Analysis	8015 NM		1	97296	SM	EET MID	12/06/24 10:41
Total/NA	Prep	8015NM Prep			97199	EL	EET MID	12/05/24 16:25
Total/NA	Analysis	8015B NM		1	97226	TKC	EET MID	12/06/24 10:41
Soluble	Leach	DI Leach			97201	SA	EET MID	12/05/24 17:03
Soluble	Analysis	300.0		1	97213	CH	EET MID	12/06/24 09:47

Client Sample ID: SS03

Lab Sample ID: 880-51849-3

Date Collected: 12/05/24 11:20

Matrix: Solid

Date Received: 12/05/24 16:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			97212	AA	EET MID	12/06/24 08:10
Total/NA	Analysis	8021B		1	97229	SM	EET MID	12/06/24 12:36
Total/NA	Analysis	Total BTEX		1	97306	SM	EET MID	12/06/24 12:36
Total/NA	Analysis	8015 NM		1	97296	SM	EET MID	12/06/24 10:58
Total/NA	Prep	8015NM Prep			97199	EL	EET MID	12/05/24 16:25
Total/NA	Analysis	8015B NM		1	97226	TKC	EET MID	12/06/24 10:58
Soluble	Leach	DI Leach			97201	SA	EET MID	12/05/24 17:03
Soluble	Analysis	300.0		1	97213	CH	EET MID	12/06/24 10:03

Client Sample ID: SS04

Lab Sample ID: 880-51849-4

Date Collected: 12/05/24 11:24

Matrix: Solid

Date Received: 12/05/24 16:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			97212	AA	EET MID	12/06/24 08:10
Total/NA	Analysis	8021B		1	97229	SM	EET MID	12/06/24 12:57
Total/NA	Analysis	Total BTEX		1	97306	SM	EET MID	12/06/24 12:57

Eurofins Midland

Lab Chronicle

Client: Ensolum
Project/Site: Atticus State Com #54

Job ID: 880-51849-1
SDG: Eddy County

Client Sample ID: SS04

Lab Sample ID: 880-51849-4

Date Collected: 12/05/24 11:24

Matrix: Solid

Date Received: 12/05/24 16:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	97296	SM	EET MID	12/06/24 11:14
Total/NA	Prep	8015NM Prep			97199	EL	EET MID	12/05/24 16:25
Total/NA	Analysis	8015B NM		1	97226	TKC	EET MID	12/06/24 11:14
Soluble	Leach	DI Leach			97201	SA	EET MID	12/05/24 17:03
Soluble	Analysis	300.0		1	97213	CH	EET MID	12/06/24 10:08

Client Sample ID: SS05

Lab Sample ID: 880-51849-5

Date Collected: 12/05/24 11:28

Matrix: Solid

Date Received: 12/05/24 16:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			97212	AA	EET MID	12/06/24 08:10
Total/NA	Analysis	8021B		1	97229	SM	EET MID	12/06/24 13:17
Total/NA	Analysis	Total BTEX		1	97306	SM	EET MID	12/06/24 13:17
Total/NA	Analysis	8015 NM		1	97296	SM	EET MID	12/06/24 09:54
Total/NA	Prep	8015NM Prep			97215	EL	EET MID	12/06/24 08:21
Total/NA	Analysis	8015B NM		1	97228	TKC	EET MID	12/06/24 09:54
Soluble	Leach	DI Leach			97201	SA	EET MID	12/05/24 17:03
Soluble	Analysis	300.0		1	97213	CH	EET MID	12/06/24 10:14

Client Sample ID: SS06

Lab Sample ID: 880-51849-6

Date Collected: 12/05/24 11:31

Matrix: Solid

Date Received: 12/05/24 16:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			97212	AA	EET MID	12/06/24 08:10
Total/NA	Analysis	8021B		1	97229	SM	EET MID	12/06/24 13:38
Total/NA	Analysis	Total BTEX		1	97306	SM	EET MID	12/06/24 13:38
Total/NA	Analysis	8015 NM		1	97296	SM	EET MID	12/06/24 10:41
Total/NA	Prep	8015NM Prep			97215	EL	EET MID	12/06/24 08:21
Total/NA	Analysis	8015B NM		1	97228	TKC	EET MID	12/06/24 10:41
Soluble	Leach	DI Leach			97201	SA	EET MID	12/05/24 17:03
Soluble	Analysis	300.0		1	97213	CH	EET MID	12/06/24 10:19

Client Sample ID: SS07

Lab Sample ID: 880-51849-7

Date Collected: 12/05/24 11:36

Matrix: Solid

Date Received: 12/05/24 16:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			97212	AA	EET MID	12/06/24 08:10
Total/NA	Analysis	8021B		1	97229	SM	EET MID	12/06/24 13:58
Total/NA	Analysis	Total BTEX		1	97306	SM	EET MID	12/06/24 13:58
Total/NA	Analysis	8015 NM		1	97296	SM	EET MID	12/06/24 10:58
Total/NA	Prep	8015NM Prep			97215	EL	EET MID	12/06/24 08:21
Total/NA	Analysis	8015B NM		1	97228	TKC	EET MID	12/06/24 10:58

Eurofins Midland

Lab Chronicle

Client: Ensolum
Project/Site: Atticus State Com #54

Job ID: 880-51849-1
SDG: Eddy County

Client Sample ID: SS07
Date Collected: 12/05/24 11:36
Date Received: 12/05/24 16:56

Lab Sample ID: 880-51849-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			97201	SA	EET MID	12/05/24 17:03
Soluble	Analysis	300.0		10	97213	CH	EET MID	12/06/24 10:24

Client Sample ID: SS08
Date Collected: 12/05/24 11:40
Date Received: 12/05/24 16:56

Lab Sample ID: 880-51849-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			97212	AA	EET MID	12/06/24 08:10
Total/NA	Analysis	8021B		1	97229	SM	EET MID	12/06/24 14:18
Total/NA	Analysis	Total BTEX		1	97306	SM	EET MID	12/06/24 14:18
Total/NA	Analysis	8015 NM		1	97296	SM	EET MID	12/06/24 11:14
Total/NA	Prep	8015NM Prep			97215	EL	EET MID	12/06/24 08:21
Total/NA	Analysis	8015B NM		1	97228	TKC	EET MID	12/06/24 11:14
Soluble	Leach	DI Leach			97201	SA	EET MID	12/05/24 17:03
Soluble	Analysis	300.0		10	97213	CH	EET MID	12/06/24 10:29

Client Sample ID: SS09
Date Collected: 12/05/24 11:44
Date Received: 12/05/24 16:56

Lab Sample ID: 880-51849-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			97212	AA	EET MID	12/06/24 08:10
Total/NA	Analysis	8021B		1	97229	SM	EET MID	12/06/24 14:39
Total/NA	Analysis	Total BTEX		1	97306	SM	EET MID	12/06/24 14:39
Total/NA	Analysis	8015 NM		1	97296	SM	EET MID	12/06/24 11:31
Total/NA	Prep	8015NM Prep			97215	EL	EET MID	12/06/24 08:21
Total/NA	Analysis	8015B NM		1	97228	TKC	EET MID	12/06/24 11:31
Soluble	Leach	DI Leach			97201	SA	EET MID	12/05/24 17:03
Soluble	Analysis	300.0		10	97213	CH	EET MID	12/06/24 10:45

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Atticus State Com #54

Job ID: 880-51849-1
SDG: Eddy County

Laboratory: Eurofins Midland

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

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

Method Summary

Client: Ensolum
Project/Site: Atticus State Com #54

Job ID: 880-51849-1
SDG: Eddy County

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: Atticus State Com #54

Job ID: 880-51849-1
SDG: Eddy County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-51849-1	SS01	Solid	12/05/24 11:12	12/05/24 16:56
880-51849-2	SS02	Solid	12/05/24 11:16	12/05/24 16:56
880-51849-3	SS03	Solid	12/05/24 11:20	12/05/24 16:56
880-51849-4	SS04	Solid	12/05/24 11:24	12/05/24 16:56
880-51849-5	SS05	Solid	12/05/24 11:28	12/05/24 16:56
880-51849-6	SS06	Solid	12/05/24 11:31	12/05/24 16:56
880-51849-7	SS07	Solid	12/05/24 11:36	12/05/24 16:56
880-51849-8	SS08	Solid	12/05/24 11:40	12/05/24 16:56
880-51849-9	SS09	Solid	12/05/24 11:44	12/05/24 16:56

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Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-51849-1

SDG Number: Eddy County

Login Number: 51849

List Number: 1

Creator: Vasquez, Julisa

List Source: Eurofins Midland

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: Hadlie Green
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701
Generated 1/2/2025 3:59:53 PM

JOB DESCRIPTION

Atticus State Com #521
Eddy County

JOB NUMBER

880-52521-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization



Generated
1/2/2025 3:59:53 PM

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

Client: Ensolum
Project/Site: Atticus State Com #521

Laboratory Job ID: 880-52521-1
SDG: Eddy County

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Definitions/Glossary

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum
Project: Atticus State Com #521

Job ID: 880-52521-1

Job ID: 880-52521-1

Eurofins Midland

Job Narrative
880-52521-1

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

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

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

Receipt

The samples were received on 12/19/2024 5:35 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -1.0°C.

