

September 2, 2022

District I New Mexico Oil Conservation Division 1625 North French Drive Hobbs. New Mexico 88240

Re: Remediation Work Plan

East Vacuum Grayburg – San Andreas Unit #020

Incident Number NAPP2221675703

Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Maverick Natural Resources, LLC (Maverick), has prepared the following Remediation Work Plan (Work Plan) to document site assessment and soil sampling activities completed to date and propose additional delineation of the extent of the release at the East Vacuum Grayburg – San Andreas Unit #020 (Site), resulting from a flow line release of crude oil and produced water into the surrounding pasture. The following Work Plan proposes lateral and vertical delineation of the release.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit O, Section 28, Township 17 South, Range 35 East, in Lea County, New Mexico (32.80302° N, 103.45896° W) and is associated with oil and gas exploration and production operations on New Mexico State Land.

On June 6, 2022, a hole in the poly flowline resulted in the release of approximately 35 barrels (bbls) of produced water and 2 bbls of crude oil into the pasture where fluids pooled. A vacuum truck was dispatched to the Site to recover free-standing fluids; approximately 19 bbls of produced water and 1 bbl of crude oil were recovered. Maverick reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on June 6, 2022. The release was assigned Incident Number NAPP2221675703.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

Depth to groundwater at the Site is estimated to be between 50 feet and 100 feet below ground surface (bgs) based on the nearest groundwater well data. The nearest groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well L-05362, located

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants
601 North Marienfeld Street, Suite 400 | Midland, TX 79701 | ensolum.com
Texas PG Firm No. 50588 | Texas PE Firm No. F-21843



approximately 0.2 miles southeast of the Site. The groundwater well has a reported depth to groundwater of 80 feet bgs and a total depth of 140 feet bgs. All wells used for depth to water determination are depicted on Figure 1 and the referenced well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a playa lake, located approximately 490 feet west of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

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

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

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 NMAC 19.15.29.13.D (1) for the top 4 feet of areas that will be reclaimed following remediation.

SITE ASSESSMENT ACTIVITIES

On August 2, 2022, personnel completed a Site visit to evaluate the release extent based on information provided on the Form C-141 and visual observations. Five preliminary soil samples (SS01 through SS05) were collected within the release extent at a depth of approximately 0.5 feet bgs. The preliminary soil samples were field screened for volatile aromatic hydrocarbons utilizing a calibrated photoionization detector (PID) and chloride Hach® chloride QuanTab® test strips. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included in Appendix B.

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

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for preliminary soil sample SS01 indicated TPH-GRO/TPH-DRO, TPH, and chloride concentrations exceeded the Site Closure Criteria. Laboratory analytical results for preliminary soil samples SS02 through SS05 indicated concentrations of all COCs were compliant with the Site Closure Criteria; however, laboratory analytical results for SS01 through SS05 did indicate TPH and chloride concentrations exceeded the reclamation requirements.



Based on visible staining in the release area, elevated field screening results, and laboratory analytical results for the preliminary soil samples, delineation activities appear to be warranted to define the vertical and lateral extents of impacts to soil following the June 6, 2022 release.

PROPOSED REMEDIATION WORK PLAN

The results from the preliminary soil sampling suggest soil containing elevated TPH-GRO/TPH-DRO, TPH, and/or chloride concentrations is present across portions of the 9,182 square foot release area.

Maverick requests approval to complete the following remediation activities:

- Lateral and vertical delineation of impacted soil to below the Site Closure Criteria and reclamation requirement. Proposed delineation points are depicted on Figure 3; however, they are representative locations and may adjust based on the situation of active subsurface utilities or above-ground pipelines that may interfere with advancement.
- Soil samples will be field screened for volatile aromatic hydrocarbons and chloride. Soils samples
 exhibiting the highest field screening concentrations and deepest depths from each sample
 location will be submitted for laboratory analysis of BTEX, TPH, and chloride.
- Following successful lateral and vertical delineation through laboratory analytical results, Maverick will proceed with providing NMOCD an addendum Work Plan detailing delineation results and proposing additional remedial action, if applicable, based on results of delineation activities.

Maverick will complete the delineation activities within 60 days of the date of approval of this Work Plan by the NMOCD. A Work Plan Addendum detailing remedial action will be submitted within 30 days of receipt of laboratory analytical results. Maverick believes the scope of work described above will meet requirements set forth in 19.15.29.13 NMAC and are protective of human health, the environment, and groundwater. As such, Maverick respectfully requests approval of this Work Plan from NMOCD.

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

Sincerely, **Ensolum, LLC**

Kalei Jennings Senior Scientist Daniel Moir, PG Senior Managing Geologist

cc: Bryce Wagoner, Maverick Natural Resources, LLC New Mexico State Land Office

East Vacuum Grayburg- San Andreas Unit #010



Appendices:

Figure 1 Site Location Map

Figure 2 Preliminary Soil Sample Locations
Figure 3 Proposed Delineation Locations
Table 1 Soil Sample Analytical Results
Appendix A Referenced Well Records

