

December 17, 2024

New Mexico Oil Conservation Division

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

Re: Reclamation Report
Eider Federal 35
Incident Number NAPP2418343772
Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of COG Operating, LLC (COG), has prepared the following *Reclamation Report* for the Eider Federal 35 (Site). The *Reclamation Report* documents the Site history and reclamation activities completed to date.

BACKGROUND

The Site is located in Unit O, Section 35, Township 24 South, Range 32 East, in Lea County, New Mexico (32.16790°, -103.64670°) and is associated with oil and gas exploration and production operations on federal land managed by the Bureau of Land Management (BLM).

On June 6, 2024, a hole on a poly line routing to a flare caused a release of approximately 0.2469 barrels (bbls) of condensate off pad onto a connecting lease road. The well head was immediately isolated and repaired to prevent further release. COG reported the release to the New Mexico Oil Conservation Division (NMOCD) and submitted a *Release Notification Form C-141* (Form C-141) on July 1, 2024. The release was assigned Incident Number NAPP2418343772.

Delineation and excavation of impacted soil was completed at the Site between June 2024 and July 2024. Based on the delineation and excavation soil sample analytical results, a *Closure Request* was submitted to the NMOCD on August 22, 2024. The NMOCD approved the *Closure Request* on September 16, 2024. Additional details regarding the release, Site Characterization, delineation and excavation activities, and soil sample analytical results can be referenced in the approved *Closure Request* attached as Appendix A. Remediation of the release was completed in accordance with Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC).

RECLAMATION ACTIVITIES

The excavation area measured approximately 35 square feet. A total of approximately 1.3 cubic yards of impacted soil were removed during the excavation activities. Upon completion of excavation activities and receipt of final laboratory analytical results, the excavation was backfilled and the area was restored to its original condition. The excavation area on the active lease road was backfilled with caliche. Since the excavation remained on an active lease road, revegetation was not required. The excavation extent

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

COG Operating, LLC Reclamation Report Eider Federal 35

and reclamation area are depicted on the attached Figure 1. Photographic documentation is included in Appendix B.

One representative 5-point composite sample (BF01) was collected from the backfill material. The backfill soil sample was transported under strict chain-of-custody procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of the following constituents of concern (COCs): benzene, toluene, ethylbenzene, and total xylenes (BTEX) following United States Environmental Protection Agency (EPA) Method 8021B; total petroleum hydrocarbons (TPH)-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Laboratory analytical results for the backfill soil sample confirmed compliance with NMOCD requirements for the reclaimed area to contain non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 milligrams per kilogram (mg/kg) and TPH concentrations less than 100 mg/kg. The laboratory analytical results are summarized in the attached Table 1 and the complete laboratory analytical report is included as Appendix C.

RECLAMATION APPROVAL REQUEST

Based on the reclamation activities completed to date, COG respectfully requests approval of this *Reclamation Report* and a status update to *Incident Closure App*roved for Incident Number NAPP2418343772.

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

Padie Treen

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

cc: Jacob Laird, ConocoPhillips Company

Bureau of Land Management

Appendices:

Figure 1 Excavation Extent / Reclamation Area

Table 1 Soil Sample Analytical Results Appendix A August 2024 Closure Request

Appendix B Photographic Log

Appendix C Laboratory Analytical Report & Chain of Custody Documentation



FIGURES





Excavation Extent/Reclamation Area

COG Operating, LLC
Eider Federal 35
Incident Number: NAPP2418343772
Unit O, Section 35, Township 24 South, Range 32 East
Lea County, New Mexico

FIGURE

Released to Imaging: 4/29/2025 3:00:44 PM



TABLES



TABLE 1

SOIL SAMPLE ANALYTICAL RESULTS

Eider Federal 35 COG Operating, LLC Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Req	NMOCD Requirements for Reclamed Area			50	NE	NE	NE	100	600
	Backfill Soil Sample								
BF01	11/27/2024	NA	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	159

Notes:

bgs: below ground surface mg/kg: milligrams per kilogram

NE - Not Established NA - Not Applicable

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



APPENDIX A

August 2024 Closure Request



August 21, 2024

New Mexico Oil Conservation Division

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

Re: Closure Request

Eider Federal 35

Incident Number: NAPP2418343772

Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of COG Operating, LLC (COG), has prepared this *Closure Request* to document assessment and remediation activities performed at the Eider Federal 35 (Site). The purpose of the Site assessment and remediation activities was to address impacted soil following a condensate leak at the Site. Based on remediation activities described below, COG is submitting this *Closure Request*, requesting no further action and closure for Incident Number NAPP2418343772.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit O, Section 35, Township 24 South, Range 32 East, in Lea County, New Mexico (32.16790°, -103.64670°) and is associated with oil and gas exploration and production operations on federal land managed by the Bureau of Land Management (BLM).

On June 6, 2024, a hole on a poly line routing to a flare caused a release of approximately 0.2469 barrels (bbls) of condensate off pad. The well head was immediately isolated and repaired to prevent further release. COG reported the release to the New Mexico Oil Conservation Division (NMOCD) and submitted a *Release Notification Form C-141* (Form C-141) on July 1, 2024. The release was assigned Incident Number NAPP2418343772.

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 NMAC. Results from the characterization are summarized below and detailed in the NMOCD permitting portal Form C-141 Site Characterization section. Potential Site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater is the USGS well 321005103402301, located approximately 7,958 feet west of the Site. The groundwater well has a reported depth to groundwater of 290 feet bgs and a total depth of 367 feet bgs. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well records and Closure Criteria Variance Correspondence are included in Appendix A.

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

COG Operating, LLC Closure Request Eider Federal 35

Page 2

The closest continuously flowing or significant watercourse to the Site is a stream bed, located approximately 24,559 feet east of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

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

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

A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH applies to the top 4 feet of the pasture area that was impacted by the release, per 19.15.29.13.D (1) NMAC for the top 4 feet of areas that will be reclaimed following remediation.

ASSESSMENT ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

Between June 26, 2024, and July 30, 2024, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Six assessment soil samples (SS01 through SS06) were collected within and around the extent at a depth of approximately 0.5 feet bgs to assess for the presence or absence of impacts soil resulting from the condensate release. The assessment soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. Photographic documentation was completed during the Site visit and a photographic log is included in Appendix B.

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

Laboratory analytical results for soil sample SS02 indicated the concentration of TPH-GRO/TPH-DRO and TPH exceeded the closure criteria and reclamation requirement. In addition, the concentration of TPH exceeded the reclamation requirement. All lateral soil samples were incompliance with the Closure Criteria and reclamation requirement, properly defining the lateral extent of the release. As a result of delineation activities, excavation appeared warranted to address impacted and waste-containing soil associated with the release.



COG Operating, LLC Closure Request Eider Federal 35

Page 3

EXCAVATION ACTIVITIES AND ANALYTICAL RESULTS

On July 30, 2024, Ensolum personnel were at the Site to oversee excavation activities based on laboratory analytical results for assessment soil samples. Excavation activities were performed utilizing a hydrovac. To direct excavation activities, soil was field screened for VOCs and chloride. The excavations were completed to depths of 1.5 feet bgs. Photographic documentation of the excavation activities is included in Appendix B.

Following removal of impacted soil, two 5-point composite soil samples were collected from the excavation: one floor confirmations soil sample (FS01) and one sidewall confirmation soil (SW01). The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. FS01 was collected at a depth of 1.5 feet bgs and SW01 was collected at a depth range of ground surface (0 feet) to 1.5 feet bgs. The excavation soil samples were collected, handled, and analyzed following the same procedures as described above.

Laboratory analytical results for excavation soil samples FS01 and SW01 indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria. The excavation extent and excavation soil sample locations are presented on Figure 3. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included as Appendix C.

The final excavation measured approximately 35 square feet in areal extent and approximately 1.3 cubic yards of impacted and waste-containing soil was transported to Lea Land Landfill in Hobbs, New Mexico. The excavation will be backfilled with material purchased locally and recontoured to match pre-existing site conditions. The disturbed pasture area will be re-seeded with an approved BLM seed mixture.

CLOSURE REQUEST

Site assessment and remediation activities were conducted at the Site to address the June 2024 condensate release. Laboratory analytical results for the excavation activities indicated all COC concentrations were compliant with the Site Closure Criteria and reclamation requirement, where applicable. Based on the soil sample analytical results, no further remediation is required.

Initial response efforts, excavation of impacted soil, and remediation activities have mitigated impacts at this Site. Depth to groundwater has been estimated to be greater than 100 feet bgs and no other sensitive receptors were identified near the release extent. COG believes these remedial actions are protective of human health, the environment, and groundwater. As such, COG respectfully requests closure for Incident Number NAPP2418343772 Notifications submitted to the NMOCD are included in Appendix D.



COG Operating, LLC Closure Request Eider Federal 35

Page 4

If you have any questions or comments, please contact Mr. Daniel R. Moir at (303) 887-2946 or dmoir@ensolum.com.

Sincerely,

Ensolum, LLC

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

cc: Jacob Laird, COG Operating, LLC

Appendices:

Figure 1 Site Receptor Map

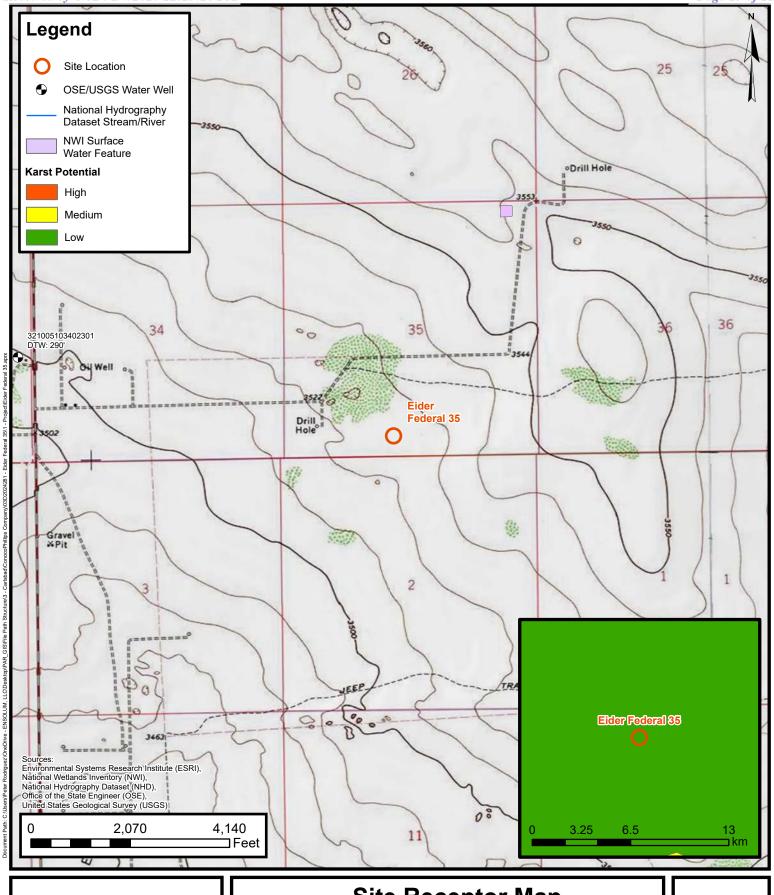
Figure 2 Assessment Soil Sample Locations
Figure 3 Excavation Soil Sample Locations
Table 1 Soil Sample Analytical Results
Appendix A Referenced Well Records

Appendix B Photographic Log

Appendix C Laboratory Analytical Reports & Chain-of-Custody Documentation



Figures





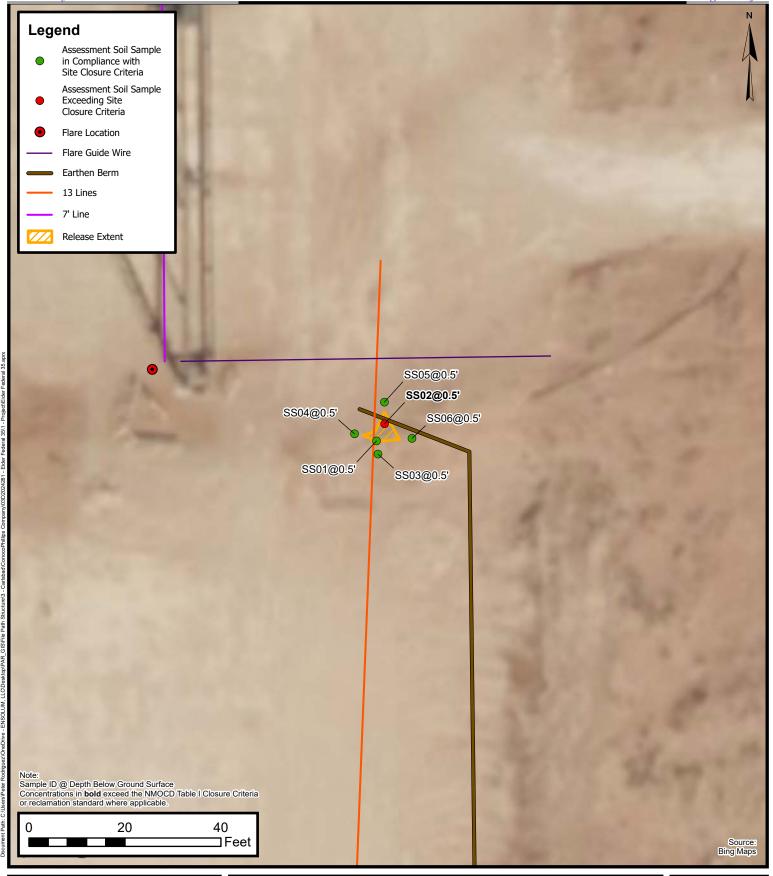
Site Receptor Map

ConocoPhillips Company Eider Federal 35

Incident Number: NAPP2418343772

Unit N, Sec 35, T24S, R32E Lea County, New Mexico FIGURE

1





Assessment Soil Sample Locations

ConocoPhillips Company Eider Federal 35

Incident Number: NAPP2418343772

Unit N, Sec 35, T24S, R32E Lea County, New Mexico FIGURE 2





Excavation Soil Sample Locations
COG Operating, LLC
Eider Federal 35
Incident Number: NAPP2418343772 Unit O, Section 35, Township 24 South, Range 32 East Lea County, New Mexico

FIGURE 3



Tables



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS

Eider Federal 35
ConocoPhillips Company
Lea County, New Mexico

				Lea	County, New Me	XICO				
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	1,000	2,500	20,000
				Preliminar	y Assessment So	oil Samples				
SS01	6/24/2024	0.5	<0.00202	0.164	<49.8	124	229	124	353	251
SS02	6/24/2024	0.5	<0.0504	28.6	461	1,120	2,030	1,581	3,610	68.2
SS03	6/24/2024	0.5	<0.00202	0.00706	<49.8	<49.8	<49.8	<49.8	<49.8	489
SS04	6/24/2024	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	117
SS05	6/24/2024	0.5	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	<50.0	74.0
SS06	6/24/2024	0.5	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	103
	Excavation Soil Samples									
FS01	7/30/2024	1.5	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	55.5
SW01	7/30/2024	0 - 1.5	<0.00200	<0.00399	<49.7	<49.7	<49.7	<49.7	<49.7	23.0

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. Grey text represents samples that have been excavated

^{*} 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



National Water Information System: Web Interface

USGS Water Resources

Data Category:		Geographic Area:		
Groundwater	~	New Mexico	~	GO

Click to hideNews Bulletins

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

Groundwater levels for New Mexico

Click to hide state-specific text

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs

site_no list =

• 321005103402301

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 321005103402301 24S.32E.33.42241

Lea County, New Mexico

Latitude 32°10'21.6", Longitude 103°40'18.9" NAD83

Land-surface elevation 3,499.00 feet above NGVD29

The depth of the well is 367 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Chinle Formation (231CHNL) local aquifer.

