Page 6

Oil Conservation Division

Incident ID	NAPP2303047441
District RP	
Facility ID	
Application ID	

Closure

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 (electronic submittals in .pdf format are preferred) 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.

<u>Closure Report Attachment Checklist</u>: Each of the following its	ems must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: appropriate ODC	District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of a	 bediate contamination that pose a threat to groundwater, surface water, C-141 report does not relieve the operator of responsibility for tions. The responsible party acknowledges they must substantially beditions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete. Citle: _Senior Environmental Engineer Date: _4/142023
OCD Only	
Received by: Jocelyn Harimon	Date: 04/20/2023
	of liability should their operations have failed to adequately investigate and vater, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by: <u>Robert Hamlet</u>	Date: <u>9/8/2023</u>
Printed Name: <u>Robert Hamlet</u>	Title: Environmental Specialist - Advanced



April 14, 2023

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 Cabo Wabo Federal Com 801H Incident Number NAPP2303047441 Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of COG Operating, LLC (COG), has prepared this *Closure Request* to document assessment, excavation, and soil sampling activities performed at the Cabo Wabo Federal Com 801H (Site). The purpose of the Site assessment, excavation, and soil sampling activities was to address impacts to soil resulting from a release of produced water into the adjacent pasture at the Site. Based on field observations, excavation activities, and laboratory analytical results from soil sampling events, COG is submitting this *Closure Request*, describing remediation that has occurred and requesting closure for Incident Number NAPP2303047441.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit B, Section 24, Township 25 South, Range 29 East, in Eddy County, New Mexico (32.1225°, -103.9338°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On January 16, 2023, internal corrosion on a flowline resulted in the release of approximately 4.236 barrels (bbls) of produced water into the surrounding pasture area. No free-standing fluids were recovered. COG reported the release to the New Mexico Oil Conservation Division (NMOCD) and submitted a Release Notification Form C-141 (Form C-141) on January 30, 2023. The release was assigned Incident Number NAPP2303047441.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented 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 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 New Mexico Office of the State Engineer (NMOSE) well C-04558-POD 1, located approximately 1.6 miles north of the Site. The groundwater well has a reported depth to groundwater greater than 109 feet bgs. Ground surface elevation at the groundwater well location is 3,082 feet above mean sea level (amsl), which is approximately 89 feet higher in elevation than the Site. All wells used

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for depth to groundwater determination are depicted on Figure 1 and the associated well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a riverine, located approximately 290 feet southwest 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, or church. The Site is less than 300 feet from a 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 (medium 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): 100 mg/kg
- Chloride: 600 mg/kg

INITIAL ASSESSMENT ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On March 13, 2023, Ensolum personnel were at the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Seven preliminary soil samples (SS01 through SS07) were collected within and around the release extent at a depth of approximately 0.5 feet bgs to assess surficial soil associated with the release. The soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach[®] chloride QuanTab[®] test strips. The 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 as 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 Carlsbad, New Mexico, for analysis of the following chemicals of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Laboratory analytical results for preliminary soil samples SS01 through SS04 indicated all COC concentrations were compliant with the Site Closure Criteria and successfully defined the lateral extent of the release. Laboratory analytical results for preliminary soil sample SS07, collected at 0.5 feet bgs within the release extent, indicated all COC concentrations were compliant with the Site Closure Criteria. Laboratory analytical results for soil samples SS05 and SS06, collected within the release at a depth of 0.5 feet bgs, indicated chloride concentrations exceeded the Site Closure Criteria. Based on laboratory analytical results for soil samples SS05 and SS06, excavation activities were warranted.

EXCAVATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On April 5, 2023, Ensolum personnel were at the Site to oversee excavation activities based on laboratory analytical results for soil samples SS05 and SS06. Excavation activities were performed using a backhoe and transport vehicles. To direct excavation activities, soil was screened for VOCs and

Cabo Wabo Federal Com 801H Closure Request COG Operating, LLC

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chloride. The excavation was completed to depths ranging from 1.5 feet to 3 feet bgs. Photographic documentation of the excavation activities is included in Appendix B.

Following removal of impacted soil, 5-point composite soil samples were collected every 200 square feet from the floor and sidewalls of the excavation extent. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS04 were collected from the floor of the excavation at depths ranging from 1.5 feet to 3 feet bgs. Composite soil samples SW01 and SW02 were collected from the sidewalls of the excavation at depths ranging from ground surface to 3 feet bgs. The soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 3.

Laboratory analytical results for the excavation floor soil samples FS01 through FS04, and excavation sidewall soil samples SW01 through SW02, indicated all COC concentrations were compliant with the Site Closure Criteria. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included as Appendix C.

The excavation area measured approximately 700 square feet in areal size. A total of 60 cubic yards of impacted soil was removed, transported, and properly disposed of at R360 Environmental Solutions in Hobbs, New Mexico. After completion of confirmation sampling, the excavation was secured with fencing.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the January 8, 2023, release of produced water. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated all COCs were compliant with the Site Closure Criteria. Based on the soil sample analytical results, no further remediation appears warranted. COG will backfill the excavation with material purchased locally, recontour the Site to match pre-existing site conditions and re-seed the disturbed area with the appropriate BLM seed mixture during the next possible growing season for optimal growth.

Excavation of impacted soil has mitigated impacts at this Site. COG believes these remedial actions are protective of human health, the environment, and groundwater. As such, COG respectfully requests closure for Incident Number NAPP2303047441.

Cabo Wabo Federal Com 801H Closure Request COG Operating, LLC



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

Sincerely, Ensolum, LLC

adrie

Hadlie Green Project Geologist

Daniel R. Moir, PG Senior Managing Geologist

cc: Justin Carlile, COG Operating, LLC Bureau of Land Management

Appendices:

- Figure 1 Site Receptor Map
- Figure 2 Preliminary Soil Sample Locations
- Figure 3 Excavation Soil Sample Locations
- Table 1Soil 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
- Appendix E NMOCD Notifications



FIGURES

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TABLES

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ENSOLUM

	TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Cabo Wabo Federal Com 801H COG Operating, LLC Eddy County, New Mexico													
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)				
NMOCD Table I	NMOCD Table I Closure Criteria (NMAC 19.15.29) 10 50 NE NE NE NE NE 100 600													
Preliminary Assessment Soil Samples														
SS01	03/13/2023	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	37.0				
SS02	03/13/2023	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	71.2				
SS03	03/13/2023	0.5	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	5.98				
SS04	03/13/2023	0.5	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	<4.96				
SS05	03/13/2023	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	5,730				
SS06	03/13/2023	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	6,100				
SS07	03/13/2023	0.5	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	143				
				Excava	ation Floor Soil S	amples								
FS01	04/05/2023	1.5	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	235				
FS02	04/05/2023	1.5	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	105				
FS03	04/05/2023	3	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	179				
FS04	04/05/2023	1.5	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	34.5				
				Excavati	on Sidewall Soil	Samples								
SW01	04/05/2023	0 - 3	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	294				
SW02	04/05/2023	0 - 3	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	275				

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



APPENDIX A

Referenced Well Records

PAGE 1 OF 2

WELL TAG ID NO.

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WELL RECORD & LOG

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WELL RECORD & LOG

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John R. D Antonio, Jr., P.E. State Engineer



Roswell Office 1900 WEST SECOND STREET ROSWELL, NM 88201

STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr: 677406 File Nbr: C 04473 Well File Nbr: C 04473 POD1

Nov. 18, 2020

TACOMA MORRISSEY LT ENVIRONMENTAL INC 508 WEST STEVENS CARLSBAD, NM 88220

Greetings:

The above numbered permit was issued in your name on 09/02/2020.

The Well Record was received in this office on 10/29/2020, stating that it had been completed on 10/12/2020, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 09/02/2021.

If you have any questions, please feel free to contact us.

Singerely Andrew Dennis

(575) 622-6521

drywell

2020-10-26_C-4473POD1_OSE_Well Record and Log-wb-forsign

Final Audit Report

2020-10-27

Created:	2020-10-27
By:	Lucas Middleton (lucas@atkinseng.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAA_fnD1AtNBjHgBc1H0ehIMQdoVvHLvFdG

"2020-10-26_C-4473POD1_OSE_Well Record and Log-wb-forsi gn" History

Ð	Document created by Lucas Middleton (lucas@atkinseng.com) 2020-10-27 - 3:12:46 PM GMT- IP address: 69.21.248.123	020 OCT	
2	Document emailed to Jack Atkins (jack@atkinseng.com) for signature 2020-10-27 - 3:13:15 PM GMT	29 PN	
1	Email viewed by Jack Atkins (jack@atkinseng.com) 2020-10-27 - 3:13:54 PM GMT- IP address: 74.50.153.115	1:08	WICOE

- Document e-signed by Jack Atkins (jack@atkinseng.com) Signature Date: 2020-10-27 - 3:17:09 PM GMT - Time Source: server- IP address: 74.50.153.115
- Agreement completed. 2020-10-27 - 3:17:09 PM GMT



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National Water Information System: Web Interface

USGS Water Resources

 Data Category:
 Geographic Area:

 Groundwater
 V

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Groundwater levels for the Nation

Important: <u>Next Generation Monitoring Location Page</u>

Search Results -- 1 sites found

Agency code = usgs site_no list =

• 320532104001701

Minimum number of levels = 1 <u>Save file of selected sites</u> to local disk for future upload

USGS 320532104001701 25S.29E.32.21111

Eddy County, New Mexico Latitude 32°05'32", Longitude 104°00'17" NAD27 Land-surface elevation 2,988 feet above NAVD88 The depth of the well is 128 feet below land surface. This well is completed in the Other aquifers (N9999OTHER) national aquifer. This well is completed in the Rustler Formation (312RSLR) local aquifer.

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 (measur)
1949-03-11		D	62610		2871.10	NGVD29	1	Z	2	
1949-03-11		D	62611		2872.66	NAVD88	1	Z	2	
1949-03-11		D	72019	115.34			1	Z	2	
1958-08-19		D	62610		2887.81	NGVD29	1	Z	2	
1958-08-19		D	62611		2889.37	NAVD88	1	Z	Ζ	
1958-08-19		D	72019	98.63			1	Z	2	
1959-03-24		D	62610		2887.84	NGVD29	1	Z	2	
1959-03-24		D	62611		2889.40	NAVD88	1	Z	2	
1959-03-24		D	72019	98.60			1	Z	2	
1978-01-13		D	62610		2891.21	NGVD29	1	Z	2	
1978-01-13		D	62611		2892.77	NAVD88	1	Z	2	
1978-01-13		D	72019	95.23			1	Z	7	
1983-02-01		D	62610		2890.81	NGVD29	1	Z	2	
1983-02-01		D	62611		2892.37	NAVD88	1	Z	2	
1983-02-01		D	72019	95.63			1	Z	2	
1987-10-14		D	62610		2889.75	NGVD29	1	Z	2	

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Received by OCD: 4/20/2023 11:46:39 AM

Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source (measur(
1987-10-14		D	62611		2891.31	NAVD88	1	Z		
1987-10-14		D	72019	96.69			1	Z		
1988-04-06		D	62610		2889.51	NGVD29	1	z		
1988-04-06		D	62611		2891.07	NAVD88	1	Z		
1988-04-06		D	72019	96.93			1	Z		
1992-11-03		D	62610		2888.31	NGVD29	1	S		
1992-11-03		D	62611		2889.87	NAVD88	1	S		
1992-11-03		D	72019	98.13			1	S		

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
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
Source of measurement		Not determined
Water-level approval status	А	Approved for publication Processing and review completed.

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Accessibility FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey Title: Groundwater for USA: Water Levels URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2023-01-25 11:21:18 EST 0.32 0.27 nadww02





APPENDIX B

Photographic Log

Released to Imaging: 9/8/2023 10:44:35 AM





APPENDIX C

Laboratory Analytical Reports & Chain of Custody Documentation

Received by OCD: 4/20/2023 11:46:39 AM



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701 Generated 3/28/2023 7:58:51 AM

JOB DESCRIPTION

Cabo Wabo Federal Com 801H SDG NUMBER 03D2024150

JOB NUMBER

890-4321-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

See page two for job notes and contact information

Received by OCD: 4/20/2023 11:46:39 AM

1

Eurofins Carlsbad

Job Notes

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

RAMER

Generated 3/28/2023 7:58:51 AM

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

Laboratory Job ID: 890-4321-1 SDG: 03D2024150

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QC Association Summary	17
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Method Summary	24
Sample Summary	25
Chain of Custody	26
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Released to Imaging: 9/8/2023 10:44:35 AM

	Definitions/Glossary	1
Olianti Encolu	-	
Client: Ensolu Project/Site: C	Im Job ID: 890-4321- Cabo Wabo Federal Com 801H SDG: 03D202415	
-		_
Qualifiers		- 3
GC VOA		
Qualifier	Qualifier Description	4
S1-	Surrogate recovery exceeds control limits, low biased.	
S1+	Surrogate recovery exceeds control limits, high biased.	5
U	Indicates the analyte was analyzed for but not detected.	
GC Semi VOA	Α	
Qualifier	Qualifier Description	
S1+	Surrogate recovery exceeds control limits, high biased.	7
U	Indicates the analyte was analyzed for but not detected.	
HPLC/IC		8
Qualifier	Qualifier Description	
F1	MS and/or MSD recovery exceeds control limits.	9
U	Indicates the analyte was analyzed for but not detected.	
Glossary		- 10
Abbreviation	These commonly used abbreviations may or may not be present in this report.	- 44
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	
CFL	Contains Free Liquid	
CFU	Colony Forming Unit	
CNF	Contains No Free Liquid	
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	
DL	Detection Limit (DoD/DOE)	

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

DLC Decision Level Concentration (Radiochemistry)

 EDL
 Estimated Detection Limit (Dioxin)

 LOD
 Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDLMethod Detection LimitMLMinimum Level (Dioxin)MPNMost Probable NumberMQLMethod Quantitation Limit

NC Not Calculated ND Not Detected at the report

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

RERRelative Error Ratio (Radiochemistry)RLReporting 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

Job ID: 890-4321-1 SDG: 03D2024150

Job ID: 890-4321-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4321-1

Receipt

The samples were received on 3/15/2023 2:29 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 5.2°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS01 (890-4321-1), SS02 (890-4321-2), SS03 (890-4321-3), SS04 (890-4321-4), SS05 (890-4321-5), SS06 (890-4321-6) and SS07 (890-4321-7).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: SS01 (890-4321-1), SS02 (890-4321-2), SS03 (890-4321-3), SS04 (890-4321-4), SS05 (890-4321-5), SS06 (890-4321-6), SS07 (890-4321-7), (CCV 880-49342/2), (CCV 880-49342/20), (CCV 880-49342/33), (LCS 880-49291/1-A), (LCSD 880-49291/2-A), (MB 880-49291/5-A), (890-4309-A-1-F), (890-4309-A-1-D MS) and (890-4309-A-1-E MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-49012 and analytical batch 880-49067 was outside the upper control limits.

Method 8015MOD NM: The method blank for preparation batch 880-49012 and analytical batch 880-49067 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

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

HPLC/IC

Method 300 ORGFM 28D: The matrix spike duplicate (MSD) recoveries for preparation batch 880-49264 and analytical batch 880-49491 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. The associated samples are: SS01 (890-4321-1), SS02 (890-4321-2), SS03 (890-4321-3), SS04 (890-4321-4), SS05 (890-4321-5), SS06 (890-4321-6), SS07 (890-4321-7) and (890-4321-A-1-D MSD).