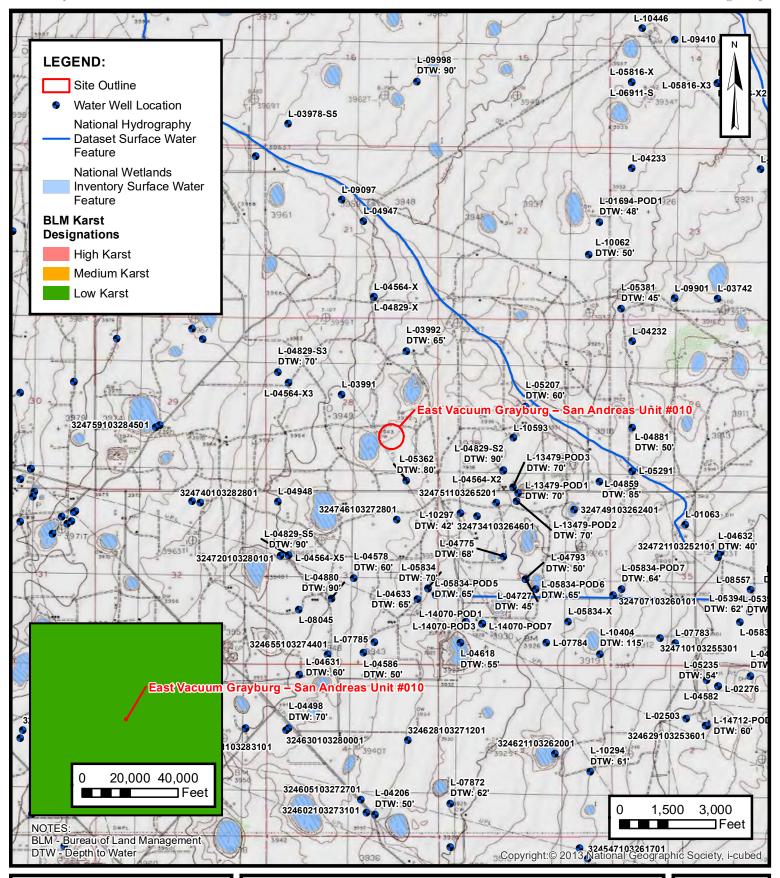
Appendix B Photographic Log

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

Appendix D Final C-141



FIGURES



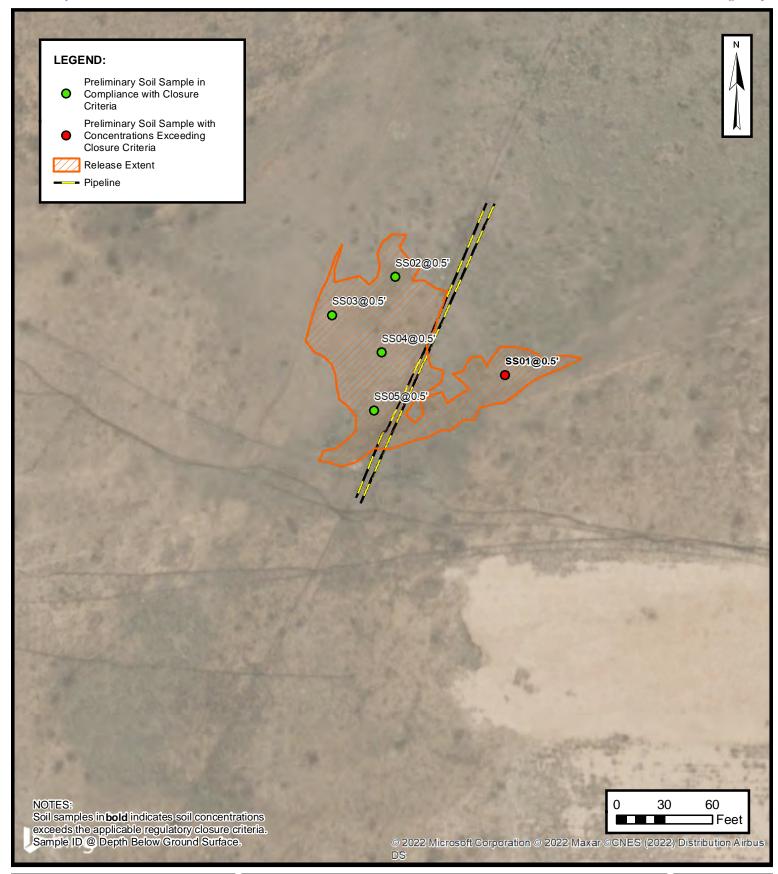


SITE RECEPTOR MAP

MAVERICK NATURAL RESOURCES, LLC
EAST VACUUM GRAYBURG – SAN ANDREAS UNIT #010
NAPP2221675703

Un it O, Sec 28, T17S, R35E Lea County, New Mexico FIGURE

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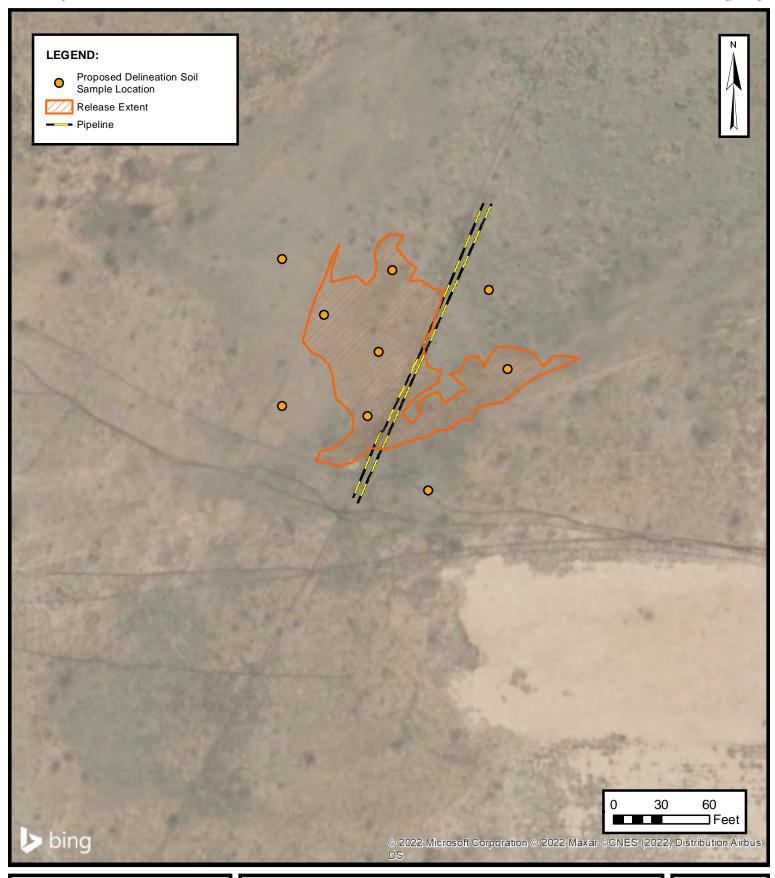




PRELIMINARY SOIL SAMPLE LOCATIONS

FIGURE

2





PROPOSED DELINEATION SOIL SAMPLE LOCATIONS

FIGURE

3



TABLES



TABLE 1 **SOIL SAMPLE ANALYTICAL RESULTS**

East Vacuum Grayburg - San Andreas Unit #010 Maverick Natural Resources, LLC Lea County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Cl	NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	10,000	
Preliminary Assessment Soil Samples										
SS01	08/02/2022	0.5	<0.00199	<0.00398	<50.0	3,590	405	3,590	4,000*	10,600*
SS02	08/02/2022	0.5	<0.00198	<0.00397	<49.9	608	81.6	608	690*	9,440*
SS03	08/02/2022	0.5	<0.00202	<0.00403	<49.9	92.0	<49.9	92.0	92.0*	7,310*
SS04	08/02/2022	0.5	<0.00200	<0.00401	<50.0	237	<50.0	237	237*	8,390*
SS05	08/02/2022	0.5	<0.00200	<0.00400	<50.0	179	<50.0	179	179*	7,850*

Notes:

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

NMOCD: New Mexico Oil Conservation Division BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in bold exceed the NMOCD Table 1 Closure Criteria or reclamation standard where applicable.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

^{*} indicates sample was collected in area to be reclaimed after remediation is complete; reclamation standard for chloride in the top 4 feet is 600 mg/kg



APPENDIX A

Referenced Well Records

Received by OCD: 9/5/2022 7 Ne37 PMexico Office of the State Engineer Page 12 of 48

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number O64 O16 O4 Sec Tws Rng

X

L. 05362

17S 35E 28

644444 3630117*

Driller License:

ABBOTT BROTHERS COMPANY

Driller Name:

MURRELL ABBOTT

Drill Start Date:

04/02/1964

Drill Finish Date:

Driller Company:

04/02/1964

Plug Date:

01/15/1965

Log File Date:

04/16/1964

PCW Rcy Date:

Source:

Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size:

7.00

Depth Well:

140 feet

Depth Water:

80 feet

Water Bearing Stratifications:

Top 80

Top

80

Bottom Description

Sandstone/Gravel/Conglomerate

Casing Perforations:

Bottom

140

*UTM location was derived from PLSS - see Help

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

9/1/22 9:12 AM

POINT OF DIVERSION SUMMARY

Lea County, New Mexico Latitude 32°47'23", Longitude 103°27'14" NAD27

Land-surface elevation 3,935.00 feet above NGVD29
The depth of the well is 234 feet below land surface.
This well is completed in the High Plains aguifer (N10)

1990-12-20

1990-12-20

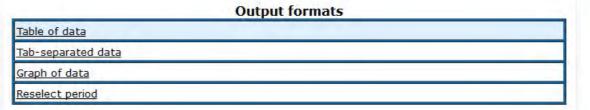
This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer. This well is completed in the Ogallala Formation (1210GLL) local aquifer.