Output formats

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

Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1959-02-18	3	D	62610		3185.60	NGVD29	1	Z		
1959-02-18	3	D	62611		3187.32	NAVD88	1	Z		
1959-02-18	3	D	72019	313.40			1	Z		
1981-06-12	2	D	62610		3194.60	NGVD29	1	Z		
1981-06-12	2	D	62611		3196.32	NAVD88	1	Z		
1981-06-12	2	D	72019	304.40			1	Z		
1986-03-1	L	D	62610		3193.79	NGVD29	1	Z		
1986-03-1	L	D	62611		3195.51	NAVD88	1	Z		
1986-03-1	L	D	72019	305.21			1	Z		
1991-05-29	9	D	62610		3211.55	NGVD29	1	Z		
1991-05-29	9	D	62611		3213.27	NAVD88	1	Z		
1991-05-29	9	D	72019	287.45			1	Z		
1996-03-14	1	D	62610		3213.60	NGVD29	1	S		
1996-03-14	1	D	62611		3215.32	NAVD88	1	S		
1996-03-14	1	D	72019	285.40			1	S		

Rece	ived _e by O	C D :1/7/2	date- time accuracy	? 6 PM Parameter code	level, feet below land surface	level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? se 20 of 124 Source measur
	2001-02-27		D	62610		3210.32	NGVD29	1	S		
	2001-02-27		D	62611		3212.04	NAVD88	1	S		
	2001-02-27		D	72019	288.68			1	S		
	2013-01-17	16:30 UTC	m	62610		3209.31	NGVD29	1	S	USGS	
	2013-01-17	16:30 UTC	m	62611		3211.03	NAVD88	1	S	USGS	
	2013-01-17	16:30 UTC	m	72019	289.69			1	S	USGS	

Explanation

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

Questions or Comments <u>Help</u> <u>Data Tips</u> Explanation of terms Subscribe for system changes

Accessibility FOIA Policies and Notices Privacy

<u>U.S. Department of the Interior</u> | <u>U.S. Geological Survey</u> **Title: Groundwater for New Mexico: Water Levels**

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

Page Contact Information: New Mexico Water Data Maintainer
Page Last Modified: 2024-06-20 13:50:27 EDT
0.29 0.26 nadww02





APPENDIX B

Photographic Log



Photographic Log

COG Operating, LLC Eider Federal 35 nAPP2418343772





Photograph: 1 Date: 6/18/2024

Description: Soil staining in release footprint

View: East

Photograph: 2 Date: 7/30/2024

Description: Hydro excavation activities

View: West





Photograph: 3 Date: 7/30/2024

Description: Final excavation extent

View: West

Photograph: 4 Date: 7/30/2024

Description: Final excavation extent

View: East



APPENDIX C

Laboratory Analytical Reports & Chain of Custody Documentation

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green

Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 7/9/2024 11:00:36 AM Revision 1

JOB DESCRIPTION

ELDER FEDERAL 35 03C2024281

JOB NUMBER

890-6848-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

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

Authorization

Generated 7/9/2024 11:00:36 AM Revision 1

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

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies Page 2 of 27

Client: Ensolum

Project/Site: ELDER FEDERAL 35

Laboratory Job ID: 890-6848-1

SDG: 03C2024281

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	7
Surrogate Summary	11
QC Sample Results	12
QC Association Summary	17
Lab Chronicle	20
Certification Summary	22
Method Summary	23
Sample Summary	24
Chain of Custody	25
Receint Checklists	26

Definitions/Glossary

Client: Ensolum Job ID: 890-6848-1 Project/Site: ELDER FEDERAL 35

SDG: 03C2024281

Qualifiers

GC VOA

Qualifier **Qualifier Description**

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

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not
	applicable.
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)
DI RARE IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

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

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

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 Job ID: 890-6848-1

Project: ELDER FEDERAL 35

Job ID: 890-6848-1 Eurofins Carlsbad

Job Narrative 890-6848-1

REVISION

The report being provided is a revision of the original report sent on 7/1/2024. The report (revision 1) is being revised due to Per client email, requesting chloride 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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt

The samples were received on 6/26/2024 8:46 AM. 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 8.8°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS 03 (890-6848-1), SS 04 (890-6848-2), SS 05 (890-6848-3) and SS 06 (890-6848-4).

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 surrogate recovery for the blank associated with preparation batch 880-84376 and analytical batch 880-84437 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SS 04 (890-6848-2), SS 05 (890-6848-3), SS 06 (890-6848-4), (880-45332-A-67-D MS) and (880-45332-A-67-E MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-84376 and analytical batch 880-84437 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.

HPLC/IC

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-84369 and analytical batch 880-84458 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.

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-84369 and analytical batch 880-84458 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 and precision for preparation batch 880-85090 and analytical batch 880-85128 were outside control limits. Sample matrix interference and/or non-homogeneity

Eurofins Carlsbad

1

2

3

4

6

9

11

4.0

14

Case Narrative

Client: Ensolum Job ID: 890-6848-1

Project: ELDER FEDERAL 35

Job ID: 890-6848-1 (Continued)

Eurofins Carlsbad

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.

1

3

4

5

8

46

11

13

14

Matrix: Solid

Lab Sample ID: 890-6848-1

06/27/24 14:29 06/28/24 16:04

Lab Sample ID: 890-6848-2

Client: Ensolum Job ID: 890-6848-1 Project/Site: ELDER FEDERAL 35 SDG: 03C2024281

Client Sample ID: SS 03

Date Collected: 06/24/24 14:00 Date Received: 06/26/24 08:46

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		06/27/24 08:22	06/27/24 18:40	1
Toluene	0.00205		0.00202	mg/Kg		06/27/24 08:22	06/27/24 18:40	1
Ethylbenzene	< 0.00202	U	0.00202	mg/Kg		06/27/24 08:22	06/27/24 18:40	1
m-Xylene & p-Xylene	0.00501		0.00404	mg/Kg		06/27/24 08:22	06/27/24 18:40	1
o-Xylene	< 0.00202	U	0.00202	mg/Kg		06/27/24 08:22	06/27/24 18:40	1
Xylenes, Total	0.00501		0.00404	mg/Kg		06/27/24 08:22	06/27/24 18:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130			06/27/24 08:22	06/27/24 18:40	1
	0.4		70 100			00/07/04 00:00	00/07/04 40:40	1
1,4-Difluorobenzene (Surr)	94		70 - 130			06/27/24 08:22	06/27/24 18:40	,
1,4-Diffuorobenzene (Surr) Method: TAL SOP Total BT Analyte	EX - Total BTE	X Calculat Qualifier		Unit	D	06/27/24 08:22 Prepared	4 Analyzed	Dil Fac
Method: TAL SOP Total BT	EX - Total BTE		ion	Unit mg/Kg	<u>D</u>			
Method: TAL SOP Total BT Analyte Total BTEX	TEX - Total BTE Result 0.00706	Qualifier	RL 0.00404		<u>D</u>		Analyzed	
Method: TAL SOP Total BT Analyte	EX - Total BTE Result 0.00706 Diesel Range	Qualifier	RL 0.00404		<u>D</u>		Analyzed	
Method: TAL SOP Total BT Analyte Total BTEX Method: SW846 8015 NM -	EX - Total BTE Result 0.00706 Diesel Range	Qualifier Organics (Qualifier	RL 0.00404 DRO) (GC)	mg/Kg	_ =	Prepared	Analyzed 06/27/24 18:40	Dil Fac
Method: TAL SOP Total BT Analyte Total BTEX Method: SW846 8015 NM - Analyte Total TPH	EX - Total BTE Result 0.00706 Diesel Range Result <49.8	Qualifier Organics (Qualifier U	RL	mg/Kg Unit	_ =	Prepared	Analyzed 06/27/24 18:40 Analyzed	Dil Fac
Method: TAL SOP Total BT Analyte Total BTEX Method: SW846 8015 NM - Analyte Total TPH Method: SW846 8015B NM	EX - Total BTE Result 0.00706 Diesel Range Result <49.8 - Diesel Range	Qualifier Organics (Qualifier U	RL	mg/Kg Unit	_ =	Prepared	Analyzed 06/27/24 18:40 Analyzed	Dil Fac
Method: TAL SOP Total BT Analyte Total BTEX Method: SW846 8015 NM - Analyte	EX - Total BTE Result 0.00706 Diesel Range Result <49.8 - Diesel Range	Qualifier Organics (Qualifier U Organics Qualifier Qualifier	DRO) (GC) RL 49.8	mg/Kg Unit mg/Kg	<u>-</u> <u>D</u>	Prepared Prepared	Analyzed 06/27/24 18:40 Analyzed 06/28/24 16:04	Dil Fac Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130	06/27/24 14:29	06/28/24 16:04	1
o-Terphenyl	88		70 - 130	06/27/24 14:29	06/28/24 16:04	1
_						

49.8

mg/Kg

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

<49.8 U

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	489	5.02	mg/Kg			07/08/24 15:08	1

Client Sample ID: SS 04 Date Collected: 06/24/24 14:35

Oil Range Organics (Over C28-C36)

Date Received: 06/26/24 08:46

Sample Depth: 0.5'

C10-C28)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/27/24 08:22	06/27/24 19:00	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/27/24 08:22	06/27/24 19:00	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/27/24 08:22	06/27/24 19:00	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		06/27/24 08:22	06/27/24 19:00	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/27/24 08:22	06/27/24 19:00	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		06/27/24 08:22	06/27/24 19:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			06/27/24 08:22	06/27/24 19:00	1

Eurofins Carlsbad

Matrix: Solid

Job ID: 890-6848-1

Client: Ensolum Project/Site: ELDER FEDERAL 35 SDG: 03C2024281

Client Sample ID: SS 04

Date Collected: 06/24/24 14:35 Date Received: 06/26/24 08:46

Sample Depth: 0.5'

Lab Sample ID: 890-6848-2

Matrix: Solid

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

Surrogate %Recovery Qualifier I imits Prepared Analyzed Dil Fac 06/27/24 08:22 06/27/24 19:00 70 - 130 1,4-Difluorobenzene (Surr) 87

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 06/27/24 19:00

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

Result Qualifier Unit D Prepared Analyzed Dil Fac Total TPH <49.9 U 49.9 mg/Kg 06/28/24 16:25

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

Result Qualifier D Dil Fac **Analyte** Unit Prepared Analyzed <49.9 U 49.9 06/27/24 14:29 06/28/24 16:25 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 49.9 mg/Kg 06/27/24 14:29 06/28/24 16:25 C10-C28) Oil Range Organics (Over C28-C36) <49.9 U 49.9 06/27/24 14:29 06/28/24 16:25 mg/Kg

%Recovery Qualifier Dil Fac Surrogate I imits Prepared Analyzed 70 - 130 1-Chlorooctane 30 S1-06/27/24 14:29 06/28/24 16:25 23 S1-06/28/24 16:25 o-Terphenyl 70 - 130 06/27/24 14:29

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Chloride 117 5.03 mg/Kg 06/29/24 09:05

Client Sample ID: SS 05 Lab Sample ID: 890-6848-3 Matrix: Solid

Date Collected: 06/24/24 14:40 Date Received: 06/26/24 08:46

Sample Depth: 0.5'

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

Analyte Result Qualifier RI Unit D Prepared Dil Fac Analyzed Benzene < 0.00198 U 0.00198 mg/Kg 06/27/24 08:22 06/27/24 19:21 Toluene <0.00198 U 0.00198 mg/Kg 06/27/24 08:22 06/27/24 19:21 Ethylbenzene <0.00198 U 0.00198 mg/Kg 06/27/24 08:22 06/27/24 19:21 m-Xylene & p-Xylene <0.00397 U 0.00397 mg/Kg 06/27/24 08:22 06/27/24 19:21 o-Xylene <0.00198 U 0.00198 mg/Kg 06/27/24 08:22 06/27/24 19:21 Xylenes, Total <0.00397 U 0.00397 mg/Kg 06/27/24 08:22 06/27/24 19:21

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 70 - 130 06/27/24 08:22 06/27/24 19:21 4-Bromofluorobenzene (Surr) 110 1,4-Difluorobenzene (Surr) 95 70 - 130 06/27/24 08:22 06/27/24 19:21

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac <0.00397 U Total BTEX 0.00397 mg/Kg 06/27/24 19:21

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

Analyte Result Qualifier Unit Prepared Analyzed Dil Fac Total TPH <50.0 U 50.0 mg/Kg 06/28/24 16:46

Job ID: 890-6848-1

Client: Ensolum Project/Site: ELDER FEDERAL 35 SDG: 03C2024281

Client Sample ID: SS 05 Lab Sample ID: 890-6848-3 Date Collected: 06/24/24 14:40 **Matrix: Solid** Date Received: 06/26/24 08:46

Sample Depth: 0.5'

Method: SW846 8015B NM - I Analyte	_	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		06/27/24 14:29	06/28/24 16:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/27/24 14:29	06/28/24 16:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/27/24 14:29	06/28/24 16:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	29	S1-	70 - 130			06/27/24 14:29	06/28/24 16:46	1
o-Terphenyl	24	S1-	70 - 130			06/27/24 14:29	06/28/24 16:46	1
-	Ob	togranhy -	Soluble					
Method: EPA 300.0 - Anions,	ion Chroma	tograpity -						
Method: EPA 300.0 - Anions, Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: SS 06 Lab Sample ID: 890-6848-4 Date Collected: 06/24/24 14:45 **Matrix: Solid**

Date Received: 06/26/24 08:46

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		06/27/24 08:22	06/27/24 19:41	1
Toluene	<0.00202	U	0.00202	mg/Kg		06/27/24 08:22	06/27/24 19:41	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		06/27/24 08:22	06/27/24 19:41	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		06/27/24 08:22	06/27/24 19:41	1
o-Xylene	< 0.00202	U	0.00202	mg/Kg		06/27/24 08:22	06/27/24 19:41	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		06/27/24 08:22	06/27/24 19:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130			06/27/24 08:22	06/27/24 19:41	1
1,4-Difluorobenzene (Surr)	93		70 - 130			06/27/24 08:22	06/27/24 19:41	1
Method: TAL SOP Total BT								
Analyte		X Calculat Qualifier	ion RL	Unit	D	Prepared	Analyzed	Dil Fac
		Qualifier		Unit mg/Kg	<u>D</u>	Prepared	Analyzed 06/27/24 19:41	Dil Fac
Analyte Total BTEX	Result < 0.00403	Qualifier U	0.00403		<u>D</u>	Prepared		Dil Fac
Analyte	Result <0.00403 Diesel Range	Qualifier U	0.00403		<u>D</u>	Prepared Prepared		Dil Fac Dil Fac
Analyte Total BTEX Method: SW846 8015 NM -	Result <0.00403 Diesel Range	Qualifier U Organics (Qualifier	RL 0.00403 DRO) (GC)	mg/Kg	=		06/27/24 19:41	1
Analyte Total BTEX Method: SW846 8015 NM - Analyte Total TPH	Result <0.00403 Diesel Range Result <49.9	Qualifier U Organics (Qualifier U	RL 0.00403 DRO) (GC) RL 49.9	mg/Kg Unit	=		06/27/24 19:41 Analyzed	1
Analyte Total BTEX Method: SW846 8015 NM - Analyte Total TPH Method: SW846 8015B NM	Piesel Range Result <0.00403 Diesel Range Result <49.9 - Diesel Range	Qualifier U Organics (Qualifier U	RL 0.00403 DRO) (GC) RL 49.9	mg/Kg Unit	=		06/27/24 19:41 Analyzed	1
Analyte Total BTEX Method: SW846 8015 NM - Analyte	Piesel Range Result <0.00403 Diesel Range Result <49.9 - Diesel Range	Qualifier U Organics (Qualifier U Organics Qualifier Qualifier	RL 0.00403 DRO) (GC) RL 49.9 (DRO) (GC)	mg/Kg Unit mg/Kg	 D	Prepared	06/27/24 19:41 Analyzed 06/28/24 17:07	Dil Fac

Eurofins Carlsbad

Dil Fac

06/27/24 14:29 06/28/24 17:07

06/27/24 14:29 06/28/24 17:07

06/27/24 14:29 06/28/24 17:07

06/27/24 14:29 06/28/24 17:07

Analyzed

Prepared

49.9

49.9

Limits

70 - 130

70 - 130

mg/Kg

mg/Kg

<49.9 U

<49.9 U

%Recovery Qualifier

40 S1-

38 S1-

Diesel Range Organics (Over

Oil Range Organics (Over C28-C36)

C10-C28)

Surrogate

1-Chlorooctane o-Terphenyl

Client Sample Results

Client: Ensolum Job ID: 890-6848-1 Project/Site: ELDER FEDERAL 35 SDG: 03C2024281

Client Sample ID: SS 06 Lab Sample ID: 890-6848-4

Date Collected: 06/24/24 14:45 **Matrix: Solid**

Date Received: 06/26/24 08:46 Sample Depth: 0.5'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac 06/29/24 09:15 Chloride 4.97 mg/Kg 103

Surrogate Summary

Client: Ensolum Job ID: 890-6848-1 Project/Site: ELDER FEDERAL 35 SDG: 03C2024281

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

			Percen	t Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-45309-A-12-D MS	Matrix Spike	100	92	
880-45309-A-12-E MSD	Matrix Spike Duplicate	98	94	
890-6848-1	SS 03	109	94	
890-6848-2	SS 04	101	87	
890-6848-3	SS 05	110	95	
890-6848-4	SS 06	109	93	
LCS 880-84303/1-A	Lab Control Sample	99	91	
LCSD 880-84303/2-A	Lab Control Sample Dup	99	92	
MB 880-84303/5-A	Method Blank	100	84	
Surrogate Legend				

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

			Percent St	urrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-45332-A-67-D MS	Matrix Spike	65 S1-	61 S1-	
880-45332-A-67-E MSD	Matrix Spike Duplicate	62 S1-	56 S1-	
890-6848-1	SS 03	85	88	
890-6848-2	SS 04	30 S1-	23 S1-	
890-6848-3	SS 05	29 S1-	24 S1-	
890-6848-4	SS 06	40 S1-	38 S1-	
LCS 880-84376/2-A	Lab Control Sample	97	97	
LCSD 880-84376/3-A	Lab Control Sample Dup	113	115	
MB 880-84376/1-A	Method Blank	136 S1+	149 S1+	

Surrogate Legend

1CO = 1-Chlorooctane OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-6848-1 Project/Site: ELDER FEDERAL 35 SDG: 03C2024281

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-84303/5-A

Matrix: Solid

Analysis Batch: 84306

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 84303

	MB	MR						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/27/24 08:22	06/27/24 11:33	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/27/24 08:22	06/27/24 11:33	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/27/24 08:22	06/27/24 11:33	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/27/24 08:22	06/27/24 11:33	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/27/24 08:22	06/27/24 11:33	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/27/24 08:22	06/27/24 11:33	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepare	ed	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	06/27/24 0	08:22	06/27/24 11:33	1
1,4-Difluorobenzene (Surr)	84		70 - 130	06/27/24 (08:22	06/27/24 11:33	1