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

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Job ID: 890-4321-1 SDG: 03D2024150

Lab Sample ID: 890-4321-1

Client Sample ID: SS01

Date Collected: 03/13/23 09:50 Date Received: 03/15/23 14:29

Sample Depth: 0.5'

Client: Ensolum

le Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/23/23 08:54	03/23/23 21:43	
Toluene	<0.00199	U	0.00199	mg/Kg		03/23/23 08:54	03/23/23 21:43	
Ethylbenzene	<0.00199		0.00199	mg/Kg		03/23/23 08:54	03/23/23 21:43	
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/23/23 08:54	03/23/23 21:43	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/23/23 08:54	03/23/23 21:43	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/23/23 08:54	03/23/23 21:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	156	S1+	70 - 130			03/23/23 08:54	03/23/23 21:43	1
1,4-Difluorobenzene (Surr)	79		70 - 130			03/23/23 08:54	03/23/23 21:43	1
Method: TAL SOP Total BTEX - T	Total BTEX Cald	ulation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			03/27/23 13:18	1
Method: SW846 8015 NM - Diese	Range Organ		(CC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
				÷	_			u
Total TPH	<49.9		49.9	mg/Kg			03/22/23 16:11	1
: Method: SW846 8015B NM - Dies	sel Range Orga			mg/Kg Unit	 D	Prepared	03/22/23 16:11 Analyzed	1 Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	sel Range Orga	unics (DRO) Qualifier) (GC)		D	Prepared 03/20/23 13:48		Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	sel Range Orga Result	nics (DRO) Qualifier U) (GC) 	Unit	D	-	Analyzed	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	sel Range Orga Result <49.9	unics (DRO) Qualifier U) (GC) - <u>RL</u> 49.9	Unit mg/Kg	<u>D</u>	03/20/23 13:48	Analyzed 03/21/23 16:36	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	sel Range Orga 	unics (DRO) Qualifier U U U) (GC) - <u>RL</u> 49.9 49.9	Unit mg/Kg mg/Kg	<u>D</u>	03/20/23 13:48 03/20/23 13:48	Analyzed 03/21/23 16:36 03/21/23 16:36	Dil Fac 1 1
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	sel Range Orga Result <49.9 <49.9 <49.9	unics (DRO) Qualifier U U U) (GC) - <u>RL</u> 49.9 49.9 49.9	Unit mg/Kg mg/Kg	D	03/20/23 13:48 03/20/23 13:48 03/20/23 13:48	Analyzed 03/21/23 16:36 03/21/23 16:36 03/21/23 16:36	
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	sel Range Orga Result <49.9 <49.9 <49.9 <49.9 %Recovery	unics (DRO) Qualifier U U U) (GC) <u>RL</u> 49.9 49.9 49.9 <u>Limits</u>	Unit mg/Kg mg/Kg	<u>D</u>	03/20/23 13:48 03/20/23 13:48 03/20/23 13:48 Prepared	Analyzed 03/21/23 16:36 03/21/23 16:36 03/21/23 16:36 Analyzed	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	sel Range Orga Result <49.9 <49.9 <49.9 <49.9 %Recovery 86 86	unics (DRO) Qualifier U U Qualifier) (GC) <u>RL</u> 49.9 49.9 49.9 <u>Limits</u> 70 - 130 70 - 130	Unit mg/Kg mg/Kg	D	03/20/23 13:48 03/20/23 13:48 03/20/23 13:48 Prepared 03/20/23 13:48	Analyzed 03/21/23 16:36 03/21/23 16:36 03/21/23 16:36 Analyzed 03/21/23 16:36	Dil Fac 1 1 1 Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: EPA 300.0 - Anions, Ion	sel Range Orga Result <49.9 <49.9 <49.9 <49.9 %Recovery 86 86 86 Chromatograp	unics (DRO) Qualifier U U Qualifier) (GC) <u>RL</u> 49.9 49.9 49.9 <u>Limits</u> 70 - 130 70 - 130	Unit mg/Kg mg/Kg	D	03/20/23 13:48 03/20/23 13:48 03/20/23 13:48 Prepared 03/20/23 13:48	Analyzed 03/21/23 16:36 03/21/23 16:36 03/21/23 16:36 Analyzed 03/21/23 16:36	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	sel Range Orga Result <49.9 <49.9 <49.9 <49.9 %Recovery 86 86 86 Chromatograp	Qualifier U Qualifier U Qualifier) (GC) - RL 49.9 49.9 49.9 - Limits 70 - 130 70 - 130 10	Unit mg/Kg mg/Kg mg/Kg		03/20/23 13:48 03/20/23 13:48 03/20/23 13:48 Prepared 03/20/23 13:48 03/20/23 13:48	Analyzed 03/21/23 16:36 03/21/23 16:36 03/21/23 16:36 Analyzed 03/21/23 16:36 03/21/23 16:36	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: EPA 300.0 - Anions, Ion Analyte	sel Range Orga Result <49.9 <49.9 <49.9 <49.9 %Recovery 86 86 Chromatograp Result	Qualifier U Qualifier U Qualifier) (GC) <u>RL</u> 49.9 49.9 49.9 <u>Limits</u> 70 - 130 70 - 130 10 10 10 10 10 10 10 10 10 1	Unit mg/Kg mg/Kg mg/Kg		03/20/23 13:48 03/20/23 13:48 03/20/23 13:48 Prepared 03/20/23 13:48 03/20/23 13:48 03/20/23 13:48 Prepared	Analyzed 03/21/23 16:36 03/21/23 16:36 03/21/23 16:36 Analyzed 03/21/23 16:36 03/21/23 16:36	Dil Fau Dil Fau
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: EPA 300.0 - Anions, Ion Analyte Chloride	sel Range Orga Result <49.9 <49.9 <49.9 <49.9 %Recovery 86 86 Chromatograp Result	Qualifier U Qualifier U Qualifier) (GC) <u>RL</u> 49.9 49.9 49.9 <u>Limits</u> 70 - 130 70 - 130 10 10 10 10 10 10 10 10 10 1	Unit mg/Kg mg/Kg mg/Kg		03/20/23 13:48 03/20/23 13:48 03/20/23 13:48 Prepared 03/20/23 13:48 03/20/23 13:48 03/20/23 13:48 Prepared	Analyzed 03/21/23 16:36 03/21/23 16:36 03/21/23 16:36 Analyzed 03/21/23 16:36 03/21/23 16:36 03/21/23 16:36 03/21/23 16:42 nple ID: 890-	Dil Fau Dil Fau
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: EPA 300.0 - Anions, Ion Analyte Chloride Stient Sample ID: SS02	sel Range Orga Result <49.9 <49.9 <49.9 <49.9 %Recovery 86 86 Chromatograp Result	Qualifier U Qualifier U Qualifier) (GC) <u>RL</u> 49.9 49.9 49.9 <u>Limits</u> 70 - 130 70 - 130 10 10 10 10 10 10 10 10 10 1	Unit mg/Kg mg/Kg mg/Kg		03/20/23 13:48 03/20/23 13:48 03/20/23 13:48 Prepared 03/20/23 13:48 03/20/23 13:48 03/20/23 13:48 Prepared	Analyzed 03/21/23 16:36 03/21/23 16:36 03/21/23 16:36 Analyzed 03/21/23 16:36 03/21/23 16:36 03/21/23 16:36 03/21/23 16:42 nple ID: 890-	Dil Fa Dil Fa

Method: SW846 8021B - Volat	ile Organic Comp	ounds (GC))					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		03/23/23 08:54	03/23/23 22:08	1
Toluene	<0.00201	U	0.00201	mg/Kg		03/23/23 08:54	03/23/23 22:08	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		03/23/23 08:54	03/23/23 22:08	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		03/23/23 08:54	03/23/23 22:08	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		03/23/23 08:54	03/23/23 22:08	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		03/23/23 08:54	03/23/23 22:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	157	S1+	70 - 130			03/23/23 08:54	03/23/23 22:08	1

Eurofins Carlsbad

1 ug c 27 Uj

Matrix: Solid

5

Client Sample Results

Job ID: 890-4321-1 SDG: 03D2024150

Analyzed

Prepared

Client Sample ID: SS02

Date Collected: 03/13/23 09:55 Date Received: 03/15/23 14:29

Sam

Client: Ensolum

ple Depth: 0.5'		

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)						
Surrogate	%Recovery Qua	alifier Limits				
1 4-Difluorobenzene (Surr)		70 130				

1,4-Difluorobenzene (Surr)	82		70 - 130			03/23/23 08:54	03/23/23 22:08	1
Method: TAL SOP Total BTEX	• Total BTEX Calo	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00402	U	0.00402	mg/Kg			03/27/23 13:18	1

Method: SW846 8015 NW - Diesei R	ange Organics (DRO) (GC)					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 U	50.0	mg/Kg			03/22/23 16:11	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		03/20/23 13:48	03/21/23 16:59	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		03/20/23 13:48	03/21/23 16:59	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/20/23 13:48	03/21/23 16:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130			03/20/23 13:48	03/21/23 16:59	1
o-Terphenyl	91		70 - 130			03/20/23 13:48	03/21/23 16:59	1
o-Terphenyl	91		70 - 130				03/20/23 13:48	03/20/23 13:48 03/21/23 16:59

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Quaimer	RL	Unit		U	Prepared	Analyzeu	DIFac
Chloride	71.2		4.99	mg/ł	g			03/27/23 16:56	1

Client Sample ID: SS03

Date Collected: 03/13/23 10:00 Date Received: 03/15/23 14:29 Sample Depth: 0.5'

Method: SW846 8021B - Volatile Organic Compounds (GC) Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Benzene <0.00202 U 0.00202 mg/Kg 03/23/23 08:54 03/23/23 22:34 Toluene <0.00202 U 0.00202 03/23/23 08:54 03/23/23 22:34 mg/Kg 1 Ethylbenzene <0.00202 U 0.00202 mg/Kg 03/23/23 08:54 03/23/23 22:34 0.00404 m-Xylene & p-Xylene <0.00404 U 03/23/23 08:54 03/23/23 22:34 mg/Kg 1 o-Xylene <0.00202 U 0.00202 mg/Kg 03/23/23 08:54 03/23/23 22:34 1 Xylenes, Total <0.00404 U 0.00404 mg/Kg 03/23/23 08:54 03/23/23 22:34 1 %Recovery Qualifier Surrogate Limits Prepared Analvzed Dil Fac 158 S1+ 70 - 130 4-Bromofluorobenzene (Surr) 03/23/23 08:54 03/23/23 22:34 1 1,4-Difluorobenzene (Surr) 80 70 - 130 03/23/23 08:54 03/23/23 22:34 1 Method: TAL SOP Total BTEX - Total BTEX Calculation Analyte **Result Qualifier** RL D Unit Prepared Analyzed Dil Fac Total BTEX <0.00404 U 0.00404 03/27/23 13:18 mg/Kg 1 Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			03/22/23 16:11	1

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Lab Sample ID: 890-4321-2 Matrix: Solid 5 Dil Fac ac 1

3/28/2023

Lab Sample ID: 890-4321-3 Matrix: Solid

Job ID: 890-4321-1 SDG: 03D2024150

Matrix: Solid

Lab Sample ID: 890-4321-3

Analyzad

Droporod

Client Sample ID: SS03

Date Collected: 03/13/23 10:00 Date Received: 03/15/23 14:29

Sample Depth: 0.5'

Client: Ensolum

Method: SW846 8015B NM - Diesel	Range Organics (DRO) (GC)		
Analyte	Result Qualifier	RI	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	DilFac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		03/20/23 13:48	03/21/23 17:21	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		03/20/23 13:48	03/21/23 17:21	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/20/23 13:48	03/21/23 17:21	1
Sumo moto	% Decession	Qualifian	Limits			Dramawad	Analyzad	Dil Fac
Surrogate	%Recovery	Quaimer	Limits			Prepared	Analyzed	Dii Fac
1-Chlorooctane	102		70 - 130			03/20/23 13:48	03/21/23 17:21	1
o-Terphenyl	101		70 - 130			03/20/23 13:48	03/21/23 17:21	1

Ilmit

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.98	4.97	mg/Kg			03/25/23 17:38	1

Client Sample ID: SS04

Date Collected: 03/13/23 10:05

Date Received: 03/15/23 14:29

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		03/23/23 08:54	03/23/23 23:00	1
Toluene	<0.00198	U	0.00198	mg/Kg		03/23/23 08:54	03/23/23 23:00	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		03/23/23 08:54	03/23/23 23:00	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		03/23/23 08:54	03/23/23 23:00	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		03/23/23 08:54	03/23/23 23:00	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		03/23/23 08:54	03/23/23 23:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	151	S1+	70 - 130			03/23/23 08:54	03/23/23 23:00	1
1,4-Difluorobenzene (Surr)	89		70 - 130			03/23/23 08:54	03/23/23 23:00	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)					
		<mark>ics (DRO) (</mark> Qualifier	GC) RL	Unit	D	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH		Qualifier		<mark>Unit</mark> mg/Kg	<u>D</u>	Prepared	Analyzed 03/22/23 16:11	Dil Fac
Analyte Total TPH	Result <49.9	Qualifier U	RL 49.9		D	Prepared		Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies	Result <49.9	Qualifier U	RL 49.9		<u>D</u> 	Prepared Prepared		Dil Fac 1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result <49.9	Qualifier U Inics (DRO) Qualifier	(GC)	mg/Kg		<u>·</u>	03/22/23 16:11	1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9 sel Range Orga Result	Qualifier U Qualifier U U	(GC)	mg/Kg Unit		Prepared	03/22/23 16:11 Analyzed	1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 sel Range Orga Result <49.9	Qualifier U Qualifier U U	RL 49.9 (GC) RL 49.9	mg/Kg Unit mg/Kg		Prepared 03/20/23 13:48	03/22/23 16:11 Analyzed 03/21/23 17:43	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9 sel Range Orga Result <49.9	Qualifier U Qualifier U U U	RL 49.9 (GC) RL 49.9	mg/Kg Unit mg/Kg		Prepared 03/20/23 13:48	03/22/23 16:11 Analyzed 03/21/23 17:43	1 Dil Fac 1
Analyte	Result <49.9	Qualifier U Qualifier U U U U	RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/20/23 13:48 03/20/23 13:48	03/22/23 16:11 Analyzed 03/21/23 17:43 03/21/23 17:43	1 Dil Fac 1