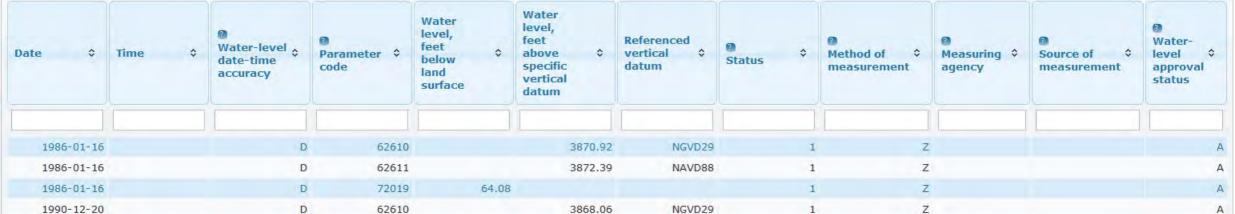
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NAVD88

3869.53

66.94

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APPENDIX B

Photographic Log



Photographic Log

Maverick Natural Resources, LLC
East Vacuum Grayburg - San Andres Unit #010
Incident Number NAPP2221675703





Photograph 1 Date: August 2, 2022 Photograph 2
Description: Photo of initial release extent, facing northeast. Description: Photograph 2

Photograph 2 Date: August 2, 2022 Description: Photo of initial release extent, facing northeast.





Photograph 3 Date: August 2 Description: Photo of initial release extent, facing southeast.

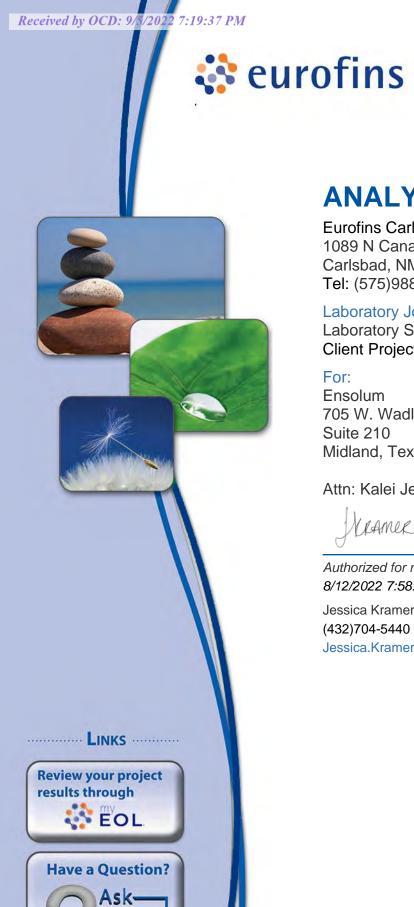
Date: August 2, 2022 Photograph 4 Date: August 2, 2022 extent, facing Description: Photo of initial release extent, facing southwest.



APPENDIX C

Laboratory Analytical Reports & Chain of Custody Documentation





Visit us at:

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Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2705-1

Laboratory Sample Delivery Group: 03D2024020

Client Project/Site: EVGSAU 2801

For:

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Kalei Jennings

RAMER

Authorized for release by: 8/12/2022 7:58:03 AM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

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

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

Client: Ensolum

Project/Site: EVGSAU 2801

Laboratory Job ID: 890-2705-1 SDG: 03D2024020

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4

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14

Definitions/Glossary

Job ID: 890-2705-1 Client: Ensolum Project/Site: EVGSAU 2801

SDG: 03D2024020

Qualifiers

GC VOA

Qualifier **Qualifier Description** F1 MS and/or MSD recovery 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. 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

DLC EDL

LOD

LOQ

MCL

TFO

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

Minimum Detectable Activity (Radiochemistry) MDA Minimum Detectable Concentration (Radiochemistry) MDC 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)

Decision Level Concentration (Radiochemistry)

EPA recommended "Maximum Contaminant Level"

Estimated Detection Limit (Dioxin)

Limit of Quantitation (DoD/DOE)

Limit of Detection (DoD/DOE)

NEG Negative / Absent POS Positive / Present PQL **Practical Quantitation Limit**

Presumptive **PRES** QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry)

Toxicity Equivalent Quotient (Dioxin)

RPD Relative Percent Difference, a measure of the relative difference between two points Toxicity Equivalent Factor (Dioxin) TEF

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Project/Site: EVGSAU 2801

Job ID: 890-2705-1

SDG: 03D2024020

Job ID: 890-2705-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2705-1

Receipt

The samples were received on 8/2/2022 3:53 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.0°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-31669 and analytical batch 880-31654 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: SS02 (890-2705-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-31669 and analytical batch 880-31654 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (890-2706-A-1-A), (890-2706-A-1-B MS) and (890-2706-A-1-C 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: SS02 (890-2705-2). 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: SS04 (890-2705-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-31555 and analytical batch 880-31531 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

HPLC/IC

Method 300 ORGFM 28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-31559 and analytical batch 880-31937 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Lab Sample ID: 890-2705-1

Client Sample Results

Client: Ensolum Job ID: 890-2705-1 Project/Site: EVGSAU 2801 SDG: 03D2024020

Client Sample ID: SS01

Date Collected: 08/02/22 10:00 Date Received: 08/02/22 15:53

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		08/07/22 12:02	08/08/22 06:30	
Toluene	<0.00199	U	0.00199	mg/Kg		08/07/22 12:02	08/08/22 06:30	,
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/07/22 12:02	08/08/22 06:30	
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/07/22 12:02	08/08/22 06:30	
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/07/22 12:02	08/08/22 06:30	,
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/07/22 12:02	08/08/22 06:30	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	117		70 - 130			08/07/22 12:02	08/08/22 06:30	
1,4-Difluorobenzene (Surr)	97		70 - 130			08/07/22 12:02	08/08/22 06:30	•
Method: Total BTEX - Total BTI	EX Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			08/08/22 16:27	-
Method: 8015 NM - Diesel Rang	ge Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	4000		50.0	mg/Kg			08/08/22 11:58	
Method: 8015B NM - Diesel Ra	nge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/05/22 09:50	08/06/22 04:23	
Diesel Range Organics (Over C10-C28)	3590		50.0	mg/Kg		08/05/22 09:50	08/06/22 04:23	,
Oll Range Organics (Over C28-C36)	405		50.0	mg/Kg		08/05/22 09:50	08/06/22 04:23	,
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	103	<u></u>	70 - 130			08/05/22 09:50	08/06/22 04:23	
o-Terphenyl	109		70 - 130			08/05/22 09:50	08/06/22 04:23	1
Method: 300.0 - Anions, Ion Ch	romatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10600		100	mg/Kg			08/12/22 05:00	20

Client Sample ID: SS02 Lab Sample ID: 890-2705-2 Matrix: Solid

Date Collected: 08/02/22 10:10 Date Received: 08/02/22 15:53

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		08/07/22 12:02	08/08/22 06:50	1
Toluene	<0.00198	U	0.00198	mg/Kg		08/07/22 12:02	08/08/22 06:50	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		08/07/22 12:02	08/08/22 06:50	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		08/07/22 12:02	08/08/22 06:50	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		08/07/22 12:02	08/08/22 06:50	1
Xylenes, Total	< 0.00397	U	0.00397	mg/Kg		08/07/22 12:02	08/08/22 06:50	1