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-98490 and analytical batch 880-98345 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Diesel Range Organics

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-98957 and analytical batch 880-99133 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: PH03 (880-52521-13), (LCS 880-98957/2-A), (LCSD 880-98957/3-A), (MB 880-98957/1-A), (880-52521-A-13-D MS) and (880-52521-A-13-E MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-98956 and analytical batch 880-99130 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

HPLC/IC

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-98552 and analytical batch 880-98577 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-98896 and analytical batch 880-98925 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

Client Sample ID: SS01

Lab Sample ID: 880-52521-1

Date Collected: 12/19/24 10:40

Matrix: Solid

Date Received: 12/19/24 17:35

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1	0.00199	mg/Kg		12/20/24 14:34	12/21/24 08:41	1
Toluene	<0.00199	U F1	0.00199	mg/Kg		12/20/24 14:34	12/21/24 08:41	1
Ethylbenzene	<0.00199	U F1	0.00199	mg/Kg		12/20/24 14:34	12/21/24 08:41	1
m-Xylene & p-Xylene	<0.00398	U F1	0.00398	mg/Kg		12/20/24 14:34	12/21/24 08:41	1
o-Xylene	<0.00199	U F1	0.00199	mg/Kg		12/20/24 14:34	12/21/24 08:41	1
Xylenes, Total	<0.00398	U F1	0.00398	mg/Kg		12/20/24 14:34	12/21/24 08:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	12/20/24 14:34	12/21/24 08:41	1
1,4-Difluorobenzene (Surr)	87		70 - 130	12/20/24 14:34	12/21/24 08:41	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/21/24 08:41	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/01/25 00:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/27/24 13:36	01/01/25 00:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/27/24 13:36	01/01/25 00:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/27/24 13:36	01/01/25 00:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130	12/27/24 13:36	01/01/25 00:15	1
o-Terphenyl	105		70 - 130	12/27/24 13:36	01/01/25 00:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	617		9.96	mg/Kg			12/24/24 18:01	1

Client Sample ID: SS02

Lab Sample ID: 880-52521-2

Date Collected: 12/19/24 10:15

Matrix: Solid

Date Received: 12/19/24 17:35

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		12/20/24 14:34	12/21/24 09:01	1
Toluene	<0.00202	U	0.00202	mg/Kg		12/20/24 14:34	12/21/24 09:01	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		12/20/24 14:34	12/21/24 09:01	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		12/20/24 14:34	12/21/24 09:01	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		12/20/24 14:34	12/21/24 09:01	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		12/20/24 14:34	12/21/24 09:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130	12/20/24 14:34	12/21/24 09:01	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

Client Sample ID: SS02

Lab Sample ID: 880-52521-2

Date Collected: 12/19/24 10:15

Matrix: Solid

Date Received: 12/19/24 17:35

Sample Depth: 0.5'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	92		70 - 130	12/20/24 14:34	12/21/24 09:01	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			12/21/24 09:01	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/01/25 00:36	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/27/24 13:36	01/01/25 00:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/27/24 13:36	01/01/25 00:36	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/27/24 13:36	01/01/25 00:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130			12/27/24 13:36	01/01/25 00:36	1
o-Terphenyl	112		70 - 130			12/27/24 13:36	01/01/25 00:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	328		10.0	mg/Kg			12/24/24 18:06	1

Client Sample ID: SS03

Lab Sample ID: 880-52521-3

Date Collected: 12/19/24 10:20

Matrix: Solid

Date Received: 12/19/24 17:35

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/20/24 14:34	12/21/24 09:21	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/20/24 14:34	12/21/24 09:21	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/20/24 14:34	12/21/24 09:21	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		12/20/24 14:34	12/21/24 09:21	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/20/24 14:34	12/21/24 09:21	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		12/20/24 14:34	12/21/24 09:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130	12/20/24 14:34	12/21/24 09:21	1
1,4-Difluorobenzene (Surr)	93		70 - 130	12/20/24 14:34	12/21/24 09:21	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			12/21/24 09:21	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/01/25 01:17	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

Client Sample ID: SS03

Lab Sample ID: 880-52521-3

Date Collected: 12/19/24 10:20

Matrix: Solid

Date Received: 12/19/24 17:35

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/27/24 13:36	01/01/25 01:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/27/24 13:36	01/01/25 01:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/27/24 13:36	01/01/25 01:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130			12/27/24 13:36	01/01/25 01:17	1
o-Terphenyl	118		70 - 130			12/27/24 13:36	01/01/25 01:17	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	407		9.98	mg/Kg			12/24/24 18:12	1

Client Sample ID: SS04

Lab Sample ID: 880-52521-4

Date Collected: 12/19/24 10:55

Matrix: Solid

Date Received: 12/19/24 17:35

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/20/24 14:34	12/21/24 09:42	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/20/24 14:34	12/21/24 09:42	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/20/24 14:34	12/21/24 09:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		12/20/24 14:34	12/21/24 09:42	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/20/24 14:34	12/21/24 09:42	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/20/24 14:34	12/21/24 09:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130			12/20/24 14:34	12/21/24 09:42	1
1,4-Difluorobenzene (Surr)	91		70 - 130			12/20/24 14:34	12/21/24 09:42	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/21/24 09:42	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/01/25 01:38	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/27/24 13:36	01/01/25 01:38	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/27/24 13:36	01/01/25 01:38	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/27/24 13:36	01/01/25 01:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130			12/27/24 13:36	01/01/25 01:38	1
o-Terphenyl	107		70 - 130			12/27/24 13:36	01/01/25 01:38	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

Client Sample ID: SS04

Lab Sample ID: 880-52521-4

Date Collected: 12/19/24 10:55

Matrix: Solid

Date Received: 12/19/24 17:35

Sample Depth: 0.5'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	802		50.0	mg/Kg			12/27/24 13:32	5

Client Sample ID: PH01

Lab Sample ID: 880-52521-5

Date Collected: 12/19/24 11:28

Matrix: Solid

Date Received: 12/19/24 17:35

Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/20/24 14:34	12/21/24 10:03	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/20/24 14:34	12/21/24 10:03	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/20/24 14:34	12/21/24 10:03	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		12/20/24 14:34	12/21/24 10:03	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/20/24 14:34	12/21/24 10:03	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/20/24 14:34	12/21/24 10:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130			12/20/24 14:34	12/21/24 10:03	1
1,4-Difluorobenzene (Surr)	94		70 - 130			12/20/24 14:34	12/21/24 10:03	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			12/21/24 10:03	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			01/01/25 01:58	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		12/27/24 13:36	01/01/25 01:58	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		12/27/24 13:36	01/01/25 01:58	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		12/27/24 13:36	01/01/25 01:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130			12/27/24 13:36	01/01/25 01:58	1
o-Terphenyl	107		70 - 130			12/27/24 13:36	01/01/25 01:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	253		9.94	mg/Kg			12/24/24 18:18	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

Client Sample ID: PH01

Lab Sample ID: 880-52521-6

Date Collected: 12/19/24 11:42

Matrix: Solid

Date Received: 12/19/24 17:35

Sample Depth: 3'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		12/20/24 14:34	12/21/24 10:23	1
Toluene	<0.00202	U	0.00202	mg/Kg		12/20/24 14:34	12/21/24 10:23	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		12/20/24 14:34	12/21/24 10:23	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		12/20/24 14:34	12/21/24 10:23	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		12/20/24 14:34	12/21/24 10:23	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		12/20/24 14:34	12/21/24 10:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	12/20/24 14:34	12/21/24 10:23	1
1,4-Difluorobenzene (Surr)	94		70 - 130	12/20/24 14:34	12/21/24 10:23	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			12/21/24 10:23	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/01/25 02:18	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/27/24 13:36	01/01/25 02:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/27/24 13:36	01/01/25 02:18	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/27/24 13:36	01/01/25 02:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	12/27/24 13:36	01/01/25 02:18	1
o-Terphenyl	103		70 - 130	12/27/24 13:36	01/01/25 02:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	261		10.0	mg/Kg			12/24/24 18:24	1

Client Sample ID: PH01

Lab Sample ID: 880-52521-7

Date Collected: 12/19/24 11:46

Matrix: Solid

Date Received: 12/19/24 17:35

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		12/20/24 14:34	12/21/24 10:44	1
Toluene	<0.00201	U	0.00201	mg/Kg		12/20/24 14:34	12/21/24 10:44	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		12/20/24 14:34	12/21/24 10:44	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		12/20/24 14:34	12/21/24 10:44	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		12/20/24 14:34	12/21/24 10:44	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		12/20/24 14:34	12/21/24 10:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130	12/20/24 14:34	12/21/24 10:44	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

Client Sample ID: PH01

Lab Sample ID: 880-52521-7

Date Collected: 12/19/24 11:46

Matrix: Solid

Date Received: 12/19/24 17:35

Sample Depth: 4'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	90		70 - 130	12/20/24 14:34	12/21/24 10:44	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			12/21/24 10:44	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/01/25 02:38	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/27/24 13:36	01/01/25 02:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/27/24 13:36	01/01/25 02:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/27/24 13:36	01/01/25 02:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130			12/27/24 13:36	01/01/25 02:38	1
o-Terphenyl	104		70 - 130			12/27/24 13:36	01/01/25 02:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	106		9.92	mg/Kg			12/24/24 18:30	1

Client Sample ID: PH02

Lab Sample ID: 880-52521-8

Date Collected: 12/19/24 12:00

Matrix: Solid

Date Received: 12/19/24 17:35

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/20/24 14:34	12/21/24 11:04	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/20/24 14:34	12/21/24 11:04	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/20/24 14:34	12/21/24 11:04	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		12/20/24 14:34	12/21/24 11:04	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/20/24 14:34	12/21/24 11:04	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		12/20/24 14:34	12/21/24 11:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	12/20/24 14:34	12/21/24 11:04	1
1,4-Difluorobenzene (Surr)	96		70 - 130	12/20/24 14:34	12/21/24 11:04	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			12/21/24 11:04	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/01/25 02:59	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

Client Sample ID: PH02

Lab Sample ID: 880-52521-8

Date Collected: 12/19/24 12:00

Matrix: Solid

Date Received: 12/19/24 17:35

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/27/24 13:36	01/01/25 02:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/27/24 13:36	01/01/25 02:59	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/27/24 13:36	01/01/25 02:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130			12/27/24 13:36	01/01/25 02:59	1
o-Terphenyl	100		70 - 130			12/27/24 13:36	01/01/25 02:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	272	F1	10.0	mg/Kg			12/23/24 13:23	1

Client Sample ID: PH02

Lab Sample ID: 880-52521-9

Date Collected: 12/19/24 12:05

Matrix: Solid

Date Received: 12/19/24 17:35

Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/20/24 14:34	12/21/24 11:25	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/20/24 14:34	12/21/24 11:25	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/20/24 14:34	12/21/24 11:25	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		12/20/24 14:34	12/21/24 11:25	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/20/24 14:34	12/21/24 11:25	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/20/24 14:34	12/21/24 11:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130			12/20/24 14:34	12/21/24 11:25	1
1,4-Difluorobenzene (Surr)	93		70 - 130			12/20/24 14:34	12/21/24 11:25	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/21/24 11:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/01/25 03:20	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/27/24 13:36	01/01/25 03:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/27/24 13:36	01/01/25 03:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/27/24 13:36	01/01/25 03:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130			12/27/24 13:36	01/01/25 03:20	1
o-Terphenyl	111		70 - 130			12/27/24 13:36	01/01/25 03:20	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

Client Sample ID: PH02

Lab Sample ID: 880-52521-9

Date Collected: 12/19/24 12:05

Matrix: Solid

Date Received: 12/19/24 17:35

Sample Depth: 2'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	152		9.96	mg/Kg			12/23/24 13:44	1