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03/21/23 17:43

03/20/23 13:48

o-Terphenyl

70 - 130

82

3/28/2023

1

		Clien	it Sample Res	sults				
Client: Ensolum			-				Job ID: 890	-4321-
Project/Site: Cabo Wabo Federal C	om 801H						SDG: 03D2	202415
Client Sample ID: SS04						Lab Sar	nple ID: 890-	4321-4
Date Collected: 03/13/23 10:05							Matri	x: Solie
Date Received: 03/15/23 14:29								
Sample Depth: 0.5'								
-								
Method: EPA 300.0 - Anions, Ion		-			_	- ·		
Analyte		Qualifier		Unit	D	Prepared	Analyzed 03/25/23 17:43	Dil Fa
Chloride	\$4.90	0	4.90	mg/Kg			03/25/23 17:43	
Client Sample ID: SS05						Lab Sar	nple ID: 890-	4321-
Date Collected: 03/13/23 10:30								x: Solie
Date Received: 03/15/23 14:29								
Sample Depth: 0.5'								
_								
Method: SW846 8021B - Volatile								
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199		0.00199	mg/Kg		03/23/23 08:54	03/23/23 23:26	
Toluene	<0.00199		0.00199	mg/Kg		03/23/23 08:54	03/23/23 23:26	
Ethylbenzene	<0.00199		0.00199	mg/Kg		03/23/23 08:54	03/23/23 23:26	
m-Xylene & p-Xylene	<0.00398		0.00398	mg/Kg		03/23/23 08:54	03/23/23 23:26	
o-Xylene	<0.00199		0.00199	mg/Kg		03/23/23 08:54	03/23/23 23:26	
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/23/23 08:54	03/23/23 23:26	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	165	S1+	70 - 130			03/23/23 08:54	03/23/23 23:26	
1,4-Difluorobenzene (Surr)	80		70 - 130			03/23/23 08:54	03/23/23 23:26	
_ Method: TAL SOP Total BTEX - T								
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00398		0.00398	mg/Kg			03/27/23 13:18	
	0.00000	0	0.00000	ing/rtg			00/21/20 10:10	
Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<49.9	U	49.9	mg/Kg			03/22/23 16:11	
			(00)					
Method: SW846 8015B NM - Dies				11-14	_	Dremened	Analyzad	
Analyte		Qualifier		Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	\$49.9	J	49.9	mg/Kg		03/20/23 13:48	03/21/23 18:05	
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		03/20/23 13:48	03/21/23 18:05	
C10-C28)				0.0				
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/20/23 13:48	03/21/23 18:05	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane			70 - 130			03/20/23 13:48	03/21/23 18:05	
o-Terphenyl	93		70 - 130			03/20/23 13:48	03/21/23 18:05	
Method: EPA 300.0 - Anions, Ion	Chromatograp	ohy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chlorida	5730		50.0	ma/Ka	_		03/25/23 17:48	1

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03/25/23 17:48

Chloride

50.0

mg/Kg

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Job ID: 890-4321-1 SDG: 03D2024150

Lab Sample ID: 890-4321-6

Client Sample ID: SS06

Date Collected: 03/13/23 10:35 Date Received: 03/15/23 14:29

Sample Depth: 0.5'

Client: Ensolum

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00199	U	0.00199	mg/Kg		03/23/23 08:54	03/23/23 23:53	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/23/23 08:54	03/23/23 23:53	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/23/23 08:54	03/23/23 23:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/23/23 08:54	03/23/23 23:53	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/23/23 08:54	03/23/23 23:53	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/23/23 08:54	03/23/23 23:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	155	S1+	70 - 130			03/23/23 08:54	03/23/23 23:53	1
1,4-Difluorobenzene (Surr)	83		70 - 130			03/23/23 08:54	03/23/23 23:53	1
Method: TAL SOP Total BTEX - T	otal BTEX Calo	culation						
	Pocult	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Result	Quaimer		onit	-			
Analyte Total BTEX	<0.00398		0.00398	mg/Kg			03/27/23 13:18	1
Total BTEX	<0.00398	U	0.00398		=			1
Total BTEX Method: SW846 8015 NM - Diese	<pre><0.00398</pre>	U ics (DRO) (0.00398	mg/Kg			03/27/23 13:18	
Total BTEX Method: SW846 8015 NM - Diese Analyte	<0.00398 I Range Organ Result	U ics (DRO) (Qualifier	0.00398 GC) RL	mg/Kg Unit	 D	Prepared	03/27/23 13:18 Analyzed	Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte	<pre><0.00398</pre>	U ics (DRO) (Qualifier	0.00398	mg/Kg			03/27/23 13:18	
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH	<0.00398 I Range Organ Result <49.9	U ics (DRO) (Qualifier U	0.00398 GC) RL 49.9	mg/Kg Unit			03/27/23 13:18 Analyzed	Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies	-0.00398 I Range Organ Result	U ics (DRO) (Qualifier U	0.00398 GC) RL 49.9	mg/Kg Unit			03/27/23 13:18 Analyzed	Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	-0.00398 I Range Organ Result	U ics (DRO) (Qualifier U nnics (DRO) Qualifier	0.00398 GC) RL 49.9 (GC)	mg/Kg Unit mg/Kg	D	Prepared	03/27/23 13:18 Analyzed 03/22/23 16:11	Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<0.00398 I Range Organ Result <49.9 sel Range Orga Result	U ics (DRO) (Qualifier U mics (DRO) Qualifier U	0.00398 GC) RL 49.9 (GC) RL	mg/Kg Unit mg/Kg Unit	D	Prepared	03/27/23 13:18 Analyzed 03/22/23 16:11 Analyzed	Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<pre><0.00398 I Range Organ Result <pre></pre> <pre></pre> <pre></pre> <pre></pre> <pre>Sel Range Orga </pre> <pre>Result </pre> <pre></pre> <pre><td>U ics (DRO) (Qualifier U mics (DRO) Qualifier U U</td><td>0.00398 GC) RL 49.9 (GC) RL 49.9</td><td>mg/Kg Unit mg/Kg Unit mg/Kg</td><td> D</td><td>Prepared Prepared 03/20/23 13:48</td><td>03/27/23 13:18 Analyzed 03/22/23 16:11 Analyzed 03/21/23 18:27</td><td>Dil Fac 1 Dil Fac 1</td></pre></pre>	U ics (DRO) (Qualifier U mics (DRO) Qualifier U U	0.00398 GC) RL 49.9 (GC) RL 49.9	mg/Kg Unit mg/Kg Unit mg/Kg	D	Prepared Prepared 03/20/23 13:48	03/27/23 13:18 Analyzed 03/22/23 16:11 Analyzed 03/21/23 18:27	Dil Fac 1 Dil Fac 1
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<0.00398 I Range Organ Result <49.9 sel Range Orga Result <49.9 <49.9	U ics (DRO) (Qualifier U mics (DRO) Qualifier U U U	0.00398 GC) RL 49.9 (GC) RL 49.9 49.9 49.9	mg/Kg Unit mg/Kg Unit mg/Kg mg/Kg mg/Kg	D	Prepared Prepared 03/20/23 13:48 03/20/23 13:48	O3/27/23 13:18 Analyzed 03/22/23 16:11 Analyzed 03/21/23 18:27 03/21/23 18:27 03/21/23 18:27	Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	<0.00398 I Range Organ <p>Result sel Range Orga Result sel Range Orga Result <49.9</p> <49.9 <49.9	U ics (DRO) (Qualifier U mics (DRO) Qualifier U U U	0.00398 GC) RL 49.9 (GC) RL 49.9 49.9 49.9 49.9	mg/Kg Unit mg/Kg Unit mg/Kg mg/Kg mg/Kg	D	Prepared Prepared 03/20/23 13:48 03/20/23 13:48 03/20/23 13:48	O3/27/23 13:18 Analyzed O3/22/23 16:11 Analyzed O3/21/23 18:27 O3/21/23 18:27 O3/21/23 18:27 O3/21/23 18:27 O3/21/23 18:27	Dil Fac 1 Dil Fac 1 1

ſ	Method: EPA 300.0 - Anions, Ion Ch	romatograp	hy - Soluble						
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	6100		50.2	mg/Kg			03/25/23 18:01	10

Client Sample ID: SS07 Date Collected: 03/13/23 10:40

Date Received: 03/15/23 14:29

Sample Depth: 0.5'

Method: SW846 8021B - Volatile (Organic Comp	ounds (GC))					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/23/23 08:54	03/24/23 01:39	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/23/23 08:54	03/24/23 01:39	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/23/23 08:54	03/24/23 01:39	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		03/23/23 08:54	03/24/23 01:39	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/23/23 08:54	03/24/23 01:39	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		03/23/23 08:54	03/24/23 01:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	161	S1+	70 - 130			03/23/23 08:54	03/24/23 01:39	1

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Lab Sample ID: 890-4321-7

Matrix: Solid

Matrix: Solid

5

Released to Imaging: 9/8/2023 10:44:35 AM

Client Sample Results

Job ID: 890-4321-1 SDG: 03D2024150

Matrix: Solid

5

Lab Sample ID: 890-4321-7

Client Sample ID: SS07

Date Collected: 03/13/23 10:40

Date Received: 03/15/23 14:29 Sample Depth: 0.5'

Client: Ensolum

	Valatila Organia Compounda (CC) (C

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	79		70 - 130			03/23/23 08:54	03/24/23 01:39	1
Method: TAL SOP Total BTEX - To	otal BTEX Calo	ulation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00401	U	0.00401	mg/Kg			03/27/23 13:18	
Method: SW846 8015 NM - Diese	l Range Organi	ics (DRO) ((GC)					
Analyte	• •	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<50.0	U	50.0	mg/Kg			03/22/23 16:11	
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		03/20/23 13:48	03/21/23 18:50	
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		03/20/23 13:48	03/21/23 18:50	
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/20/23 13:48	03/21/23 18:50	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	79		70 - 130			03/20/23 13:48	03/21/23 18:50	
o-Terphenyl	79		70 - 130			03/20/23 13:48	03/21/23 18:50	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	143		5.01	mg/Kg			03/25/23 18:06	

Surrogate Summary

Client: Ensolum Project/Site: Cabo Wabo Federal Com 801H

Method: 8021B - Volatile Organic Compounds (GC) Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-4309-A-1-D MS	Matrix Spike	171 S1+	87	·
890-4309-A-1-E MSD	Matrix Spike Duplicate	168 S1+	98	
890-4321-1	SS01	156 S1+	79	
890-4321-2	SS02	157 S1+	82	
890-4321-3	SS03	158 S1+	80	
890-4321-4	SS04	151 S1+	89	
890-4321-5	SS05	165 S1+	80	
890-4321-6	SS06	155 S1+	83	
890-4321-7	SS07	161 S1+	79	
LCS 880-49291/1-A	Lab Control Sample	154 S1+	69 S1-	
LCSD 880-49291/2-A	Lab Control Sample Dup	161 S1+	91	
MB 880-49291/5-A	Method Blank	100	76	
Surrogate Legend				
BFB = 4-Bromofluorober	nzene (Surr)			
DFBZ = 1,4-Difluoroben	zene (Surr)			

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

Matrix: Solid

				Percent Surrogate Recover
		1CO1	OTPH1	
_ab Sample ID	Client Sample ID	(70-130)	(70-130)	
390-4320-A-1-B MS	Matrix Spike	118	96	
390-4320-A-1-C MSD	Matrix Spike Duplicate	87	84	
390-4321-1	SS01	86	86	
390-4321-2	SS02	98	91	
390-4321-3	SS03	102	101	
390-4321-4	SS04	82	82	
390-4321-5	SS05	93	93	
390-4321-6	SS06	82	83	
390-4321-7	SS07	79	79	
CS 880-49012/2-A	Lab Control Sample	90	99	
CSD 880-49012/3-A	Lab Control Sample Dup	101	112	
MB 880-49012/1-A	Method Blank	128	133 S1+	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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Prep Type: Total/NA

Prep Type: Total/NA

Lab Sample ID: MB 880-49291/5-A

QC Sample Results

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Analysis Batch: 49342							Prep Type: 1 Prep Batch	
-	MB	МВ					-	
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00200	U	0.00200	mg/Kg		03/23/23 08:54	03/23/23 19:34	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/23/23 08:54	03/23/23 19:34	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/23/23 08:54	03/23/23 19:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/23/23 08:54	03/23/23 19:34	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/23/23 08:54	03/23/23 19:34	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/23/23 08:54	03/23/23 19:34	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130			03/23/23 08:54	03/23/23 19:34	1
1,4-Difluorobenzene (Surr)	76		70 - 130			03/23/23 08:54	03/23/23 19:34	1

Lab Sample ID: LCS 880-49291/1-A Matrix: Solid

Analysis Batch: 49342

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1140		mg/Kg		114	70 - 130	_
Toluene	0.100	0.1015		mg/Kg		101	70 - 130	
Ethylbenzene	0.100	0.1191		mg/Kg		119	70 - 130	
m-Xylene & p-Xylene	0.200	0.2517		mg/Kg		126	70 - 130	
o-Xylene	0.100	0.1206		mg/Kg		121	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	154	S1+	70 - 130
1,4-Difluorobenzene (Surr)	69	S1-	70 - 130

Lab Sample ID: LCSD 880-49291/2-A

Matrix: Solid aluaia Detel

Analysis Batch: 49342							Prep	Batch:	49291
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1232		mg/Kg		123	70 - 130	8	35
Toluene	0.100	0.1003		mg/Kg		100	70 - 130	1	35
Ethylbenzene	0.100	0.1188		mg/Kg		119	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.2526		mg/Kg		126	70 - 130	0	35
o-Xylene	0.100	0.1215		mg/Kg		121	70 - 130	1	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)		S1+	70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: 890-4309-A-1-D MS

Matrix: Solid aluaia Batahi 40242

Analysis Batch: 49342									Prep	Batch: 49291
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.100	0.08291		mg/Kg		83	70 - 130	
Toluene	<0.00200	U	0.100	0.07383		mg/Kg		74	70 - 130	

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Prep Type: Total/NA

Client Sample ID: Matrix Spike

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 49291
QC Sample Results

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

· ·	ob ID: 890- SDG: 03D2(

ethod: 8021B - Volatile O	rganic Cor	npo	unds (C	SC) (Co	ntinu	ed)								
_ab Sample ID: 890-4309-A-1-E Matrix: Solid Analysis Batch: 49342	D MS										Client		: Matrix Type: To Batch:	tal/NA
	Sample	Sam	ple	Spike		MS	MS					%Rec	Batom	40201
Analyte	Result		•	Added			Qualifier	Unit		D	%Rec	Limits		
Ethylbenzene	<0.00200			0.100	(0.07977		mg/Kg		_	80	70 - 130		
m-Xylene & p-Xylene	<0.00399	U		0.200		0.1666		mg/Kg			83	70 - 130		
o-Xylene	<0.00200	U		0.100	(0.08092		mg/Kg			81	70 - 130		
	MS	мs												
Surrogate	%Recovery	Qua	lifier	Limits	_									
4-Bromofluorobenzene (Surr)	171	S1+		70 - 130										
1,4-Difluorobenzene (Surr)	87			70 _ 130										
Lab Sample ID: 890-4309-A-1-E	E MSD								Clie	nt Sa	mple ID:	Matrix Sp	oike Duj	olicate
Matrix: Solid													Type: To	
Analysis Batch: 49342												Prep	Batch:	49291
	Sample	Sam	ple	Spike		MSD	MSD					%Rec		RPD
Analyte	Result		ifier	Added			Qualifier	Unit		D	%Rec	Limits	RPD	Limit
Benzene	<0.00200			0.0990		0.1086		mg/Kg			110	70 - 130	27	35
Toluene	<0.00200			0.0990		0.09435		mg/Kg			95	70 - 130	24	35
Ethylbenzene	<0.00200			0.0990		0.09886		mg/Kg			100	70 - 130	21	35
m-Xylene & p-Xylene	<0.00399			0.198		0.2056		mg/Kg			104	70 - 130	21	35
p-Xylene	<0.00200	U		0.0990	(0.09713		mg/Kg			98	70 - 130	18	35
	MSD	MSD)											
Surrogate	%Recovery	Qua	lifier	Limits	_									
4-Bromofluorobenzene (Surr)	168	S1+		70 - 130										
1,4-Difluorobenzene (Surr)	98			70 _ 130										
ethod: 8015B NM - Diese	I Range Or	gar	ics (DR	O) (GC))									
Lab Sample ID: MB 880-49012/	'1-A										Client Sa	ample ID:	Method	Blank
Matrix: Solid													Type: To	
Analysis Batch: 49067													Batch:	
-		ΜВ	МВ											
Analyte	R	esult	Qualifier		RL		Unit		D	Pi	repared	Analyz	ed	Dil Fac
Gasoline Range Organics	~	50.0	U		50.0		mg/K	9	_	03/20	0/23 13:48	03/21/23	08:28	1
(GRO)-C6-C10 Diesel Range Organics (Over	<	50.0	U		50.0		mg/Kg	a		03/20	0/23 13:48	03/21/23	08:28	1
C10-C28)								-						
Oll Range Organics (Over C28-C36)	<	50.0			50.0		mg/Kg	9		03/20	0/23 13:48	03/21/23	08:28	1
Surrogato	0/ De		MB Qualifier	1;	vite					P	ronarad	Analis	od	Dil Fac
Surrogate 1-Chlorooctane	%//////////////////////////////////////	128	Quaimer		130						r epared 0/23 13:48	Analyz 03/21/23		DII Fac
			S1+											
p-Terphenyl		133	S1+	70 -	130					03/2	0/23 13:48	03/21/23	UO.20	1
Lab Sample ID: LCS 880-49012	2/2-A								С	lient	Sample	ID: Lab Co	ontrol S	ample
Matrix: Solid												Prep 1	Type: To	tal/NA
Analysis Batch: 49067												Dron	Batch:	40042