Lab Sample ID: 890-2705-2

Job ID: 890-2705-1

Client: Ensolum Project/Site: EVGSAU 2801 SDG: 03D2024020

Client Sample ID: SS02

Date Collected: 08/02/22 10:10 Date Received: 08/02/22 15:53

Sample Depth: 0.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	156	S1+	70 - 130	08/07/22 12:02	08/08/22 06:50	1
1,4-Difluorobenzene (Surr)	95		70 - 130	08/07/22 12:02	08/08/22 06:50	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			08/08/22 16:27	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	 690		49.9	mg/Kg			08/08/22 11:58	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/05/22 09:50	08/06/22 04:45	1
Diesel Range Organics (Over C10-C28)	608		49.9	mg/Kg		08/05/22 09:50	08/06/22 04:45	1
Oll Range Organics (Over C28-C36)	81.6		49.9	mg/Kg		08/05/22 09:50	08/06/22 04:45	1
0	0/ 5	O	Limite			D	A l	D# 5

Surrogate	%Recovery	Qualifier	Limits	Pi	Prepared	Analyzed	Dil Fac
1-Chlorooctane	67	S1-	70 - 130	08/0	05/22 09:50	08/06/22 04:45	1
o-Terphenyl	75		70 - 130	08/0	05/22 09:50	08/06/22 04:45	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9440		100	mg/Kg]		08/12/22 05:09	20

Lab Sample ID: 890-2705-3 **Client Sample ID: SS03** Date Collected: 08/02/22 10:20 **Matrix: Solid**

Date Received: 08/02/22 15:53

Sample Depth: 0.5

Method: 8021B - Volatile Orga	nic Compounds ((GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		08/07/22 12:02	08/08/22 07:11	1
Toluene	<0.00202	U	0.00202	mg/Kg		08/07/22 12:02	08/08/22 07:11	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		08/07/22 12:02	08/08/22 07:11	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		08/07/22 12:02	08/08/22 07:11	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		08/07/22 12:02	08/08/22 07:11	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		08/07/22 12:02	08/08/22 07:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130			08/07/22 12:02	08/08/22 07:11	1
1,4-Difluorobenzene (Surr)	94		70 - 130			08/07/22 12:02	08/08/22 07:11	1

Method: Tota	I RTFY .	Total RTFY	Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			08/08/22 16:27	1

Lab Sample ID: 890-2705-3

Analyzed

Job ID: 890-2705-1

Client: Ensolum Project/Site: EVGSAU 2801 SDG: 03D2024020

Client Sample ID: SS03

Date Collected: 08/02/22 10:20 Date Received: 08/02/22 15:53

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	92.0		49.9	mg/Kg			08/08/22 11:58	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/05/22 09:50	08/06/22 05:07	1
Diesel Range Organics (Over C10-C28)	92.0		49.9	mg/Kg		08/05/22 09:50	08/06/22 05:07	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/05/22 09:50	08/06/22 05:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130			08/05/22 09:50	08/06/22 05:07	1
o-Terphenyl	88		70 - 130			08/05/22 09:50	08/06/22 05:07	1

7310 49.5 mg/Kg 08/12/22 05:37 Chloride Client Sample ID: SS04 Lab Sample ID: 890-2705-4

RL

Unit

D

Prepared

Result Qualifier

Date Collected: 08/02/22 10:30

Date Received: 08/02/22 15:53

Method: 300.0 - Anions, Ion Chromatography - Soluble

Sample Depth: 0.5

Analyte

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/07/22 12:02	08/08/22 07:31	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/07/22 12:02	08/08/22 07:31	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/07/22 12:02	08/08/22 07:31	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		08/07/22 12:02	08/08/22 07:31	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/07/22 12:02	08/08/22 07:31	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		08/07/22 12:02	08/08/22 07:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130			08/07/22 12:02	08/08/22 07:31	1
1,4-Difluorobenzene (Surr)	92		70 - 130			08/07/22 12:02	08/08/22 07:31	1
Method: Total BTEX - Total BTEX	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Analyte Total BTEX	Result <0.00401	U	RL 0.00401	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 08/08/22 16:27	Dil Fac
	Result <0.00401	U			<u>D</u>	Prepared Prepared		Dil Fac
Analyte Total BTEX . Method: 8015 NM - Diesel Range	Result <0.00401	U (GC)	0.00401	mg/Kg			08/08/22 16:27	1
Analyte Total BTEX Method: 8015 NM - Diesel Range Analyte	Result <0.00401 e Organics (DR) Result 237	O) (GC) Qualifier	0.00401	mg/Kg			08/08/22 16:27 Analyzed	1
Analyte Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range	Result <0.00401 e Organics (DRO Result 237 ge Organics (DI	O) (GC) Qualifier	0.00401	mg/Kg			08/08/22 16:27 Analyzed	Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics	Result <0.00401 e Organics (DRO Result 237 ge Organics (DI	O) (GC) Qualifier RO) (GC) Qualifier	0.00401 RL 50.0	mg/Kg Unit mg/Kg	<u>D</u>	Prepared	08/08/22 16:27 Analyzed 08/08/22 11:58	Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH	Result <0.00401 e Organics (DR) Result 237 ge Organics (DI) Result	O) (GC) Qualifier RO) (GC) Qualifier	0.00401 RL 50.0	mg/Kg Unit mg/Kg Unit	<u>D</u>	Prepared Prepared	08/08/22 16:27 Analyzed 08/08/22 11:58 Analyzed	1

Eurofins Carlsbad

Dil Fac

Matrix: Solid

Lab Sample ID: 890-2705-4

Client Sample Results

Client: Ensolum Job ID: 890-2705-1 Project/Site: EVGSAU 2801 SDG: 03D2024020

Client Sample ID: SS04

Date Collected: 08/02/22 10:30 Date Received: 08/02/22 15:53

Sample Depth: 0.5

	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	1-Chlorooctane	60	S1-	70 - 130	08/05/22 09:50	08/06/22 05:29	1
l	o-Terphenyl	70		70 - 130	08/05/22 09:50	08/06/22 05:29	1

Method: 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Chloride 8390 49.7 mg/Kg 08/12/22 05:46

Client Sample ID: SS05 Lab Sample ID: 890-2705-5 Date Collected: 08/02/22 10:40 **Matrix: Solid**

Date Received: 08/02/22 15:53

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/07/22 12:02	08/08/22 07:52	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/07/22 12:02	08/08/22 07:52	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/07/22 12:02	08/08/22 07:52	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/07/22 12:02	08/08/22 07:52	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/07/22 12:02	08/08/22 07:52	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/07/22 12:02	08/08/22 07:52	,
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	115		70 - 130			08/07/22 12:02	08/08/22 07:52	1
1,4-Difluorobenzene (Surr)	95		70 - 130			08/07/22 12:02	08/08/22 07:52	•
Method: Total BTEX - Total BTE)	(Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			08/08/22 16:27	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	179		50.0	mg/Kg			08/08/22 11:58	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/05/22 09:50	08/06/22 05:50	1
Diesel Range Organics (Over C10-C28)	179		50.0	mg/Kg		08/05/22 09:50	08/06/22 05:50	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/05/22 09:50	08/06/22 05:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
	84		70 - 130			08/05/22 09:50	08/06/22 05:50	1
1-Chlorooctane	04							
	96		70 - 130			08/05/22 09:50	08/06/22 05:50	1
1-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Ion Chro	96	Soluble	70 - 130			08/05/22 09:50	08/06/22 05:50	1
o-Terphenyl	96 omatography -	Soluble Qualifier	70 ₋ 130 RL	Unit	D	08/05/22 09:50 Prepared	08/06/22 05:50 Analyzed	Dil Fac