Lab Sample ID: LCS 880-84303/1-A

Matrix: Solid

Analysis Batch: 84306

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 84303

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08529		mg/Kg		85	70 - 130	
Toluene	0.100	0.08347		mg/Kg		83	70 - 130	
Ethylbenzene	0.100	0.08427		mg/Kg		84	70 - 130	
m-Xylene & p-Xylene	0.200	0.1800		mg/Kg		90	70 - 130	
o-Xylene	0.100	0.09044		mg/Kg		90	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: LCSD 880-84303/2-A

Matrix: Solid

Analysis Batch: 84306

Client Sa	mple ID:	Lab	Contro	I Samp	le D	up
				_		

Prep Type: Total/NA Prep Batch: 84303

	Spike	LCSD LCSD			%Rec		RPD
Analyte	Added	Result Qualific	er Unit	D %Rec	Limits	RPD	Limit
Benzene	0.100	0.08970	mg/Kg	90	70 - 130	5	35
Toluene	0.100	0.08729	mg/Kg	87	70 - 130	4	35
Ethylbenzene	0.100	0.08859	mg/Kg	89	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.1885	mg/Kg	94	70 - 130	5	35
o-Xylene	0.100	0.09465	mg/Kg	95	70 - 130	5	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1.4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: 880-45309-A-12-D MS

Matrix: Solid

Analysis Batch: 84306

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

Prep Batch: 84303

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.100	0.07915		mg/Kg		79	70 - 130	
Toluene	< 0.00199	U	0.100	0.07754		ma/Ka		77	70 - 130	

QC Sample Results

Client: Ensolum Job ID: 890-6848-1 Project/Site: ELDER FEDERAL 35 SDG: 03C2024281

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

Lab Sample ID: 880-45309-A-12-D MS Client Sample ID: Matrix Spike **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 84306

Prep Batch: 84303 MS MS %Rec Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Ethylbenzene <0.00199 U 0 100 0.07915 mg/Kg 79 70 - 130 m-Xylene & p-Xylene <0.00398 U 0.200 0.1688 mg/Kg 84 70 - 130 o-Xylene <0.00199 U 0.100 0.08544 85 70 - 130 mg/Kg

MS MS

Surrogate	%Recovery	Qualifier	Limits	
4-Bromofluorobenzene (Surr)	100		70 - 130	
1,4-Difluorobenzene (Surr)	92		70 - 130	

Lab Sample ID: 880-45309-A-12-E MSD **Client Sample ID: Matrix Spike Duplicate**

Matrix: Solid

Analysis Batch: 84306

Prep Type: Total/NA

Prep Batch: 84303

Sample Sample Spike MSD MSD %Rec **RPD** Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit 0.0994 Benzene <0.00199 U 0.1037 mg/Kg 104 70 - 130 27 35 Toluene <0.00199 U 0.0994 0.09748 98 70 - 130 23 35 mg/Kg 96 Ethylbenzene <0.00199 U 0.0994 0.09582 mg/Kg 70 - 130 19 35 m-Xylene & p-Xylene <0.00398 U 0.199 0.2046 mg/Kg 103 70 - 130 19 35 <0.00199 U 0.0994 0.09993 101 o-Xylene mg/Kg 70 - 13016 35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits		
4-Bromofluorobenzene (Surr)	98		70 - 130		
1,4-Difluorobenzene (Surr)	94		70 - 130		

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

Lab Sample ID: MB 880-84376/1-A

Matrix: Solid

Analysis Batch: 84437

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

Prep Batch: 84376

MB MB Analyte Result Qualifier RL Unit **Prepared** Analyzed Dil Fac Gasoline Range Organics <50.0 U 50.0 06/27/24 14:28 06/28/24 08:41 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 06/27/24 14:28 06/28/24 08:41 C10-C28) Oil Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 06/27/24 14:28 06/28/24 08:41

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	136	S1+	70 - 130	06/27/24 14:28	06/28/24 08:41	1
o-Terphenyl	149	S1+	70 - 130	06/27/24 14:28	06/28/24 08:41	1

Lab Sample ID: LCS 880-84376/2-A

Matrix: Solid

Analysis Batch: 84437

Diesel Range Organics (Over

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

70 - 130

99

Prep Batch: 84376

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 992.9 99 70 - 130 mg/Kg (GRO)-C6-C10

985.8

mg/Kg

1000

C10-C28)

Limits

70 - 130

70 - 130

Client: Ensolum Project/Site: ELDER FEDERAL 35

Job ID: 890-6848-1

SDG: 03C2024281

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

97

Lab Sample ID: LCS 880-84376/2-A

Matrix: Solid

Analysis Batch: 84437

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 84376

LCS LCS %Recovery Qualifier Surrogate 1-Chlorooctane 97

Lab Sample ID: LCSD 880-84376/3-A

Lab Sample ID: 880-45332-A-67-D MS

Matrix: Solid

o-Terphenyl

Analysis Batch: 84437

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 84376

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Gasoline Range Organics 1000 1011 mg/Kg 101 70 - 130 2 20 (GRO)-C6-C10 Diesel Range Organics (Over 1000 986.1 mg/Kg 99 70 - 130 0 20 C10-C28)

LCSD LCSD

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 113 70 - 130 70 - 130 o-Terphenyl 115

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 84376

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Limits Analyte Unit D %Rec <50.0 UF1 362.1 F1 Gasoline Range Organics 999 mg/Kg 36 70 - 130 (GRO)-C6-C10 999 Diesel Range Organics (Over 58.1 F1 401.2 F1 mg/Kg 34 70 - 130

C10-C28)

Matrix: Solid

Analysis Batch: 84437

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 65 S1-70 - 130 o-Terphenyl 61 S1-70 - 130

Lab Sample ID: 880-45332-A-67-E MSD

Matrix: Solid

Analysis Batch: 84437

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

Prep Batch: 84376

%Rec **RPD** Limits **RPD** Limit %Rec 70 - 130 6 20

Gasoline Range Organics <50.0 U F1 999 339.7 F1 34 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 58.1 F1 999 375.2 F1 mg/Kg 32 70 - 130 7 20

MSD MSD

Result Qualifier

Unit

Spike

Added

C10-C28)

Analyte

MSD MSD

Sample Sample

Result Qualifier

%Recovery Qualifier Limits Surrogate 62 S1-1-Chlorooctane 70 - 130 o-Terphenyl 56 S1-70 - 130

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Client Sample ID: Matrix Spike Duplicate

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike

Client Sample ID: Method Blank

Client: Ensolum Job ID: 890-6848-1 Project/Site: ELDER FEDERAL 35 SDG: 03C2024281

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-84369/1-A

Matrix: Solid

Analysis Batch: 84458

MB MB

Analyzed Result Qualifier RL Unit Dil Fac Analyte D Prepared 5.00 06/29/24 06:59 Chloride <5.00 U mg/Kg

Lab Sample ID: LCS 880-84369/2-A

Matrix: Solid

Analysis Batch: 84458

Spike LCS LCS %Rec Added Result Qualifier Unit D %Rec Limits Analyte 250 255.3 90 - 110 Chloride mg/Kg 102

Lab Sample ID: LCSD 880-84369/3-A

Matrix: Solid

Analysis Batch: 84458

Spike LCSD LCSD %Rec **RPD** Added Result Qualifier Limits **RPD** Analyte Unit %Rec Limit Chloride 250 257.1 103 90 - 110 mg/Kg

Lab Sample ID: 880-45287-A-7-B MS

Matrix: Solid

Analysis Batch: 84458

Spike MS MS %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 1436 Chloride 1210 250 4 mg/Kg 90 - 110

Lab Sample ID: 880-45287-A-7-C MSD

Matrix: Solid

Analysis Batch: 84458

MSD MSD RPD Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 250 1441 4 93 1210 mg/Kg 90 - 110

Lab Sample ID: 880-45304-A-4-B MS

Matrix: Solid

Analysis Batch: 84458

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier %Rec Analyte Unit Limits 38100 F1 12400 44320 F1 Chloride mg/Kg 50 90 - 110

Lab Sample ID: 880-45304-A-4-C MSD

Matrix: Solid

Analysis Batch: 84458

Sample Sample Spike MSD MSD %Rec **RPD** Result Qualifier Added Result Qualifier Limits RPD Limit Analyte Unit %Rec 38100 F1 12400 44370 F1 Chloride mg/Kg 51 90 - 110

Lab Sample ID: MB 880-85090/1-A

Matrix: Solid

Analysis Batch: 85128

MB MB

RL Unit Analyte Result Qualifier D Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 07/08/24 12:31 mg/Kg

QC Sample Results

Client: Ensolum Job ID: 890-6848-1 Project/Site: ELDER FEDERAL 35

SDG: 03C2024281

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-85090/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 85128

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit Limits D %Rec Chloride 250 250.9 mg/Kg 100 90 - 110

Lab Sample ID: LCSD 880-85090/3-A Client Sample ID: Lab Control Sample Dup Matrix: Solid **Prep Type: Soluble**

Analysis Batch: 85128

Spike LCSD LCSD %Rec **RPD** Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 250 250.5 100 90 - 110 Chloride mg/Kg 0

Lab Sample ID: 890-6878-A-66-D MS **Client Sample ID: Matrix Spike Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 85128

Sample Sample Spike MS MS %Rec **Analyte** Result Qualifier Added Result Qualifier Limits Unit %Rec Chloride 18000 F1 5030 23970 F1 mg/Kg

Lab Sample ID: 890-6878-A-66-E MSD

Matrix: Solid

Analysis Batch: 85128

Spike MSD MSD %Rec **RPD** Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 18000 F1 5030 24010 F1 mg/Kg 120 90 - 110

Client: Ensolum
Project/Site: ELDER FEDERAL 35

Job ID: 890-6848-1 SDG: 03C2024281

GC VOA

Prep Batch: 84303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6848-1	SS 03	Total/NA	Solid	5035	
890-6848-2	SS 04	Total/NA	Solid	5035	
890-6848-3	SS 05	Total/NA	Solid	5035	
890-6848-4	SS 06	Total/NA	Solid	5035	
MB 880-84303/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-84303/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-84303/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-45309-A-12-D MS	Matrix Spike	Total/NA	Solid	5035	
880-45309-A-12-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 84306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6848-1	SS 03	Total/NA	Solid	8021B	84303
890-6848-2	SS 04	Total/NA	Solid	8021B	84303
890-6848-3	SS 05	Total/NA	Solid	8021B	84303
890-6848-4	SS 06	Total/NA	Solid	8021B	84303
MB 880-84303/5-A	Method Blank	Total/NA	Solid	8021B	84303
LCS 880-84303/1-A	Lab Control Sample	Total/NA	Solid	8021B	84303
LCSD 880-84303/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	84303
880-45309-A-12-D MS	Matrix Spike	Total/NA	Solid	8021B	84303
880-45309-A-12-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	84303

Analysis Batch: 84490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6848-1	SS 03	Total/NA	Solid	Total BTEX	
890-6848-2	SS 04	Total/NA	Solid	Total BTEX	
890-6848-3	SS 05	Total/NA	Solid	Total BTEX	
890-6848-4	SS 06	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 84376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6848-1	SS 03	Total/NA	Solid	8015NM Prep	
890-6848-2	SS 04	Total/NA	Solid	8015NM Prep	
890-6848-3	SS 05	Total/NA	Solid	8015NM Prep	
890-6848-4	SS 06	Total/NA	Solid	8015NM Prep	
MB 880-84376/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-84376/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-84376/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-45332-A-67-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-45332-A-67-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 84437

Released to Imaging: 4/29/2025 3:00:44 PM

Lab Sample ID 890-6848-1	Client Sample ID	Prep Type Total/NA	Matrix Solid	Method 8015B NM	Prep Batch 84376
890-6848-2	SS 04	Total/NA	Solid	8015B NM	84376
890-6848-3	SS 05	Total/NA	Solid	8015B NM	84376
890-6848-4	SS 06	Total/NA	Solid	8015B NM	84376
MB 880-84376/1-A	Method Blank	Total/NA	Solid	8015B NM	84376
LCS 880-84376/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	84376

Eurofins Carlsbad

2

3

4

6

0

9

12

Client: Ensolum Job ID: 890-6848-1 Project/Site: ELDER FEDERAL 35 SDG: 03C2024281

GC Semi VOA (Continued)

Analysis Batch: 84437 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-84376/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	84376
880-45332-A-67-D MS	Matrix Spike	Total/NA	Solid	8015B NM	84376
880-45332-A-67-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	84376

Analysis Batch: 84782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6848-1	SS 03	Total/NA	Solid	8015 NM	
890-6848-2	SS 04	Total/NA	Solid	8015 NM	
890-6848-3	SS 05	Total/NA	Solid	8015 NM	
890-6848-4	SS 06	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 84369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6848-2	SS 04	Soluble	Solid	DI Leach	
890-6848-3	SS 05	Soluble	Solid	DI Leach	
890-6848-4	SS 06	Soluble	Solid	DI Leach	
MB 880-84369/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-84369/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-84369/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-45287-A-7-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-45287-A-7-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
880-45304-A-4-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-45304-A-4-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 84458

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6848-2	SS 04	Soluble	Solid	300.0	84369
890-6848-3	SS 05	Soluble	Solid	300.0	84369
890-6848-4	SS 06	Soluble	Solid	300.0	84369
MB 880-84369/1-A	Method Blank	Soluble	Solid	300.0	84369
LCS 880-84369/2-A	Lab Control Sample	Soluble	Solid	300.0	84369
LCSD 880-84369/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	84369
880-45287-A-7-B MS	Matrix Spike	Soluble	Solid	300.0	84369
880-45287-A-7-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	84369
880-45304-A-4-B MS	Matrix Spike	Soluble	Solid	300.0	84369
880-45304-A-4-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	84369

Leach Batch: 85090

Lab Sample ID 890-6848-1	Client Sample ID SS 03	Prep Type Soluble	Matrix Solid	Method DI Leach	Prep Batch
MB 880-85090/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-85090/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-85090/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-6878-A-66-D MS	Matrix Spike	Soluble	Solid	DI Leach	
890-6878-A-66-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 85128

Г					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6848-1	SS 03	Soluble	Solid	300.0	85090

Eurofins Carlsbad

ı I

3

Л

5

6

8

9

111

13

Client: Ensolum Job ID: 890-6848-1
Project/Site: ELDER FEDERAL 35 SDG: 03C2024281

HPLC/IC (Continued)

Analysis Batch: 85128 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-85090/1-A	Method Blank	Soluble	Solid	300.0	85090
LCS 880-85090/2-A	Lab Control Sample	Soluble	Solid	300.0	85090
LCSD 880-85090/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	85090
890-6878-A-66-D MS	Matrix Spike	Soluble	Solid	300.0	85090
890-6878-A-66-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	85090

j 124

Ω

9

11

13

Project/Site: ELDER FEDERAL 35

Client Sample ID: SS 03

Client: Ensolum

Lab Sample ID: 890-6848-1

Matrix: Solid

Date Collected: 06/24/24 14:00 Date Received: 06/26/24 08:46

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	84303	06/27/24 08:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84306	06/27/24 18:40	SM	EET MID
Total/NA	Analysis	Total BTEX		1			84490	06/27/24 18:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			84782	06/28/24 16:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	84376	06/27/24 14:29	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84437	06/28/24 16:04	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	85090	07/05/24 16:56	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	85128	07/08/24 15:08	CH	EET MID

Client Sample ID: SS 04 Lab Sample ID: 890-6848-2 Date Collected: 06/24/24 14:35

Date Received: 06/26/24 08:46

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	84303	06/27/24 08:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84306	06/27/24 19:00	SM	EET MID
Total/NA	Analysis	Total BTEX		1			84490	06/27/24 19:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			84782	06/28/24 16:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	84376	06/27/24 14:29	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84437	06/28/24 16:25	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	84369	06/27/24 13:54	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84458	06/29/24 09:05	CH	EET MID

Lab Sample ID: 890-6848-3 Client Sample ID: SS 05 Date Collected: 06/24/24 14:40 Matrix: Solid

Date Received: 06/26/24 08:46

Batch Batch Dil Initial Final Batch Prepared **Prep Type** Type Method Run **Factor Amount** Amount Number or Analyzed Analyst Lab Total/NA 5035 Prep 5.04 g 5 mL 84303 06/27/24 08:22 MNR **EET MID** Total/NA 8021B 5 mL Analysis 1 5 mL 84306 06/27/24 19:21 SM **EET MID** Total/NA Total BTEX Analysis 1 84490 06/27/24 19:21 SM **EET MID** Total/NA Analysis 8015 NM 84782 06/28/24 16:46 SM **EET MID** 10.01 g Total/NA Prep 8015NM Prep 10 mL 84376 06/27/24 14:29 EL **EET MID** Total/NA Analysis 8015B NM 1 uL 1 uL 84437 06/28/24 16:46 AJ **EET MID** Soluble 50 mL 84369 Leach DI Leach 4.99 g 06/27/24 13:54 SMC **EET MID**

Client Sample ID: SS 06 Lab Sample ID: 890-6848-4 Date Collected: 06/24/24 14:45 Matrix: Solid

50 mL

50 mL

84458

06/29/24 09:10 CH

Date Received: 06/26/24 08:46

Analysis

300.0

Soluble

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	84303	06/27/24 08:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84306	06/27/24 19:41	SM	EET MID
Total/NA	Analysis	Total BTEX		1			84490	06/27/24 19:41	SM	EET MID

Eurofins Carlsbad

EET MID

Lab Chronicle

Client: Ensolum Job ID: 890-6848-1 Project/Site: ELDER FEDERAL 35 SDG: 03C2024281

Client Sample ID: SS 06 Lab Sample ID: 890-6848-4

Date Collected: 06/24/24 14:45 Matrix: Solid Date Received: 06/26/24 08:46

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			84782	06/28/24 17:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	84376	06/27/24 14:29	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84437	06/28/24 17:07	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	84369	06/27/24 13:54	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84458	06/29/24 09:15	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-6848-1
Project/Site: ELDER FEDERAL 35 SDG: 03C2024281