Analysis Batch: 49067 Prep Batch: 49012 Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics 1000 857.2 86 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 846.3 mg/Kg 85 70 - 130 C10-C28)

QC Sample Results

Client: Ensolum Project/Site: Cabo Wabo Federal Com 801H

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

Job ID: 890-4321-1 SDG: 03D2024150

Lab Sample ID: LCS 880-49	012/2-A						Client	Sample	ID: Lab Co		
Matrix: Solid										Type: To	
Analysis Batch: 49067									Prep	Batch:	4901
	LCS	LCS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	90		70 - 130								
o-Terphenyl	99		70 - 130								
Lab Sample ID: LCSD 880-4	49012/3-A					Clier	nt Sam	ple ID: I	_ab Contro	I Sample	e Du
Matrix: Solid										· Type: Tot	
Analysis Batch: 49067										Batch:	
-			Spike	LCSD	LCSD				%Rec		RP
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Lim
Gasoline Range Organics (GRO)-C6-C10			1000	840.2		mg/Kg		84	70 - 130	2	2
Diesel Range Organics (Over			1000	962.9		mg/Kg		96	70 - 130	13	2
C10-C28)						0 0					
	LCSD	LCSD									
Surrogate	%Recovery		Limits								
1-Chlorooctane			70 - 130								
o-Terphenyl	112		70 - 130								
Matrix: Solid Analysis Batch: 49067										Satch:	
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	998	966.0		mg/Kg		95	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	998	943.6		mg/Kg		91	70 - 130		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	118		70 - 130								
o-Terphenyl	96		70 - 130								
Lab Sample ID: 890-4320-A	-1-C MSD					CI	ient Sa	ample ID	: Matrix Sp	oike Dup	olica
Matrix: Solid									Prep T	Type: To	tal/N
Analysis Batch: 49067									Prep	Batch:	490 1
	Sample	Sample	Spike	MSD	MSD				%Rec		RF
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Lin
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	999	942.1		mg/Kg		92	70 - 130	3	2
Diesel Range Organics (Over C10-C28)	<49.9	U	999	832.9		mg/Kg		80	70 - 130	12	2
		MSD									
	MSD	11130									
Surrogate	MSD %Recovery		Limits								
Surrogate 1-Chlorooctane			Limits								

Released to Imaging: 9/8/2023 10:44:35 AM

QC Sample Results

Job ID: 890-4321-1 SDG: 03D2024150

Client: Ensolum Project/Site: Cabo Wabo Federal Com 801H

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-49264/1-A Matrix: Solid										U.I.C		ample ID: I Prep [·]	Type: S	
Analysis Batch: 49491														
		MB	МВ											
Analyte	R	esult	Qualifier		RL		Unit	t	D	Prepa	red	Analyz	əd	Dil Fac
Chloride	<	<5.00	U		5.00		mg/	Kg				03/25/23 1	7:07	
Lab Sample ID: LCS 880-49264/2-A									Clie	nt Sar	nple	ID: Lab Co	ontrol S	ample
Matrix: Solid												Prep [·]	Гуре: S	oluble
Analysis Batch: 49491														
				Spike		LCS	LCS					%Rec		
Analyte				Added		Result	Qualifier	Unit	[D %F	lec	Limits		
Chloride				250		252.8		mg/Kg		1	01	90 _ 110		
Lab Sample ID: LCSD 880-49264/3	-A							CI	ient Sa	ample	ID: L	ab Contro	I Sampl	le Duj
Matrix: Solid												Prep [·]	Гуре: S	olubl
Analysis Batch: 49491														
				Spike		LCSD	LCSD					%Rec		RPI
Analyte				Added		Result	Qualifier	Unit		D_%F	lec	Limits	RPD	Limi
Chloride				250		262.5		mg/Kg		1	05	90 _ 110	4	20
Lab Sample ID: 890-4321-1 MS												Client San	nple ID:	: SS0 [,]
Matrix: Solid												Prep [·]	Гуре: S	oluble
Analysis Batch: 49491														
	Sample	Samp	ple	Spike		MS	MS					%Rec		
Analyte	Result	Quali	ifier	Added		Result	Qualifier	Unit		D%F	lec	Limits		
Chloride	37.0	F1		252		314.6		mg/Kg		1	110	90 _ 110		
												Client San	nple ID:	: SS0 [.]
Lab Sample ID: 890-4321-1 MSD												Prep [·]	Гуре: S	olubl
Matrix: Solid														
Lab Sample ID: 890-4321-1 MSD Matrix: Solid Analysis Batch: 49491	Sample	Samı	ple	Spike		MSD	MSD					%Rec		RPD
Matrix: Solid	Sample Result			Spike Added			MSD Qualifier	Unit		D_%F	lec	%Rec Limits	RPD	RPC Limi

Client: Ensolum Project/Site: Cabo Wabo Federal Com 801H Job ID: 890-4321-1 SDG: 03D2024150

GC VOA

Prep Batch: 49291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4321-1	SS01	Total/NA	Solid	5035	
890-4321-2	SS02	Total/NA	Solid	5035	
890-4321-3	SS03	Total/NA	Solid	5035	
890-4321-4	SS04	Total/NA	Solid	5035	
890-4321-5	SS05	Total/NA	Solid	5035	
890-4321-6	SS06	Total/NA	Solid	5035	
890-4321-7	SS07	Total/NA	Solid	5035	
MB 880-49291/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-49291/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-49291/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4309-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
890-4309-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 49342

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-4321-1	SS01	Total/NA	Solid	8021B	49291
890-4321-2	SS02	Total/NA	Solid	8021B	49291
890-4321-3	SS03	Total/NA	Solid	8021B	49291
890-4321-4	SS04	Total/NA	Solid	8021B	49291
890-4321-5	SS05	Total/NA	Solid	8021B	49291
890-4321-6	SS06	Total/NA	Solid	8021B	49291
890-4321-7	SS07	Total/NA	Solid	8021B	49291
MB 880-49291/5-A	Method Blank	Total/NA	Solid	8021B	49291
LCS 880-49291/1-A	Lab Control Sample	Total/NA	Solid	8021B	49291
LCSD 880-49291/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	49291
890-4309-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	49291
890-4309-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	49291

Analysis Batch: 49632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4321-1	SS01	Total/NA	Solid	Total BTEX	
890-4321-2	SS02	Total/NA	Solid	Total BTEX	
890-4321-3	SS03	Total/NA	Solid	Total BTEX	
890-4321-4	SS04	Total/NA	Solid	Total BTEX	
890-4321-5	SS05	Total/NA	Solid	Total BTEX	
890-4321-6	SS06	Total/NA	Solid	Total BTEX	
890-4321-7	SS07	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 49012

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-4321-1	SS01	Total/NA	Solid	8015NM Prep	
890-4321-2	SS02	Total/NA	Solid	8015NM Prep	
890-4321-3	SS03	Total/NA	Solid	8015NM Prep	
890-4321-4	SS04	Total/NA	Solid	8015NM Prep	
890-4321-5	SS05	Total/NA	Solid	8015NM Prep	
890-4321-6	SS06	Total/NA	Solid	8015NM Prep	
890-4321-7	SS07	Total/NA	Solid	8015NM Prep	
MB 880-49012/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-49012/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

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Client: Ensolum Project/Site: Cabo Wabo Federal Com 801H

GC Semi VOA (Continued)

Prep Batch: 49012 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-49012/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4320-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4320-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 49067

ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
90-4321-1	SS01	Total/NA	Solid	8015B NM	49012
90-4321-2	SS02	Total/NA	Solid	8015B NM	49012
90-4321-3	SS03	Total/NA	Solid	8015B NM	49012
90-4321-4	SS04	Total/NA	Solid	8015B NM	49012
90-4321-5	SS05	Total/NA	Solid	8015B NM	49012
90-4321-6	SS06	Total/NA	Solid	8015B NM	49012
90-4321-7	SS07	Total/NA	Solid	8015B NM	49012
IB 880-49012/1-A	Method Blank	Total/NA	Solid	8015B NM	49012
CS 880-49012/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	49012
CSD 880-49012/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	49012
90-4320-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	49012
90-4320-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	49012

Analysis Batch: 49233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4321-1	SS01	Total/NA	Solid	8015 NM	
890-4321-2	SS02	Total/NA	Solid	8015 NM	
890-4321-3	SS03	Total/NA	Solid	8015 NM	
890-4321-4	SS04	Total/NA	Solid	8015 NM	
890-4321-5	SS05	Total/NA	Solid	8015 NM	
890-4321-6	SS06	Total/NA	Solid	8015 NM	
890-4321-7	SS07	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 49264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4321-1	SS01	Soluble	Solid	DI Leach	
890-4321-2	SS02	Soluble	Solid	DI Leach	
890-4321-3	SS03	Soluble	Solid	DI Leach	
890-4321-4	SS04	Soluble	Solid	DI Leach	
890-4321-5	SS05	Soluble	Solid	DI Leach	
890-4321-6	SS06	Soluble	Solid	DI Leach	
890-4321-7	SS07	Soluble	Solid	DI Leach	
MB 880-49264/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-49264/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-49264/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4321-1 MS	SS01	Soluble	Solid	DI Leach	
890-4321-1 MSD	SS01	Soluble	Solid	DI Leach	

Analysis Batch: 49491

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-4321-1	SS01	Soluble	Solid	300.0	49264
890-4321-2	SS02	Soluble	Solid	300.0	49264
890-4321-3	SS03	Soluble	Solid	300.0	49264

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Job ID: 890-4321-1 SDG: 03D2024150

Client: Ensolum Project/Site: Cabo Wabo Federal Com 801H

HPLC/IC (Continued)

Analysis Batch: 49491 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4321-4	SS04	Soluble	Solid	300.0	49264
890-4321-5	SS05	Soluble	Solid	300.0	49264
890-4321-6	SS06	Soluble	Solid	300.0	49264
890-4321-7	SS07	Soluble	Solid	300.0	49264
MB 880-49264/1-A	Method Blank	Soluble	Solid	300.0	49264
LCS 880-49264/2-A	Lab Control Sample	Soluble	Solid	300.0	49264
LCSD 880-49264/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	49264
890-4321-1 MS	SS01	Soluble	Solid	300.0	49264
890-4321-1 MSD	SS01	Soluble	Solid	300.0	49264

Job ID: 890-4321-1 SDG: 03D2024150

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Job ID: 890-4321-1 SDG: 03D2024150

Lab Sample ID: 890-4321-1 Matrix: Solid

Lab Sample ID: 890-4321-2

Lab Sample ID: 890-4321-3

Lab Sample ID: 890-4321-4

Matrix: Solid

Matrix: Solid

Date Collected: 03/13/23 09:50 Date Received: 03/15/23 14:29

Client Sample ID: SS01

Client: Ensolum

	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	49291	03/23/23 08:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49342	03/23/23 21:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49632	03/27/23 13:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49233	03/22/23 16:11	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49012	03/20/23 13:48	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49067	03/21/23 16:36	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	49264	03/22/23 22:06	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49491	03/27/23 16:42	SMC	EET MID

Client Sample ID: SS02

Date Collected: 03/13/23 09:55

Date Received: 03/15/23 14:29

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	49291	03/23/23 08:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49342	03/23/23 22:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49632	03/27/23 13:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49233	03/22/23 16:11	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49012	03/20/23 13:48	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49067	03/21/23 16:59	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	49264	03/22/23 22:06	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49491	03/27/23 16:56	SMC	EET MID

Client Sample ID: SS03

Date Collected: 03/13/23 10:00

Date Received: 03/15/23 14:29

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	49291	03/23/23 08:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49342	03/23/23 22:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49632	03/27/23 13:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49233	03/22/23 16:11	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49012	03/20/23 13:48	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49067	03/21/23 17:21	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	49264	03/22/23 22:06	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49491	03/25/23 17:38	SMC	EET MID

Client Sample ID: SS04 Date Collected: 03/13/23 10:05 Date Received: 03/15/23 14:29

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	49291	03/23/23 08:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49342	03/23/23 23:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49632	03/27/23 13:18	AJ	EET MID

Eurofins Carlsbad

Matrix: Solid

Released to Imaging: 9/8/2023 10:44:35 AM

Job ID: 890-4321-1 SDG: 03D2024150

Lab Sample ID: 890-4321-4 Matrix: Solid

Lab Sample ID: 890-4321-5

Date Collected: 03/13/23 10:05 Date Received: 03/15/23 14:29

Client Sample ID: SS04

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			49233	03/22/23 16:11	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49012	03/20/23 13:48	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49067	03/21/23 17:43	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	49264	03/22/23 22:06	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49491	03/25/23 17:43	SMC	EET MID

Client Sample ID: SS05 Date Collected: 03/13/23 10:30

Date Received: 03/15/23 14:29

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	49291	03/23/23 08:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49342	03/23/23 23:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49632	03/27/23 13:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49233	03/22/23 16:11	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	49012	03/20/23 13:48	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49067	03/21/23 18:05	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	49264	03/22/23 22:06	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	49491	03/25/23 17:48	SMC	EET MID

Client Sample ID: SS06

Date Collected: 03/13/23 10:35 Date Received: 03/15/23 14:29

	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	49291	03/23/23 08:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49342	03/23/23 23:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49632	03/27/23 13:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49233	03/22/23 16:11	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49012	03/20/23 13:48	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49067	03/21/23 18:27	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	49264	03/22/23 22:06	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	49491	03/25/23 18:01	SMC	EET MID