Client Sample ID: PH02

Lab Sample ID: 880-52521-10

Date Collected: 12/19/24 12:10

Matrix: Solid

Date Received: 12/19/24 17:35

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/20/24 14:34	12/21/24 11:46	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/20/24 14:34	12/21/24 11:46	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/20/24 14:34	12/21/24 11:46	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		12/20/24 14:34	12/21/24 11:46	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/20/24 14:34	12/21/24 11:46	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/20/24 14:34	12/21/24 11:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130			12/20/24 14:34	12/21/24 11:46	1
1,4-Difluorobenzene (Surr)	90		70 - 130			12/20/24 14:34	12/21/24 11:46	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			12/21/24 11:46	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/01/25 03:40	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/27/24 13:36	01/01/25 03:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/27/24 13:36	01/01/25 03:40	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/27/24 13:36	01/01/25 03:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130			12/27/24 13:36	01/01/25 03:40	1
o-Terphenyl	104		70 - 130			12/27/24 13:36	01/01/25 03:40	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	36.8		9.98	mg/Kg			12/23/24 13:51	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

Client Sample ID: PH03

Lab Sample ID: 880-52521-11

Date Collected: 12/19/24 12:28

Matrix: Solid

Date Received: 12/19/24 17:35

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		12/20/24 14:34	12/21/24 13:09	1
Toluene	<0.00202	U	0.00202	mg/Kg		12/20/24 14:34	12/21/24 13:09	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		12/20/24 14:34	12/21/24 13:09	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		12/20/24 14:34	12/21/24 13:09	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		12/20/24 14:34	12/21/24 13:09	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		12/20/24 14:34	12/21/24 13:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	12/20/24 14:34	12/21/24 13:09	1
1,4-Difluorobenzene (Surr)	95		70 - 130	12/20/24 14:34	12/21/24 13:09	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			12/21/24 13:09	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			01/01/25 04:00	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		12/27/24 13:36	01/01/25 04:00	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		12/27/24 13:36	01/01/25 04:00	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		12/27/24 13:36	01/01/25 04:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	12/27/24 13:36	01/01/25 04:00	1
o-Terphenyl	100		70 - 130	12/27/24 13:36	01/01/25 04:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	282		9.90	mg/Kg			12/23/24 13:57	1

Client Sample ID: PH03

Lab Sample ID: 880-52521-12

Date Collected: 12/19/24 12:32

Matrix: Solid

Date Received: 12/19/24 17:35

Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/20/24 14:34	12/21/24 13:30	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/20/24 14:34	12/21/24 13:30	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/20/24 14:34	12/21/24 13:30	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		12/20/24 14:34	12/21/24 13:30	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/20/24 14:34	12/21/24 13:30	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		12/20/24 14:34	12/21/24 13:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	12/20/24 14:34	12/21/24 13:30	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

Client Sample ID: PH03

Lab Sample ID: 880-52521-12

Date Collected: 12/19/24 12:32

Matrix: Solid

Date Received: 12/19/24 17:35

Sample Depth: 2'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	94		70 - 130	12/20/24 14:34	12/21/24 13:30	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			12/21/24 13:30	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/01/25 04:21	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/27/24 13:36	01/01/25 04:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/27/24 13:36	01/01/25 04:21	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/27/24 13:36	01/01/25 04:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130			12/27/24 13:36	01/01/25 04:21	1
o-Terphenyl	105		70 - 130			12/27/24 13:36	01/01/25 04:21	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	155		9.94	mg/Kg			12/23/24 14:05	1

Client Sample ID: PH03

Lab Sample ID: 880-52521-13

Date Collected: 12/19/24 12:36

Matrix: Solid

Date Received: 12/19/24 17:35

Sample Depth: 3'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/20/24 14:34	12/21/24 13:51	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/20/24 14:34	12/21/24 13:51	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/20/24 14:34	12/21/24 13:51	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		12/20/24 14:34	12/21/24 13:51	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/20/24 14:34	12/21/24 13:51	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/20/24 14:34	12/21/24 13:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	12/20/24 14:34	12/21/24 13:51	1
1,4-Difluorobenzene (Surr)	95		70 - 130	12/20/24 14:34	12/21/24 13:51	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			12/21/24 13:51	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/31/24 12:05	1

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Client Sample Results

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

Client Sample ID: PH03
Date Collected: 12/19/24 12:36
Date Received: 12/19/24 17:35
Sample Depth: 3'

Lab Sample ID: 880-52521-13
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/27/24 13:39	12/31/24 12:05	1	
Diesel Range Organics (Over C10-C28)	<50.0	U F1	50.0	mg/Kg		12/27/24 13:39	12/31/24 12:05	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/27/24 13:39	12/31/24 12:05	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane	161	S1+	70 - 130			12/27/24 13:39	12/31/24 12:05	1	
o-Terphenyl	173	S1+	70 - 130			12/27/24 13:39	12/31/24 12:05	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	126		10.1	mg/Kg			12/23/24 14:28	1	

Surrogate Summary

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

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)
880-52521-1	SS01	92	87
880-52521-1 MS	SS01	88	100
880-52521-1 MSD	SS01	88	102
880-52521-2	SS02	79	92
880-52521-3	SS03	79	93
880-52521-4	SS04	87	91
880-52521-5	PH01	87	94
880-52521-6	PH01	86	94
880-52521-7	PH01	82	90
880-52521-8	PH02	87	96
880-52521-9	PH02	89	93
880-52521-10	PH02	90	90
880-52521-11	PH03	87	95
880-52521-12	PH03	89	94
880-52521-13	PH03	87	95
LCS 880-98490/1-A	Lab Control Sample	109	118
LCSD 880-98490/2-A	Lab Control Sample Dup	117	107
MB 880-98440/5-A	Method Blank	78	94
MB 880-98490/5-A	Method Blank	81	91
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-52521-1	SS01	94	105
880-52521-2	SS02	102	112
880-52521-3	SS03	109	118
880-52521-4	SS04	97	107
880-52521-5	PH01	98	107
880-52521-6	PH01	97	103
880-52521-7	PH01	96	104
880-52521-8	PH02	91	100
880-52521-9	PH02	100	111
880-52521-10	PH02	95	104
880-52521-11	PH03	92	100
880-52521-12	PH03	94	105
880-52521-13	PH03	161 S1+	173 S1+
880-52521-13 MS	PH03	151 S1+	151 S1+
880-52521-13 MSD	PH03	160 S1+	155 S1+
LCS 880-98956/2-A	Lab Control Sample	97	100
LCS 880-98957/2-A	Lab Control Sample	149 S1+	138 S1+
LCSD 880-98956/3-A	Lab Control Sample Dup	104	107
LCSD 880-98957/3-A	Lab Control Sample Dup	138 S1+	132 S1+
MB 880-98956/1-A	Method Blank	115	130

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Surrogate Summary

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
MB 880-98957/1-A	Method Blank	185 S1+	200 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-98440/5-A

Matrix: Solid

Analysis Batch: 98345

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 98440

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/20/24 09:23	12/20/24 21:40	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/20/24 09:23	12/20/24 21:40	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/20/24 09:23	12/20/24 21:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/20/24 09:23	12/20/24 21:40	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/20/24 09:23	12/20/24 21:40	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/20/24 09:23	12/20/24 21:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130	12/20/24 09:23	12/20/24 21:40	1
1,4-Difluorobenzene (Surr)	94		70 - 130	12/20/24 09:23	12/20/24 21:40	1

Lab Sample ID: MB 880-98490/5-A

Matrix: Solid

Analysis Batch: 98345

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 98490

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/20/24 14:34	12/21/24 08:19	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/20/24 14:34	12/21/24 08:19	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/20/24 14:34	12/21/24 08:19	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/20/24 14:34	12/21/24 08:19	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/20/24 14:34	12/21/24 08:19	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/20/24 14:34	12/21/24 08:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130	12/20/24 14:34	12/21/24 08:19	1
1,4-Difluorobenzene (Surr)	91		70 - 130	12/20/24 14:34	12/21/24 08:19	1

Lab Sample ID: LCS 880-98490/1-A

Matrix: Solid

Analysis Batch: 98345

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 98490

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1160		mg/Kg		116	70 - 130
Toluene	0.100	0.1140		mg/Kg		114	70 - 130
Ethylbenzene	0.100	0.1187		mg/Kg		119	70 - 130
m-Xylene & p-Xylene	0.200	0.2351		mg/Kg		118	70 - 130
o-Xylene	0.100	0.1149		mg/Kg		115	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	118		70 - 130

Lab Sample ID: LCSD 880-98490/2-A

Matrix: Solid

Analysis Batch: 98345

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 98490

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1195		mg/Kg		120	70 - 130	3	35

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QC Sample Results

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

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

Lab Sample ID: LCSD 880-98490/2-A

Matrix: Solid

Analysis Batch: 98345

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 98490

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Toluene	0.100	0.1153		mg/Kg		115	70 - 130	1		35
Ethylbenzene	0.100	0.1280		mg/Kg		128	70 - 130	8		35
m-Xylene & p-Xylene	0.200	0.2529		mg/Kg		126	70 - 130	7		35
o-Xylene	0.100	0.1237		mg/Kg		124	70 - 130	7		35

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: 880-52521-1 MS

Matrix: Solid

Analysis Batch: 98345

Client Sample ID: SS01

Prep Type: Total/NA

Prep Batch: 98490

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec	
									Limits	RPD
Benzene	<0.00199	U F1	0.0996	0.05584	F1	mg/Kg		56	70 - 130	
Toluene	<0.00199	U F1	0.0996	0.05398	F1	mg/Kg		54	70 - 130	
Ethylbenzene	<0.00199	U F1	0.0996	0.04661	F1	mg/Kg		47	70 - 130	
m-Xylene & p-Xylene	<0.00398	U F1	0.199	0.09456	F1	mg/Kg		47	70 - 130	
o-Xylene	<0.00199	U F1	0.0996	0.04909	F1	mg/Kg		49	70 - 130	

Surrogate	MS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	88		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 880-52521-1 MSD

Matrix: Solid

Analysis Batch: 98345

Client Sample ID: SS01

Prep Type: Total/NA

Prep Batch: 98490

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
									Limits	RPD		
Benzene	<0.00199	U F1	0.101	0.07129		mg/Kg		71	70 - 130	24		35
Toluene	<0.00199	U F1	0.101	0.06693	F1	mg/Kg		66	70 - 130	21		35
Ethylbenzene	<0.00199	U F1	0.101	0.05772	F1	mg/Kg		57	70 - 130	21		35
m-Xylene & p-Xylene	<0.00398	U F1	0.202	0.1169	F1	mg/Kg		58	70 - 130	21		35
o-Xylene	<0.00199	U F1	0.101	0.05872	F1	mg/Kg		58	70 - 130	18		35

Surrogate	MSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	88		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

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

Lab Sample ID: MB 880-98956/1-A

Matrix: Solid

Analysis Batch: 99130

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 98956

Analyte	MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/27/24 13:36	12/31/24 19:49	1