Laboratory: Eurofins Midland

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

uthority	Progra	am	Identification Number	Expiration Date
xas	NELAI	0	T104704400	06-30-25
The following analyte	s are included in this reno	rt but the laboratory is a	not certified by the governing authori	ty This list may inclu
,	does not offer certification	•	not certified by the governing authori	ity. Triis list may inch
,	•	•	Analyte	ty. This list may mon
for which the agency	does not offer certification		, , ,	

Δ

__

6

Q

10

11

13

Method Summary

Client: Ensolum

Project/Site: ELDER FEDERAL 35

Job ID: 890-6848-1

300 ID. 000 00 IO I	
SDG: 03C2024281	

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: ELDER FEDERAL 35

Job ID: 890-6848-1

SDG: 03C2024281

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-6848-1	SS 03	Solid	06/24/24 14:00	06/26/24 08:46	0.5'
890-6848-2	SS 04	Solid	06/24/24 14:35	06/26/24 08:46	0.5'
890-6848-3	SS 05	Solid	06/24/24 14:40	06/26/24 08:46	0.5'
890-6848-4	SS 06	Solid	06/24/24 14:45	06/26/24 08:46	0.5'

Work Order No:

lilli mirana ma m	
0-6848 Chain d	of Custod

eurofins

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

						Hobb	s, NM (575) 39	2-7550	, Carlst	oad, NI	M (575)	988-31	99					www	.xenc	o.com	Page	1	of	ı
Project Manager:	David McInr	nis			Bill to: (if	differen	t)	H	adl	ie	6.	121			П	Work Order Comments									
Company Name:	Ensolum				Company	y Name	9:		JC 1						П	Program: UST/PST PRP Brownfields RRC Superfund						nd 🛮			
Address:	3122 Nation	al Parks	Hwy		Address:						T				П	State of Project:									
City, State ZIP:	Carlsbad, N	M 88220			City, Stat	te ZIP:					П	Reporting: Level II Level III PST/UST TRRP Level IV							ı∨□						
Phone:	409-454-30	09		Email:	dmcinni	s@ens	ensolum.com , Hareen@ensolum.com						Deliverables: EDD ☐ ADaPT ☐ Other:												
Project Name:	Eid	er Federa	al 35	Turi	n Around								ANA	LYSIS	REQ	UEST						Pres	servativ	Codes	
Project Number:	0:	3C20242	81	☑ Routine	Rush		Pres. Code													I		None: NO		I Water:	H₂O
Project Location:	32.16	790, -103	.64670	Due Date:																		Cool: Coo	ı M	leOH: M	э
Sampler's Name:	Т	racy Hilla	ard	TAT starts th			1										l	İ	l	l	1	HCL: HC	H	INO3: HI	1
PO#:				the lab, if re	ceived by 4	:30pm	2	ĺ				1					1	l		l		H ₂ S0 ₄ : H ₂	1	laOH: Na	.]
SAMPLE RECE	IPT Jen	p Blank:	Yes No	Wet Ice:	Yes	No	a	8				1		i				l	l	1	1	H₃PO₄: H	Р		
Samples Received I	ntact: Ye	No_	Thermome	ter ID:	TNA	~~	E	Š.				1							1			NaHSO ₄ :	NABIS		- 1
Cooler Custody Sea	is: Yes	No N/A	Correction	Factor:	.0.2		Para	i i				l				İ		1	İ	}	1	Na ₂ S ₂ O ₃ :	NaSO ₃		
Sample Custody Se	als: Yes	No N/A	emperatu	re Reading:	9.0			i iii]		1			H	1			1		1	Zn Acetat	e+NaOH	Zn	
Total Containers:			Corrected 7	remperature:	ਰ.			l ä		l		1								1	1	NaOH+As	scorbic A	id: SAP	;
Sample Ide	ntification	Matri	X Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	CHLORIDES (EPA: 300.0)	Ŧ	BTEX												San	nple Co	nments	
SS	03	S	6/24/2024	14:00	0.5	G	1	×	×	х	П											Incident	ID: PEN	DING	
SS	04	S	6/24/2024	14:35	0.5	G	1	х	х	х															
SS	05	s	6/24/2024	14:40	0.5	G	1	х	х	х															
SS	06	s	6/24/2024	14:45	0.5	G	1	х	×	×								<u></u>	<u> </u>						
																					_				
				<u> </u>								<u> </u>				_					┞-				
						_	ļ	ļ	ļ	<u> </u>	1	-	-		 			_		4-	-				_
				<u> </u>	ļ	<u> </u>	<u> </u>	-	<u> </u>	├	H	\vdash	\vdash		#-	-	-	├	-	+	+-	-			_
		-		-			-	\vdash			Н	+-	-		\vdash		-		-		\vdash	_		-	
Total 200.7 / 6	010 200.8	/ 6020:		8RCRA 13															< Se						
Circle Method(s) a	and Metal(s) t	o be ana	lyzed	TCLP / S	SPLP 601	10: 8F	CRA	Sb /	As Ba	Be (Cd C	r Co	Cu P	b Mn	Mo I	Ni Se	Ag T	I U		Hg:	1631	/ 245.1 / 7	470 / 74	71	
Notice: Signature of this of service. Eurofins Xer of Eurofins Xenco. A m	nco will be liable o	only for the	cost of samples	and shall not as:	sume any re	sponsib	lilty for a	any loss	es or ex	penses	Incurre	d by the	e client l	f such lo	sses a	re due t	circum	stances	s beyon	d the c	ontrol				
Relinquished b	y: (Signature)	Receiv	ed by: (Sign	ature)			Date	/Time		LR	elingu	ished	by: (S	ignati	ure)		130 co	eived	by: (S	ignaty	ıre)	Da	te/Time	
Jun Ha	Steel										2	10	(6)	10	龙	No	1	5	1	~	abla		6/21	5 8	3
3	-000										4	-N-V	~								0		سين		
5		\top									6				\top										
															1							Re	wised Date: 0	3/25/2020 Re	2020.2

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-6848-1 SDG Number: 03C2024281

Login Number: 6848 **List Source: Eurofins Carlsbad**

List Number: 1

Creator: Bruns, Shannon

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

Eurofins Carlsbad

Released to Imaging: 4/29/2025 3:00:44 PM

Login Sample Receipt Checklist

 Client: Ensolum
 Job Number: 890-6848-1

 SDG Number: 03C2024281

Login Number: 6848
List Source: Eurofins Midland
List Number: 2
List Creation: 06/27/24 07:47 AM

Creator: Vasquez, Julisa

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	

Eurofins Carlsbad

Released to Imaging: 4/29/2025 3:00:44 PM

2

3

5

7

9

11

4.0

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green Ensolum 601 N. Marienfeld St. Suite 400

Midland, Texas 79701

Generated 7/12/2024 3:28:21 PM

JOB DESCRIPTION

EIDER FEDERAL 35 03C2024281

JOB NUMBER

890-6849-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

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

Authorization

Generated 7/12/2024 3:28:21 PM

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

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

Client: Ensolum

Project/Site: EIDER FEDERAL 35

Laboratory Job ID: 890-6849-1

SDG: 03C2024281

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	8
QC Sample Results	9
QC Association Summary	15
Lab Chronicle	17
Certification Summary	18
Method Summary	19
Sample Summary	20
Chain of Custody	21
Racaint Chacklists	22

2

3

4

5

9

11

12

Definitions/Glossary

Job ID: 890-6849-1 Client: Ensolum Project/Site: EIDER FEDERAL 35 SDG: 03C2024281

Qualifiers

GC VOA Qualifier

Qualifier	Qualifier Description
*_	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.

S1+ Surrogate recovery exceeds control limits, high biased.

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

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not
	applicable.

Indicates the analyte was analyzed for but not detected.

Glossary

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) Limit of Quantitation (DoD/DOE) LOQ

MCL EPA recommended "Maximum Contaminant Level" Minimum Detectable Activity (Radiochemistry) MDA 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** Relative Error Ratio (Radiochemistry) **RER**

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum Job ID: 890-6849-1

Project: EIDER FEDERAL 35

Job ID: 890-6849-1 Eurofins Carlsbad

Job Narrative 890-6849-1

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt

The samples were received on 6/26/2024 8:38 AM. 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 8.8°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS 1 (890-6849-1) and SS 2 (890-6849-2).

GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-84451 recovered above the upper control limit for Benzene, Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were ran within 12 hours of passing CCV; therefore, the data have been reported. The associated sample is impacted: (CCV 880-84451/33).

Method 8021B: The laboratory control sample duplicate (LCSD) for preparation batch 880-84468 and analytical batch 880-84451 recovered outside control limits for the following analytes: Ethylbenzene. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

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

Diesel Range Organics

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 880-84369 and analytical batch 880-84458 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 Carlsbad

2

3

4

5

7

9

11

13

Client: Ensolum

Job ID: 890-6849-1 SDG: 03C2024281

Project/Site: EIDER FEDERAL 35 SDG: 03C2024281

Client Sample ID: SS 1 Lab Sample ID: 890-6849-1

Date Collected: 06/24/24 13:20

Date Received: 06/26/24 08:38

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	0.134	*- *1	0.00403	mg/Kg		06/27/24 08:37	06/27/24 17:53	1
m-Xylene & p-Xylene	0.0918	*- *1	0.00403	mg/Kg		06/27/24 08:37	06/27/24 17:53	1
Benzene	<0.00202	U	0.00202	mg/Kg		06/27/24 08:37	06/27/24 17:53	1
o-Xylene	0.0421	*- *1	0.00202	mg/Kg		06/27/24 08:37	06/27/24 17:53	1
Toluene	0.0175	*_	0.00202	mg/Kg		06/27/24 08:37	06/27/24 17:53	1
Ethylbenzene	0.0127		0.00202	mg/Kg		06/27/24 08:37	06/27/24 17:53	1
Total BTEX	0.165	*+ *1	0.00202	mg/Kg		06/27/24 08:37	06/27/24 17:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130			06/27/24 08:37	06/27/24 17:53	1
1,4-Difluorobenzene (Surr)	84		70 - 130			06/27/24 08:37	06/27/24 17:53	1
Method: TAL SOP Total BTEX	- Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.164		0.00403	mg/Kg			06/27/24 17:53	1
Method: SW846 8015 NM - Die:	sel Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	353		49.8	mg/Kg			06/28/24 18:51	1
Method: SW846 8015B NM - Di	esel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	229		49.8	mg/Kg		06/27/24 14:29	06/28/24 18:51	1
Diesel Range Organics (Over C10-C28)	124		49.8	mg/Kg		06/27/24 14:29	06/28/24 18:51	1
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		06/27/24 14:29	06/28/24 18:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
o-Terphenyl	49	S1-	70 - 130			06/27/24 14:29	06/28/24 18:51	1
1-Chlorooctane	49	S1-	70 - 130			06/27/24 14:29	06/28/24 18:51	1
Method: EPA 300.0 - Anions, Id	on Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	251		4.98	mg/Kg			06/29/24 09:20	1

Client Sample ID: SS 2

Date Collected: 06/24/24 13:23

Lab Sample ID: 890-6849-2

Matrix: Solid

Date Received: 06/26/24 08:38

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0504	U	0.0504	mg/Kg		06/28/24 10:09	06/29/24 05:46	25
Toluene	3.71		0.0504	mg/Kg		06/28/24 10:09	06/29/24 05:46	25
Ethylbenzene	4.22	*+	0.0504	mg/Kg		06/28/24 10:09	06/29/24 05:46	25
m-Xylene & p-Xylene	15.9		0.101	mg/Kg		06/28/24 10:09	06/29/24 05:46	25
o-Xylene	4.73		0.0504	mg/Kg		06/28/24 10:09	06/29/24 05:46	25
Xylenes, Total	20.6		0.101	mg/Kg		06/28/24 10:09	06/29/24 05:46	25
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	246	S1+	70 - 130			06/28/24 10:09	06/29/24 05:46	25

Eurofins Carlsbad

2

4

7

0

10

12

1 1

. .

Client Sample Results

Client: Ensolum
Project/Site: EIDER FEDERAL 35
Job ID: 890-6849-1
SDG: 03C2024281

Client Sample ID: SS 2 Lab Sample ID: 890-6849-2

Date Collected: 06/24/24 13:23

Date Received: 06/26/24 08:38

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1,4-Difluorobenzene (Surr)	97		70 - 130			06/28/24 10:09	06/29/24 05:46	2
Method: TAL SOP Total BTEX	· Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	28.6		0.101	mg/Kg			06/29/24 05:46	
Method: SW846 8015 NM - Die:	sel Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	3610		249	mg/Kg			06/28/24 18:30	
Method: SW846 8015B NM - Di	esel Range Orga	nics (DRO)	(GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics	461		249	mg/Kg		06/27/24 14:29	06/28/24 18:30	
(GRO)-C6-C10								
Diesel Range Organics (Over	1120		249	mg/Kg		06/27/24 14:29	06/28/24 18:30	
C10-C28)								
Oil Range Organics (Over	2030		249	mg/Kg		06/27/24 14:29	06/28/24 18:30	
C28-C36)								
•	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
Surrogate	%Recovery	Qualifier	Limits 70 - 130			Prepared 06/27/24 14:29	Analyzed 06/28/24 18:30	Dil Fa
Surrogate 1-Chlorooctane	<u></u>	Qualifier						Dil F
Surrogate 1-Chlorooctane o-Terphenyl	99 99		70 - 130 70 - 130			06/27/24 14:29	06/28/24 18:30	_ Dil F
C28-C36) Surrogate 1-Chloroctane o-Terphenyl Method: EPA 300.0 - Anions, Ic Analyte	99 99 on Chromatograp		70 - 130 70 - 130	Unit	D	06/27/24 14:29	06/28/24 18:30	Dil Fa

Surrogate Summary

Job ID: 890-6849-1 Client: Ensolum Project/Site: EIDER FEDERAL 35 SDG: 03C2024281

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-45318-A-1-A MS	Matrix Spike	116	108
880-45318-A-1-B MSD	Matrix Spike Duplicate	123	104
890-6849-1	SS 1	98	84
890-6849-2	SS 2	246 S1+	97
890-6855-A-21-B MS	Matrix Spike	120	91
890-6855-A-21-C MSD	Matrix Spike Duplicate	98	101
LCS 880-84312/1-A	Lab Control Sample	70	106
LCS 880-84468/1-A	Lab Control Sample	100	105
LCSD 880-84312/2-A	Lab Control Sample Dup	121	110
LCSD 880-84468/2-A	Lab Control Sample Dup	111	105
MB 880-84312/5-A	Method Blank	183 S1+	121
MB 880-84412/5-A	Method Blank	78	87
MB 880-84468/5-A	Method Blank	72	91

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
80-45332-A-67-D MS	Matrix Spike	65 S1-	61 S1-	
80-45332-A-67-E MSD	Matrix Spike Duplicate	62 S1-	56 S1-	
90-6849-1	SS 1	49 S1-	49 S1-	
90-6849-2	SS 2	99	99	
.CS 880-84376/2-A	Lab Control Sample	97	97	
.CSD 880-84376/3-A	Lab Control Sample Dup	113	115	
MB 880-84376/1-A	Method Blank	136 S1+	149 S1+	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum Project/Site: EIDER FEDERAL 35

Job ID: 890-6849-1

SDG: 03C2024281

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-84312/5-A

Matrix: Solid Analysis Batch: 84308 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 84312

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/27/24 08:37	06/27/24 11:41	1
Benzene	<0.00200	U	0.00200	mg/Kg		06/27/24 08:37	06/27/24 11:41	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/27/24 08:37	06/27/24 11:41	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/27/24 08:37	06/27/24 11:41	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/27/24 08:37	06/27/24 11:41	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/27/24 08:37	06/27/24 11:41	1
Total RTEX	<0.00200	U	0.00200	ma/Ka		06/27/24 08:37	06/27/24 11:41	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	183	S1+	70 - 130	06/27/24 08:3	7 06/27/24 11:41	1
1,4-Difluorobenzene (Surr)	121		70 - 130	06/27/24 08:3	7 06/27/24 11:41	1

Lab Sample ID: LCS 880-84312/1-A

Matrix: Solid

Analysis Batch: 84308

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 84312

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits m-Xylene & p-Xylene 0.200 0.06904 mg/Kg 35 70 - 130 0.100 0.07177 72 Benzene mg/Kg 70 - 130 0.100 0.06269 *mg/Kg 63 70 - 130 o-Xylene Toluene 0.100 0.06864 *-70 - 130 mg/Kg 69 Ethylbenzene 0.100 0.08331 mg/Kg 83 70 - 130

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	70	70 - 130
1.4-Difluorobenzene (Surr)	106	70 - 130

Lab Sample ID: LCSD 880-84312/2-A

Matrix: Solid

Analysis Batch: 84308

Cilent	Sample	ID: La	ib Conti	roi Sampi	e Dup

Prep Type: Total/NA

Prep Batch: 84312

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
m-Xylene & p-Xylene	0.200	0.1684	*1	mg/Kg		84	70 - 130	84	35
Benzene	0.100	0.09926		mg/Kg		99	70 - 130	32	35
o-Xylene	0.100	0.1003	*1	mg/Kg		100	70 - 130	46	35
Toluene	0.100	0.08495		mg/Kg		85	70 - 130	21	35
Ethylbenzene	0.100	0.08414		mg/Kg		84	70 - 130	1	35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	121	70 - 130
1.4-Difluorobenzene (Surr)	110	70 - 130