Client Sample ID: SS07 Date Collected: 03/13/23 10:40

Date Received: 03/15/23 14:29

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	49291	03/23/23 08:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49342	03/24/23 01:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49632	03/27/23 13:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49233	03/22/23 16:11	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49012	03/20/23 13:48	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49067	03/21/23 18:50	SM	EET MID

Eurofins Carlsbad

Matrix: Solid

9 10 11

11 12 13

Lab Sample ID: 890-4321-6

Lab Sample ID: 890-4321-7

Matrix: Solid

Matrix: Solid

Lab Chronicle

Job ID: 890-4321-1

Client Sample ID: SS07 Date Collected: 03/13/23 10:40 Date Received: 03/15/23 14:29

Client: Ensolum

1	Batch	Batch		Dil	Initial	Final	Datah	Dremered			
	Batch	Batch		DII	initiai	Final	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab	
Soluble	Leach	DI Leach			4.99 g	50 mL	49264	03/22/23 22:06	KS	EET MID	
Soluble	Analysis	300.0		1	50 mL	50 mL	49491	03/25/23 18:06	SMC	EET MID	

Laboratory References:

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

SDG: 03D2024150

Lab Sample ID: 890-4321-7 Matrix: Solid

Accreditation/Certification Summary

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		Accreditation/C	ertification Summary		
Client: Ensolum Project/Site: Cabo Wab	oo Federal Com 801	IH		Job ID: 890-4321-1 SDG: 03D2024150	2
Laboratory: Eurofi Unless otherwise noted, all a		y were covered under each acc	reditation/certification below.		
Authority		Program	Identification Number	Expiration Date	
• •		NELAP rt, but the laboratory is not certifi	T104704400-22-25 ied by the governing authority. This list ma	06-30-23 ay include analytes for which	5
the agency does not of Analysis Method	fer certification. Prep Method	Matrix	Analyte		
8015 NM Total BTEX		Solid Solid	Total TPH Total BTEX		
					8
					9
					10
					13

Client: Ensolum

Job ID: 890-4321-1 SDG: 03D2024150

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 8015 NM Diesel Range Organics (DRO) (GC) SW846 EET MID 8015 NM Diesel Range Organics (DRO) (GC) SW846 EET MID 5030 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 EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440	Method	Method Description	Protocol	Laboratory
8015 NMDiesel Range Organics (DRO) (GC)SW846EET MID8015 NMDiesel Range Organics (DRO) (GC)SW846EET MID8015 NMDiesel Range Organics (DRO) (GC)SW846EET MID800.0Anions, Ion ChromatographyEPAEET MID5035Closed System Purge and TrapSW846EET MID8015 NM PrepMicroextractionSW846EET MIDDI LeachDeionized Water Leaching ProcedureASTMEET MIDProtocol 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 ProcedureSUB And Its Updates.	8021B	Volatile Organic Compounds (GC)	SW846	EET MID
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	Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
300.0Anions, Ion ChromatographyEPAEET MID5035Closed System Purge and TrapSW846EET MID8015NM PrepMicroextractionSW846EET MIDDI LeachDeionized Water Leaching ProcedureASTMEET MIDProtocol References:ASTM = ASTM InternationalEPA = US Environmental Protection AgencySW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.TAL SOP = TestAmerica Laboratories, Standard Operating Procedure	8015 NM	Diesel Range Organics (DRO) (GC)	SW846	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:	8015B NM	Diesel Range Organics (DRO) (GC)	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: Laboratory References: Kasta Standard Operating Procedure	300.0	Anions, Ion Chromatography	EPA	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:	5035	Closed System Purge and Trap	SW846	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:	8015NM Prep	Microextraction	SW846	EET MID
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:	DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID
TAL SOP = TestAmerica Laboratories, Standard Operating Procedure Laboratory References:			ition November 1986 And Its Undetes	
TAL SOP = TestAmerica Laboratories, Standard Operating Procedure Laboratory References:	SW846 = '	Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Ed	ition, November 1986 And Its Updates.	
•	TAL SOP =	TestAmerica Laboratories, Standard Operating Procedure		
	-			
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Eurofins Carlsbad

Released to Imaging: 9/8/2023 10:44:35 AM

Sample Summary

Job ID: 890-4321-1
SDG: 03D2024150

		Sample Sum	ımary			
Client: Ensolun Project/Site: Ca	n abo Wabo Federal Com 801H				Job ID: 890-4321-1 SDG: 03D2024150	2
Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
890-4321-1	SS01	Solid	03/13/23 09:50	03/15/23 14:29	0.5'	
890-4321-2	SS02	Solid	03/13/23 09:55	03/15/23 14:29	0.5'	
890-4321-3	SS03	Solid	03/13/23 10:00	03/15/23 14:29	0.5'	5
890-4321-4	SS04	Solid	03/13/23 10:05	03/15/23 14:29	0.5'	
890-4321-5	SS05	Solid	03/13/23 10:30	03/15/23 14:29	0.5'	
890-4321-6	SS06	Solid	03/13/23 10:35	03/15/23 14:29	0.5'	
890-4321-7	SS07	Solid	03/13/23 10:40	03/15/23 14:29	0.5'	
						8
						Ş
						1
						1

🐺 eurotins		Environment Testing Xenco	esting	Hous Midlanc EL Pa Hobb:	ston, TX (281) 2 1, TX (432) 704 1so, TX (915) 5 1so, NM (575) 39	;40-4200, Dalla -5440, San Antr 35-3443, Lubbo 2-7550, Carlsba	Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	Work Order No:	om Page
								www.xenco.com	om Pa
Project Manager: Hadlie	Hadlie Green			Bill to: (if different)		Hadlie Green		Work Or	Work Order Comments
	Ensolum, LLC			Company Name:		Ensolum, LLC	Pr	Program: UST/PST PRP Brownfields RRC	rownfields
	601 N Marienfeld St Suite 400	t Suite 400		Address:		601 N Marienfeld St Suite 400		State of Project:]
e ZIP:	Midland, TX 79701			City, State ZIP:	Midlar	Midland, TX 79701	Re	Reporting: Level IILevel III PST/UST TRRP	PST/UST
	432-557-8895		Email:		lum.com		De	Deliverables: EDD	ADaPT
Name:	Cabo Wabo Federal Com 801H	ral Com 801H		Turn Around		4	ANALYSIS REQUEST	ST	Preservative Codes
т: -	03D2024150	1150	Rout	🗌 Rush	Pres. Code				None: NO
Project Location:	32.1225,-103.9338)3.9338	Due Date:						Cool: Cool
Sampler's Name:	Peter Van Patten	Patten	TAT starts th	e day received by					HCL: HC
PO #:			the lab, if red	the lab, if received by 4:30pm	ers				H ₂ S0 ₄ : H ₂
SAMPLE RECEIPT	Tepha Blank:	Yes No	Wet Ice:	(Yes No					H ₃ PO ₄ : HP
Samples Received Intact:	(es No	Thermo	ter ID:	TNN-507	aran : 300				NaHSO4: NABIS
Cooler Custody Seals:	Yes No NIA	A Correction Factor:	Factor:	5.9					Na202U3. Na0U3
Sample Custody Seals:	Yes No LWA	-	Temperature Reading:	1.4	:s (I				VIDOUT Accelate FiveOn. 21
Total Containers:		Corrected	Corrected Temperature:	1 12	RIDI		1. 1919 1919 1919 1919 1919 1919 1		
Sample Identification	on Matrix	rix Date Sampled	Time Sampled	Depth Comp	Cont CHLO	TPH (8 BTEX	890-4321 Chain of Custody	V	Sample Comments
SS01	Soil		ω	0.5' Comp	1 ×	$\left - \right $			
SS02	Soil	3/13/2023		0.5' Comp	1 ×	××			+
SS03	Soil	-			1 X	x x			
SS04	Soil				1 ×	××			
SS05	Soil	-			1 ×	××			
SS06	Soil	3/13/2023	1035	0.5' Comp	1 ×	××			
SS07	Soil				1	×			-
					X	2/1-1			
				201	2				-
Total 200.7 / 6010	200.8 / 6020:		8RCRA 13P	13PPM Texas 11	SP >	Ba Be B C	Cd Ca Cr Co Cu Fe Pb Mg	K Se A	Na Sr TI Sn U
Circle Method(s) and Metal(s) to be analyzed	al(s) to be ana	alyzed	TCLP / S	TCLP / SPLP 6010: 8RCRA	CRA Sb A	s Ba Be C	As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag II U	e Ag II U Hg: T	Hg: 1631/245.1//4/0
otice: Signature of this document f service. Eurofins Xenco will be f Eurofins Xenco. A minimum cha	It and relinquishm liable only for the large of \$85.00 will	ent of samples co cost of samples a be applied to eac	nstitutes a valld p and shall not assu h project and a ch	urchase order from (me any responsibilit arge of \$5 for each s	client company t y for any losses sample submitte	o Eurofins Xenc or expenses inc d to Eurofins Xei	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, its affiliates and subcontractors are due to circumstances beyond the control of service. Eurofins Xenco, a minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiat of services are control of services are due to circumstances beyond the control of services are control. A minimum charge of \$85.00 will be enforced unless previously negotiat	contractors. It assigns standard terms and conditions uch losses are due to circumstances beyond the control These terms will be enforced unless previously negotiated	ed.
Relinquished by: (Signature)	ature)	Receiv	Received by: (Signature)	ture)	Date/Time	Time	Relinquished by: (Signature)	Received by: (Signature)	nature)
THE LIGH	R	ravela	x Strin)	\$15/03	1429			
						1 6			

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5 6

Job Number: 890-4321-1 SDG Number: 03D2024150

List Source: Eurofins Carlsbad

Login Sample Receipt Checklist

Client: Ensolum

<6mm (1/4").

Login Number: 4321 List Number: 1 Creator: Stutzman, Amanda

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	N/A	

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 4321 List Number: 2 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	

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

14

Job Number: 890-4321-1 SDG Number: 03D2024150

List Source: Eurofins Midland

List Creation: 03/17/23 11:17 AM

Received by OCD: 4/20/2023 11:46:39 AM



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701 Generated 4/13/2023 4:38:03 PM

JOB DESCRIPTION

Cabo Wabo Federal Com 801H SDG NUMBER 03D2024150

JOB NUMBER

890-4472-1

o Feder JMBER

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

See page two for job notes and contact information

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

AMER

Generated 4/13/2023 4:38:03 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

Laboratory Job ID: 890-4472-1

SDG: 03D2024150

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QC Association Summary	18
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Method Summary	24
Sample Summary	25
	26
Receipt Checklists	27
•	

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	Definitions/Glossary		
Client: Ensolu	-	Job ID: 890-4472-1	
Project/Site: C	abo Wabo Federal Com 801H	SDG: 03D2024150	
Qualifiers			
GC VOA			1
Qualifier	Qualifier Description		
+	LCS and/or LCSD is outside acceptance limits, high biased.		1
1	MS and/or MSD recovery exceeds control limits.		
2	MS/MSD RPD exceeds control limits		2
61+	Surrogate recovery exceeds control limits, high biased.		
J	Indicates the analyte was analyzed for but not detected.		
GC Semi VOA	N Contraction of the second		
Qualifier	Qualifier Description		1
61-	Surrogate recovery exceeds control limits, low biased.		
61+	Surrogate recovery exceeds control limits, high biased.		4
J	Indicates the analyte was analyzed for but not detected.		
HPLC/IC			1
Qualifier	Qualifier Description		
-1	MS and/or MSD recovery exceeds control limits.		
J	Indicates the analyte was analyzed for but not detected.		
Glossary			
Abbreviation	These commonly used abbreviations may or may not be present in this report.		
1	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		

Glossary

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

Client: Ensolum Project/Site: Cabo Wabo Federal Com 801H Job ID: 890-4472-1 SDG: 03D2024150

Job ID: 890-4472-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4472-1

Receipt

The samples were received on 4/5/2023 3:41 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 4.6°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: FS01 (890-4472-1), FS02 (890-4472-2), FS03 (890-4472-3), FS04 (890-4472-4), SW01 (890-4472-5) and SW02 (890-4472-6).

GC VOA

Method 8021B: LCS biased high. Since only an acceptable LCS or LCSD is required per the method, the data has been qualified and reported.

Method 8021B: Surrogate recovery for the following sample was outside control limits: FS02 (890-4472-2). 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 and precision for preparation batch 880-51023 and analytical batch 880-51017 was outside control limits. Sample matrix interference and/or non-homogeneity is suspected.

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: The surrogate recovery for the blank associated with preparation batch 880-50623 and analytical batch 880-50710 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SW01 (890-4472-5). 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: SW02 (890-4472-6). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-50705 and analytical batch 880-50976 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.FS01 (890-4472-1), FS02 (890-4472-2), FS03 (890-4472-3), FS04 (890-4472-4), SW01 (890-4472-5), SW02 (890-4472-6), (880-26915-A-4-A), (880-26915-A-4-B MS) and (880-26915-A-4-C MSD)

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

Job ID: 890-4472-1 SDG: 03D2024150

Lab Sample ID: 890-4472-1

Lab Sample ID: 890-4472-2

Client Sample ID: FS01

Date Collected: 04/05/23 09:55 Date Received: 04/05/23 15:41

Sample Depth: 1.5

Client: Ensolum

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/13/23 09:28	04/13/23 14:04	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/13/23 09:28	04/13/23 14:04	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/13/23 09:28	04/13/23 14:04	1
m-Xylene & p-Xylene	<0.00399	U *+	0.00399	mg/Kg		04/13/23 09:28	04/13/23 14:04	1
o-Xylene	<0.00200	U *+	0.00200	mg/Kg		04/13/23 09:28	04/13/23 14:04	1
Xylenes, Total	<0.00399	U *+	0.00399	mg/Kg		04/13/23 09:28	04/13/23 14:04	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130			04/13/23 09:28	04/13/23 14:04	1
1,4-Difluorobenzene (Surr)	87		70 - 130			04/13/23 09:28	04/13/23 14:04	1
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			04/13/23 16:50	1
: Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)					1
Method: SW846 8015 NM - Diese Analyte	I Range Organ Result	ics (DRO) (0 Qualifier	GC) RL	Unit	D	Prepared	Analyzed	1 Dil Fac
: Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (0 Qualifier	GC)		D	Prepared		1 Dil Fac
Method: SW846 8015 NM - Diese Analyte	el Range Organ Result <49.8	ics (DRO) (0 Qualifier U	GC) 	Unit	D	Prepared	Analyzed	1 Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies	el Range Organ Result <49.8 sel Range Orga	ics (DRO) (0 Qualifier U	GC) 	Unit	D	Prepared	Analyzed	1
Method: SW846 8015 NM - Diese Analyte Total TPH	el Range Organ Result <49.8 sel Range Orga	ics (DRO) ((Qualifier U nics (DRO) Qualifier	GC) <u> RL</u> 49.8 (GC)	Unit mg/Kg		<u> </u>	Analyzed 04/10/23 10:06	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	el Range Organ Result <49.8 sel Range Orga Result <49.8	ics (DRO) (0 Qualifier U nics (DRO) Qualifier U	GC) <u>RL</u> 49.8 (GC) <u>RL</u> 49.8 	Unit mg/Kg		Prepared 04/07/23 14:33	Analyzed 04/10/23 10:06 Analyzed 04/10/23 03:55	1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	el Range Organ Result <49.8 sel Range Orga Result	ics (DRO) (0 Qualifier U nics (DRO) Qualifier U	GC)	Unit mg/Kg		Prepared	Analyzed 04/10/23 10:06 Analyzed	1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	el Range Organ Result <49.8 sel Range Orga Result <49.8 <49.8	ics (DRO) (0 Qualifier U nics (DRO) Qualifier U U	GC) <u>RL</u> (GC) <u>RL</u> 49.8 49.8	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 04/07/23 14:33 04/07/23 14:33	Analyzed 04/10/23 10:06 Analyzed 04/10/23 03:55 04/10/23 03:55	Dil Fa
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	el Range Organ Result <49.8 sel Range Orga Result <49.8	ics (DRO) (0 Qualifier U nics (DRO) Qualifier U U	GC) <u>RL</u> 49.8 (GC) <u>RL</u> 49.8 	Unit mg/Kg		Prepared 04/07/23 14:33	Analyzed 04/10/23 10:06 Analyzed 04/10/23 03:55	Dil Fa
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	el Range Organ Result <49.8 sel Range Orga Result <49.8 <49.8	ics (DRO) (0 Qualifier U nics (DRO) Qualifier U U U	GC) <u>RL</u> (GC) <u>RL</u> 49.8 49.8	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 04/07/23 14:33 04/07/23 14:33	Analyzed 04/10/23 10:06 Analyzed 04/10/23 03:55 04/10/23 03:55	Dil Fac

o-Terphenyl	121		70 - 130			04/07/23 14:33	04/10/23 03:55	1
 Method: EPA 300.0 - Anions, Ion Cl	hromatograp	hy - Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	235		5.04	mg/Kg			04/12/23 02:42	1