Surrogate Summary

Client: Ensolum Job ID: 890-2705-1 Project/Site: EVGSAU 2801

SDG: 03D2024020

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2689-A-13-E MS	Matrix Spike	114	95	
390-2689-A-13-F MSD	Matrix Spike Duplicate	120	94	
390-2705-1	SS01	117	97	
390-2705-2	SS02	156 S1+	95	
390-2705-3	SS03	115	94	
890-2705-4	SS04	115	92	
390-2705-5	SS05	115	95	
_CS 880-31669/1-A	Lab Control Sample	100	99	
LCSD 880-31669/2-A	Lab Control Sample Dup	101	101	
MB 880-31602/5-A	Method Blank	95	80	
MB 880-31669/5-A	Method Blank	130	111	
Surrogate Legend				

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance L
		1CO1	OTPH1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
90-2705-1	SS01	103	109	
90-2705-2	SS02	67 S1-	75	
90-2705-3	SS03	76	88	
0-2705-4	SS04	60 S1-	70	
0-2705-5	SS05	84	96	
)-2706-A-1-B MS	Matrix Spike	68 S1-	67 S1-	
-2706-A-1-C MSD	Matrix Spike Duplicate	63 S1-	65 S1-	
S 880-31555/2-A	Lab Control Sample	89	96	
SD 880-31555/3-A	Lab Control Sample Dup	89	97	
3 880-31555/1-A	Method Blank	83	101	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-2705-1 Project/Site: EVGSAU 2801 SDG: 03D2024020

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-31602/5-A

Matrix: Solid Analysis Batch: 31654 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31602

	MB	MR						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/05/22 13:42	08/07/22 13:44	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/05/22 13:42	08/07/22 13:44	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/05/22 13:42	08/07/22 13:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/05/22 13:42	08/07/22 13:44	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/05/22 13:42	08/07/22 13:44	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/05/22 13:42	08/07/22 13:44	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	08/05/22 13:42	08/07/22 13:44	1
1,4-Difluorobenzene (Surr)	80		70 - 130	08/05/22 13:42	08/07/22 13:44	1

Lab Sample ID: MB 880-31669/5-A Client Sample ID: Method Blank **Matrix: Solid**

Analysis Batch: 31654

Prep Type: Total/NA

Prep Batch: 31669

MR MR Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac 08/07/22 12:02 Benzene <0.00200 U 0.00200 mg/Kg 08/08/22 00:21 Toluene <0.00200 U 0.00200 mg/Kg 08/07/22 12:02 08/08/22 00:21 Ethylbenzene <0.00200 U 0.00200 mg/Kg 08/07/22 12:02 08/08/22 00:21 0.00400 08/07/22 12:02 08/08/22 00:21 m-Xylene & p-Xylene <0.00400 U mg/Kg <0.00200 U 0.00200 08/07/22 12:02 08/08/22 00:21 o-Xylene mg/Kg Xylenes, Total <0.00400 U 0.00400 mg/Kg 08/07/22 12:02 08/08/22 00:21

MB MB

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130	08/	/07/22 12:02	08/08/22 00:21	1
1,4-Difluorobenzene (Surr)	111		70 - 130	08/	/07/22 12:02	08/08/22 00:21	1

Lab Sample ID: LCS 880-31669/1-A

Matrix: Solid

Analysis Batch: 31654

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 31669

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1009		mg/Kg		101	70 - 130	
Toluene	0.100	0.09893		mg/Kg		99	70 - 130	
Ethylbenzene	0.100	0.09835		mg/Kg		98	70 - 130	
m-Xylene & p-Xylene	0.200	0.1984		mg/Kg		99	70 - 130	
o-Xylene	0.100	0.1126		mg/Kg		113	70 - 130	

LCS LCS

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

Lab Sample ID: LCSD 880-31669/2-A

Matrix: Solid

Analysis Batch: 31654

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

Prep Batch: 31669

	Spike	LCSD LCSD				%Rec		RPD	
Analyte	Added	Result Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1023	mg/Kg		102	70 - 130	1	35	

Client: Ensolum Job ID: 890-2705-1 Project/Site: EVGSAU 2801 SDG: 03D2024020

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

Lab Sample ID: LCSD 880-31669/2-A

Matrix: Solid Analysis Batch: 31654 Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 31669

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.1004		mg/Kg		100	70 - 130	2	35
Ethylbenzene	0.100	0.1014		mg/Kg		101	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2043		mg/Kg		102	70 - 130	3	35
o-Xylene	0.100	0.1134		mg/Kg		113	70 - 130	1	35

LCSD LCSD

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

Lab Sample ID: 890-2689-A-13-E MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 31654										ep Batch: 3166	
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		

Benzene <0.00202 U 0.100 0.1058 105 mg/Kg 70 - 130 Toluene <0.00202 U 0.100 0.1129 mg/Kg 112 70 - 130 Ethylbenzene <0.00202 U 0.100 0.1179 mg/Kg 117 70 - 130 0.201 m-Xylene & p-Xylene <0.00403 U 122 70 - 130 0.2446 mg/Kg o-Xylene <0.00202 UF1 0.100 0.1369 F1 mg/Kg 136 70 - 130

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	114	70 - 130
1,4-Difluorobenzene (Surr)	95	70 - 130

Lab Sample ID: 890-2689-A-13-F MSD

Client Sample ID: Matrix Spike Duplicate **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 31654 Prep Batch: 31669

_	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00202	U	0.100	0.1039		mg/Kg		104	70 - 130	2	35
Toluene	<0.00202	U	0.100	0.1120		mg/Kg		112	70 - 130	1	35
Ethylbenzene	<0.00202	U	0.100	0.1218		mg/Kg		122	70 - 130	3	35
m-Xylene & p-Xylene	<0.00403	U	0.200	0.2532		mg/Kg		126	70 - 130	3	35
o-Xylene	<0.00202	U F1	0.100	0.1413	F1	mg/Kg		141	70 - 130	3	35

MSD MSD %Recovery Qualifier

Surroyate	Mecovery	Qualifier	Lillits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

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

Matrix: Solid

Analysis Batch: 31531

Lab Sample ID: MB 880-31555/1-A

Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 31555

мв мв Result Qualifier RL Unit Prepared <50.0 U 50.0 mg/Kg 08/05/22 09:50 08/05/22 20:48 Gasoline Range Organics (GRO)-C6-C10

Client: Ensolum Job ID: 890-2705-1 SDG: 03D2024020 Project/Site: EVGSAU 2801

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

Lab Sample ID: MB 880-31555/1-A **Matrix: Solid**

Lab Sample ID: LCS 880-31555/2-A

Matrix: Solid

Analysis Batch: 31531

Analysis Batch: 31531

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31555

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/05/22 09:50	08/05/22 20:48	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/05/22 09:50	08/05/22 20:48	1

MB MB

MR MR

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130	08/05/22 09:50	08/05/22 20:48	1
o-Terphenyl	101		70 - 130	08/05/22 09:50	08/05/22 20:48	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 31555

	Spike) LCS	LCS				%Rec	
Analyte	Adde	l Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	885.3		mg/Kg		89	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	874.1		mg/Kg		87	70 - 130	
C10-C28)								

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	89		70 - 130
o-Terphenyl	96		70 - 130

Lab Sample ID: LCSD 880-31555/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 31531