Lab Sample ID: 880-45318-A-1-A MS

Matrix: Solid

Analysis Batch: 84308

Client	Sample	ID: I	Matrix	Spike

Prep Type: Total/NA

Prep Batch: 84312

•	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
m_Xylene & n_Xylene	<0.00398	11 *_ *1	0.200	0 1719		ma/Ka		86	70 130	Т

Client: Ensolum Project/Site: EIDER FEDERAL 35

Job ID: 890-6849-1

SDG: 03C2024281

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

Lab Sample ID: 880-45318-A-1-A MS

Matrix: Solid

Analysis Batch: 84308

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 84312

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.100	0.09834		mg/Kg		98	70 - 130	
o-Xylene	<0.00199	U *- *1	0.100	0.09018		mg/Kg		90	70 - 130	
Toluene	<0.00199	U *-	0.100	0.08060		mg/Kg		80	70 - 130	
Ethylbenzene	<0.00199	U	0.100	0.08321		mg/Kg		83	70 - 130	

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	116	70 - 130
1,4-Difluorobenzene (Surr)	108	70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 84312

Lab Sample ID: 880-45318-A-1-B MSD **Matrix: Solid**

Analysis Batch: 84308

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
m-Xylene & p-Xylene	<0.00398	U *- *1	0.199	0.2004		mg/Kg		101	70 - 130	15	35
Benzene	<0.00199	U	0.0994	0.1027		mg/Kg		103	70 - 130	4	35
o-Xylene	<0.00199	U *- *1	0.0994	0.1055		mg/Kg		106	70 - 130	16	35
Toluene	<0.00199	U *-	0.0994	0.08094		mg/Kg		81	70 - 130	0	35
Ethylbenzene	<0.00199	U	0.0994	0.1008		mg/Kg		101	70 - 130	19	35

MSD MSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	123	70 - 130
1,4-Difluorobenzene (Surr)	104	70 - 130

Lab Sample ID: MB 880-84412/5-A

Matrix: Solid

Analysis Batch: 84451

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 84412

мв мв

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/27/24 16:42	06/28/24 11:23	1
Benzene	<0.00200	U	0.00200	mg/Kg		06/27/24 16:42	06/28/24 11:23	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/27/24 16:42	06/28/24 11:23	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/27/24 16:42	06/28/24 11:23	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/27/24 16:42	06/28/24 11:23	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/27/24 16:42	06/28/24 11:23	1

мв мв

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78	70 - 130	06/27/24 16:42	06/28/24 11:23	1
1,4-Difluorobenzene (Surr)	87	70 - 130	06/27/24 16:42	06/28/24 11:23	1

Lab Sample ID: MB 880-84468/5-A

Matrix: Solid

Analysis Batch: 84451

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 84468

	MB	M
naluta	Popult	^

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/28/24 10:09	06/28/24 22:10	1
Benzene	<0.00200	U	0.00200	mg/Kg		06/28/24 10:09	06/28/24 22:10	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/28/24 10:09	06/28/24 22:10	1

QC Sample Results

Client: Ensolum Job ID: 890-6849-1
Project/Site: EIDER FEDERAL 35 SDG: 03C2024281

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

Lab Sample ID: MB 880-84468/5-A

Lab Sample ID: LCS 880-84468/1-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 84451

Analysis Batch: 84451

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 84468

ı									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/28/24 10:09	06/28/24 22:10	1
I	Toluene	<0.00200	U	0.00200	mg/Kg		06/28/24 10:09	06/28/24 22:10	1
	Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/28/24 10:09	06/28/24 22:10	1
ı									

MB MB

MR MR

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72		70 - 130	06/28/24 10:09	06/28/24 22:10	1
1,4-Difluorobenzene (Surr)	91		70 - 130	06/28/24 10:09	06/28/24 22:10	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 84468

Spike LCS LCS Added Result Qualifier %Rec Limits Analyte Unit 0.200 0.2246 m-Xylene & p-Xylene mg/Kg 112 70 - 130 0.100 0.1111 111 70 - 130 Benzene mg/Kg o-Xylene 0.100 0.1048 mg/Kg 105 70 - 130 Toluene 0.100 0.1023 mg/Kg 102 70 - 130 0.100 Ethylbenzene 0.1200 120 70 - 130 mg/Kg

LCS LCS

Surrogate	%Recovery Qualifie	er Limits
4-Bromofluorobenzene (Surr)	100	70 - 130
1,4-Difluorobenzene (Surr)	105	70 - 130

Lab Sample ID: LCSD 880-84468/2-A

Matrix: Solid

Analysis Batch: 84451

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

Prep Batch: 84468

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
m-Xylene & p-Xylene	0.200	0.2462		mg/Kg		123	70 - 130	9	35
Benzene	0.100	0.1115		mg/Kg		112	70 - 130	0	35
o-Xylene	0.100	0.1156		mg/Kg		116	70 - 130	10	35
Toluene	0.100	0.1072		mg/Kg		107	70 - 130	5	35
Ethylbenzene	0.100	0.1319	*+	mg/Kg		132	70 - 130	9	35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	111	70 - 130
1,4-Difluorobenzene (Surr)	105	70 - 130

Lab Sample ID: 890-6855-A-21-B MS

Matrix: Solid

Analysis Batch: 84451

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 84468

•	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
m-Xylene & p-Xylene	<0.00398	U	0.199	0.2290		mg/Kg		115	70 - 130	
Benzene	< 0.00199	U	0.0996	0.09843		mg/Kg		99	70 - 130	
o-Xylene	< 0.00199	U	0.0996	0.1087		mg/Kg		109	70 - 130	
Toluene	<0.00199	U	0.0996	0.09677		mg/Kg		97	70 - 130	
Ethylbenzene	< 0.00199	U *+	0.0996	0.1277		mg/Kg		128	70 - 130	

Project/Site: EIDER FEDERAL 35

Client: Ensolum

Job ID: 890-6849-1

SDG: 03C2024281

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

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: 890-6855-A-21-C MSD

Matrix: Solid

Analysis Batch: 84451

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA Prep Batch: 84468

Sample Sample Spike MSD MSD %Rec RPD Result Qualifier Limit Analyte Added Result Qualifier Unit %Rec Limits **RPD** <0.00398 U 0.202 0.1713 85 70 - 130 29 35 m-Xylene & p-Xylene mg/Kg <0.00199 U 0.101 0.09307 70 - 130 Benzene mg/Kg 92 6 35 o-Xylene <0.00199 U 0.101 0.08088 mg/Kg 80 70 - 130 29 35 Toluene <0.00199 U 0.101 0.08590 85 70 - 130 12 35 mg/Kg Ethylbenzene <0.00199 U*+ 0.101 0.09514 mg/Kg 94 70 - 130 29

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

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

Lab Sample ID: MB 880-84376/1-A

Matrix: Solid

Analysis Batch: 84437

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 84376

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		06/27/24 14:28	06/28/24 08:41	1
C10-C28)								
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/27/24 14:28	06/28/24 08:41	1
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		06/27/24 14:28	06/28/24 08:41	1

(GRO)-C6-C10

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	136	S1+	70 - 130	06/27/24 14:28	06/28/24 08:41	1
o-Terphenyl	149	S1+	70 - 130	06/27/24 14:28	06/28/24 08:41	1

Lab Sample ID: LCS 880-84376/2-A

Matrix: Solid

Analysis Batch: 84437

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 84376

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Diesel Range Organics (Over	1000	985.8		mg/Kg		99	70 - 130	
C10-C28)								
Gasoline Range Organics	1000	992.9		mg/Kg		99	70 - 130	
(GRO)_C6_C10								

(GRO)-C6-C10

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

Job ID: 890-6849-1 Client: Ensolum Project/Site: EIDER FEDERAL 35 SDG: 03C2024281

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

Lab Sample ID: LCSD 880-84376/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Analysis Batch: 84437 Prep Type: Total/NA Prep Batch: 84376

Spike LCSD LCSD RPD Limit Analyte Added Result Qualifier Unit %Rec Limits RPD D Diesel Range Organics (Over 1000 986.1 mg/Kg 99 70 - 130 0 20 C10-C28) 1000 Gasoline Range Organics 1011 101 70 - 130 mg/Kg 2 20

(GRO)-C6-C10

LCSD LCSD Qualifier Limits Surrogate %Recovery 70 - 130 1-Chlorooctane 113 o-Terphenyl 115 70 - 130

Lab Sample ID: 880-45332-A-67-D MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 84437

Prep Type: Total/NA

Prep Batch: 84376

MS MS %Rec Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits 999 Diesel Range Organics (Over Err F1 401.2 F1 mg/Kg 34 70 - 130 C10-C28) Err F1 Gasoline Range Organics 999 362.1 F1 mg/Kg 35 70 - 130 (GRO)-C6-C10

MS MS %Recovery Qualifier Surrogate Limits 1-Chlorooctane 65 S1-70 - 130 61 S1-70 - 130 o-Terphenyl

Lab Sample ID: 880-45332-A-67-E MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 84437

Prep Type: Total/NA Prep Batch: 84376

Sample Sample Spike MSD MSD %Rec **RPD** Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit F1 999 375.2 F1 20 Diesel Range Organics (Over Err 32 70 - 130 mg/Kg C10-C28) 999 339.7 F1 33 20 Gasoline Range Organics Frr F1 mg/Kg 70 - 130 6 (GRO)-C6-C10

MSD MSD Qualifier Limits Surrogate %Recovery 1-Chlorooctane 62 S1-70 - 130 56 S1-70 - 130 o-Terphenyl

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-84369/1-A Client Sample ID: Method Blank Matrix: Solid **Prep Type: Soluble**

Analysis Batch: 84458

MB MB

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			06/29/24 06:59	1

QC Sample Results

Client: Ensolum Job ID: 890-6849-1 Project/Site: EIDER FEDERAL 35

SDG: 03C2024281

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-84369/2-A **Client Sample ID: Lab Control Sample Matrix: Solid**

Prep Type: Soluble

Analysis Batch: 84458

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Chloride 250 255.3 mg/Kg 102 90 - 110

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 880-84369/3-A **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 84458

Spike LCSD LCSD %Rec RPD Added Result Qualifier Limit Analyte Unit D %Rec Limits RPD Chloride 250 257.1 mg/Kg 103 90 - 110

Lab Sample ID: 880-45287-A-7-B MS Client Sample ID: Matrix Spike

Matrix: Solid Prep Type: Soluble

Analysis Batch: 84458

MS MS %Rec Spike Sample Sample Analyte Result Qualifier Added Result Qualifier Unit Limits Chloride 1210 250 1436 90 - 110 mg/Kg

Lab Sample ID: 880-45287-A-7-C MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 84458

Sample Sample MSD MSD RPD Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec RPD Limit Limits Chloride 1210 250 1441 4 93 90 - 110 20 mg/Kg

Client: Ensolum Job ID: 890-6849-1
Project/Site: EIDER FEDERAL 35 SDG: 03C2024281

GC VOA

Analysis Batch: 84308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6849-1	SS 1	Total/NA	Solid	8021B	84312
MB 880-84312/5-A	Method Blank	Total/NA	Solid	8021B	84312
LCS 880-84312/1-A	Lab Control Sample	Total/NA	Solid	8021B	84312
LCSD 880-84312/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	84312
880-45318-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	84312
880-45318-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	84312

Prep Batch: 84312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6849-1	SS 1	Total/NA	Solid	5035	<u> </u>
MB 880-84312/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-84312/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-84312/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-45318-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-45318-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 84412

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-84412/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 84451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6849-2	SS 2	Total/NA	Solid	8021B	84468
MB 880-84412/5-A	Method Blank	Total/NA	Solid	8021B	84412
MB 880-84468/5-A	Method Blank	Total/NA	Solid	8021B	84468
LCS 880-84468/1-A	Lab Control Sample	Total/NA	Solid	8021B	84468
LCSD 880-84468/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	84468
890-6855-A-21-B MS	Matrix Spike	Total/NA	Solid	8021B	84468
890-6855-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	84468

Analysis Batch: 84463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6849-1	SS 1	Total/NA	Solid	Total BTEX	
890-6849-2	SS 2	Total/NA	Solid	Total BTEX	

Prep Batch: 84468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6849-2	SS 2	Total/NA	Solid	5035	
MB 880-84468/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-84468/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-84468/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-6855-A-21-B MS	Matrix Spike	Total/NA	Solid	5035	
890-6855-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

GC Semi VOA

Prep Batch: 84376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6849-1	SS 1	Total/NA	Solid	8015NM Prep	
890-6849-2	SS 2	Total/NA	Solid	8015NM Prep	
MB 880-84376/1-A	Method Blank	Total/NA	Solid	8015NM Prep	

Client: Ensolum Job ID: 890-6849-1
Project/Site: EIDER FEDERAL 35 SDG: 03C2024281

GC Semi VOA (Continued)

Prep Batch: 84376 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-84376/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-84376/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-45332-A-67-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-45332-A-67-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 84437

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6849-1	SS 1	Total/NA	Solid	8015B NM	84376
890-6849-2	SS 2	Total/NA	Solid	8015B NM	84376
MB 880-84376/1-A	Method Blank	Total/NA	Solid	8015B NM	84376
LCS 880-84376/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	84376
LCSD 880-84376/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	84376
880-45332-A-67-D MS	Matrix Spike	Total/NA	Solid	8015B NM	84376
880-45332-A-67-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	84376

Analysis Batch: 84783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6849-1	SS 1	Total/NA	Solid	8015 NM	
890-6849-2	SS 2	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 84369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6849-1	SS 1	Soluble	Solid	DI Leach	
890-6849-2	SS 2	Soluble	Solid	DI Leach	
MB 880-84369/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-84369/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-84369/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-45287-A-7-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-45287-A-7-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 84458

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6849-1	SS 1	Soluble	Solid	300.0	84369
890-6849-2	SS 2	Soluble	Solid	300.0	84369
MB 880-84369/1-A	Method Blank	Soluble	Solid	300.0	84369
LCS 880-84369/2-A	Lab Control Sample	Soluble	Solid	300.0	84369
LCSD 880-84369/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	84369
880-45287-A-7-B MS	Matrix Spike	Soluble	Solid	300.0	84369
880-45287-A-7-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	84369

Job ID: 890-6849-1

Client: Ensolum Project/Site: EIDER FEDERAL 35 SDG: 03C2024281

Client Sample ID: SS 1 Lab Sample ID: 890-6849-1

Date Collected: 06/24/24 13:20 Matrix: Solid Date Received: 06/26/24 08:38

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	84312	06/27/24 08:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	84308	06/27/24 17:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			84463	06/27/24 17:53	AJ	EET MID
Total/NA	Analysis	8015 NM		1			84783	06/28/24 18:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	84376	06/27/24 14:29	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	84437	06/28/24 18:51	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	84369	06/27/24 13:54	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	84458	06/29/24 09:20	CH	EET MID

Client Sample ID: SS 2 Lab Sample ID: 890-6849-2

Date Collected: 06/24/24 13:23 Matrix: Solid Date Received: 06/26/24 08:38

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	84468	06/28/24 10:09	MNR	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	84451	06/29/24 05:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			84463	06/29/24 05:46	AJ	EET MID
Total/NA	Analysis	8015 NM		1			84783	06/28/24 18:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	84376	06/27/24 14:29	EL	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	84437	06/28/24 18:30	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	84369	06/27/24 13:54	SMC	EET MIC
Soluble	Analysis	300.0		1	50 mL	50 mL	84458	06/29/24 09:25	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: EIDER FEDERAL 35
Job ID: 890-6849-1
SDG: 03C2024281

Laboratory: Eurofins Midland

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

Authority	Progr	Program		Expiration Date	
Texas	NELA	Р	T104704400	06-30-24	
,	tes are included in this report, buy does not offer certification.	ut the laboratory is not certi	fied by the governing authority. This lis	t may include analytes	
Analysis Method	Prep Method	Matrix	Analyte		
8015 NM		Solid	Total TPH		
8021B	5035	Solid	Total BTEX		
Total BTEX		Solid	Total BTEX		

4

_

7

9

10

12

IS

Method Summary

Client: Ensolum

Project/Site: EIDER FEDERAL 35

Job ID: 890-6849-1

SDG: 03C2024281

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
3015NM Prep	Microextraction	SW846	EET MID
Ol Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Carlsbad

Page 19 of 23 Released to Imaging: 4/29/2025 3:00:44 PM

Sample Summary

Client: Ensolum

Project/Site: EIDER FEDERAL 35

Job ID: 890-6849-1 SDG: 03C2024281

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-6849-1	SS 1	Solid	06/24/24 13:20	06/26/24 08:38
890-6849-2	SS 2	Solid	06/24/24 13:23	06/26/24 08:38