Client Sample ID: FS02 Date Collected: 04/05/23 10:00 Date Received: 04/05/23 15:41

Sample Depth: 1.5

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Method: SW846 8021B - Volati	ile Organic Comp	ounds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		04/13/23 09:28	04/13/23 14:25	1
Toluene	<0.00201	U	0.00201	mg/Kg		04/13/23 09:28	04/13/23 14:25	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		04/13/23 09:28	04/13/23 14:25	1
m-Xylene & p-Xylene	<0.00402	U *+	0.00402	mg/Kg		04/13/23 09:28	04/13/23 14:25	1
o-Xylene	<0.00201	U *+	0.00201	mg/Kg		04/13/23 09:28	04/13/23 14:25	1
Xylenes, Total	<0.00402	U *+	0.00402	mg/Kg		04/13/23 09:28	04/13/23 14:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	139	S1+	70 - 130			04/13/23 09:28	04/13/23 14:25	1

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Matrix: Solid

5

Matrix: Solid

Client Sample Results

Limits

70 - 130

RL

RL

49.9

RL

49.9

70 - 130

0.00402

Unit

Unit

Unit

mg/Kg

mg/Kg

mg/Kg

Client: Ensolum Project/Site: Cabo Wabo Federal Com 801H

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

Method: TAL SOP Total BTEX - Total BTEX Calculation

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

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

%Recovery Qualifier

Result Qualifier

Result Qualifier

Result Qualifier

<49.9 U

<49.9 U

122

106

<0.00402 U

Job ID: 890-4472-1 SDG: 03D2024150

Client Sample ID: FS02

Date Collected: 04/05/23 10:00 Date Received: 04/05/23 15:41

Sample Depth: 1.5

1,4-Difluorobenzene (Surr)

Gasoline Range Organics

Surrogate

Analyte

Analyte

Analyte

(GRO)-C6-C10

o-Terphenyl

Total TPH

Total BTEX

Lab Sample ID: 890-4472-2

Analyzed

04/13/23 14:25

Analyzed

04/13/23 16:50

Analyzed

04/10/23 10:06

Analyzed

04/10/23 04:16

04/10/23 04:16

04/10/23 04:16

Analyzed

04/10/23 04:16

04/10/23 04:16

Prepared

04/13/23 09:28

Prepared

Prepared

Prepared

04/07/23 14:33

D

D

D

Matrix: Solid

Dil Fac

Dil Fac

Dil Fac

Dil Fac

1

1

Dil Fac	9
1	
Dil Fac	
1	
	12

Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg	04/07/23 14:33
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg	04/07/23 14:33
Surrogate 1-Chlorooctane	%Recovery 110	Qualifier			Prepared 04/07/23 14:33

Method: EPA 300.0 - Anions, Ion C	Chromatography - Soluble					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed
Chloride	105	5.00	mg/Kg			04/12/23 02:46

Client Sample ID: FS03

Date Collected: 04/05/23 12:20 Date Received: 04/05/23 15:41 Sample Depth: 3

Lab Sample ID: 890-4472-3

04/07/23 14:33

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		04/13/23 09:28	04/13/23 14:45	1
Toluene	<0.00198	U	0.00198	mg/Kg		04/13/23 09:28	04/13/23 14:45	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		04/13/23 09:28	04/13/23 14:45	1
m-Xylene & p-Xylene	<0.00396	U *+	0.00396	mg/Kg		04/13/23 09:28	04/13/23 14:45	1
o-Xylene	<0.00198	U *+	0.00198	mg/Kg		04/13/23 09:28	04/13/23 14:45	1
Xylenes, Total	<0.00396	U *+	0.00396	mg/Kg		04/13/23 09:28	04/13/23 14:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130			04/13/23 09:28	04/13/23 14:45	1
1,4-Difluorobenzene (Surr)	98		70 - 130			04/13/23 09:28	04/13/23 14:45	1
Method: TAL SOP Total BTEX	- Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			04/13/23 16:50	1
Method: SW846 8015 NM - Die	esel Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Job ID: 890-4472-1 SDG: 03D2024150

Lab Sample ID: 890-4472-3

Lab Sample ID: 890-4472-4

Matrix: Solid

Client Sample ID: FS03

Date Collected: 04/05/23 12:20 Date Received: 04/05/23 15:41

Sample Depth: 3

Client: Ensolum

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		04/07/23 14:33	04/10/23 04:38	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		04/07/23 14:33	04/10/23 04:38	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/07/23 14:33	04/10/23 04:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130			04/07/23 14:33	04/10/23 04:38	1
o-Terphenyl	114		70 - 130			04/07/23 14:33	04/10/23 04:38	1
<u> </u>								

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	179	5.05	mg/Kg			04/12/23 02:51	1

Client Sample ID: FS04

Date Collected: 04/05/23 10:25

Date Received: 04/05/23 15:41

Sample Depth: 1.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/13/23 09:28	04/13/23 15:06	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/13/23 09:28	04/13/23 15:06	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/13/23 09:28	04/13/23 15:06	1
m-Xylene & p-Xylene	<0.00399	U *+	0.00399	mg/Kg		04/13/23 09:28	04/13/23 15:06	1
o-Xylene	<0.00200	U *+	0.00200	mg/Kg		04/13/23 09:28	04/13/23 15:06	1
Xylenes, Total	<0.00399	U *+	0.00399	mg/Kg		04/13/23 09:28	04/13/23 15:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130			04/13/23 09:28	04/13/23 15:06	1
1,4-Difluorobenzene (Surr)	92		70 - 130			04/13/23 09:28	04/13/23 15:06	1
Total BTEX	<0.00399	U	0.00399	mg/Kg			04/13/23 16:50	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)		P	Bronorod		Dil Ess
Method: SW846 8015 NM - Diese Analyte	l Range Organ	<mark>ics (DRO) (</mark> Qualifier		mg/Kg <mark>Unit</mark> mg/Kg	D	Prepared	04/13/23 16:50 Analyzed 04/10/23 10:06	1 1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies	el Range Organ Result <50.0 sel Range Orga	ics (DRO) (Qualifier U	GC) 	<u>Unit</u>	D	Prepared Prepared	Analyzed	1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	el Range Organ Result <50.0 sel Range Orga	ics (DRO) (Qualifier U mics (DRO) Qualifier	GC) <u>RL</u> 50.0 (GC)	Unit mg/Kg		<u>.</u>	Analyzed 04/10/23 10:06	1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	el Range Organ Result <50.0 sel Range Orga Result	ics (DRO) (Qualifier U enics (DRO) Qualifier U	GC)	Unit mg/Kg Unit		Prepared	Analyzed 04/10/23 10:06 Analyzed	1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	el Range Organ Result <50.0 sel Range Orga Result <50.0	ics (DRO) (Qualifier U mics (DRO) Qualifier U U	GC) <u>RL</u> 50.0 (GC) <u>RL</u> 50.0 	Unit mg/Kg		Prepared 04/07/23 14:33	Analyzed 04/10/23 10:06 Analyzed 04/10/23 04:59	1 Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate	el Range Organ Result <50.0 sel Range Orga Result <50.0 <50.0	ics (DRO) (1 Qualifier U mics (DRO) Qualifier U U U	GC) RL 50.0 (GC) RL 50.0 50.0	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 04/07/23 14:33 04/07/23 14:33	Analyzed 04/10/23 10:06 Analyzed 04/10/23 04:59 04/10/23 04:59	1 Dil Fac 1 1

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04/10/23 04:59

04/07/23 14:33

Matrix: Solid

5

o-Terphenyl

70 - 130

114

		Clien	t Sample Res	sults				
Client: Ensolum			-				Job ID: 890)-4472-′
Project/Site: Cabo Wabo Federal C	om 801H						SDG: 03D2	202415
Client Sample ID: FS04						Lab Sar	nple ID: 890-	4472-
Date Collected: 04/05/23 10:25							•	ix: Soli
Date Received: 04/05/23 15:41								
Sample Depth: 1.5								
-								
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	34.5		5.02	mg/Kg			04/12/23 02:55	
Client Sample ID: SW01						Lab Sar	nple ID: 890-	4472-
Date Collected: 04/05/23 12:25							-	ix: Soli
Date Received: 04/05/23 15:41							math	
Sample Depth: 0 - 3								
-								
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC))					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199	mg/Kg		04/13/23 09:28	04/13/23 15:26	
Toluene	<0.00199	U	0.00199	mg/Kg		04/13/23 09:28	04/13/23 15:26	
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/13/23 09:28	04/13/23 15:26	
m-Xylene & p-Xylene	<0.00398	U *+	0.00398	mg/Kg		04/13/23 09:28	04/13/23 15:26	
o-Xylene	<0.00199	U *+	0.00199	mg/Kg		04/13/23 09:28	04/13/23 15:26	
Xylenes, Total	<0.00398	U *+	0.00398	mg/Kg		04/13/23 09:28	04/13/23 15:26	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)			70 - 130			04/13/23 09:28	04/13/23 15:26	
1,4-Difluorobenzene (Surr)	100		70 - 130			04/13/23 09:28	04/13/23 15:26	
Method: TAL SOP Total BTEX - 1	Total BTEX Cale	ulation						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00398	U	0.00398	mg/Kg		·	04/13/23 16:50	
- -								
Method: SW846 8015 NM - Diese					_			
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<50.0	U	50.0	mg/Kg			04/11/23 09:34	
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/07/23 14:36	04/10/23 11:29	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/07/23 14:36	04/10/23 11:29	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/07/23 14:36	04/10/23 11:29	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	67	S1-	70 - 130			04/07/23 14:36	04/10/23 11:29	
o-Terphenyl	74		70 - 130			04/07/23 14:36	04/10/23 11:29	
Method: EPA 300.0 - Anions, Ion	I Chromatograp	hy - Solubl	e					
Analyte	D 14	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa

 Chloride
 294
 4.98
 mg/Kg
 04/12/23 03:00

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Job ID: 890-4472-1 SDG: 03D2024150

Lab Sample ID: 890-4472-6

Client Sample ID: SW02

Date Collected: 04/05/23 12:30 Date Received: 04/05/23 15:41

Sample Depth: 0 - 3

Client: Ensolum

Chloride

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		04/13/23 09:28	04/13/23 16:49	1
Toluene	<0.00199	U	0.00199	mg/Kg		04/13/23 09:28	04/13/23 16:49	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/13/23 09:28	04/13/23 16:49	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398	mg/Kg		04/13/23 09:28	04/13/23 16:49	1
o-Xylene	<0.00199	U *+	0.00199	mg/Kg		04/13/23 09:28	04/13/23 16:49	1
Xylenes, Total	<0.00398	U *+	0.00398	mg/Kg		04/13/23 09:28	04/13/23 16:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130			04/13/23 09:28	04/13/23 16:49	1
1,4-Difluorobenzene (Surr)	77		70 - 130			04/13/23 09:28	04/13/23 16:49	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			04/13/23 17:26	1
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)					
Method: SW846 8015 NM - Diese Analyte	Result	Qualifier	GC) RL	Unit	D	Prepared	Analyzed	Dil Fac
		Qualifier		Unit mg/Kg	<u>D</u>	Prepared	Analyzed 04/11/23 09:34	Dil Fac
Analyte Total TPH	Result <49.9	Qualifier U	RL 49.9		<u> </u>	Prepared		
Analyte Total TPH Method: SW846 8015B NM - Dies	Result <49.9	Qualifier U	RL 49.9		D	Prepared		
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result <49.9	Qualifier U nics (DRO) Qualifier	(GC)	mg/Kg		<u>·</u>	04/11/23 09:34	1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U	(GC) RL	mg/Kg Unit		Prepared	04/11/23 09:34 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9 sel Range Orga Result <49.9	Qualifier U nics (DRO) Qualifier U U	RL 49.9 (GC) RL 49.9	mg/Kg Unit mg/Kg		Prepared 04/07/23 14:37	04/11/23 09:34 Analyzed 04/10/23 12:34	1 Dil Fac 1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9	Qualifier U nics (DRO) Qualifier U U U	RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 04/07/23 14:37 04/07/23 14:37	04/11/23 09:34 Analyzed 04/10/23 12:34 04/10/23 12:34	1 Dil Fac 1 1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <49.9	Qualifier U nics (DRO) Qualifier U U U	RL 49.9 (GC) RL 49.9 49.9 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 04/07/23 14:37 04/07/23 14:37 04/07/23 14:37	Analyzed 04/11/23 09:34 4/10/23 12:34 04/10/23 12:34 04/10/23 12:34	1 Dil Fac 1 1 1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <49.9	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 04/07/23 14:37 04/07/23 14:37 04/07/23 14:37 Prepared	04/11/23 09:34 Analyzed 04/10/23 12:34 04/10/23 12:34 04/10/23 12:34 Analyzed	1 Dil Fac 1 1 1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <49.9	Qualifier U nics (DRO) Qualifier U U U Qualifier S1-	RL 49.9 (GC) RL 49.9 49.9 49.9 49.9 20.9 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 04/07/23 14:37 04/07/23 14:37 04/07/23 14:37 Prepared 04/07/23 14:37	Analyzed 04/11/23 09:34 Analyzed 04/10/23 12:34 04/10/23 12:34 04/10/23 12:34 04/10/23 12:34 04/10/23 12:34	1 Dil Fac 1 1 1 1 <i>Dil Fac</i> 1

4.98

mg/Kg

275

04/12/23 03:04

1

Released to Imaging: 9/8/2023 10:44:35 AM

4/13/2023

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC) Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Sample ID	Client Sample ID	(70-130)	(70-130)	
126-A-1-I MS	Matrix Spike	105	88	
126-A-1-J MSD	Matrix Spike Duplicate	129	100	
172-1	FS01	125	87	
472-2	FS02	139 S1+	106	
472-3	FS03	104	98	
472-4	FS04	126	92	
172-5	SW01	111	100	
472-6	SW02	83	77	
80-51023/1-A	Lab Control Sample	130	120	
880-51023/2-A	Lab Control Sample Dup	114	115	
880-51023/5-A	Method Blank	73	95	
urrogate Legend FB = 4-Bromofluorobe	nzene (Surr)			