Prep Type: Total/NA Prep Batch: 31555

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit D Gasoline Range Organics 1000 855.1 mg/Kg 86 70 - 130 3 20 (GRO)-C6-C10 Diesel Range Organics (Over 1000 871.0 mg/Kg 87 70 - 130 0 20 C10-C28)

LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 89 70 - 130 o-Terphenyl 97 70 - 130

Lab Sample ID: 890-2706-A-1-B MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 31531

Prep Type: Total/NA Prep Batch: 31555

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.9	U	999	833.2		mg/Kg		81	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	92.2	F1	999	666.4	F1	mg/Kg		57	70 - 130	
C10-C28)										

	IVIS	IVIS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	68	S1-	70 - 130
o-Terphenyl	67	S1-	70 - 130

Lab Sample ID: 890-2706-A-1-C MSD

Client: Ensolum Job ID: 890-2705-1 Project/Site: EVGSAU 2801 SDG: 03D2024020

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

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 31555

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<49.9	U	999	850.8		mg/Kg		83	70 - 130	2	20
(GRO)-C6-C10											
Diesel Range Organics (Over	92.2	F1	999	643.6	F1	mg/Kg		55	70 - 130	3	20
040,000)											

C10-C28)

Matrix: Solid

Analysis Batch: 31531

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	63	S1-	70 - 130
o-Terphenyl	65	S1-	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-31559/1-A Client Sample ID: Method Blank

Matrix: Solid Prep Type: Soluble

Analysis Batch: 31937

мв мв

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			08/12/22 03:46	1

Lab Sample ID: LCS 880-31559/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 31937

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	245.2	-	mg/Kg		98	90 - 110	

Lab Sample ID: LCSD 880-31559/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 31937

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	247.1		mg/Kg		99	90 - 110	1	20	

Lab Sample ID: 880-17771-A-1-C MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 31937

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	123		250	380.3		ma/Ka		103	90 110	

Lab Sample ID: 880-17771-A-1-D MSD Client Sample ID: Matrix Spike Duplicate **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 31937

Released to Imaging: 9/9/2022 11:39:51 AM

Analysis Daton. 51331											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	123		250	388.2		mg/Kg		106	90 - 110	2	20

Client: Ensolum Job ID: 890-2705-1 Project/Site: EVGSAU 2801

SDG: 03D2024020

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-2706-A-3-C MS Client Sample ID: Matrix Spike

Matrix: Solid Prep Type: Soluble Analysis Batch: 31937

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Analyte Unit %Rec Limits Chloride 198 F1 250 448.2 mg/Kg 100 90 - 110

Lab Sample ID: 890-2706-A-3-D MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Prep Type: Soluble

Analysis Batch: 31937 Sample Sample Spike MSD MSD %Rec

RPD Result Qualifier Added Result Qualifier Limits RPD Limit Analyte Unit D %Rec Chloride 198 F1 250 480.5 F1 mg/Kg 113 90 - 110 20

QC Association Summary

Client: Ensolum

Project/Site: EVGSAU 2801

Job ID: 890-2705-1 SDG: 03D2024020

GC VOA

Prep Batch: 31602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-31602/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 31654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2705-1	SS01	Total/NA	Solid	8021B	31669
890-2705-2	SS02	Total/NA	Solid	8021B	31669
890-2705-3	SS03	Total/NA	Solid	8021B	31669
890-2705-4	SS04	Total/NA	Solid	8021B	31669
890-2705-5	SS05	Total/NA	Solid	8021B	31669
MB 880-31602/5-A	Method Blank	Total/NA	Solid	8021B	31602
MB 880-31669/5-A	Method Blank	Total/NA	Solid	8021B	31669
LCS 880-31669/1-A	Lab Control Sample	Total/NA	Solid	8021B	31669
LCSD 880-31669/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	31669
890-2689-A-13-E MS	Matrix Spike	Total/NA	Solid	8021B	31669
890-2689-A-13-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	31669

Prep Batch: 31669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2705-1	SS01	Total/NA	Solid	5035	
890-2705-2	SS02	Total/NA	Solid	5035	
890-2705-3	SS03	Total/NA	Solid	5035	
890-2705-4	SS04	Total/NA	Solid	5035	
890-2705-5	SS05	Total/NA	Solid	5035	
MB 880-31669/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-31669/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-31669/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2689-A-13-E MS	Matrix Spike	Total/NA	Solid	5035	
890-2689-A-13-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 31809

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2705-1	SS01	Total/NA	Solid	Total BTEX	
890-2705-2	SS02	Total/NA	Solid	Total BTEX	
890-2705-3	SS03	Total/NA	Solid	Total BTEX	
890-2705-4	SS04	Total/NA	Solid	Total BTEX	
890-2705-5	SS05	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 31531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2705-1	SS01	Total/NA	Solid	8015B NM	31555
890-2705-2	SS02	Total/NA	Solid	8015B NM	31555
890-2705-3	SS03	Total/NA	Solid	8015B NM	31555
890-2705-4	SS04	Total/NA	Solid	8015B NM	31555
890-2705-5	SS05	Total/NA	Solid	8015B NM	31555
MB 880-31555/1-A	Method Blank	Total/NA	Solid	8015B NM	31555
LCS 880-31555/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	31555
LCSD 880-31555/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	31555
890-2706-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	31555
890-2706-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	31555

QC Association Summary

Client: Ensolum

Project/Site: EVGSAU 2801

Job ID: 890-2705-1

SDG: 03D2024020

GC Semi VOA

Prep Batch: 31555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2705-1	SS01	Total/NA	Solid	8015NM Prep	
890-2705-2	SS02	Total/NA	Solid	8015NM Prep	
890-2705-3	SS03	Total/NA	Solid	8015NM Prep	
890-2705-4	SS04	Total/NA	Solid	8015NM Prep	
890-2705-5	SS05	Total/NA	Solid	8015NM Prep	
MB 880-31555/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-31555/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-31555/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2706-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2706-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 31758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2705-1	SS01	Total/NA	Solid	8015 NM	
890-2705-2	SS02	Total/NA	Solid	8015 NM	
890-2705-3	SS03	Total/NA	Solid	8015 NM	
890-2705-4	SS04	Total/NA	Solid	8015 NM	
890-2705-5	SS05	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 31559

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2705-1	SS01	Soluble	Solid	DI Leach	
890-2705-2	SS02	Soluble	Solid	DI Leach	
890-2705-3	SS03	Soluble	Solid	DI Leach	
890-2705-4	SS04	Soluble	Solid	DI Leach	
890-2705-5	SS05	Soluble	Solid	DI Leach	
MB 880-31559/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-31559/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-31559/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-17771-A-1-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-17771-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
890-2706-A-3-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2706-A-3-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 31937

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2705-1	SS01	Soluble	Solid	300.0	31559
890-2705-2	SS02	Soluble	Solid	300.0	31559
890-2705-3	SS03	Soluble	Solid	300.0	31559
890-2705-4	SS04	Soluble	Solid	300.0	31559
890-2705-5	SS05	Soluble	Solid	300.0	31559
MB 880-31559/1-A	Method Blank	Soluble	Solid	300.0	31559
LCS 880-31559/2-A	Lab Control Sample	Soluble	Solid	300.0	31559
LCSD 880-31559/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	31559
880-17771-A-1-C MS	Matrix Spike	Soluble	Solid	300.0	31559
880-17771-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	31559
890-2706-A-3-C MS	Matrix Spike	Soluble	Solid	300.0	31559
890-2706-A-3-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	31559