3

4

5

9

10

12

13

Work Order No:

eurofins **Environment Testing**

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

89000145 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199 Page www.xenco.com Ensolum Project Manager: David McInnis **Work Order Comments** Bill to: (if different) Hadlie Green Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐ Company Name: Ensolum Company Name: 3122 National Parks Hwy State of Project: Address: Address: Reporting: Level II Level III PST/UST TRRP Level IV City, State ZIP: Carlsbad, NM 88220 City, State ZIP: Deliverables: EDD ADaPT 🗆 Phone: 409-454-3009 Email: dmcinnis@ensolum.com , Hgreen@ensolum.com ANALYSIS REQUEST Eider Federal 35 **Turn Around Preservative Codes** 03C2024281 ☑ Routine Rush DI Water: H₂O Project Number: None: NO 32.16790, -103.64670 MeOH: Me Project Location: Due Date: Cool: Cool HNO₃: HN Sampler's Name: Tracy Hillard TAT starts the day received by the lab, if received by 4:30pm HCL: HC PO #: H₂S0₄: H₂ NaOH: Na **⊘** No Yes No SAMPLE RECEIPT Wet Ice: H₃PO₄: HP Temp Blank: Paramet (EPA: 300.0) Samples Received Intact: Thermometer ID: NaHSO₄: NABIS NAUDT Na₂S₂O₃: NaSO₃ Cooler Custody Seals: Yes No Correction Factor: Yes No NA Zn Acetate+NaOH: Zn Sample Custody Seals: Temperature Reading: NaOH+Ascorbic Acid: SAPC Total Containers: Corrected Temperature: Grab # of **Sample Comments** Sample Identification Matrix Depth Sampled Sampled S 6/24/2024 13:20 G х Incident ID: PENDING s SS02 6/24/2024 13:23 0.5 G 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Ctd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Tl Sn U V Zn Total 200.7 / 6010 200.8 / 6020: Hg: 1631 / 245.1 / 7470 / 7471 TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U Circle Method(s) and Metal(s) to be analyzed 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

Relinguished by: (Signature)	Received by: (Signature)	Date/Time	Relinguished by: (Signature)	Received by: (Signature)	Date/Time
Intholed	riosonou zyr (orginataro)	Batto, Time	Thank	Bung	L126 880
			4	3	0120

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-6849-1 SDG Number: 03C2024281

Login Number: 6849 List Source: Eurofins Carlsbad

List Number: 1

Creator: Bruns, Shannon

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

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-6849-1

SDG Number: 03C2024281

Login Number: 6849 **List Source: Eurofins Midland** List Number: 2

List Creation: 06/27/24 07:47 AM

Creator: Vasquez, Julisa

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

Released to Imaging: 4/29/2025 3:00:44 PM

<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green Ensolum 601 N. Marienfeld St. Suite 400

Midland, Texas 79701

Generated 8/6/2024 5:34:08 PM

JOB DESCRIPTION

Eider Federal 35 Lea County NM

JOB NUMBER

880-46746-1

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 8/6/2024 5:34:08 PM

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

Eurofins Midland is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies Page 2 of 19 8/6/2024

Client: Ensolum
Project/Site: Eider Federal 35
Laboratory Job ID: 880-46746-1
SDG: Lea County NM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	8
QC Sample Results	9
QC Association Summary	12
Lab Chronicle	14
Certification Summary	15
Method Summary	16
Sample Summary	17
Chain of Custody	18
Receipt Checklists	19

2

3

4

6

8

40

11

10

14

Definitions/Glossary

Job ID: 880-46746-1 Client: Ensolum Project/Site: Eider Federal 35 SDG: Lea County NM

Qualifiers

GC VOA Qualifier **Qualifier Description**

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

GC Semi VOA

Qualifier **Qualifier Description**

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

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

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

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

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

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

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

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

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

TNTC Too Numerous To Count

Eurofins Midland

Page 4 of 19 Released to Imaging: 4/29/2025 3:00:44 PM

Case Narrative

Client: Ensolum Job ID: 880-46746-1

Project: Eider Federal 35

Eurofins Midland Job ID: 880-46746-1

Job Narrative 880-46746-1

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 7/31/2024 2:31 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.5°C.

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-87238 and analytical batch 880-87227 was outside the upper control limits.

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

Diesel Range Organics

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: (880-46579-A-1-E), (880-46579-A-1-T MS) and (880-46579-A-1-U MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SW01 (880-46746-2). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: FS01 (880-46746-1). 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

Method 300 ORGFM 28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-87299 and analytical batch 880-87317 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.

Eurofins Midland

Matrix: Solid

Lab Sample ID: 880-46746-1

Client Sample Results

Client: Ensolum

Project/Site: Eider Federal 35

Job ID: 880-46746-1

SDG: Lea County NM

Client Sample ID: FS01

Date Collected: 07/30/24 12:10 Date Received: 07/31/24 14:31

Sample Depth: 18"

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		08/01/24 08:47	08/01/24 12:27	1
Toluene	<0.00201	U	0.00201	mg/Kg		08/01/24 08:47	08/01/24 12:27	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		08/01/24 08:47	08/01/24 12:27	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		08/01/24 08:47	08/01/24 12:27	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		08/01/24 08:47	08/01/24 12:27	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		08/01/24 08:47	08/01/24 12:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			08/01/24 08:47	08/01/24 12:27	1
1,4-Difluorobenzene (Surr)	117		70 - 130			08/01/24 08:47	08/01/24 12:27	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			08/01/24 12:27	1
Method: SW846 8015 NM - Diese Analyte		ics (DRO) (Qualifier	GC) RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			08/02/24 18:24	1
- Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte								
· • · · ·	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	Result <49.8			Unit mg/Kg	<u>D</u>	Prepared 08/01/24 07:20	Analyzed 08/02/24 18:24	
		U	RL		<u>D</u>	<u>.</u>		1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg	<u> </u>	08/01/24 07:20	08/02/24 18:24	1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.8 <49.8	U U	49.8 49.8	mg/Kg	<u>D</u>	08/01/24 07:20 08/01/24 07:20	08/02/24 18:24 08/02/24 18:24	1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	<49.8 <49.8 <49.8	U U	RL 49.8 49.8 49.8	mg/Kg	<u>D</u>	08/01/24 07:20 08/01/24 07:20 08/01/24 07:20	08/02/24 18:24 08/02/24 18:24 08/02/24 18:24	1 1 1 Dil Fac
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate	<49.8 <49.8 <49.8 <49.8 %Recovery 222	U U U Qualifier	49.8 49.8 49.8 <i>Limits</i>	mg/Kg	<u>D</u>	08/01/24 07:20 08/01/24 07:20 08/01/24 07:20 Prepared	08/02/24 18:24 08/02/24 18:24 08/02/24 18:24 Analyzed	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<49.8 <49.8 <49.8 <49.8 %Recovery 222 222	U U Qualifier S1+ S1+	RL 49.8 49.8 49.8 Limits 70 - 130 70 - 130	mg/Kg	<u>D</u>	08/01/24 07:20 08/01/24 07:20 08/01/24 07:20 Prepared 08/01/24 07:20	08/02/24 18:24 08/02/24 18:24 08/02/24 18:24 Analyzed 08/02/24 18:24	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<49.8 <49.8 <49.8 **Recovery 222 222 Chromatograp	U U Qualifier S1+ S1+	RL 49.8 49.8 49.8 Limits 70 - 130 70 - 130	mg/Kg	<u>D</u>	08/01/24 07:20 08/01/24 07:20 08/01/24 07:20 Prepared 08/01/24 07:20	08/02/24 18:24 08/02/24 18:24 08/02/24 18:24 Analyzed 08/02/24 18:24	Dil Face Dil Face Dil Face Dil Face

Client Sample ID: SW01

Date Collected: 07/30/24 12:15

Date Received: 07/31/24 14:31

Sample Depth: 18"

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/01/24 08:47	08/01/24 12:48	
Toluene	<0.00200	U	0.00200	mg/Kg		08/01/24 08:47	08/01/24 12:48	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/01/24 08:47	08/01/24 12:48	•
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		08/01/24 08:47	08/01/24 12:48	
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/01/24 08:47	08/01/24 12:48	•
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		08/01/24 08:47	08/01/24 12:48	,
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)			70 - 130			08/01/24 08:47	08/01/24 12:48	

Eurofins Midland

Matrix: Solid

Lab Sample ID: 880-46746-2

2

3

5

1

10

12

13

no midiana

Client Sample Results

Client: Ensolum

Project/Site: Eider Federal 35

Job ID: 880-46746-1

SDG: Lea County NM

Client Sample ID: SW01 Lab Sample ID: 880-46746-2

Date Collected: 07/30/24 12:15

Date Received: 07/31/24 14:31

Matrix: Solid

Sample Depth: 18"

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1,4-Difluorobenzene (Surr)	109		70 - 130			08/01/24 08:47	08/01/24 12:48	
Method: TAL SOP Total BTEX - 1	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00399	U	0.00399	mg/Kg			08/01/24 12:48	
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<49.7	U	49.7	mg/Kg			08/02/24 21:21	
Gasoline Range Organics (GRO)-C6-C10	<49.7		49.7	mg/Kg	=	08/01/24 07:20	08/02/24 21:21	Dil Fa
Analyte Gasoline Range Organics		Qualifier U	49.7	Unit mg/Kg	D	Prepared 08/01/24 07:20	Analyzed 08/02/24 21:21	Dil Fa
Diesel Range Organics (Over	<49.7	U	49.7	mg/Kg		08/01/24 07:20	08/02/24 21:21	
C10-C28)								
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		08/01/24 07:20	08/02/24 21:21	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	124		70 - 130			08/01/24 07:20	08/02/24 21:21	
o-Terphenyl	253	S1+	70 - 130			08/01/24 07:20	08/02/24 21:21	
	01	hu Calubi	0					
Method: EPA 300.0 - Anions, Ion	Chromatograp	niy - Solubi	-					
Method: EPA 300.0 - Anions, Ion Analyte	• •	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa

Surrogate Summary

Client: Ensolum Job ID: 880-46746-1 Project/Site: Eider Federal 35 SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Re
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-46746-1	FS01	105	117	
880-46746-2	SW01	101	109	
LCS 880-87238/1-A	Lab Control Sample	89	107	
LCSD 880-87238/2-A	Lab Control Sample Dup	94	106	
MB 880-87238/5-A	Method Blank	148 S1+	118	
Surrogate Legend				
BFB = 4-Bromofluorobe	nzene (Surr)			
DFBZ = 1,4-Difluoroben:	zene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-46746-1	FS01	222 S1+	222 S1+	
880-46746-2	SW01	124	253 S1+	
LCS 880-87225/2-A	Lab Control Sample	99	109	
LCSD 880-87225/3-A	Lab Control Sample Dup	123	108	
MB 880-87225/1-A	Method Blank	84	86	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Eurofins Midland

Job ID: 880-46746-1

SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-87238/5-A

Matrix: Solid

Client: Ensolum

Analysis Batch: 87227

Project/Site: Eider Federal 35

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 87238

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/01/24 08:47	08/01/24 11:38	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/01/24 08:47	08/01/24 11:38	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/01/24 08:47	08/01/24 11:38	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/01/24 08:47	08/01/24 11:38	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/01/24 08:47	08/01/24 11:38	1
Xvlenes. Total	< 0.00400	U	0.00400	mg/Kg		08/01/24 08:47	08/01/24 11:38	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepar	ed Ana	alyzed Dil	Fac
4-Bromofluorobenzene (Surr)	148	S1+	70 - 130	08/01/24	08:47 08/01/	/24 11:38	1
1,4-Difluorobenzene (Surr)	118		70 - 130	08/01/24	08:47 08/01/	/24 11:38	1

Lab Sample ID: LCS 880-87238/1-A

Matrix: Solid

Analysis Batch: 87227

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 87238

	Бріке	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1019		mg/Kg		102	70 - 130	
Toluene	0.100	0.09486		mg/Kg		95	70 - 130	
Ethylbenzene	0.100	0.08019		mg/Kg		80	70 - 130	
m-Xylene & p-Xylene	0.200	0.1865		mg/Kg		93	70 - 130	
o-Xylene	0.100	0.1068		mg/Kg		107	70 - 130	

LCS LCS

Surrogate	%Recovery Qua	alifier	Limits
4-Bromofluorobenzene (Surr)	89		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: LCSD 880-87238/2-A

Matrix: Solid

Analysis Batch: 87227

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 87238

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1138		mg/Kg		114	70 - 130	11	35
Toluene	0.100	0.1011		mg/Kg		101	70 - 130	6	35
Ethylbenzene	0.100	0.1105		mg/Kg		111	70 - 130	32	35
m-Xylene & p-Xylene	0.200	0.2014		mg/Kg		101	70 - 130	8	35
o-Xylene	0.100	0.1124		mg/Kg		112	70 - 130	5	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1.4-Difluorobenzene (Surr)	106		70 - 130

Eurofins Midland

QC Sample Results

Job ID: 880-46746-1 Client: Ensolum Project/Site: Eider Federal 35 SDG: Lea County NM

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

Lab Sample ID: MB 880-87225/1-A

Lab Sample ID: LCS 880-87225/2-A

Lab Sample ID: LCSD 880-87225/3-A

Matrix: Solid

Analysis Batch: 87292

Matrix: Solid

Analysis Batch: 87292 MD MD Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 87225

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		08/01/24 07:20	08/02/24 09:45	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		08/01/24 07:20	08/02/24 09:45	1
C10-C28)								
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/01/24 07:20	08/02/24 09:45	1
	MB	MB						

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130	08/01/24 07:20	08/02/24 09:45	1
o-Terphenyl	86		70 - 130	08/01/24 07:20	08/02/24 09:45	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 87225

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	1000	974.5		mg/Kg		97	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	977.6		mg/Kg		98	70 - 130	

LCS LCS

Surrogate 1-Chlorooctane	%Recovery Qualifier	Limits
1-Chlorooctane	99	70 - 130
o-Terphenyl	109	70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Matrix: Solid Analysis Batch: 87292

Spike LCSD LCSD %Rec Added Analyte Result Qualifier %Rec **RPD** Unit Limits Gasoline Range Organics 1000 983.7 mg/Kg 98 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 1000 977.0 mg/Kg 98 70 - 130 20

C10-C28)

LCSD LCSD

Surrogate	%Recovery Qua	alifier Limits
1-Chlorooctane	123	70 - 130
o-Terphenyl	108	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-87299/1-A Client Sample ID: Method Blank Matrix: Solid

Analysis Batch: 87317

	IIID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			08/04/24 04:11	1

Eurofins Midland

Prep Batch: 87225 RPD

Limit 20

QC Sample Results

Client: Ensolum Job ID: 880-46746-1 Project/Site: Eider Federal 35 SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-87299/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble** Analysis Batch: 87317

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	227.8		mg/Kg		91	90 - 110	

Lab Sample ID: LCSD 880-87299/3-A **Client Sample ID: Lab Control Sample Dup Matrix: Solid Prep Type: Soluble Analysis Batch: 87317**

Spike LCSD LCSD %Rec RPD Limit Added Result Qualifier Limits RPD Analyte Unit D %Rec Chloride 250 230.5 mg/Kg 92 90 - 110

QC Association Summary

Client: Ensolum

Project/Site: Eider Federal 35

Job ID: 880-46746-1 SDG: Lea County NM

GC VOA

Analysis Batch: 87227

Lab Sample ID 880-46746-1	Client Sample ID FS01	Prep Type Total/NA	Matrix Solid	Method 8021B	Prep Batch 87238
880-46746-2	SW01	Total/NA	Solid	8021B	87238
MB 880-87238/5-A	Method Blank	Total/NA	Solid	8021B	87238
LCS 880-87238/1-A	Lab Control Sample	Total/NA	Solid	8021B	87238
LCSD 880-87238/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	87238

Prep Batch: 87238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Bato
880-46746-1	FS01	Total/NA	Solid	5035	
880-46746-2	SW01	Total/NA	Solid	5035	
MB 880-87238/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-87238/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-87238/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 87324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46746-1	FS01	Total/NA	Solid	Total BTEX	
880-46746-2	SW01	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 87225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46746-1	FS01	Total/NA	Solid	8015NM Prep	
880-46746-2	SW01	Total/NA	Solid	8015NM Prep	
MB 880-87225/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-87225/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-87225/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 87292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46746-1	FS01	Total/NA	Solid	8015B NM	87225
880-46746-2	SW01	Total/NA	Solid	8015B NM	87225
MB 880-87225/1-A	Method Blank	Total/NA	Solid	8015B NM	87225
LCS 880-87225/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	87225
LCSD 880-87225/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	87225

Analysis Batch: 87573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46746-1	FS01	Total/NA	Solid	8015 NM	
880-46746-2	SW01	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 87299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46746-1	FS01	Soluble	Solid	DI Leach	
880-46746-2	SW01	Soluble	Solid	DI Leach	
MB 880-87299/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-87299/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-87299/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Eurofins Midland

2

3

4

6

8

10

12

14

QC Association Summary

Client: Ensolum Job ID: 880-46746-1 Project/Site: Eider Federal 35 SDG: Lea County NM

HPLC/IC

Analysis Batch: 87317

L	ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
8	80-46746-1	FS01	Soluble	Solid	300.0	87299
8	80-46746-2	SW01	Soluble	Solid	300.0	87299
M	IB 880-87299/1-A	Method Blank	Soluble	Solid	300.0	87299
L	CS 880-87299/2-A	Lab Control Sample	Soluble	Solid	300.0	87299
L	CSD 880-87299/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	87299

Eurofins Midland

Job ID: 880-46746-1

Client: Ensolum Project/Site: Eider Federal 35 SDG: Lea County NM

Lab Sample ID: 880-46746-1

Matrix: Solid

Client Sample ID: FS01 Date Collected: 07/30/24 12:10 Date Received: 07/31/24 14:31

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			87238	MNR	EET MID	08/01/24 08:47
Total/NA	Analysis	8021B		1	87227	MNR	EET MID	08/01/24 12:27
Total/NA	Analysis	Total BTEX		1	87324	MNR	EET MID	08/01/24 12:27
Total/NA	Analysis	8015 NM		1	87573	SM	EET MID	08/02/24 18:24
Total/NA	Prep	8015NM Prep			87225	EL	EET MID	08/01/24 07:20
Total/NA	Analysis	8015B NM		1	87292	TKC	EET MID	08/02/24 18:24
Soluble	Leach	DI Leach			87299	SA	EET MID	08/01/24 13:44
Soluble	Analysis	300.0		1	87317	CH	EET MID	08/04/24 05:13