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QC Sample Results

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

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

Lab Sample ID: MB 880-98956/1-A

Matrix: Solid

Analysis Batch: 99130

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 98956

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/27/24 13:36	12/31/24 19:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/27/24 13:36	12/31/24 19:49	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130			12/27/24 13:36	12/31/24 19:49	1
o-Terphenyl	130		70 - 130			12/27/24 13:36	12/31/24 19:49	1

Lab Sample ID: LCS 880-98956/2-A

Matrix: Solid

Analysis Batch: 99130

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 98956

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1073		mg/Kg		107	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1076		mg/Kg		108	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	97		70 - 130				
o-Terphenyl	100		70 - 130				

Lab Sample ID: LCSD 880-98956/3-A

Matrix: Solid

Analysis Batch: 99130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 98956

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	956.5		mg/Kg		96	70 - 130	11	20
Diesel Range Organics (Over C10-C28)	1000	981.6		mg/Kg		98	70 - 130	9	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	104		70 - 130						
o-Terphenyl	107		70 - 130						

Lab Sample ID: MB 880-98957/1-A

Matrix: Solid

Analysis Batch: 99133

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 98957

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/27/24 13:39	12/31/24 09:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/27/24 13:39	12/31/24 09:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/27/24 13:39	12/31/24 09:51	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	185	S1+	70 - 130			12/27/24 13:39	12/31/24 09:51	1

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QC Sample Results

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

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

Lab Sample ID: MB 880-98957/1-A

Matrix: Solid

Analysis Batch: 99133

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 98957

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
<i>o</i> -Terphenyl	200	S1+	70 - 130	12/27/24 13:39	12/31/24 09:51	1

Lab Sample ID: LCS 880-98957/2-A

Matrix: Solid

Analysis Batch: 99133

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 98957

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1122		mg/Kg		112	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1280		mg/Kg		128	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	149	S1+	70 - 130
<i>o</i> -Terphenyl	138	S1+	70 - 130

Lab Sample ID: LCSD 880-98957/3-A

Matrix: Solid

Analysis Batch: 99133

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 98957

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1038		mg/Kg		104	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	1000	1103		mg/Kg		110	70 - 130	15	20

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	138	S1+	70 - 130
<i>o</i> -Terphenyl	132	S1+	70 - 130

Lab Sample ID: 880-52521-13 MS

Matrix: Solid

Analysis Batch: 99133

Client Sample ID: PH03

Prep Type: Total/NA

Prep Batch: 98957

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	1077		mg/Kg		104	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U F1	997	1208		mg/Kg		119	70 - 130

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	151	S1+	70 - 130
<i>o</i> -Terphenyl	151	S1+	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

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

Lab Sample ID: 880-52521-13 MSD

Matrix: Solid

Analysis Batch: 99133

Client Sample ID: PH03

Prep Type: Total/NA

Prep Batch: 98957

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	1174		mg/Kg		114	70 - 130	9	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1	997	1350	F1	mg/Kg		133	70 - 130	11	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	160	S1+	70 - 130								
o-Terphenyl	155	S1+	70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-98551/1-A

Matrix: Solid

Analysis Batch: 98576

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0	mg/Kg			12/24/24 15:39	1

Lab Sample ID: LCS 880-98551/2-A

Matrix: Solid

Analysis Batch: 98576

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	264.8		mg/Kg		106	90 - 110

Lab Sample ID: LCSD 880-98551/3-A

Matrix: Solid

Analysis Batch: 98576

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	265.1		mg/Kg		106	90 - 110	0	20

Lab Sample ID: MB 880-98552/1-A

Matrix: Solid

Analysis Batch: 98577

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0	mg/Kg			12/23/24 13:03	1

Lab Sample ID: LCS 880-98552/2-A

Matrix: Solid

Analysis Batch: 98577

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	238.9		mg/Kg		96	90 - 110

Eurofins Midland

QC Sample Results

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-98552/3-A

Matrix: Solid

Analysis Batch: 98577

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	246.7		mg/Kg		99	90 - 110	3	20

Lab Sample ID: 880-52521-8 MS

Matrix: Solid

Analysis Batch: 98577

Client Sample ID: PH02

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	272	F1	251	569.8	F1	mg/Kg		119	90 - 110

Lab Sample ID: 880-52521-8 MSD

Matrix: Solid

Analysis Batch: 98577

Client Sample ID: PH02

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	272	F1	251	550.3	F1	mg/Kg		111	90 - 110	3	20

Lab Sample ID: MB 880-98896/1-A

Matrix: Solid

Analysis Batch: 98925

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0	mg/Kg			12/27/24 10:47	1

Lab Sample ID: LCS 880-98896/2-A

Matrix: Solid

Analysis Batch: 98925

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	254.9		mg/Kg		102	90 - 110

Lab Sample ID: LCSD 880-98896/3-A

Matrix: Solid

Analysis Batch: 98925

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	255.7		mg/Kg		102	90 - 110	0	20

Eurofins Midland

QC Association Summary

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

GC VOA

Analysis Batch: 98345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52521-1	SS01	Total/NA	Solid	8021B	98490
880-52521-2	SS02	Total/NA	Solid	8021B	98490
880-52521-3	SS03	Total/NA	Solid	8021B	98490
880-52521-4	SS04	Total/NA	Solid	8021B	98490
880-52521-5	PH01	Total/NA	Solid	8021B	98490
880-52521-6	PH01	Total/NA	Solid	8021B	98490
880-52521-7	PH01	Total/NA	Solid	8021B	98490
880-52521-8	PH02	Total/NA	Solid	8021B	98490
880-52521-9	PH02	Total/NA	Solid	8021B	98490
880-52521-10	PH02	Total/NA	Solid	8021B	98490
880-52521-11	PH03	Total/NA	Solid	8021B	98490
880-52521-12	PH03	Total/NA	Solid	8021B	98490
880-52521-13	PH03	Total/NA	Solid	8021B	98490
MB 880-98440/5-A	Method Blank	Total/NA	Solid	8021B	98440
MB 880-98490/5-A	Method Blank	Total/NA	Solid	8021B	98490
LCS 880-98490/1-A	Lab Control Sample	Total/NA	Solid	8021B	98490
LCSD 880-98490/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	98490
880-52521-1 MS	SS01	Total/NA	Solid	8021B	98490
880-52521-1 MSD	SS01	Total/NA	Solid	8021B	98490

Prep Batch: 98440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-98440/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 98490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52521-1	SS01	Total/NA	Solid	5035	
880-52521-2	SS02	Total/NA	Solid	5035	
880-52521-3	SS03	Total/NA	Solid	5035	
880-52521-4	SS04	Total/NA	Solid	5035	
880-52521-5	PH01	Total/NA	Solid	5035	
880-52521-6	PH01	Total/NA	Solid	5035	
880-52521-7	PH01	Total/NA	Solid	5035	
880-52521-8	PH02	Total/NA	Solid	5035	
880-52521-9	PH02	Total/NA	Solid	5035	
880-52521-10	PH02	Total/NA	Solid	5035	
880-52521-11	PH03	Total/NA	Solid	5035	
880-52521-12	PH03	Total/NA	Solid	5035	
880-52521-13	PH03	Total/NA	Solid	5035	
MB 880-98490/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-98490/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-98490/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-52521-1 MS	SS01	Total/NA	Solid	5035	
880-52521-1 MSD	SS01	Total/NA	Solid	5035	

Analysis Batch: 98751

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52521-1	SS01	Total/NA	Solid	Total BTEX	
880-52521-2	SS02	Total/NA	Solid	Total BTEX	
880-52521-3	SS03	Total/NA	Solid	Total BTEX	
880-52521-4	SS04	Total/NA	Solid	Total BTEX	

Eurofins Midland

QC Association Summary

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

GC VOA (Continued)

Analysis Batch: 98751 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52521-5	PH01	Total/NA	Solid	Total BTEX	
880-52521-6	PH01	Total/NA	Solid	Total BTEX	
880-52521-7	PH01	Total/NA	Solid	Total BTEX	
880-52521-8	PH02	Total/NA	Solid	Total BTEX	
880-52521-9	PH02	Total/NA	Solid	Total BTEX	
880-52521-10	PH02	Total/NA	Solid	Total BTEX	
880-52521-11	PH03	Total/NA	Solid	Total BTEX	
880-52521-12	PH03	Total/NA	Solid	Total BTEX	
880-52521-13	PH03	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 98956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52521-1	SS01	Total/NA	Solid	8015NM Prep	
880-52521-2	SS02	Total/NA	Solid	8015NM Prep	
880-52521-3	SS03	Total/NA	Solid	8015NM Prep	
880-52521-4	SS04	Total/NA	Solid	8015NM Prep	
880-52521-5	PH01	Total/NA	Solid	8015NM Prep	
880-52521-6	PH01	Total/NA	Solid	8015NM Prep	
880-52521-7	PH01	Total/NA	Solid	8015NM Prep	
880-52521-8	PH02	Total/NA	Solid	8015NM Prep	
880-52521-9	PH02	Total/NA	Solid	8015NM Prep	
880-52521-10	PH02	Total/NA	Solid	8015NM Prep	
880-52521-11	PH03	Total/NA	Solid	8015NM Prep	
880-52521-12	PH03	Total/NA	Solid	8015NM Prep	
MB 880-98956/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-98956/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-98956/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 98957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52521-13	PH03	Total/NA	Solid	8015NM Prep	
MB 880-98957/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-98957/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-98957/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-52521-13 MS	PH03	Total/NA	Solid	8015NM Prep	
880-52521-13 MSD	PH03	Total/NA	Solid	8015NM Prep	

Analysis Batch: 99130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52521-1	SS01	Total/NA	Solid	8015B NM	98956
880-52521-2	SS02	Total/NA	Solid	8015B NM	98956
880-52521-3	SS03	Total/NA	Solid	8015B NM	98956
880-52521-4	SS04	Total/NA	Solid	8015B NM	98956
880-52521-5	PH01	Total/NA	Solid	8015B NM	98956
880-52521-6	PH01	Total/NA	Solid	8015B NM	98956
880-52521-7	PH01	Total/NA	Solid	8015B NM	98956
880-52521-8	PH02	Total/NA	Solid	8015B NM	98956
880-52521-9	PH02	Total/NA	Solid	8015B NM	98956
880-52521-10	PH02	Total/NA	Solid	8015B NM	98956

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QC Association Summary

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

GC Semi VOA (Continued)

Analysis Batch: 99130 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52521-11	PH03	Total/NA	Solid	8015B NM	98956
880-52521-12	PH03	Total/NA	Solid	8015B NM	98956
MB 880-98956/1-A	Method Blank	Total/NA	Solid	8015B NM	98956
LCS 880-98956/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	98956
LCSD 880-98956/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	98956