Lab Chronicle

Client: Ensolum Job ID: 890-2705-1 Project/Site: EVGSAU 2801 SDG: 03D2024020

Client Sample ID: SS01 Lab Sample ID: 890-2705-1 Date Collected: 08/02/22 10:00

Matrix: Solid

Date Received: 08/02/22 15:53

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	31669	08/07/22 12:02	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31654	08/08/22 06:30	EL	EET MID
Total/NA	Analysis	Total BTEX		1			31809	08/08/22 16:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			31758	08/08/22 11:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	31555	08/05/22 09:50	DM	EET MID
Total/NA	Analysis	8015B NM		1			31531	08/06/22 04:23	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	31559	08/05/22 10:29	СН	EET MID
Soluble	Analysis	300.0		20			31937	08/12/22 05:00	AJ	EET MID

Client Sample ID: SS02 Lab Sample ID: 890-2705-2

Date Collected: 08/02/22 10:10 Matrix: Solid

Date Received: 08/02/22 15:53

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	31669	08/07/22 12:02	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31654	08/08/22 06:50	EL	EET MID
Total/NA	Analysis	Total BTEX		1			31809	08/08/22 16:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			31758	08/08/22 11:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	31555	08/05/22 09:50	DM	EET MID
Total/NA	Analysis	8015B NM		1			31531	08/06/22 04:45	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	31559	08/05/22 10:29	СН	EET MID
Soluble	Analysis	300.0		20			31937	08/12/22 05:09	AJ	EET MID

Client Sample ID: SS03 Lab Sample ID: 890-2705-3 Date Collected: 08/02/22 10:20 **Matrix: Solid**

Date Received: 08/02/22 15:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	31654	08/08/22 07:11	EL	EET MID
Total/NA	Analysis	Total BTEX		1			31809	08/08/22 16:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			31758	08/08/22 11:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	31555	08/05/22 09:50	DM	EET MID
Total/NA	Analysis	8015B NM		1			31531	08/06/22 05:07	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	31559	08/05/22 10:29	CH	EET MID
Soluble	Analysis	300.0		10			31937	08/12/22 05:37	AJ	EET MID

Client Sample ID: SS04 Lab Sample ID: 890-2705-4

Date Collected: 08/02/22 10:30 Date Received: 08/02/22 15:53

Г										
	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	31669	08/07/22 12:02	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31654	08/08/22 07:31	EL	EET MID
Total/NA	Analysis	Total BTEX		1			31809	08/08/22 16:27	SM	EET MID

Eurofins Carlsbad

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Released to Imaging: 9/9/2022 11:39:51 AM

Matrix: Solid

Lab Chronicle

Client: Ensolum Job ID: 890-2705-1 Project/Site: EVGSAU 2801 SDG: 03D2024020

Client Sample ID: SS04

Date Received: 08/02/22 15:53

Lab Sample ID: 890-2705-4 Date Collected: 08/02/22 10:30

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA 8015 NM 31758 08/08/22 11:58 SM EET MID Analysis Total/NA Prep 8015NM Prep 10.00 g 10 mL 31555 08/05/22 09:50 DM **EET MID** Total/NA Analysis 8015B NM 31531 08/06/22 05:29 SM **EET MID** 1 08/05/22 10:29 Soluble Leach DI Leach 5.03 g 50 mL 31559 CH **EET MID** Soluble Analysis 300.0 10 31937 08/12/22 05:46 AJ **EET MID**

Client Sample ID: SS05 Lab Sample ID: 890-2705-5

Date Collected: 08/02/22 10:40 **Matrix: Solid**

Date Received: 08/02/22 15:53

Batch Batch Dil Initial Final Batch Prepared Method Amount Amount Number **Prep Type** Type Run Factor or Analyzed Analyst Lab 5035 31669 Total/NA Prep 5.00 g 5 mL 08/07/22 12:02 EL **EET MID** Total/NA Analysis 8021B 5 mL 5 mL 31654 08/08/22 07:52 EL EET MID 1 Total BTEX Total/NA Analysis 1 31809 08/08/22 16:27 SM **EET MID** Total/NA 8015 NM 31758 08/08/22 11:58 SM EET MID Analysis 1 Total/NA Prep 8015NM Prep 10.01 g 10 mL 31555 08/05/22 09:50 DM **EET MID** Total/NA 8015B NM 31531 08/06/22 05:50 SM EET MID Analysis 1 Soluble Leach DI Leach 5.01 g 50 mL 31559 08/05/22 10:29 CH **EET MID** Soluble Analysis 300.0 10 31937 08/12/22 05:55 AJ **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: 890-2705-1 Project/Site: EVGSAU 2801

SDG: 03D2024020

Laboratory: Eurofins Midland

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

Authority		ogram	Identification Number	Expiration Date	
Texas		ELAP	T104704400-22-24	06-30-23	
The following analytes	are included in this report, bu	t the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes for	
the agency does not of	fer certification.				
the agency does not of Analysis Method	fer certification . Prep Method	Matrix	Analyte		
0 ,		Matrix Solid	Analyte Total TPH		

Method Summary

Client: Ensolum

Project/Site: EVGSAU 2801

Job ID: 890-2705-1

SDG: 03D2024020

ethod 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	MCAWW	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

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Carlsbad

Released to Imaging: 9/9/2022 11:39:51 AM

Sample Summary

Client: Ensolum

Project/Site: EVGSAU 2801

Job ID: 890-2705-1

SDG: 03D2024020

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2705-1	SS01	Solid	08/02/22 10:00	08/02/22 15:53	0.5
890-2705-2	SS02	Solid	08/02/22 10:10	08/02/22 15:53	0.5
890-2705-3	SS03	Solid	08/02/22 10:20	08/02/22 15:53	0.5
890-2705-4	SS04	Solid	08/02/22 10:30	08/02/22 15:53	0.5
890-2705-5	SS05	Solid	08/02/22 10:40	08/02/22 15:53	0.5

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City, State ZIP: Address:

Carlsbad, NM 88220 3122 National Parks HWY

Address: City, State ZIP:

Carlsbad, NM 88220 3122 National Parks HWY

Level IV

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

Work Order Comments

www.xenco.com

Page

State of Project:

Company Name: Bill to: (if different)

Kalei Jennings

Project Manager: Company Name:

Kalei Jennings

Ensolum

Chain of Custody

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

Phone: 817-	817-683-2503		Email: ki	Email: kjennings@ensolum.com	solum	.com				Deliverables: EDD	ADaPT Other:
Project Name:	EVGSAU 2801)1	Turn Around	round					ANALYSIS REQUEST	UEST	Preservative Codes
Project Number:	03D2024020		✓ Routine	Rush	Pres. Code						None: NO DI Water: H ₂ O
Project Location:	Lea County, NM		Due Date:	5 Day TAT							Cool: Cool MeOH: Me
Sampler's Name:	Gilbert Moreno		TAT starts the day received by	ay received by					_		HCL: HC HNO3: HN
CC#)	the lab, if received by 4:30pm	ed by 4:30pm	rs						H ₂ S0 ₄ : H ₂ NaOH: Na
SAMPLE RECEIPT	Temp Blank:	Yes) No	Wet Ice: (Yes) No	nete	.0)					H₃PO₄: HP
Samples Received Intact:	(Yes) No	Thermometer ID:		FCC WA	ran	300					NaHSO ₄ : NABIS
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	ctor:	30.0	Pa	PA:					Na ₂ S ₂ O ₃ : NaSO ₃
Sample Custody Seals:	Yes No N/A	Temperature Reading:	Reading:	3.a		S (E			890-2705 Chain o	n of Custody	Zn Acetate+NaOH: Zn
Total Containers:	(Corrected Temperature	nperature:	w Ó		IDE)15)	3021	_	_	NaOH+Ascorbic Acid: SAPC
Sample Identification	ation Matrix	Date Sampled	Time [Depth Comp	# of	CHLOR	TPH (80	BTEX (Sample Comments
SS01	S	8.7.22 Ot	10:00 0	0.5' Grab/	_	×	×	×			
SS02	S	8.7.22 GA	10:10 0.5	5' Grab/	_	×	×	×			
SS03	S	8.7.22 m	10:20 0.5	5' Grab/	_	×	×	×			Incident Numbers
SS04	S	8.7.22 M	10:30 0.5'	5' Grab/	-1	×	×	×			
\$805	S	8.7.22 CM	10:40 0.5	5' Grab/	_	×	×	×			
				_							
				ala		8					
			1	50	1						
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	\ \										
Total 200.7 / 6010	200.8 / 6020:	9R	8RCRA 13PPM	M Texas 11	≥	Sb As	Ва	Be B	Cd Ca Cr Co Cu Fe Pb I	Mg Mn Mo Ni K Se Ag	SIO ₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed	letal(s) to be analy	zed	TCLP / SPI	_P 6010: 8R	CRA	Sb A	s Ba	Be C	TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo N	Ni Se Ag TIU H	Hg: 1631 / 245.1 / 7470 / 7471
xice: Signature of this docum service. Eurofins Xenco will Eurofins Xenco. A minimum	nent and relinquishment be liable only for the co	of samples const st of samples and applied to each p	itutes a valid pur shall not assum	rchase order fror le any responsib rge of \$6 for eac	n client of the sample	compan ny loss	y to Eu	rofins Xe xpenses Eurofins	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from cilent 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 cilent if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$6 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	It assigns standard terms and con e due to circumstances beyond the will be enforced unless previously	nditions e control r negotiated.
Relinquished by: (Signature)	gnature) /	Received	Received by: (Signature)	re)		Date.	Date/Time		Relinquished by: (Signature)	re) Received by: (Signature)	(Signature) Date/Time
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Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-2705-1 SDG Number: 03D2024020

List Source: Eurofins Carlsbad

Login Number: 2705 List Number: 1 Creator: Clifton, Cloe

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

Login Sample Receipt Checklist

 Client: Ensolum
 Job Number: 890-2705-1

 SDG Number: 03D2024020

List Source: Furofins Midland

List Source: Eurofins Midland
List Number: 2
List Creation: 08/04/22 10:22 AM

Creator: Rodriguez, Leticia

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	

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<6mm (1/4").



APPENDIX D

Final C-141

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

Unit Letter Section

Township

State of New Mexico Energy Minerals and Natural Resources Department

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

Incident ID	NAPP2221675703
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

-	·
Responsible Party: Maverick Permian, LLC	OGRID: 331199
Contact Name: Thomas Haigood	Contact Telephone: (432) 701-7802
Contact email: Thomas.haigood@mavresources.com	Incident # (assigned by OCD)
Contact mailing address: 5735 SW 7000, Andrews, TX 79714	
Location of	Release Source
Latitude: 32.80302	Longitude: -103.45896

Site Name: East Vacuum Grayburg – San Andreas Unit #010	Site Type: Flow line - Pasture
Date Release Discovered: June 06, 2022	API# (if applicable)

County

SW-SE	28	17S	35E	Lea	
Surface Owne	r: X Stat	e Federal	Tribal Private	(Name:	

Range

Nature and Volume of Release

	reature and volume of	. Kelease
Materi	ial(s) Released (Select all that apply and attach calculations or specific	fic justification for the volumes provided below)
Crude Oil	Volume Released: 2 bbl.	Volume Recovered: 1 bbl.
Produced Water	Volume Released: 35 bbl.	Volume Recovered: 19 bbl.
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release:		
<u> </u>	•	corrosion, This allowed approximately 37 bbl. of s ultimately covering an area of 60 ft. by 75 ft. in the

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e of New Mexico Incident ID NAPP2221675703

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Was this a major release as defined by	If YES, for what reason(s) does the respons	ible party consider this a major release?	
19.15.29.7(A) NMAC?	The calculated total volume released was	over 25 bbl. total production fluid.	
		•	
⊠ Yes □ No			
TOTAL I			
Contact was attempted l		om? When and by what means (phone, email, etc): eft a message. I then emailed OCD.Enviro@state.NM.us at	
	Initial Re	sponse	
The responsible p	party must undertake the following actions immediately	unless they could create a safety hazard that would result in injury	
	ease has been stopped.		
☐ The impacted area ha	s been secured to protect human health and t	ne environment.	
Released materials ha	we been contained via the use of berms or di	kes, absorbent pads, or other containment devices.	
	ecoverable materials have been removed and	managed appropriately.	
If all the actions described	d above have <u>not</u> been undertaken, explain w	hy:	
		been barricaded. No more fluid will spread further. The diated in accordance with NMOCD EMNRD guidelines	
Per 19.15.29.8 B. (4) NM	AC the responsible party may commence re	mediation immediately after discovery of a release. If remediation	
has begun, please attach	a narrative of actions to date. If remedial e	forts have been successfully completed or if the release occurred ease attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.			
Printed Name: Thomas H	Iaigood	Title: Permian HSE Specialist	
Signature: Thomas James Haig	aad	Date: June 06, 2022	
email: Thomas.haigood @	@mavresources.com	Telephone: (432) 701-7802	
OCD Only Jocelyn	Harimon	08/05/2022	
		Date:	

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

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

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

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 131744

CONDITIONS

Operator:	OGRID:
Maverick Permian LLC	331199
1111 Bagby Street Suite 1600	Action Number:
Houston, TX 77002	131744
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-	8/5/2022

of New Mexico

Incident ID	NAPP2221675703
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Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

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

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

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Incident ID	NAPP2221675703
District RP	
Facility ID	
Application ID	

e best of my knowledge and understand that pursuant to OCD rules and tifications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have reat to groundwater, surface water, human health or the environment. In f responsibility for compliance with any other federal, state, or local laws
Title: _Permian HSE Specialist II
Date:09/04/2022
Telephone:928-241-1862
Date:09/06/2022

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Incident ID	NAPP2221675703	
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Application ID		

Remediation Plan

Remediation Plan Checklist: Each of the following items must be	e included in the plan.			
 Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) 				
<u>Deferral Requests Only</u> : Each of the following items must be co	nfirmed as part of any request for deferral of remediation.			
Contamination must be in areas immediately under or around p deconstruction.	roduction equipment where remediation could cause a major facility			
Extents of contamination must be fully delineated.				
Contamination does not cause an imminent risk to human healt	h, the environment, or groundwater.			
	e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of			
Printed Name:Bryce Wagoner	Title:Permian HSE Specialist II			
Signature: Rywyr 1	Date:9/04/2022			
email:bryce.wagoner@mavresources.com	Telephone:928-241-1862			
OCD Owler				
OCD Only				
Received by:	Date:09/06/2022			
Approved	Approval			
Signature: Jennifer Nobui	Date: 09/09/2022			

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

CONDITIONS

Action 140652

CONDITIONS

Operator:	OGRID:
Maverick Permian LLC	331199
1111 Bagby Street Suite 1600	Action Number:
Houston, TX 77002	140652
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Remediation Plan Approved.	9/9/2022