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

				Percen
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-26816-A-96-B MS	Matrix Spike	100	99	
880-26816-A-96-C MSD	Matrix Spike Duplicate	102	103	
890-4472-1	FS01	109	121	
890-4472-2	FS02	110	122	
890-4472-3	FS03	103	114	
890-4472-4	FS04	101	114	
890-4472-5	SW01	67 S1-	74	
890-4472-5 MS	SW01	76	76	
890-4472-5 MSD	SW01	76	73	
890-4472-6	SW02	68 S1-	73	
LCS 880-50623/2-A	Lab Control Sample	109	125	
LCS 880-50624/2-A	Lab Control Sample	95	95	
LCSD 880-50623/3-A	Lab Control Sample Dup	107	122	
LCSD 880-50624/3-A	Lab Control Sample Dup	95	96	
MB 880-50623/1-A	Method Blank	124	145 S1+	
MB 880-50624/1-A	Method Blank	83	94	

Surrogate Legend

1CO = 1-Chlorooctane OTPH = o-Terphenyl Prep Type: Total/NA

Job ID: 890-4472-1

SDG: 03D2024150

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Prep Type: Total/NA

Lab Sample ID: MB 880-51023/5-A

QC Sample Results

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid							Prep Type: 1	otal/NA
Analysis Batch: 51017							Prep Batch	: 51023
	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/13/23 09:28	04/13/23 12:00	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/13/23 09:28	04/13/23 12:00	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/13/23 09:28	04/13/23 12:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/13/23 09:28	04/13/23 12:00	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/13/23 09:28	04/13/23 12:00	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/13/23 09:28	04/13/23 12:00	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		70 - 130			04/13/23 09:28	04/13/23 12:00	1
1,4-Difluorobenzene (Surr)	95		70 - 130			04/13/23 09:28	04/13/23 12:00	1

Lab Sample ID: LCS 880-51023/1-A Matrix: Solid

Analysis Batch: 51017

	Spike	LCS I	LCS				%Rec	
Analyte	Added	Result (Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1216		mg/Kg		122	70 - 130	
Toluene	0.100	0.1141		mg/Kg		114	70 - 130	
Ethylbenzene	0.100	0.1272		mg/Kg		127	70 - 130	
m-Xylene & p-Xylene	0.200	0.2725 *	*+	mg/Kg		136	70 - 130	
o-Xylene	0.100	0.1367 *	*+	mg/Kg		137	70 - 130	

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

Lab Sample ID: LCSD 880-51023/2-A

Matrix: Solid

Analysis Batch: 51017						Prep Batch: 51023					
	Spike	LCSD	LCSD				%Rec		RPD		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit		
Benzene	0.100	0.1056		mg/Kg		106	70 - 130	14	35		
Toluene	0.100	0.09832		mg/Kg		98	70 - 130	15	35		
Ethylbenzene	0.100	0.09996		mg/Kg		100	70 - 130	24	35		
m-Xylene & p-Xylene	0.200	0.2145		mg/Kg		107	70 - 130	24	35		
o-Xylene	0.100	0.1083		mg/Kg		108	70 - 130	23	35		

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

Lab Sample ID: 880-27126-A-1-I MS Matrix: Solid

Analysis Batch: 51017

Analysis Batch: 51017									Prep Batch: 51023
	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	<0.00202	U F1 F2	0.0998	0.06454	F1	mg/Kg		65	70 - 130
Toluene	<0.00202	U	0.0998	0.07844		mg/Kg		79	70 - 130

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Prep Type: Total/NA

Client Sample ID: Matrix Spike

Client Sample ID: Method Blank

Job ID: 890-4472-1 SDG: 03D2024150

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

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 51023

Released to Imaging: 9/8/2023 10:44:35 AM

Lab Sample ID: 880-27126-A-1-I MS

QC Sample Results

Client: Ensolum Project/Site: Cabo Wabo Federal Com 801H

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

	Job ID: 890-4472-1 SDG: 03D2024150
	ple ID: Matrix Spike Prep Type: Total/NA
	Prep Batch: 51023
%F	Rec

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Matrix: Solid									Prep	
Analysis Batch: 51017									Pre	
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	< 0.00202	U	0.0998	0.09073		mg/Kg		91	70 - 130	
m-Xylene & p-Xylene	<0.00403	U *+	0.200	0.1662		mg/Kg		83	70 - 130	
o-Xylene	<0.00202	U *+	0.0998	0.08303		mg/Kg		83	70 - 130	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							
A-Bromofluorobenzene (Surr)			70 130							

4-Bromonuorobenzene (Sun)	105	70 - 130
1,4-Difluorobenzene (Surr)	88	70 - 130
—		

Lab Sample ID: 880-27126-A-1-J MSD Matrix: Solid

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Analysis Batch: 51017 Prep Batch: 51023 Sample Sample Spike MSD MSD %Rec RPD Result Qualifier Result Qualifier RPD Limit Analyte Added %Rec Limits Unit D Benzene <0.00202 U F1 F2 0.0990 0.09652 F2 mg/Kg 97 70 - 130 40 35 Toluene 0.09391 <0.00202 U 0.0990 mg/Kg 95 70 - 130 18 35 Ethylbenzene <0.00202 U 0.0990 0.1028 104 70 - 130 35 mg/Kg 13 <0.00403 U*+ 0.198 70 - 130 27 35 m-Xylene & p-Xylene 0.2177 mg/Kg 110 0.0990 <0.00202 U*+ mg/Kg 70 - 130 28 o-Xylene 0.1100 111 35 MSD MSD Surrogate Qualifier Limits %Recovery

70 - 130

70 - 130

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

129

100

Lab Sample ID: MB 880-50623/1-/ Matrix: Solid Analysis Batch: 50710	A					Client Sa	mple ID: Metho Prep Type: ∃ Prep Batch	Total/NA
	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		04/07/23 14:33	04/09/23 19:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/07/23 14:33	04/09/23 19:59	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/07/23 14:33	04/09/23 19:59	1
	MB	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130			04/07/23 14:33	04/09/23 19:59	1
o-Terphenyl	145	S1+	70 - 130			04/07/23 14:33	04/09/23 19:59	1
Lab Sample ID: LCS 880-50623/2	-A				c	lient Sample I	D: Lab Control	Sample

Matrix: Solid Analysis Batch: 50710

Analysis Batch: 50710							Prep	Batch: 50623
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1066		mg/Kg		107	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	922.5		mg/Kg		92	70 - 130	
C10-C28)								

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Prep Type: Total/NA

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QC Sample Results

Client: Ensolum Project/Site: Cabo Wabo Federal Com 801H

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

Lab Sample ID: LCS 880-50	623/2-A						Client	Sample	ID: Lab C	ontrol Sa	ample
Matrix: Solid									Prep 1	Type: To	tal/NA
Analysis Batch: 50710									Prep	Batch:	50623
	1.05	LCS									
Surrogate	%Recovery		Limits								
1-Chlorooctane		Quanner	70 - 130								
o-Terphenyl	125		70 - 130								
	120		101100								
Lab Sample ID: LCSD 880-5	50623/3-A					Clier	nt San	nple ID:	Lab Contro	Sampl	e Dup
Matrix: Solid										Type: To	
Analysis Batch: 50710										Batch:	
-			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1100		mg/Kg		110	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	935.8		mg/Kg		94	70 - 130	1	20
	LCSD	LCSD									
Surrogate	%Recovery		Limits								
1-Chlorooctane			70 - 130								
o-Terphenyl	122		70 - 130								
Lab Sample ID: 880-26816-/	A-96-B MS							Client	Sample ID	: Matrix	Spike
Matrix: Solid									Prep 1	Type: To	tal/NA
Analysis Batch: 50710									Prep	Batch:	50623
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	998	1006		mg/Kg		101	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.8	U	998	1111		mg/Kg		111	70 - 130		
	MS	MS									
Surrogate	%Recovery		Limits								
1-Chlorooctane			70 - 130								
o-Terphenyl	99		70 - 130								
Lab Sample ID: 880-26816-/	A-96-C MSD					Cl	ient Sa	ample IC): Matrix Sp	oike Dup	olicate
Matrix: Solid										Type: To	
Analysis Batch: 50710										Batch:	
-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<49.8	U	997	991.2		mg/Kg		99	70 - 130	2	20
(GRO)-C6-C10			997	1161		mg/Kg		116	70 - 130	4	20
. ,	<49.8	U	551	1101							
Diesel Range Organics (Over		U MSD	551								
Diesel Range Organics (Over		MSD	Limits	1101							
Diesel Range Organics (Over C10-C28)	MSD	MSD									

o-Terphenyl 103

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70 - 130

Lab Sample ID: MB 880-50624/1-A

Matrix: Solid

(GRO)-C6-C10

Analyte

C10-C28)

Surrogate

o-Terphenyl

1-Chlorooctane

Matrix: Solid

Analysis Batch: 50779

Analysis Batch: 50779

Gasoline Range Organics

Diesel Range Organics (Over

Oll Range Organics (Over C28-C36)

Lab Sample ID: LCS 880-50624/2-A

QC Sample Results

RL

50.0

50.0

50.0

Limits

70 - 130

70 - 130

Client: Ensolum Project/Site: Cabo Wabo Federal Com 801H

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

MB MB Result Qualifier

<50.0 U

<50.0 U

<50.0 U **MB MB**

%Recovery Qualifier

83

94

						Job ID: 890 SDG: 03D	
le	d)						
					Client Sa	ample ID: Metho	od Blank
						Prep Type:	Total/NA
						Prep Batc	h: 50624
	Unit		D	Р	repared	Analyzed	Dil Fac
	mg/Kg		_	04/0	7/23 14:36	04/10/23 08:59	1
	mg/Kg			04/0	7/23 14:36	04/10/23 08:59	1
	mg/Kg			04/0	7/23 14:36	04/10/23 08:59	1
					repared	Analyzed	Dil Fac
				• •	7/23 14:36	04/10/23 08:59	1
				04/0	7/23 14:36	04/10/23 08:59	1
			С	lient	Sample	ID: Lab Control	Sample
						Prep Type:	Total/NA
						Prep Batc	h: 50624
s	LCS					%Rec	
ılt	Qualifier	Unit		D	%Rec	Limits	
.6		mg/Kg			99	70 - 130	

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Client Sample ID: SW01

Prep Type: Total/NA

5
7

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			Spike	LCS	LCS				%Rec
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics (GRO)-C6-C10			1000	986.6		mg/Kg		99	70 - 130
Diesel Range Organics (Over C10-C28)			1000	847.9		mg/Kg		85	70 - 130
	LCS	LCS							
Surrogate	%Recovery	Qualifier	l imits						

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	95		70 - 130

Lab Sample ID: LCSD 880-50624/3-A

Matrix: Solid

Analysis Batch: 50779							Prep	Batch:	50624
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	1003		mg/Kg		100	70 - 130	2	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	853.3		mg/Kg		85	70 - 130	1	20
C10-C28)									

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	96		70 - 130

Lab Sample ID: 890-4472-5 MS Matrix: Solid Analysis Batch: 50779

Analysis Batch: 50779									Prep	Batch: 50624
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<50.0	U	1000	1128		mg/Kg		113	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<50.0	U	1000	952.2		mg/Kg		92	70 - 130	
C10-C28)										

Lab Sample ID: 890-4472-5 MS

Lab Sample ID: 890-4472-5 MSD

Analysis Batch: 50779

Analysis Batch: 50779

Gasoline Range Organics

Diesel Range Organics (Over

Matrix: Solid

Surrogate

o-Terphenyl

Analyte

C10-C28)

Surrogate

o-Terphenyl

1-Chlorooctane

1-Chlorooctane

Matrix: Solid

(GRO)-C6-C10

QC Sample Results

Limits

70 - 130

70 - 130

Spike

Added

998

998

Limits

70 - 130

70 - 130

MSD MSD

1127

922.8

Result Qualifier

Unit

mg/Kg

mg/Kg

D

%Rec

113

89

Client: Ensolum Project/Site: Cabo Wabo Federal Com 801H

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

MS MS

%Recovery Qualifier

76

76

Sample Sample

<50.0 U

<50.0 U

76

73

%Recovery

Method: 300.0 - Anions, Ion Chromatography

MSD MSD

Qualifier

Result Qualifier

Page	67	of	<u>93</u>

Client Sample ID: SW01

Prep Type: Total/NA Prep Batch: 50624 7

Prep T	ype: To	tal/NA
Prep	Batch:	50624
%Rec		RPD
Limits	RPD	Limit

									Client S	Sample ID: I	Nethod	Blank
Matrix: Solid										Prep	Type: S	oluble
Analysis Batch: 50976												
	MB	MB										
Analyte	Result	Qualifier		RL		Unit		DI	Prepared	Analyz	ed	Dil Fac
Chloride	<5.00	U		5.00		mg/Kg	l			04/12/23 (00:47	1
Lab Sample ID: LCS 880-50705/2-A								Clien	t Sample	e ID: Lab Co	ontrol Sa	ample
Matrix: Solid										Prep	Type: S	oluble
Analysis Batch: 50976												
			Spike		LCS	LCS				%Rec		
Analyte			Added	R	esult	Qualifier	Unit	D	%Rec	Limits		
Chloride			250	2	247.6		mg/Kg		99	90 - 110		
·							0 0					
Lab Sample ID: LCSD 880-50705/3-A								ent Sar	nple ID:	Lab Contro	l Sampl	e Dup
-								ent Sar	nple ID:	Lab Contro Prep	l Sampl Type: S	
Lab Sample ID: LCSD 880-50705/3-A								ent Sar	nple ID:			
Lab Sample ID: LCSD 880-50705/3-A Matrix: Solid			Spike		.CSD	LCSD		ent Sar	nple ID:			oluble
Lab Sample ID: LCSD 880-50705/3-A Matrix: Solid				L		LCSD Qualifier		ent Sar D	nple ID: %Rec	Prep		
Lab Sample ID: LCSD 880-50705/3-A Matrix: Solid Analysis Batch: 50976			Spike	L			Cli			Prep [•] %Rec	Type: S	oluble RPD
Lab Sample ID: LCSD 880-50705/3-A Matrix: Solid Analysis Batch: 50976 Analyte			Spike Added	L	esult		Cli		% Rec 97	Prep * %Rec Limits	RPD	Oluble RPD Limit 20
Lab Sample ID: LCSD 880-50705/3-A Matrix: Solid Analysis Batch: 50976 Analyte Chloride			Spike Added	L	esult		Cli		% Rec 97	Prep %Rec Limits 90 - 110	RPD	RPD Limit 20 Spike
Lab Sample ID: LCSD 880-50705/3-A Matrix: Solid Analysis Batch: 50976 Analyte Chloride Lab Sample ID: 880-26915-A-4-B MS Matrix: Solid			Spike Added	L	esult		Cli		% Rec 97	Prep %Rec Limits 90 - 110	RPD 2 Matrix	RPD Limit 20 Spike
Lab Sample ID: LCSD 880-50705/3-A Matrix: Solid Analysis Batch: 50976 Analyte Chloride Lab Sample ID: 880-26915-A-4-B MS Matrix: Solid Analysis Batch: 50976	– – –		Spike Added	L	esult 243.7		Cli		% Rec 97	Prep %Rec Limits 90 - 110	RPD 2 Matrix	RPD Limit 20 Spike
Lab Sample ID: LCSD 880-50705/3-A Matrix: Solid Analysis Batch: 50976 Analyte Chloride Lab Sample ID: 880-26915-A-4-B MS Matrix: Solid Analysis Batch: 50976 Sample	e Sam It Qua	•	Spike Added 250	L 2	esult 243.7 MS	Qualifier	Cli		% Rec 97	Prep %Rec Limits 90 - 110 Sample ID: Prep	RPD 2 Matrix	RPD Limit 20 Spike