Analysis Batch: 99133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52521-13	PH03	Total/NA	Solid	8015B NM	98957
MB 880-98957/1-A	Method Blank	Total/NA	Solid	8015B NM	98957
LCS 880-98957/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	98957
LCSD 880-98957/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	98957
880-52521-13 MS	PH03	Total/NA	Solid	8015B NM	98957
880-52521-13 MSD	PH03	Total/NA	Solid	8015B NM	98957

Analysis Batch: 99225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52521-1	SS01	Total/NA	Solid	8015 NM	
880-52521-2	SS02	Total/NA	Solid	8015 NM	
880-52521-3	SS03	Total/NA	Solid	8015 NM	
880-52521-4	SS04	Total/NA	Solid	8015 NM	
880-52521-5	PH01	Total/NA	Solid	8015 NM	
880-52521-6	PH01	Total/NA	Solid	8015 NM	
880-52521-7	PH01	Total/NA	Solid	8015 NM	
880-52521-8	PH02	Total/NA	Solid	8015 NM	
880-52521-9	PH02	Total/NA	Solid	8015 NM	
880-52521-10	PH02	Total/NA	Solid	8015 NM	
880-52521-11	PH03	Total/NA	Solid	8015 NM	
880-52521-12	PH03	Total/NA	Solid	8015 NM	
880-52521-13	PH03	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 98551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52521-1	SS01	Soluble	Solid	DI Leach	
880-52521-2	SS02	Soluble	Solid	DI Leach	
880-52521-3	SS03	Soluble	Solid	DI Leach	
880-52521-5	PH01	Soluble	Solid	DI Leach	
880-52521-6	PH01	Soluble	Solid	DI Leach	
880-52521-7	PH01	Soluble	Solid	DI Leach	
MB 880-98551/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-98551/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-98551/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 98552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52521-8	PH02	Soluble	Solid	DI Leach	
880-52521-9	PH02	Soluble	Solid	DI Leach	
880-52521-10	PH02	Soluble	Solid	DI Leach	
880-52521-11	PH03	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

HPLC/IC (Continued)

Leach Batch: 98552 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52521-12	PH03	Soluble	Solid	DI Leach	
880-52521-13	PH03	Soluble	Solid	DI Leach	
MB 880-98552/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-98552/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-98552/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-52521-8 MS	PH02	Soluble	Solid	DI Leach	
880-52521-8 MSD	PH02	Soluble	Solid	DI Leach	

Analysis Batch: 98576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52521-1	SS01	Soluble	Solid	300.0	98551
880-52521-2	SS02	Soluble	Solid	300.0	98551
880-52521-3	SS03	Soluble	Solid	300.0	98551
880-52521-5	PH01	Soluble	Solid	300.0	98551
880-52521-6	PH01	Soluble	Solid	300.0	98551
880-52521-7	PH01	Soluble	Solid	300.0	98551
MB 880-98551/1-A	Method Blank	Soluble	Solid	300.0	98551
LCS 880-98551/2-A	Lab Control Sample	Soluble	Solid	300.0	98551
LCSD 880-98551/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	98551

Analysis Batch: 98577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52521-8	PH02	Soluble	Solid	300.0	98552
880-52521-9	PH02	Soluble	Solid	300.0	98552
880-52521-10	PH02	Soluble	Solid	300.0	98552
880-52521-11	PH03	Soluble	Solid	300.0	98552
880-52521-12	PH03	Soluble	Solid	300.0	98552
880-52521-13	PH03	Soluble	Solid	300.0	98552
MB 880-98552/1-A	Method Blank	Soluble	Solid	300.0	98552
LCS 880-98552/2-A	Lab Control Sample	Soluble	Solid	300.0	98552
LCSD 880-98552/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	98552
880-52521-8 MS	PH02	Soluble	Solid	300.0	98552
880-52521-8 MSD	PH02	Soluble	Solid	300.0	98552

Leach Batch: 98896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52521-4	SS04	Soluble	Solid	DI Leach	
MB 880-98896/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-98896/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-98896/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 98925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52521-4	SS04	Soluble	Solid	300.0	98896
MB 880-98896/1-A	Method Blank	Soluble	Solid	300.0	98896
LCS 880-98896/2-A	Lab Control Sample	Soluble	Solid	300.0	98896
LCSD 880-98896/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	98896

Eurofins Midland

Lab Chronicle

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

Client Sample ID: SS01

Lab Sample ID: 880-52521-1

Date Collected: 12/19/24 10:40

Matrix: Solid

Date Received: 12/19/24 17:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			98490	MNR	EET MID	12/20/24 14:34
Total/NA	Analysis	8021B		1	98345	MNR	EET MID	12/21/24 08:41
Total/NA	Analysis	Total BTEX		1	98751	SM	EET MID	12/21/24 08:41
Total/NA	Analysis	8015 NM		1	99225	AJ	EET MID	01/01/25 00:15
Total/NA	Prep	8015NM Prep			98956	EL	EET MID	12/27/24 13:36
Total/NA	Analysis	8015B NM		1	99130	SM	EET MID	01/01/25 00:15
Soluble	Leach	DI Leach			98551	CH	EET MID	12/21/24 14:11
Soluble	Analysis	300.0		1	98576	CH	EET MID	12/24/24 18:01

Client Sample ID: SS02

Lab Sample ID: 880-52521-2

Date Collected: 12/19/24 10:15

Matrix: Solid

Date Received: 12/19/24 17:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			98490	MNR	EET MID	12/20/24 14:34
Total/NA	Analysis	8021B		1	98345	MNR	EET MID	12/21/24 09:01
Total/NA	Analysis	Total BTEX		1	98751	SM	EET MID	12/21/24 09:01
Total/NA	Analysis	8015 NM		1	99225	AJ	EET MID	01/01/25 00:36
Total/NA	Prep	8015NM Prep			98956	EL	EET MID	12/27/24 13:36
Total/NA	Analysis	8015B NM		1	99130	SM	EET MID	01/01/25 00:36
Soluble	Leach	DI Leach			98551	CH	EET MID	12/21/24 14:11
Soluble	Analysis	300.0		1	98576	CH	EET MID	12/24/24 18:06

Client Sample ID: SS03

Lab Sample ID: 880-52521-3

Date Collected: 12/19/24 10:20

Matrix: Solid

Date Received: 12/19/24 17:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			98490	MNR	EET MID	12/20/24 14:34
Total/NA	Analysis	8021B		1	98345	MNR	EET MID	12/21/24 09:21
Total/NA	Analysis	Total BTEX		1	98751	SM	EET MID	12/21/24 09:21
Total/NA	Analysis	8015 NM		1	99225	AJ	EET MID	01/01/25 01:17
Total/NA	Prep	8015NM Prep			98956	EL	EET MID	12/27/24 13:36
Total/NA	Analysis	8015B NM		1	99130	SM	EET MID	01/01/25 01:17
Soluble	Leach	DI Leach			98551	CH	EET MID	12/21/24 14:11
Soluble	Analysis	300.0		1	98576	CH	EET MID	12/24/24 18:12

Client Sample ID: SS04

Lab Sample ID: 880-52521-4

Date Collected: 12/19/24 10:55

Matrix: Solid

Date Received: 12/19/24 17:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			98490	MNR	EET MID	12/20/24 14:34
Total/NA	Analysis	8021B		1	98345	MNR	EET MID	12/21/24 09:42
Total/NA	Analysis	Total BTEX		1	98751	SM	EET MID	12/21/24 09:42

Eurofins Midland

Lab Chronicle

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

Client Sample ID: SS04

Lab Sample ID: 880-52521-4

Date Collected: 12/19/24 10:55

Matrix: Solid

Date Received: 12/19/24 17:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	99225	AJ	EET MID	01/01/25 01:38
Total/NA	Prep	8015NM Prep			98956	EL	EET MID	12/27/24 13:36
Total/NA	Analysis	8015B NM		1	99130	SM	EET MID	01/01/25 01:38
Soluble	Leach	DI Leach			98896	CH	EET MID	12/26/24 17:34
Soluble	Analysis	300.0		5	98925	CH	EET MID	12/27/24 13:32

Client Sample ID: PH01

Lab Sample ID: 880-52521-5

Date Collected: 12/19/24 11:28

Matrix: Solid

Date Received: 12/19/24 17:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			98490	MNR	EET MID	12/20/24 14:34
Total/NA	Analysis	8021B		1	98345	MNR	EET MID	12/21/24 10:03
Total/NA	Analysis	Total BTEX		1	98751	SM	EET MID	12/21/24 10:03
Total/NA	Analysis	8015 NM		1	99225	AJ	EET MID	01/01/25 01:58
Total/NA	Prep	8015NM Prep			98956	EL	EET MID	12/27/24 13:36
Total/NA	Analysis	8015B NM		1	99130	SM	EET MID	01/01/25 01:58
Soluble	Leach	DI Leach			98551	CH	EET MID	12/21/24 14:11
Soluble	Analysis	300.0		1	98576	CH	EET MID	12/24/24 18:18

Client Sample ID: PH01

Lab Sample ID: 880-52521-6

Date Collected: 12/19/24 11:42

Matrix: Solid

Date Received: 12/19/24 17:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			98490	MNR	EET MID	12/20/24 14:34
Total/NA	Analysis	8021B		1	98345	MNR	EET MID	12/21/24 10:23
Total/NA	Analysis	Total BTEX		1	98751	SM	EET MID	12/21/24 10:23
Total/NA	Analysis	8015 NM		1	99225	AJ	EET MID	01/01/25 02:18
Total/NA	Prep	8015NM Prep			98956	EL	EET MID	12/27/24 13:36
Total/NA	Analysis	8015B NM		1	99130	SM	EET MID	01/01/25 02:18
Soluble	Leach	DI Leach			98551	CH	EET MID	12/21/24 14:11
Soluble	Analysis	300.0		1	98576	CH	EET MID	12/24/24 18:24

Client Sample ID: PH01

Lab Sample ID: 880-52521-7

Date Collected: 12/19/24 11:46

Matrix: Solid

Date Received: 12/19/24 17:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			98490	MNR	EET MID	12/20/24 14:34
Total/NA	Analysis	8021B		1	98345	MNR	EET MID	12/21/24 10:44
Total/NA	Analysis	Total BTEX		1	98751	SM	EET MID	12/21/24 10:44
Total/NA	Analysis	8015 NM		1	99225	AJ	EET MID	01/01/25 02:38
Total/NA	Prep	8015NM Prep			98956	EL	EET MID	12/27/24 13:36
Total/NA	Analysis	8015B NM		1	99130	SM	EET MID	01/01/25 02:38