Lab Sample ID: 880-46746-2 **Client Sample ID: SW01**

Date Collected: 07/30/24 12:15 **Matrix: Solid** Date Received: 07/31/24 14:31

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor **Number Analyst** Lab or Analyzed 5035 08/01/24 08:47 Total/NA Prep 87238 MNR EET MID 8021B Total/NA 87227 MNR 08/01/24 12:48 Analysis 1 EET MID Total/NA Total BTEX 87324 MNR 08/01/24 12:48 Analysis 1 **EET MID** Total/NA Analysis 8015 NM 87573 SM **EET MID** 08/02/24 21:21 Total/NA 87225 EL 08/01/24 07:20 Prep 8015NM Prep **EET MID** Total/NA Analysis 8015B NM 87292 TKC **EET MID** 08/02/24 21:21 08/01/24 13:44 Soluble **EET MID** Leach DI Leach 87299 SA Soluble Analysis 300.0 87317 CH **EET MID** 08/04/24 05:22

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum Job ID: 880-46746-1 Project/Site: Eider Federal 35 SDG: Lea County NM

Laboratory: Eurofins Midland

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

Authority	Progra	am	Identification Number	Expiration Date
Texas	NELA	Р	T104704400	06-30-25
0 ,	are included in this report, bu	it the laboratory is not certif	fied by the governing authority. This lis	t may include analytes
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	
Total BTEX		Solid	Total BTEX	

Method Summary

Client: Ensolum

Project/Site: Eider Federal 35

Job ID: 880-46746-1

SDG: Lea County NM

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: Eider Federal 35

Job ID: 880-46746-1

SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-46746-1	FS01	Solid	07/30/24 12:10	07/31/24 14:31	18"
880-46746-2	SW01	Solid	07/30/24 12:15	07/31/24 14:31	18"

		eurofins
Xenco	Environment Testing	

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Chain of Custody

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

880-46746 Chain of Custody

		101				
	4	10101	7	The state of	1	The same
are) Received by: (Signature) Date/Time	Relinquished by: (Signature)	Date/Time	mature)	Redeixed by (Signature)	(Signature)	Relinquished by: (Signature)
	of Euroms Xenco. A minimum charge of \$85,00 will be applied to each project and a charge of \$5 for each sample submitted to Euroms Xenco, but not analyzed. I nese terms will be emorced unless previously negociated	to Euromis Xenco, but not a	ge of \$5 for each sample submitted	lied to each project and a chai	m charge of \$85.00 will be appl	oms Xenco. A minimu
ns and conditions youd the control	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	Eurofins Xenco, its affiliates a penses incurred by the clien	hase order from client company to ny responsibility for any losses or ex	amples constitutes a valid pure amples and shall not assume a	ument and relinquishment of sa III be liable only for the cost of s	:: Signature of this doc Ace. Eurofins Xenco w
Ag TI U Hg: 1631/245.1/7470/74:	o Cu F	Sb As Ba Be Cd	LP / SPLP 6010 : 8RCRA		nd Me	le Method(s)
Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO, Na Sr Tl Sn U V Zn	Cd Ca Cr Co Cu Fe Pb Mg	As Ba Be B	13PPM Texas 11 Al Sb	8RCRA	0 200.8 / 6020:	Total 200.7 / 6010
		X	2 8 C	7/70/14 [2	S	lans
		XXX	5 281 0	7/30/24 12	5	(0)
Sample Comments	('M	Cont BT	Depth Grab/	Date Time Sampled Sampled	fication Matrix	Sample Identification
NaOH+Ascorbic Acid: SAPC	DV.V.	+ X	ture: 5.5	Corrected Temperature:		Total Containers:
Zn Acetate+NaOH: Zn		80	るい。	Temperature Reading:	Yes No N/A	Sample Custody Seals:
Na ₂ S ₂ O ₃ : NaSO ₃	7	72	1.0,	Correction Factor:	Yes NO N/A	Cooler Custody Seals:
NaHSO 4: NABIS		M M	871	The mometer ID:		Samples Received Intact:
H₃PO₄: HP		eters	Yes No	Ye No Wetke:	Temp Blank:	SAMPLE RECEIPT
12		3		7	2	PO #:
			TAT starts the day received by		Noun Dylcer	Sampler's Name:
Cool: Cool MeOH: Me				MM Due Date:	Len Cours,	Project Location:
None		Pres.	Rush	A ARoutine	07/202428	Project Number:
EST Preservative Codes	ANALYSIS REQUEST		Turn Around	21 35	Eiller Federal	Project Name:
peliverables: EDD ADaPT Other:	d MC innis O Pusaum, 10	Ensolum, Com/	Email: 19 green O CI	5	432-557-884	Phone:
Reporting: Level III Level III PST/UST TRRP Level IV			City, State ZIP:	701	Midliona, Tx,	City, State ZIP:
State of Project:			H. HORAddress:	Mosphateld St. St.	GOL N MOGI	Address:
Program: UST/PST PRP Brownfields RRC Superfund			Company Name:	77	EUSDIOM, LL	Company Name:
Work Order Comments			Bill to: (if different)		Manil Presi	Project Manager:

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-46746-1

SDG Number: Lea County NM

SDG Number: Lea County NM
List Source: Eurofins Midland

Login Number: 46746 List Number: 1

Creator: Kramer, Jessica

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

_

Δ

5

10

12

IR

14



APPENDIX B

Photographic Log



Photographic Log

COG Operating, LLC Eider Federal 35 nAPP2418343772





Photograph: 1

Date: 11/27/2024

Photograph: 2 Date: 11/27/2024

Description: Backfilled excavation

View: South

Description: Backfilled excavation

View: Northeast





Photograph: 3

Date: 11/27/2024

Photograph: 4

Date: 11/27/2024

Description: Backfilled excavation

View: North

Description: Backfilled excavation

View: Northwest



APPENDIX C

Laboratory Analytical Report & Chain of Custody Documentation

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green Ensolum 601 N. Marienfeld St. Suite 400

Midland, Texas 79701

Generated 12/6/2024 8:55:15 AM

JOB DESCRIPTION

EIDER FEDERAL 35 03D2024281

JOB NUMBER

890-7425-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

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

Authorization

Generated 12/6/2024 8:55:15 AM

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

Laboratory Job ID: 890-7425-1

Project/Site: EIDER FEDERAL 35

SDG: 03D2024281

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	7
QC Sample Results	8
QC Association Summary	12
Lab Chronicle	14
Certification Summary	15
Method Summary	16
Sample Summary	17
Chain of Custody	18
Receint Checklists	19

2

3

4

6

8

10

13

14

Definitions/Glossary

Job ID: 890-7425-1 Client: Ensolum Project/Site: EIDER FEDERAL 35

SDG: 03D2024281

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

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

HPLC/IC

Qualifier **Qualifier Description**

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 he	nresent in this report
ADDIEVIALIOII	THESE COMMINION	useu abbievialions ma	y Oi illay	HOLDE	present in this report.

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

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

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

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

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

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

TNTC Too Numerous To Count

Eurofins Carlsbad

Case Narrative

Client: Ensolum Job ID: 890-7425-1

Project: EIDER FEDERAL 35

Job ID: 890-7425-1 Eurofins Carlsbad

Job Narrative 890-7425-1

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 sample was received on 11/27/2024 12:29 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 6.0°C.

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: BF 01 (890-7425-1).

GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-96841 recovered above the upper control limit for o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-96841/20).

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

Diesel Range Organics

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-96831/2-A) and (LCSD 880-96831/3-A). Evidence of matrix interferences is not obvious.

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

HPLC/IC

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-96899 and analytical batch 880-96958 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 Carlsbad

3

5

7

8

1 N

12

13

ь

Date Received: 11/27/24 12:29

Client: Ensolum Job ID: 890-7425-1 Project/Site: EIDER FEDERAL 35 SDG: 03D2024281

Client Sample ID: BF 01 Lab Sample ID: 890-7425-1 Date Collected: 11/27/24 08:33

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/02/24 08:36	12/02/24 18:52	1
Toluene	< 0.00199	U	0.00199	mg/Kg		12/02/24 08:36	12/02/24 18:52	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		12/02/24 08:36	12/02/24 18:52	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		12/02/24 08:36	12/02/24 18:52	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		12/02/24 08:36	12/02/24 18:52	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/02/24 08:36	12/02/24 18:52	,
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130			12/02/24 08:36	12/02/24 18:52	1
1,4-Difluorobenzene (Surr)	100		70 - 130			12/02/24 08:36	12/02/24 18:52	1
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation						
					_		A ll	Dil Fac
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	DIIFac
Analyte Total BTEX	Result < 0.00398		0.00398 —	mg/Kg	— -	Prepared	12/02/24 18:52	Dii Fac
Total BTEX	<0.00398	U	0.00398			Prepared		
<u> </u>	<0.00398	U	0.00398		D	Prepared		
Total BTEX Method: SW846 8015 NM - Dies	<0.00398	ics (DRO) (Qualifier	0.00398 GC)	mg/Kg			12/02/24 18:52	
Total BTEX Method: SW846 8015 NM - Dies Analyte	<0.00398 sel Range Organ Result <50.0	ics (DRO) (Qualifier	0.00398 GC) RL 50.0	mg/Kg			12/02/24 18:52 Analyzed	
Total BTEX Method: SW846 8015 NM - Dies Analyte Total TPH	<0.00398 sel Range Organ Result <50.0 sesel Range Organ	ics (DRO) (Qualifier	0.00398 GC) RL 50.0	mg/Kg			12/02/24 18:52 Analyzed	
Total BTEX Method: SW846 8015 NM - Dies Analyte Total TPH Method: SW846 8015B NM - Die	<0.00398 sel Range Organ Result <50.0 sesel Range Organ	ics (DRO) (Qualifier Unics (DRO) Qualifier	0.00398 GC) RL 50.0 (GC)	mg/Kg Unit mg/Kg	<u>D</u>	Prepared	12/02/24 18:52 Analyzed 12/02/24 17:25	Dil Fac
Total BTEX Method: SW846 8015 NM - Dies Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	<0.00398 sel Range Organ Result <50.0 sesel Range Orga Result <50.0	ics (DRO) (Qualifier U nics (DRO) Qualifier U	0.00398 GC) RL 50.0 (GC) RL	mg/Kg Unit mg/Kg Unit	<u>D</u>	Prepared Prepared	12/02/24 18:52 Analyzed 12/02/24 17:25 Analyzed 12/02/24 17:25	Dil Fac
Total BTEX Method: SW846 8015 NM - Dies Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<0.00398 eel Range Organ Result <50.0 esel Range Orga Result Result	ics (DRO) (Qualifier U nics (DRO) Qualifier U	0.00398 GC) RL 50.0 (GC) RL	mg/Kg Unit mg/Kg Unit	<u>D</u>	Prepared Prepared	12/02/24 18:52 Analyzed 12/02/24 17:25 Analyzed	Dil Fac
Total BTEX Method: SW846 8015 NM - Dies Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<0.00398 sel Range Organ	ics (DRO) (Qualifier U nics (DRO) Qualifier U U U U U	0.00398 RL 50.0 (GC) RL 50.0 50.0	mg/Kg Unit mg/Kg Unit mg/Kg mg/Kg	<u>D</u>	Prepared Prepared 12/02/24 07:54 12/02/24 07:54	Analyzed 12/02/24 17:25 Analyzed 12/02/24 17:25 Analyzed 12/02/24 17:25	Dil Fa
Method: SW846 8015 NM - Dies Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<0.00398 sel Range Organ Result <50.0 sesel Range Orga Result <50.0	ics (DRO) (Qualifier U nics (DRO) Qualifier U U U U U	0.00398 RL 50.0 (GC) RL 50.0	mg/Kg Unit mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared 12/02/24 07:54	12/02/24 18:52 Analyzed 12/02/24 17:25 Analyzed 12/02/24 17:25	Dil Fa
Total BTEX Method: SW846 8015 NM - Dies Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate	<0.00398 sel Range Organ Result <50.0 esel Range Orga Result <50.0 <50.0 <50.0 <50.0 %Recovery	ics (DRO) (Qualifier U nics (DRO) Qualifier U U U U	0.00398 RL 50.0 RL 50.0 50.0 Limits	mg/Kg Unit mg/Kg Unit mg/Kg mg/Kg	<u>D</u>	Prepared 12/02/24 07:54 12/02/24 07:54 12/02/24 07:54 Prepared	Analyzed 12/02/24 17:25 Analyzed 12/02/24 17:25 12/02/24 17:25 12/02/24 17:25 Analyzed	Dil Fac
Method: SW846 8015 NM - Dies Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	<0.00398 sel Range Organ	ics (DRO) (Qualifier U nics (DRO) Qualifier U U U U	0.00398 RL 50.0 RL 50.0 S0.0 50.0	mg/Kg Unit mg/Kg Unit mg/Kg mg/Kg	<u>D</u>	Prepared Prepared 12/02/24 07:54 12/02/24 07:54	Analyzed 12/02/24 17:25 Analyzed 12/02/24 17:25 12/02/24 17:25 12/02/24 17:25	Dil Fa

9.98

159

mg/Kg

12/06/24 04:13

Chloride

Surrogate Summary

Client: Ensolum Job ID: 890-7425-1 Project/Site: EIDER FEDERAL 35 SDG: 03D2024281

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)
	DFBZ1	
ample ID	(70-130)	
425-1	100	
428-A-61-A MS	101	
428-A-61-B MSD	98	
880-96835/1-A	99	
880-96835/2-A	100	
30-96835/5-A	95	
ırrogate Legend		
urrogate Legend -B = 4-Bromofluorobenzer		
Client Sample II BF 01 Matrix Spike Matrix Spike Du Lab Control San Lab Control San Method Blank		70-130) 100 101 98 99 100

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-7423-A-10-C MS	Matrix Spike	100	92	
890-7423-A-10-D MSD	Matrix Spike Duplicate	99	89	
890-7425-1	BF 01	87	91	
LCS 880-96831/2-A	Lab Control Sample	147 S1+	135 S1+	
LCSD 880-96831/3-A	Lab Control Sample Dup	147 S1+	135 S1+	
MB 880-96831/1-A	Method Blank	78	82	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Eurofins Carlsbad

Client: Ensolum Project/Site: EIDER FEDERAL 35

Job ID: 890-7425-1

SDG: 03D2024281

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-96835/5-A

Matrix: Solid Analysis Batch: 96841

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

Prep Batch: 96835

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/02/24 08:36	12/02/24 12:08	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/02/24 08:36	12/02/24 12:08	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/02/24 08:36	12/02/24 12:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/02/24 08:36	12/02/24 12:08	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/02/24 08:36	12/02/24 12:08	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/02/24 08:36	12/02/24 12:08	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	12/02/24 08:	36 12/02/24 12:08	1
1,4-Difluorobenzene (Surr)	95		70 - 130	12/02/24 08:	36 12/02/24 12:08	1

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 880-96835/1-A **Matrix: Solid** Prep Type: Total/NA Prep Batch: 96835 Analysis Batch: 96841

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1083 mg/Kg 108 70 - 130 Toluene 0.100 0.1066 mg/Kg 107 70 - 130 0.100 Ethylbenzene 0.1158 mg/Kg 116 70 - 130 70 - 130 0.200 m-Xylene & p-Xylene 0.2290 mg/Kg 114 0.100 70 - 130 o-Xylene 0.1280 mg/Kg 128

LCS LCS

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

Lab Sample ID: LCSD 880-96835/2-A **Client Sample ID: Lab Control Sample Dup**

Matrix: Solid

Analysis Batch: 96841

	Spike	LCSD LCSD				%Rec		RPD	
Analyte	Added	Result Qualifie	er Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1103	mg/Kg		110	70 - 130	2	35	
Toluene	0.100	0.1079	mg/Kg		108	70 - 130	1	35	
Ethylbenzene	0.100	0.1154	mg/Kg		115	70 - 130	0	35	
m-Xylene & p-Xylene	0.200	0.2285	mg/Kg		114	70 - 130	0	35	
o-Xvlene	0.100	0.1275	ma/Ka		127	70 130	0	35	

LCSD LCSD

<0.00199 U

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1.4-Difluorobenzene (Surr)	100		70 ₋ 130

Lab Sample ID: 890-7428-A-61-A MS

Toluene

Matrix: Solid									Prep	Type: Total/NA
Analysis Batch: 96841									Pre	Batch: 96835
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.100	0.1089		mg/Kg		109	70 - 130	

0.1071

mg/Kg

Eurofins Carlsbad

Client Sample ID: Matrix Spike

70 - 130

107

Prep Type: Total/NA

Prep Batch: 96835

0.100

Client: Ensolum

Project/Site: EIDER FEDERAL 35

Job ID: 890-7425-1

SDG: 03D2024281

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

Lab Sample ID: 890-7428-A-61-A MS

Lab Sample ID: 890-7428-A-61-B MSD

Matrix: Solid

Analysis Batch: 96841

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 96835

	Sample	Sample	Spike	IVIS	IVIS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Ethylbenzene	<0.00199	U	0.100	0.1136		mg/Kg		113	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.200	0.2271		mg/Kg		113	70 - 130
o-Xylene	<0.00199	U	0.100	0.1255		mg/Kg		125	70 - 130