Eurofins Midland

Lab Chronicle

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

Client Sample ID: PH01

Lab Sample ID: 880-52521-7

Date Collected: 12/19/24 11:46

Matrix: Solid

Date Received: 12/19/24 17:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			98551	CH	EET MID	12/21/24 14:11
Soluble	Analysis	300.0		1	98576	CH	EET MID	12/24/24 18:30

Client Sample ID: PH02

Lab Sample ID: 880-52521-8

Date Collected: 12/19/24 12:00

Matrix: Solid

Date Received: 12/19/24 17:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			98490	MNR	EET MID	12/20/24 14:34
Total/NA	Analysis	8021B		1	98345	MNR	EET MID	12/21/24 11:04
Total/NA	Analysis	Total BTEX		1	98751	SM	EET MID	12/21/24 11:04
Total/NA	Analysis	8015 NM		1	99225	AJ	EET MID	01/01/25 02:59
Total/NA	Prep	8015NM Prep			98956	EL	EET MID	12/27/24 13:36
Total/NA	Analysis	8015B NM		1	99130	SM	EET MID	01/01/25 02:59
Soluble	Leach	DI Leach			98552	CH	EET MID	12/21/24 14:13
Soluble	Analysis	300.0		1	98577	CH	EET MID	12/23/24 13:23

Client Sample ID: PH02

Lab Sample ID: 880-52521-9

Date Collected: 12/19/24 12:05

Matrix: Solid

Date Received: 12/19/24 17:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			98490	MNR	EET MID	12/20/24 14:34
Total/NA	Analysis	8021B		1	98345	MNR	EET MID	12/21/24 11:25
Total/NA	Analysis	Total BTEX		1	98751	SM	EET MID	12/21/24 11:25
Total/NA	Analysis	8015 NM		1	99225	AJ	EET MID	01/01/25 03:20
Total/NA	Prep	8015NM Prep			98956	EL	EET MID	12/27/24 13:36
Total/NA	Analysis	8015B NM		1	99130	SM	EET MID	01/01/25 03:20
Soluble	Leach	DI Leach			98552	CH	EET MID	12/21/24 14:13
Soluble	Analysis	300.0		1	98577	CH	EET MID	12/23/24 13:44

Client Sample ID: PH02

Lab Sample ID: 880-52521-10

Date Collected: 12/19/24 12:10

Matrix: Solid

Date Received: 12/19/24 17:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			98490	MNR	EET MID	12/20/24 14:34
Total/NA	Analysis	8021B		1	98345	MNR	EET MID	12/21/24 11:46
Total/NA	Analysis	Total BTEX		1	98751	SM	EET MID	12/21/24 11:46
Total/NA	Analysis	8015 NM		1	99225	AJ	EET MID	01/01/25 03:40
Total/NA	Prep	8015NM Prep			98956	EL	EET MID	12/27/24 13:36
Total/NA	Analysis	8015B NM		1	99130	SM	EET MID	01/01/25 03:40
Soluble	Leach	DI Leach			98552	CH	EET MID	12/21/24 14:13
Soluble	Analysis	300.0		1	98577	CH	EET MID	12/23/24 13:51

Eurofins Midland

Lab Chronicle

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

Client Sample ID: PH03

Lab Sample ID: 880-52521-11

Date Collected: 12/19/24 12:28

Matrix: Solid

Date Received: 12/19/24 17:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			98490	MNR	EET MID	12/20/24 14:34
Total/NA	Analysis	8021B		1	98345	MNR	EET MID	12/21/24 13:09
Total/NA	Analysis	Total BTEX		1	98751	SM	EET MID	12/21/24 13:09
Total/NA	Analysis	8015 NM		1	99225	AJ	EET MID	01/01/25 04:00
Total/NA	Prep	8015NM Prep			98956	EL	EET MID	12/27/24 13:36
Total/NA	Analysis	8015B NM		1	99130	SM	EET MID	01/01/25 04:00
Soluble	Leach	DI Leach			98552	CH	EET MID	12/21/24 14:13
Soluble	Analysis	300.0		1	98577	CH	EET MID	12/23/24 13:57

Client Sample ID: PH03

Lab Sample ID: 880-52521-12

Date Collected: 12/19/24 12:32

Matrix: Solid

Date Received: 12/19/24 17:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			98490	MNR	EET MID	12/20/24 14:34
Total/NA	Analysis	8021B		1	98345	MNR	EET MID	12/21/24 13:30
Total/NA	Analysis	Total BTEX		1	98751	SM	EET MID	12/21/24 13:30
Total/NA	Analysis	8015 NM		1	99225	AJ	EET MID	01/01/25 04:21
Total/NA	Prep	8015NM Prep			98956	EL	EET MID	12/27/24 13:36
Total/NA	Analysis	8015B NM		1	99130	SM	EET MID	01/01/25 04:21
Soluble	Leach	DI Leach			98552	CH	EET MID	12/21/24 14:13
Soluble	Analysis	300.0		1	98577	CH	EET MID	12/23/24 14:05

Client Sample ID: PH03

Lab Sample ID: 880-52521-13

Date Collected: 12/19/24 12:36

Matrix: Solid

Date Received: 12/19/24 17:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			98490	MNR	EET MID	12/20/24 14:34
Total/NA	Analysis	8021B		1	98345	MNR	EET MID	12/21/24 13:51
Total/NA	Analysis	Total BTEX		1	98751	SM	EET MID	12/21/24 13:51
Total/NA	Analysis	8015 NM		1	99225	AJ	EET MID	12/31/24 12:05
Total/NA	Prep	8015NM Prep			98957	EL	EET MID	12/27/24 13:39
Total/NA	Analysis	8015B NM		1	99133	AJ	EET MID	12/31/24 12:05
Soluble	Leach	DI Leach			98552	CH	EET MID	12/21/24 14:13
Soluble	Analysis	300.0		1	98577	CH	EET MID	12/23/24 14:28

Laboratory References:

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

Eurofins Midland

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

Laboratory: Eurofins Midland

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

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

Method Summary

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

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: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-52521-1	SS01	Solid	12/19/24 10:40	12/19/24 17:35	0.5'
880-52521-2	SS02	Solid	12/19/24 10:15	12/19/24 17:35	0.5'
880-52521-3	SS03	Solid	12/19/24 10:20	12/19/24 17:35	0.5'
880-52521-4	SS04	Solid	12/19/24 10:55	12/19/24 17:35	0.5'
880-52521-5	PH01	Solid	12/19/24 11:28	12/19/24 17:35	2'
880-52521-6	PH01	Solid	12/19/24 11:42	12/19/24 17:35	3'
880-52521-7	PH01	Solid	12/19/24 11:46	12/19/24 17:35	4'
880-52521-8	PH02	Solid	12/19/24 12:00	12/19/24 17:35	1'
880-52521-9	PH02	Solid	12/19/24 12:05	12/19/24 17:35	2'
880-52521-10	PH02	Solid	12/19/24 12:10	12/19/24 17:35	4'
880-52521-11	PH03	Solid	12/19/24 12:28	12/19/24 17:35	1'
880-52521-12	PH03	Solid	12/19/24 12:32	12/19/24 17:35	2'
880-52521-13	PH03	Solid	12/19/24 12:36	12/19/24 17:35	3'

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Environment Testing
Xenco

Chain of Custody

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



Work Order 880-52521 Chain of Custody

www.xenco.com Page 1 of 2

Project Manager:		Bill to: (if different)	
Company Name:		Company Name:	
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:		Email:	

Project Name:		Turn Around	
Project Number:		Routine <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	
Project Location:		Due Date:	
Sampler's Name:		TAT starts the day received by the lab, if received by 4:30pm	
PO #:		Temp Blank: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Temp Blank: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Wet Ice: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Cooler Custody Seals: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Thermometer ID: IR8	
Sample Custody Seals: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Correction Factor: -1.0	
Total Containers:		Temperature Reading: 26.9	
		Corrected Temperature: -1.0	

ANALYSIS REQUEST		PRESERVATIVE CODES	
Sample Identification	Matrix	Sample Comments	Preservative Codes
SS01	S		None: NO
SS02	S		DI Water: H ₂ O
SS03	S		Cool: Cool
SS04	S		MeOH: Me
PH01	S		HCL: HC
PH01	S		HNO ₃ : HN
PH02	S		H ₂ SO ₄ : H ₂
PH02	S		NaOH: Na
PH02	S		H ₃ PO ₄ : HP
PH02	S		NaHSO ₄ : NABIS
PH02	S		Na ₂ S ₂ O ₃ : NaSO ₃
PH02	S		Zn Acetate+NaOH: Zn
PH02	S		NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	Pres. Code
SS01	S	12/19/24	1040	0.5'	G	1		
SS02	S		1015	0.5'		1		
SS03	S		1020	0.5'		1		
SS04	S		1055	0.5'		1		
PH01	S		1128	2'		1		
PH01	S		1142	9'		1		
PH01	S		1146	4'		1		
PH02	S		1200	1'		1		
PH02	S		1205	2'		1		
PH02	S		1210	4'		1		

Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed		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 standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1. <i>[Signature]</i>		12/19/24 1735			
3. <i>[Signature]</i>		4			
5. <i>[Signature]</i>		6			

Revised Date: 08/25/2020 Rev. 2002.2

Chain of Custody

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

Environment Testing
Xenco

Work Order No: 521www.xenco.com Page 2 of 2

Work Order Comments	
Program: <input type="checkbox"/> UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund	
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 Manager:	Georgiana McSwane	Bill to: (if different)	
Company Name:	Ensolum LLC	Company Name:	
Address:	601 N. Maricopa St Ste 406	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	254-459-2330	Email:	gmcswane@ensolum.com / hgwen@ensolum.com

ANALYSIS REQUEST				Preservative Codes																																											
Project Name:	Turn Around	Pres. Code																																													
Project Number:	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush																																														
Project Location:	Due Date:																																														
Sampler's Name:	TAT starts the day received by the lab, if received by 4:30pm																																														
P.O. #:																																															
<table border="1"> <tr> <td colspan="2">SAMPLE RECEIPT</td> <td>Temp Blank:</td> <td>Yes</td> <td>No</td> <td>Wet Ice:</td> <td>Yes</td> <td>No</td> </tr> <tr> <td>Samples Received Intact:</td> <td>Yes</td> <td>No</td> <td>Thermometer ID:</td> <td colspan="4"></td> </tr> <tr> <td>Cooler Custody Seals:</td> <td>Yes</td> <td>No</td> <td>N/A</td> <td>Correction Factor:</td> <td colspan="4"></td> </tr> <tr> <td>Sample Custody Seals:</td> <td>Yes</td> <td>No</td> <td>N/A</td> <td>Temperature Reading:</td> <td colspan="4"></td> </tr> <tr> <td>Total Containers:</td> <td colspan="7"></td> </tr> </table>						SAMPLE RECEIPT		Temp Blank:	Yes	No	Wet Ice:	Yes	No	Samples Received Intact:	Yes	No	Thermometer ID:					Cooler Custody Seals:	Yes	No	N/A	Correction Factor:					Sample Custody Seals:	Yes	No	N/A	Temperature Reading:					Total Containers:							
SAMPLE RECEIPT		Temp Blank:	Yes	No	Wet Ice:	Yes	No																																								
Samples Received Intact:	Yes	No	Thermometer ID:																																												
Cooler Custody Seals:	Yes	No	N/A	Correction Factor:																																											
Sample Custody Seals:	Yes	No	N/A	Temperature Reading:																																											
Total Containers:																																															
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters																																								
PH03	S	12/19/24	1228	1'	6	1	BTX 8021 TPH 8015 Chloride 300																																								
PH03	S	1232	2'	1	1	1																																									
PH03	S	1236	3'	1	1	1																																									
NFE																																															
12/19/24																																															
TNG																																															
Sample Comments																																															

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

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1. <i>Paul</i>		12/19 1735			
3. <i>Paul</i>					
5. <i>Paul</i>					

Revised Date: 08/25/2020 rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-52521-1

SDG Number: Eddy County

Login Number: 52521

List Number: 1

Creator: Vasquez, Julisa

List Source: Eurofins Midland

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: Hadlie Green
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 1/29/2025 12:45:59 PM Revision 1

JOB DESCRIPTION

Atticus State Com #521
Eddy County

JOB NUMBER

880-53645-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization



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

Generated
1/29/2025 12:45:59 PM
Revision 1

Client: Ensolum
Project/Site: Atticus State Com #521

Laboratory Job ID: 880-53645-1
SDG: Eddy County

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Definitions/Glossary

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-53645-1
SDG: Eddy County

Qualifiers

GC VOA

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

GC Semi VOA

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

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: Atticus State Com #521

Job ID: 880-53645-1

Job ID: 880-53645-1

Eurofins Midland

**Job Narrative
880-53645-1**

REVISION

The report being provided is a revision of the original report sent on 1/27/2025. The report (revision 1) is being revised due to Per client email, requesting TPH re run.

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

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

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

Receipt

The samples were received on 1/24/2025 4:45 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 2.7°C.

Receipt Exceptions

The following samples ere received and analyzed from an unpreserved bulk soil jar: SS01 (880-53645-1) and SS04 (880-53645-2).

GC VOA

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 matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-101238 and analytical batch 880-101251 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-101340 and analytical batch 880-101350 was outside the upper control limits.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: SS04 (880-53645-2), (890-7605-A-10-A), (890-7605-A-10-B MS) and (890-7605-A-10-C MSD). Percent recoveries are based on the amount spiked.

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 Midland

Client Sample Results

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-53645-1
SDG: Eddy County

Client Sample ID: SS01

Lab Sample ID: 880-53645-1

Date Collected: 01/24/25 12:20

Matrix: Solid

Date Received: 01/24/25 16:45

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/27/25 08:36	01/27/25 13:04	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/27/25 08:36	01/27/25 13:04	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/27/25 08:36	01/27/25 13:04	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		01/27/25 08:36	01/27/25 13:04	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/27/25 08:36	01/27/25 13:04	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		01/27/25 08:36	01/27/25 13:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	01/27/25 08:36	01/27/25 13:04	1
1,4-Difluorobenzene (Surr)	98		70 - 130	01/27/25 08:36	01/27/25 13:04	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			01/27/25 13:04	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	76.6		49.8	mg/Kg			01/28/25 13:02	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		01/28/25 07:52	01/28/25 13:02	1
Diesel Range Organics (Over C10-C28)	76.6		49.8	mg/Kg		01/28/25 07:52	01/28/25 13:02	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		01/28/25 07:52	01/28/25 13:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	01/28/25 07:52	01/28/25 13:02	1
o-Terphenyl	79		70 - 130	01/28/25 07:52	01/28/25 13:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26.2		10.1	mg/Kg			01/27/25 12:04	1

Client Sample ID: SS04

Lab Sample ID: 880-53645-2

Date Collected: 01/24/25 12:24

Matrix: Solid

Date Received: 01/24/25 16:45

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		01/27/25 08:36	01/27/25 13:25	1
Toluene	<0.00202	U	0.00202	mg/Kg		01/27/25 08:36	01/27/25 13:25	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		01/27/25 08:36	01/27/25 13:25	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		01/27/25 08:36	01/27/25 13:25	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		01/27/25 08:36	01/27/25 13:25	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		01/27/25 08:36	01/27/25 13:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	01/27/25 08:36	01/27/25 13:25	1
1,4-Difluorobenzene (Surr)	98		70 - 130	01/27/25 08:36	01/27/25 13:25	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-53645-1
SDG: Eddy County

Client Sample ID: SS04

Lab Sample ID: 880-53645-2

Date Collected: 01/24/25 12:24

Matrix: Solid

Date Received: 01/24/25 16:45

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			01/27/25 13:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	72.6		49.6	mg/Kg			01/28/25 13:02	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6	mg/Kg		01/28/25 08:12	01/28/25 13:02	1
Diesel Range Organics (Over C10-C28)	72.6		49.6	mg/Kg		01/28/25 08:12	01/28/25 13:02	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		01/28/25 08:12	01/28/25 13:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	167	S1+	70 - 130			01/28/25 08:12	01/28/25 13:02	1
o-Terphenyl	146	S1+	70 - 130			01/28/25 08:12	01/28/25 13:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	32.1		9.94	mg/Kg			01/27/25 12:10	1

Eurofins Midland

Surrogate Summary

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-53645-1
SDG: Eddy County

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)
880-53645-1	SS01	104	98
880-53645-2	SS04	108	98
LCS 880-101248/1-A	Lab Control Sample	102	99
LCSD 880-101248/2-A	Lab Control Sample Dup	99	100
MB 880-101248/5-A	Method Blank	101	95

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-53645-1	SS01	87	79
880-53645-1 MS	SS01	80	81
880-53645-1 MSD	SS01	91	78
880-53645-2	SS04	167 S1+	146 S1+
LCS 880-101238/2-A	Lab Control Sample	87	91
LCS 880-101336/2-A	Lab Control Sample	87	90
LCS 880-101340/2-A	Lab Control Sample	122	112
LCSD 880-101238/3-A	Lab Control Sample Dup	91	94
LCSD 880-101336/3-A	Lab Control Sample Dup	87	92
LCSD 880-101340/3-A	Lab Control Sample Dup	124	114
MB 880-101238/1-A	Method Blank	105	100
MB 880-101336/1-A	Method Blank	115	107
MB 880-101340/1-A	Method Blank	164 S1+	135 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Eurofins Midland

QC Sample Results

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-53645-1
SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-101248/5-A

Matrix: Solid

Analysis Batch: 101242

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 101248

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/27/25 08:36	01/27/25 11:21	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/27/25 08:36	01/27/25 11:21	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/27/25 08:36	01/27/25 11:21	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/27/25 08:36	01/27/25 11:21	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/27/25 08:36	01/27/25 11:21	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/27/25 08:36	01/27/25 11:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	01/27/25 08:36	01/27/25 11:21	1
1,4-Difluorobenzene (Surr)	95		70 - 130	01/27/25 08:36	01/27/25 11:21	1

Lab Sample ID: LCS 880-101248/1-A

Matrix: Solid

Analysis Batch: 101242

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 101248

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08463		mg/Kg		85	70 - 130
Toluene	0.100	0.08720		mg/Kg		87	70 - 130
Ethylbenzene	0.100	0.09055		mg/Kg		91	70 - 130
m-Xylene & p-Xylene	0.200	0.1707		mg/Kg		85	70 - 130
o-Xylene	0.100	0.08683		mg/Kg		87	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-101248/2-A

Matrix: Solid

Analysis Batch: 101242

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 101248

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08861		mg/Kg		89	70 - 130	5	35
Toluene	0.100	0.09188		mg/Kg		92	70 - 130	5	35
Ethylbenzene	0.100	0.09454		mg/Kg		95	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.1780		mg/Kg		89	70 - 130	4	35
o-Xylene	0.100	0.09050		mg/Kg		90	70 - 130	4	35

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

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QC Sample Results

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-53645-1
SDG: Eddy County

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

Lab Sample ID: MB 880-101238/1-A

Matrix: Solid

Analysis Batch: 101251

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 101238

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/27/25 08:12	01/27/25 08:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/27/25 08:12	01/27/25 08:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/27/25 08:12	01/27/25 08:51	1
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130			01/27/25 08:12	01/27/25 08:51	1
o-Terphenyl	100		70 - 130			01/27/25 08:12	01/27/25 08:51	1

Lab Sample ID: LCS 880-101238/2-A

Matrix: Solid

Analysis Batch: 101251

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 101238

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	811.4		mg/Kg		81	70 - 130
Diesel Range Organics (Over C10-C28)	1000	809.4		mg/Kg		81	70 - 130
Surrogate	%Recovery	LCS Qualifier	Limits				
1-Chlorooctane	87		70 - 130				
o-Terphenyl	91		70 - 130				

Lab Sample ID: LCSD 880-101238/3-A

Matrix: Solid

Analysis Batch: 101251

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 101238

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	830.0		mg/Kg		83	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	838.8		mg/Kg		84	70 - 130	4	20
Surrogate	%Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	91		70 - 130						
o-Terphenyl	94		70 - 130						

Lab Sample ID: 880-53645-1 MS

Matrix: Solid

Analysis Batch: 101251

Client Sample ID: SS01

Prep Type: Total/NA

Prep Batch: 101238

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	749.4		mg/Kg		75	70 - 130
Diesel Range Organics (Over C10-C28)	103	F1	997	789.9	F1	mg/Kg		69	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-53645-1
SDG: Eddy County

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

Lab Sample ID: 880-53645-1 MS

Matrix: Solid

Analysis Batch: 101251

Client Sample ID: SS01

Prep Type: Total/NA

Prep Batch: 101238

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	80		70 - 130
o-Terphenyl	81		70 - 130

Lab Sample ID: 880-53645-1 MSD

Matrix: Solid

Analysis Batch: 101251

Client Sample ID: SS01

Prep Type: Total/NA

Prep Batch: 101238

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	729.1		mg/Kg		73	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	103	F1	997	751.6	F1	mg/Kg		65	70 - 130	5	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	91		70 - 130
o-Terphenyl	78		70 - 130

Lab Sample ID: MB 880-101336/1-A

Matrix: Solid

Analysis Batch: 101348

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 101336

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/28/25 07:52	01/28/25 01:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/28/25 07:52	01/28/25 01:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/28/25 07:52	01/28/25 01:04	1