MS MS

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

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 96835

Matrix: Solid Analysis Batch: 96841

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U	0.0994	0.1048		mg/Kg		105	70 - 130	4	35
Toluene	<0.00199	U	0.0994	0.1045		mg/Kg		105	70 - 130	2	35
Ethylbenzene	<0.00199	U	0.0994	0.1113		mg/Kg		112	70 - 130	2	35
m-Xylene & p-Xylene	<0.00398	U	0.199	0.2221		mg/Kg		112	70 - 130	2	35
o-Xylene	<0.00199	U	0.0994	0.1231		mg/Kg		124	70 - 130	2	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

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

Lab Sample ID: MB 880-96831/1-A

Matrix: Solid

Analysis Batch: 96862

Client Sample	ID: Method Blai	nk
Pr	en Tyne: Total/N	JΔ

Prep Batch: 96831

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/02/24 07:54	12/02/24 10:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/02/24 07:54	12/02/24 10:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/02/24 07:54	12/02/24 10:08	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130	12/02/24 07:54	12/02/24 10:08	1
o-Terphenyl	82		70 - 130	12/02/24 07:54	12/02/24 10:08	1

Lab Sample ID: LCS 880-96831/2-A

Matrix: Solid

Analysis Batch: 96862

Client Sample	ID: Lab	Control Sample	
	_		

Prep Type: Total/NA Prep Batch: 96831

-	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1214		mg/Kg		121	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1187		mg/Kg		119	70 - 130	
C10-C28)								

Eurofins Carlsbad

Job ID: 890-7425-1 Client: Ensolum Project/Site: EIDER FEDERAL 35 SDG: 03D2024281

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

Lab Sample ID: LCS 880-96831/2-A Client Sample ID: Lab Control Sample

Matrix: Solid Prep Type: Total/NA Analysis Batch: 96862 Prep Batch: 96831

LCS LCS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 147 S1+ 70 - 130 o-Terphenyl 135 S1+ 70 - 130

Lab Sample ID: LCSD 880-96831/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Total/NA Analysis Batch: 96862 Prep Batch: 96831

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 1231 123 70 - 13020 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1196 120 mg/Kg 70 - 13020 C10-C28)

LCSD LCSD Surrogate %Recovery Qualifier Limits 147 S1+ 70 - 130 1-Chlorooctane 135 S1+ 70 - 130 o-Terphenyl

Lab Sample ID: 890-7423-A-10-C MS Client Sample ID: Matrix Spike

Matrix: Solid Prep Type: Total/NA Analysis Batch: 96862 Prep Batch: 96831

Sample Sample MS MS Spike

Added Analyte Result Qualifier Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.8 U 994 906.3 mg/Kg 91 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.8 U 994 884.3 mg/Kg 89 70 - 130 C10-C28)

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

92

Lab Sample ID: 890-7423-A-10-D MSD Client Sample ID: Matrix Spike Duplicate

70 - 130

Matrix: Solid Prep Type: Total/NA

Analysis Batch: 96862 Prep Batch: 96831 Camania Camania Cmile.

	Sample	Sample	Бріке	M2D	M2D				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	994	910.7		mg/Kg		92	70 - 130	0	20	
Diesel Range Organics (Over C10-C28)	<49.8	U	994	855.0		mg/Kg		86	70 - 130	3	20	

MSD MSD Qualifier %Recovery Surrogate Limits 1-Chlorooctane 99 70 - 130 89 70 - 130 o-Terphenyl

Eurofins Carlsbad

o-Terphenyl

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

QC Sample Results

Client: Ensolum Job ID: 890-7425-1
Project/Site: EIDER FEDERAL 35 SDG: 03D2024281

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-96899/1-A

Matrix: Solid

Analysis Batch: 96958

MB MB

 Analyte
 Result
 Qualifier
 RL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 Chloride
 <10.0</td>
 U
 10.0
 mg/Kg
 12/06/24 03:32
 1

Lab Sample ID: LCS 880-96899/2-A

Matrix: Solid

Analysis Batch: 96958

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 251.2 mg/Kg 100 90 - 110

Lab Sample ID: LCSD 880-96899/3-A

Matrix: Solid

Analysis Batch: 96958

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 270.6 108 mg/Kg 90 - 110

Lab Sample ID: 890-7424-A-21-D MS

Matrix: Solid

Analysis Batch: 96958

Spike MS MS Sample Sample %Rec Analyte Result Qualifier Added Result Qualifier %Rec Unit Limits 878.3 F1 Chloride 500 F1 252 150 90 - 110 mg/Kg

Lab Sample ID: 890-7424-A-21-E MSD

Matrix: Solid

Analysis Batch: 96958

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 500 F1 252 811.3 F1 mg/Kg 123 90 - 110 8 20

Eurofins Carlsbad

2

5

7

8

10

11

13

14

QC Association Summary

Client: Ensolum Job ID: 890-7425-1
Project/Site: EIDER FEDERAL 35 SDG: 03D2024281

GC VOA

Prep Batch: 96835

Lab Sample ID 890-7425-1	Client Sample ID BF 01	Prep Type Total/NA	Matrix Solid	Method 5035	Prep Batch
MB 880-96835/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-96835/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-96835/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7428-A-61-A MS	Matrix Spike	Total/NA	Solid	5035	
890-7428-A-61-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 96841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7425-1	BF 01	Total/NA	Solid	8021B	96835
MB 880-96835/5-A	Method Blank	Total/NA	Solid	8021B	96835
LCS 880-96835/1-A	Lab Control Sample	Total/NA	Solid	8021B	96835
LCSD 880-96835/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	96835
890-7428-A-61-A MS	Matrix Spike	Total/NA	Solid	8021B	96835
890-7428-A-61-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	96835

Analysis Batch: 96978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7425-1	BF 01	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 96831

Lab Sample ID 890-7425-1	Client Sample ID BF 01	Prep Type Total/NA	Matrix Solid	Method 8015NM Prep	Prep Batch
MB 880-96831/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-96831/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-96831/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7423-A-10-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-7423-A-10-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 96862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7425-1	BF 01	Total/NA	Solid	8015B NM	96831
MB 880-96831/1-A	Method Blank	Total/NA	Solid	8015B NM	96831
LCS 880-96831/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	96831
LCSD 880-96831/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	96831
890-7423-A-10-C MS	Matrix Spike	Total/NA	Solid	8015B NM	96831
890-7423-A-10-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	96831

Analysis Batch: 96996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7425-1	BF 01	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 96899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7425-1	BF 01	Soluble	Solid	DI Leach	
MB 880-96899/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-96899/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-96899/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Eurofins Carlsbad

Page 12 of 20

QC Association Summary

Client: Ensolum Job ID: 890-7425-1
Project/Site: EIDER FEDERAL 35 SDG: 03D2024281

HPLC/IC (Continued)

Leach Batch: 96899 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7424-A-21-D MS	Matrix Spike	Soluble	Solid	DI Leach	
890-7424-A-21-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 96958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7425-1	BF 01	Soluble	Solid	300.0	96899
MB 880-96899/1-A	Method Blank	Soluble	Solid	300.0	96899
LCS 880-96899/2-A	Lab Control Sample	Soluble	Solid	300.0	96899
LCSD 880-96899/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	96899
890-7424-A-21-D MS	Matrix Spike	Soluble	Solid	300.0	96899
890-7424-A-21-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	96899

-

7

8

9

11

13

14

Lab Chronicle

Client: Ensolum Job ID: 890-7425-1
Project/Site: EIDER FEDERAL 35 SDG: 03D2024281

Client Sample ID: BF 01 Lab Sample ID: 890-7425-1

Date Collected: 11/27/24 08:33

Date Received: 11/27/24 12:29

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	96835	12/02/24 08:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96841	12/02/24 18:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			96978	12/02/24 18:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			96996	12/02/24 17:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	96831	12/02/24 07:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96862	12/02/24 17:25	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	96899	12/02/24 16:13	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	96958	12/06/24 04:13	CH	EET MID

Laboratory References:

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

Eurofins Carlsbad

2

3

4

6

8

9

1 1

14

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-7425-1
Project/Site: EIDER FEDERAL 35 SDG: 03D2024281

Laboratory: Eurofins Midland

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

Authority	Progra	am	Identification Number	Expiration Date
Texas	NELA	Р	T104704400	06-30-25
,	are included in this report, bu	it the laboratory is not certi	fied by the governing authority. This lis	t may include analytes
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	
Total BTEX		Solid	Total BTEX	

10

40

13

14

Method Summary

Client: Ensolum

Method

8021B

Total BTEX

8015 NM

8015B NM

8015NM Prep

DI Leach

300.0

5035

Project/Site: EIDER FEDERAL 35

Job ID: 890-7425-1 SDG: 03D2024281

EET MID

Method Description Protocol Laboratory Volatile Organic Compounds (GC) SW846 EET MID **Total BTEX Calculation** TAL SOP EET MID Diesel Range Organics (DRO) (GC) SW846 **EET MID** Diesel Range Organics (DRO) (GC) SW846 **EET MID** Anions, Ion Chromatography EPA **EET MID EET MID** Closed System Purge and Trap SW846 SW846 EET MID

ASTM

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

Microextraction

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Deionized Water Leaching Procedure

Laboratory References:

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

Eurofins Carlsbad

Sample Summary

Client: Ensolum

Project/Site: EIDER FEDERAL 35

Job ID: 890-7425-1

SDG: 03D2024281

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-7425-1	BF 01	Solid	11/27/24 08:33	11/27/24 12:29

12/6/2024

13 14

Date/Time

MeOH: Me HNO₃: HN NaOH: Na

DI Water: H₂O

Level IV

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-7425-1 SDG Number: 03D2024281

Login Number: 7425 List Source: Eurofins Carlsbad

List Number: 1

Creator: Bruns, Shannon

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

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-7425-1 SDG Number: 03D2024281

List Source: Eurofins Midland

List Number: 2 List Creation: 12/02/24 08:24 AM

Creator: Vasquez, Julisa

Login Number: 7425

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	

Eurofins Carlsbad

Sante Fe Main Office Phone: (505) 476-3441 General Information Phone: (505) 629-6116

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

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

QUESTIONS

Action 417918

QUESTIONS

Operator:	OGRID:
COG PRODUCTION, LLC	217955
600 W. Illinois Ave	Action Number:
Midland, TX 79701	417918
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites		
Incident ID (n#)	nAPP2418343772	
Incident Name	NAPP2418343772 EIDER FEDERAL 35 @ 0	
Incident Type	Other	
Incident Status	Reclamation Report Received	
Incident Facility	[fAPP2132634113] EIDER FED 35 BATTERY	

Location of Release Source		
Please answer all the questions in this group.		
Site Name	Eider Federal 35	
Date Release Discovered	06/07/2024	
Surface Owner	Federal	

Incident Details		
Please answer all the questions in this group.		
Incident Type	Other	
Did this release result in a fire or is the result of a fire	No	
Did this release result in any injuries	No	
Has this release reached or does it have a reasonable probability of reaching a watercourse	No	
Has this release endangered or does it have a reasonable probability of endangering public health	No	
Has this release substantially damaged or will it substantially damage property or the environment	No	
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No	

Nature and Volume of Release				
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.				
Crude Oil Released (bbls) Details	Not answered.			
Produced Water Released (bbls) Details	Not answered.			
Is the concentration of chloride in the produced water >10,000 mg/l	No			
Condensate Released (bbls) Details	Cause: Corrosion Flow Line - Production Condensate Released: 0 BBL Recovered: 0 BBL Lost: 0 BBL.			
Natural Gas Vented (Mcf) Details	Not answered.			
Natural Gas Flared (Mcf) Details	Not answered.			
Other Released Details	Not answered.			
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.			

General Information Phone: (505) 629-6116

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

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

QUESTIONS, Page 2

Action 417918

QUESTIONS	(continued)
-----------	-------------

Operator:	OGRID: 217955		
COG PRODUCTION, LLC 600 W. Illinois Ave	Action Number:		
Midland, TX 79701	417918		
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)		
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	Unavailable.		
Reasons why this would be considered a submission for a notification of a major release	Unavailable.		
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	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 s	afety 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.		
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative o ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.		
to report and/or file certain release notifications and perform corrective actions for releating the OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or		
I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 07/01/2024		

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

Phone: (505) 629-6116

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

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

QUESTIONS, Page 3

Action 417918

QUESTIONS (continued)

Operator:	OGRID:
COG PRODUCTION, LLC	217955
600 W. Illinois Ave	Action Number:
Midland, TX 79701	417918
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approva release discovery date.	l and beyond). This information must be provided to the appropriate district office no later than 90 days after the
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	U.S. Geological Survey
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release ar	nd the following surface areas:
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	None
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		
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.		
Requesting a remediation	plan approval with this submission	Yes
Attach a comprehensive report der	monstrating the lateral and vertical extents of soil contamination	n associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Have the lateral and vertica	l extents of contamination been fully delineated	Yes
Was this release entirely co	ontained within a lined containment area	No
Soil Contamination Sampling	: (Provide the highest observable value for each, in m	illigrams per kilograms.)
Chloride	(EPA 300.0 or SM4500 CI B)	0
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	0
GRO+DRO	(EPA SW-846 Method 8015M)	0
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0
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.		
On what estimated date will	Il the remediation commence	07/12/2024
On what date will (or did) the	ne final sampling or liner inspection occur	07/12/2024
On what date will (or was) t	the remediation complete(d)	07/12/2024
What is the estimated surfa	ace area (in square feet) that will be reclaimed	0
What is the estimated volur	me (in cubic yards) that will be reclaimed	0
What is the estimated surfa	ice area (in square feet) that will be remediated	10762
What is the estimated volur	me (in cubic yards) that will be remediated	0
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.		

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.

Released to Imaging: 4/29/2025 3:00:44 PM

General Information Phone: (505) 629-6116

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

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

QUESTIONS, Page 4

Action 417918

QUESTIONS (continued)

Operator:	OGRID:
COG PRODUCTION, LLC	217955
600 W. Illinois Ave	Action Number:
Midland, TX 79701	417918
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

4	
Remediation Plan (continued)	
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.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(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	EIDER FED 35 BATTERY [fAPP2132634113]
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	No
OR is the off-site disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No

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 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.

Name: Brittany Esparza
Title: Environmental Technician
Email: brittany.Esparza@ConocoPhillips.com
Date: 08/22/2024

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.

General Information Phone: (505) 629-6116

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

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

QUESTIONS, Page 5

Action 417918

QUESTIONS (continued)

Operator:	OGRID:
COG PRODUCTION, LLC	217955
600 W. Illinois Ave	Action Number:
Midland, TX 79701	417918
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

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

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

Phone: (505) 629-6116

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

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

QUESTIONS, Page 6

Action 417918

QUESTIONS (continued)

Operator:	OGRID:
COG PRODUCTION, LLC	217955
600 W. Illinois Ave	Action Number:
Midland, TX 79701	417918
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	366991
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/30/2024
What was the (estimated) number of samples that were to be gathered	5
What was the sampling surface area in square feet	21

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	35
What was the total volume (cubic yards) remediated	1.3
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	35
What was the total volume (in cubic yards) reclaimed	1.3
Summarize any additional remediation activities not included by answers (above)	Initial response efforts, excavation of impacted soil, and remediation activities have mitigated impacts at this Site. Depth to groundwater has been estimated to be greater than 100 feet bgs and no other sensitive receptors were identified near the release extent.

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement

I hereby agree and sign off to the above statement

I hereby agree and sign off to the above statement

Title: Environmental Technician

Email: brittany.Esparza@ConocoPhillips.com

Date: 08/22/2024

General Information Phone: (505) 629-6116

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

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

QUESTIONS, Page 7

Action 417918

QUESTIONS (continued)

Operator:	OGRID:	
COG PRODUCTION, LLC	217955	
600 W. Illinois Ave	Action Number:	
Midland, TX 79701	417918	
	Action Type:	
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)	
QUESTIONS		
Reclamation Report		
Only answer the questions in this group if all reclamation steps have been completed.		
Requesting a reclamation approval with this submission	Yes	
What was the total reclamation surface area (in square feet) for this site	35	
What was the total volume of replacement material (in cubic yards) for this site	1.3	
	of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes	
On what (estimated) date will (or was) the reseeding commence(d)	10/23/2024	
Summarize any additional reclamation activities not included by answers (above)	NA	
	reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form nt field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13	
I hereby certify that the information given above is true and complete to the heat of my	knowledge and understand that pursuant to OCD rules and regulations all operators are required	
	ases which may endanger public health or the environment. The acceptance of a C-141 report by	
	adequately investigate and remediate contamination that pose a threat to groundwater, surface	
	ort does not relieve the operator of responsibility for compliance with any other federal, state, or	
	tially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed	
prior to the release or their final land use in accordance with 19.15.29.13 NMAC include	ding notification to the OCD when reclamation and re-vegetation are complete.	
	Name: Brittany Esparza	
I hereby agree and sign off to the above statement	Title: Environmental Technician	

Email: brittany.Esparza@ConocoPhillips.com

Date: 01/07/2025

General Information Phone: (505) 629-6116

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

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

QUESTIONS, Page 8

Action 417918

QUESTIONS (continued)

Operator:	OGRID:
COG PRODUCTION, LLC	217955
600 W. Illinois Ave	Action Number:
Midland, TX 79701	417918
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Revegetation Report		
Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.		
Requesting a restoration complete approval with this submission	No	
Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.		

General Information Phone: (505) 629-6116

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

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

CONDITIONS

Action 417918

CONDITIONS

Operator:	OGRID:
COG PRODUCTION, LLC	217955
600 W. Illinois Ave	Action Number:
Midland, TX 79701	417918
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your reclamation report for Incident #NAPP2418343772 EIDER FEDERAL 35. This reclamation report is approved. Future reclamation reports will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical.	4/29/2025