	MB	MB		Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits			
1-Chlorooctane	115		70 - 130	01/28/25 07:52	01/28/25 01:04	1
o-Terphenyl	107		70 - 130	01/28/25 07:52	01/28/25 01:04	1

Lab Sample ID: LCS 880-101336/2-A

Matrix: Solid

Analysis Batch: 101348

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 101336

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	813.2		mg/Kg		81	70 - 130
Diesel Range Organics (Over C10-C28)	1000	806.4		mg/Kg		81	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	87		70 - 130
o-Terphenyl	90		70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-53645-1
SDG: Eddy County

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

Lab Sample ID: LCSD 880-101336/3-A

Matrix: Solid

Analysis Batch: 101348

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 101336

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	785.9		mg/Kg		79	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	826.4		mg/Kg		83	70 - 130	2	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	87		70 - 130						
o-Terphenyl	92		70 - 130						

Lab Sample ID: MB 880-101340/1-A

Matrix: Solid

Analysis Batch: 101350

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 101340

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/28/25 08:12	01/28/25 01:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/28/25 08:12	01/28/25 01:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/28/25 08:12	01/28/25 01:04	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	164	S1+	70 - 130			01/28/25 08:12	01/28/25 01:04	1
o-Terphenyl	135	S1+	70 - 130			01/28/25 08:12	01/28/25 01:04	1

Lab Sample ID: LCS 880-101340/2-A

Matrix: Solid

Analysis Batch: 101350

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 101340

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	1076		mg/Kg		108	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	1063		mg/Kg		106	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane	122		70 - 130						
o-Terphenyl	112		70 - 130						

Lab Sample ID: LCSD 880-101340/3-A

Matrix: Solid

Analysis Batch: 101350

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 101340

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1111		mg/Kg		111	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	1070		mg/Kg		107	70 - 130	1	20

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QC Sample Results

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-53645-1
SDG: Eddy County

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

Lab Sample ID: LCSD 880-101340/3-A

Matrix: Solid

Analysis Batch: 101350

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 101340

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	124		70 - 130
o-Terphenyl	114		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-101235/1-A

Matrix: Solid

Analysis Batch: 101246

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB	MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<10.0	U		10.0	mg/Kg			01/27/25 09:12	1

Lab Sample ID: LCS 880-101235/2-A

Matrix: Solid

Analysis Batch: 101246

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
	Added	Result	Qualifier			Limits	
Chloride	250	237.2		mg/Kg		95	90 - 110

Lab Sample ID: LCSD 880-101235/3-A

Matrix: Solid

Analysis Batch: 101246

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	RPD
	Added	Result	Qualifier			Limits		Limit	
Chloride	250	237.5		mg/Kg		95	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-53645-1
SDG: Eddy County

GC VOA

Analysis Batch: 101242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53645-1	SS01	Total/NA	Solid	8021B	101248
880-53645-2	SS04	Total/NA	Solid	8021B	101248
MB 880-101248/5-A	Method Blank	Total/NA	Solid	8021B	101248
LCS 880-101248/1-A	Lab Control Sample	Total/NA	Solid	8021B	101248
LCSD 880-101248/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	101248

Prep Batch: 101248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53645-1	SS01	Total/NA	Solid	5035	
880-53645-2	SS04	Total/NA	Solid	5035	
MB 880-101248/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-101248/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-101248/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 101320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53645-1	SS01	Total/NA	Solid	Total BTEX	
880-53645-2	SS04	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 101238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-101238/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-101238/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-101238/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-53645-1 MS	SS01	Total/NA	Solid	8015NM Prep	
880-53645-1 MSD	SS01	Total/NA	Solid	8015NM Prep	

Analysis Batch: 101251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-101238/1-A	Method Blank	Total/NA	Solid	8015B NM	101238
LCS 880-101238/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	101238
LCSD 880-101238/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	101238
880-53645-1 MS	SS01	Total/NA	Solid	8015B NM	101238
880-53645-1 MSD	SS01	Total/NA	Solid	8015B NM	101238

Analysis Batch: 101306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53645-1	SS01	Total/NA	Solid	8015 NM	
880-53645-2	SS04	Total/NA	Solid	8015 NM	

Prep Batch: 101336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53645-1	SS01	Total/NA	Solid	8015NM Prep	
MB 880-101336/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-101336/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-101336/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-53645-1
SDG: Eddy County

GC Semi VOA

Prep Batch: 101340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53645-2	SS04	Total/NA	Solid	8015NM Prep	
MB 880-101340/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-101340/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-101340/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 101348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53645-1	SS01	Total/NA	Solid	8015B NM	101336
MB 880-101336/1-A	Method Blank	Total/NA	Solid	8015B NM	101336
LCS 880-101336/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	101336
LCSD 880-101336/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	101336

Analysis Batch: 101350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53645-2	SS04	Total/NA	Solid	8015B NM	101340
MB 880-101340/1-A	Method Blank	Total/NA	Solid	8015B NM	101340
LCS 880-101340/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	101340
LCSD 880-101340/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	101340

HPLC/IC

Leach Batch: 101235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53645-1	SS01	Soluble	Solid	DI Leach	
880-53645-2	SS04	Soluble	Solid	DI Leach	
MB 880-101235/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-101235/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-101235/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 101246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53645-1	SS01	Soluble	Solid	300.0	101235
880-53645-2	SS04	Soluble	Solid	300.0	101235
MB 880-101235/1-A	Method Blank	Soluble	Solid	300.0	101235
LCS 880-101235/2-A	Lab Control Sample	Soluble	Solid	300.0	101235
LCSD 880-101235/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	101235

Eurofins Midland

Lab Chronicle

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-53645-1
SDG: Eddy County

Client Sample ID: SS01
Date Collected: 01/24/25 12:20
Date Received: 01/24/25 16:45

Lab Sample ID: 880-53645-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			101248	AA	EET MID	01/27/25 08:36
Total/NA	Analysis	8021B		1	101242	MNR	EET MID	01/27/25 13:04
Total/NA	Analysis	Total BTEX		1	101320	SM	EET MID	01/27/25 13:04
Total/NA	Analysis	8015 NM		1	101306	SM	EET MID	01/28/25 13:02
Total/NA	Prep	8015NM Prep			101336	EL	EET MID	01/28/25 07:52
Total/NA	Analysis	8015B NM		1	101348	TKC	EET MID	01/28/25 13:02
Soluble	Leach	DI Leach			101235	SA	EET MID	01/27/25 07:54
Soluble	Analysis	300.0		1	101246	CH	EET MID	01/27/25 12:04

Client Sample ID: SS04
Date Collected: 01/24/25 12:24
Date Received: 01/24/25 16:45

Lab Sample ID: 880-53645-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			101248	AA	EET MID	01/27/25 08:36
Total/NA	Analysis	8021B		1	101242	MNR	EET MID	01/27/25 13:25
Total/NA	Analysis	Total BTEX		1	101320	SM	EET MID	01/27/25 13:25
Total/NA	Analysis	8015 NM		1	101306	SM	EET MID	01/28/25 13:02
Total/NA	Prep	8015NM Prep			101340	EL	EET MID	01/28/25 08:12
Total/NA	Analysis	8015B NM		1	101350	TKC	EET MID	01/28/25 13:02
Soluble	Leach	DI Leach			101235	SA	EET MID	01/27/25 07:54
Soluble	Analysis	300.0		1	101246	CH	EET MID	01/27/25 12:10

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-53645-1
SDG: Eddy County

Laboratory: Eurofins Midland

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

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

Method Summary

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-53645-1
SDG: Eddy County

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: Atticus State Com #521

Job ID: 880-53645-1
SDG: Eddy County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-53645-1	SS01	Solid	01/24/25 12:20	01/24/25 16:45
880-53645-2	SS04	Solid	01/24/25 12:24	01/24/25 16:45

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



880-53645 Chain of Custody

Work Or

Page 1 of 1

Chain of Custody

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

Environment Testing
Xenco

[illegible][illegible]

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

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			10/2/25			
2			10/2/25			
3						
4						
5						
6						

Revised Date: 08/25/2020 Rev. 2020 2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-53645-1

SDG Number: Eddy County

Login Number: 53645

List Number: 1

Creator: Vasquez, Julisa

List Source: Eurofins Midland

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	

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

QUESTIONS

Action 445441

QUESTIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 445441
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2403637444
Incident Name	NAPP2403637444 ATTICUS STATE COM #521 @ 30-015-49982
Incident Type	Fire
Incident Status	Remediation Plan Received
Incident Well	[30-015-49982] ATTICUS STATE COM #521H

Location of Release Source	
Please answer all the questions in this group.	
Site Name	Atticus State Com #521
Date Release Discovered	02/04/2024
Surface Owner	State

Incident Details	
Please answer all the questions in this group.	
Incident Type	Fire
Did this release result in a fire or is the result of a fire	Yes
Did this release result in any injuries	Yes
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: Other (Specify) Released: 0 (Unknown Released Amount) Recovered: 0 Lost: 0
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 445441

QUESTIONS (continued)

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 445441
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	More info needed to determine if this will be treated as a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (2) an unauthorized release of a volume that: (a) results in a fire or is the result of a fire; (c) may with reasonable probability endanger public health.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 03/25/2025
--	---

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QUESTIONS, Page 3

Action 445441

QUESTIONS (continued)

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 445441
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Site Characterization	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 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 1 and 5 (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Zero feet, overlying, or within area
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	3070
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	1340
GRO+DRO (EPA SW-846 Method 8015M)	1340
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	12/05/2024
On what date will (or did) the final sampling or liner inspection occur	04/25/2025
On what date will (or was) the remediation complete(d)	04/25/2025
What is the estimated surface area (in square feet) that will be reclaimed	3560
What is the estimated volume (in cubic yards) that will be reclaimed	250
What is the estimated surface area (in square feet) that will be remediated	3560
What is the estimated volume (in cubic yards) that will be remediated	250
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 4

Action 445441

QUESTIONS (continued)

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 445441
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 03/25/2025
<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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QUESTIONS, Page 5

Action 445441

QUESTIONS (continued)

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 445441
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 445441

QUESTIONS (continued)

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 445441
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	{Unavailable.}

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	No

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CONDITIONS

Action 445441

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 445441
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	The Remediation Plan is Conditionally Approved. Due to high karst, the site will need to be remediated to the strictest closure criteria standards from Table 1 of the OCD Spill Rule. Samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Confirmation samples should be collected every 200 ft2. Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. Please make sure that the edge of the release extent is accurately defined, especially around equipment. The work will need to occur in 90 days after the Remediation Plan has been approved.	3/26/2025