Client: Ensolum Project/Site: Cabo Wabo Federal Com 801H

b Sample ID: 880-26915-A	-4-C MSD					CI	ient Sa	ample ID): Matrix Sp	oike Dup	licate	
atrix: Solid										Type: So		
nalysis Batch: 50976												
	-	Sample	Spike		MSD				%Rec		RPD	
alyte		Qualifier	Added		Qualifier	Unit	<u>D</u>	%Rec	Limits	RPD	Limit	
loride	45300	F1	12600	53130	F1	mg/Kg		62	90 - 110	0	20	
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Client: Ensolum Project/Site: Cabo Wabo Federal Com 801H Job ID: 890-4472-1

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SDG: 03D2024150

GC VOA

Analysis Batch: 51017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4472-1	FS01	Total/NA	Solid	8021B	51023
890-4472-2	FS02	Total/NA	Solid	8021B	51023
890-4472-3	FS03	Total/NA	Solid	8021B	51023
890-4472-4	FS04	Total/NA	Solid	8021B	51023
890-4472-5	SW01	Total/NA	Solid	8021B	51023
890-4472-6	SW02	Total/NA	Solid	8021B	51023
MB 880-51023/5-A	Method Blank	Total/NA	Solid	8021B	51023
LCS 880-51023/1-A	Lab Control Sample	Total/NA	Solid	8021B	51023
LCSD 880-51023/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	51023
880-27126-A-1-I MS	Matrix Spike	Total/NA	Solid	8021B	51023
880-27126-A-1-J MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	51023

Prep Batch: 51023

IVID 000-51023/5-A	Method blank	Total/INA	Solid	0U21D	51023	
LCS 880-51023/1-A	Lab Control Sample	Total/NA	Solid	8021B	51023	8
LCSD 880-51023/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	51023	
880-27126-A-1-I MS	Matrix Spike	Total/NA	Solid	8021B	51023	9
880-27126-A-1-J MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	51023	
Prep Batch: 51023						10
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	11
890-4472-1	FS01	Total/NA	Solid	5035		
890-4472-2	FS02	Total/NA	Solid	5035		12
890-4472-3	FS03	Total/NA	Solid	5035		
890-4472-4	FS04	Total/NA	Solid	5035		4.0
890-4472-5	SW01	Total/NA	Solid	5035		13
890-4472-6	SW02	Total/NA	Solid	5035		
MB 880-51023/5-A	Method Blank	Total/NA	Solid	5035		14
LCS 880-51023/1-A	Lab Control Sample	Total/NA	Solid	5035		
LCSD 880-51023/2-A	Lab Control Sample Dup	Total/NA	Solid	5035		
880-27126-A-1-I MS	Matrix Spike	Total/NA	Solid	5035		
880-27126-A-1-J MSD	Matrix Spike Duplicate	Total/NA	Solid	5035		

Analysis Batch: 51122

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-4472-1	FS01	Total/NA	Solid	Total BTEX	
890-4472-2	FS02	Total/NA	Solid	Total BTEX	
890-4472-3	FS03	Total/NA	Solid	Total BTEX	
890-4472-4	FS04	Total/NA	Solid	Total BTEX	
890-4472-5	SW01	Total/NA	Solid	Total BTEX	
890-4472-6	SW02	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 50623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4472-1	FS01	Total/NA	Solid	8015NM Prep	
890-4472-2	FS02	Total/NA	Solid	8015NM Prep	
890-4472-3	FS03	Total/NA	Solid	8015NM Prep	
890-4472-4	FS04	Total/NA	Solid	8015NM Prep	
MB 880-50623/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-50623/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-50623/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-26816-A-96-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-26816-A-96-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Client: Ensolum Project/Site: Cabo Wabo Federal Com 801H

GC Semi VOA

Prep Batch: 50624

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-4472-5	SW01	Total/NA	Solid	8015NM Prep	
890-4472-6	SW02	Total/NA	Solid	8015NM Prep	
MB 880-50624/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-50624/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-50624/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4472-5 MS	SW01	Total/NA	Solid	8015NM Prep	
890-4472-5 MSD	SW01	Total/NA	Solid	8015NM Prep	

Analysis Batch: 50710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4472-1	FS01	Total/NA	Solid	8015B NM	50623
890-4472-2	FS02	Total/NA	Solid	8015B NM	50623
890-4472-3	FS03	Total/NA	Solid	8015B NM	50623
890-4472-4	FS04	Total/NA	Solid	8015B NM	50623
MB 880-50623/1-A	Method Blank	Total/NA	Solid	8015B NM	50623
LCS 880-50623/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	50623
LCSD 880-50623/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	50623
880-26816-A-96-B MS	Matrix Spike	Total/NA	Solid	8015B NM	50623
880-26816-A-96-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	50623

Analysis Batch: 50779

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-4472-5	SW01	Total/NA	Solid	8015B NM	50624
890-4472-6	SW02	Total/NA	Solid	8015B NM	50624
MB 880-50624/1-A	Method Blank	Total/NA	Solid	8015B NM	50624
LCS 880-50624/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	50624
LCSD 880-50624/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	50624
890-4472-5 MS	SW01	Total/NA	Solid	8015B NM	50624
890-4472-5 MSD	SW01	Total/NA	Solid	8015B NM	50624

Analysis Batch: 50793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4472-1	FS01	Total/NA	Solid	8015 NM	
890-4472-2	FS02	Total/NA	Solid	8015 NM	
890-4472-3	FS03	Total/NA	Solid	8015 NM	
890-4472-4	FS04	Total/NA	Solid	8015 NM	
890-4472-5	SW01	Total/NA	Solid	8015 NM	
890-4472-6	SW02	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 50705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4472-1	FS01	Soluble	Solid	DI Leach	
890-4472-2	FS02	Soluble	Solid	DI Leach	
890-4472-3	FS03	Soluble	Solid	DI Leach	
890-4472-4	FS04	Soluble	Solid	DI Leach	
890-4472-5	SW01	Soluble	Solid	DI Leach	
890-4472-6	SW02	Soluble	Solid	DI Leach	
MB 880-50705/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-50705/2-A	Lab Control Sample	Soluble	Solid	DI Leach	

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Job ID: 890-4472-1 SDG: 03D2024150

Client: Ensolum Project/Site: Cabo Wabo Federal Com 801H

HPLC/IC (Continued)

Leach Batch: 50705 (Continued)

Lab Sample ID LCSD 880-50705/3-A	Client Sample ID Lab Control Sample Dup	Prep Type Soluble	Matrix Solid	DI Leach	Prep Batch
880-26915-A-4-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-26915-A-4-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 50976

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch	
890-4472-1	FS01	Soluble	Solid	300.0	50705	
890-4472-2	FS02	Soluble	Solid	300.0	50705	8
890-4472-3	FS03	Soluble	Solid	300.0	50705	
890-4472-4	FS04	Soluble	Solid	300.0	50705	9
890-4472-5	SW01	Soluble	Solid	300.0	50705	
890-4472-6	SW02	Soluble	Solid	300.0	50705	
MB 880-50705/1-A	Method Blank	Soluble	Solid	300.0	50705	
LCS 880-50705/2-A	Lab Control Sample	Soluble	Solid	300.0	50705	
LCSD 880-50705/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	50705	
880-26915-A-4-B MS	Matrix Spike	Soluble	Solid	300.0	50705	
880-26915-A-4-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	50705	
						10
						13

4/13/2023

Job ID: 890-4472-1 SDG: 03D2024150

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Job ID: 890-4472-1 SDG: 03D2024150

Lab Sample ID: 890-4472-1 Matrix: Solid

Date Collected: 04/05/23 09:55 Date Received: 04/05/23 15:41

Client Sample ID: FS01

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared	bared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab	
Total/NA	Prep	5035			5.01 g	5 mL	51023	04/13/23 09:28	MNR	EET MID	
Total/NA	Analysis	8021B		1	5 mL	5 mL	51017	04/13/23 14:04	MNR	EET MID	
Total/NA	Analysis	Total BTEX		1			51122	04/13/23 16:50	SM	EET MID	
Total/NA	Analysis	8015 NM		1			50793	04/10/23 10:06	SM	EET MID	
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	50623	04/07/23 14:33	SM	EET MID	
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50710	04/10/23 03:55	SM	EET MID	
Soluble	Leach	DI Leach			4.96 g	50 mL	50705	04/08/23 15:23	KS	EET MID	
Soluble	Analysis	300.0		1	50 mL	50 mL	50976	04/12/23 02:42	SMC	EET MID	

Client Sample ID: FS02

Date Collected: 04/05/23 10:00

Date Received: 04/05/23 15:41

Ргер Туре	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	51017	04/13/23 14:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51122	04/13/23 16:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			50793	04/10/23 10:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	50623	04/07/23 14:33	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50710	04/10/23 04:16	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	50705	04/08/23 15:23	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50976	04/12/23 02:46	SMC	EET MID

Client Sample ID: FS03

Date Collected: 04/05/23 12:20

Date Received: 04/05/23 15:41

Ргер Туре	Batch Type	Batch	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
		Method								
Total/NA	Prep	5035			5.05 g	5 mL	51023	04/13/23 09:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51017	04/13/23 14:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51122	04/13/23 16:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			50793	04/10/23 10:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	50623	04/07/23 14:33	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50710	04/10/23 04:38	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	50705	04/08/23 15:23	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50976	04/12/23 02:51	SMC	EET MID

Client Sample ID: FS04 Date Collected: 04/05/23 10:25 Date Received: 04/05/23 15:41

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	51023	04/13/23 09:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51017	04/13/23 15:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51122	04/13/23 16:50	SM	EET MID

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Matrix: Solid

Lab Sample ID: 890-4472-3

Lab Sample ID: 890-4472-4

Lab Sample ID: 890-4472-2

Matrix: Solid

Matrix: Solid
Project/Site: Cabo Wabo Federal Com 801H

Job ID: 890-4472-1 SDG: 03D2024150

Lab Sample ID: 890-4472-4

Lab Sample ID: 890-4472-5

Matrix: Solid

Date Collected: 04/05/23 10:25 Date Received: 04/05/23 15:41

Client Sample ID: FS04

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			50793	04/10/23 10:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	50623	04/07/23 14:33	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50710	04/10/23 04:59	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	50705	04/08/23 15:23	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50976	04/12/23 02:55	SMC	EET MID

Client Sample ID: SW01 Date Collected: 04/05/23 12:25

Date Received: 04/05/23 12:25

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	51023	04/13/23 09:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51017	04/13/23 15:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51122	04/13/23 16:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			50793	04/11/23 09:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	50624	04/07/23 14:36	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50779	04/10/23 11:29	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	50705	04/08/23 15:23	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50976	04/12/23 03:00	SMC	EET MID

Client Sample ID: SW02

Date Collected: 04/05/23 12:30 Date Received: 04/05/23 15:41 Lab Sample ID: 890-4472-6 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			5.03 g	5 mL	51023	04/13/23 09:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51017	04/13/23 16:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51122	04/13/23 17:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			50793	04/11/23 09:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	50624	04/07/23 14:37	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50779	04/10/23 12:34	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	50705	04/08/23 15:23	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50976	04/12/23 03:04	SMC	EET MID

Laboratory References:

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

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Accreditation/Certification Summary

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		Accreditation/C	ertification Summary		
Client: Ensolum Project/Site: Cabo Wab	oo Federal Com 801	1H		Job ID: 890-4472-1 SDG: 03D2024150	2
Laboratory: Eurofi Unless otherwise noted, all a		ry were covered under each acc	reditation/certification below.		
Authority		Program	Identification Number	Expiration Date	
Texas The following analytes a	are included in this repo	NELAP rt, but the laboratory is not certif	T104704400-22-25 ied by the governing authority. This list ma	06-30-23 ay include analytes for which	5
the agency does not off Analysis Method	fer certification. Prep Method	Matrix	Analyte		
8015 NM Total BTEX		Solid Solid	Total TPH Total BTEX		
					8
					9
					10
					13

Eurofins Carlsbad

Project/Site: Cabo Wabo Federal Com 801H

Client: Ensolum

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Job ID: 890-4472-1 SDG: 03D2024150

Method	Method Description	Protocol	Laboratory
3021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
3015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
3015B 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
OI Leach	Deionized Water Leaching Procedure	ASTM	EET MID
Protocol Refe	rences:		
ASTM = A	STM International		
EPA = US	Environmental Protection Agency		
SW846 - "	Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third E	dition November 1986 And Its Updates	

Laboratory References:

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

Eurofins Carlsbad

Released to Imaging: 9/8/2023 10:44:35 AM

Sample Summary

Client: Ensolum Project/Site: Cabo Wabo Federal Com 801H Job ID: 890-4472-1 SDG: 03D2024150

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
890-4472-1	FS01	Solid	04/05/23 09:55	04/05/23 15:41	1.5	4
890-4472-2	FS02	Solid	04/05/23 10:00	04/05/23 15:41	1.5	
890-4472-3	FS03	Solid	04/05/23 12:20	04/05/23 15:41	3	5
890-4472-4	FS04	Solid	04/05/23 10:25	04/05/23 15:41	1.5	
890-4472-5	SW01	Solid	04/05/23 12:25	04/05/23 15:41	0 - 3	
890-4472-6	SW02	Solid	04/05/23 12:30	04/05/23 15:41	0 - 3	
						8
						U
						9
						12

											WWW XELICO.CO		-
Project Manager: Had	Hadlie Green			Bill to: (if different)		Kalie Jennings	Ininas				Work Order	S	
	Ensolum, LLC		0	Company Name:		Ensolum, LLC	i, LLC			Program: UST/PST PRP Brownfields RRC Superfund		wnfields RRC	C Superfund
	601 N Marienfeld St Suite 400	Suite 400	A	Address:		301 N M	arienfel	601 N Marienfeld St Suite 400		State of Project:			
te ZIP:	Midland, TX 79701		0	City, State ZIP:	2	Midland, TX 79701	TX 797	91		Reporting: Level II DLevel III DPST/UST		ST/UST	
	432-557-8895		Email: h	hgreen@ensolum.com,	um.con	n, kjen	nings@	kjennings@ensolum.com		Deliverables: EDD		ADaPT Other:	91:
Name:	Cabo Wabo Federal Com 801H	Com 801H	Turn /	Turn Around					ANALYSIS REQUEST	QUEST		Preserv	Preservative Codes
ă.	03D2024150	50	Routine	_	Pres. Code							None: NO	DI Water: H ₂ O
Project Location:	32.1225,-103.9338		Due Date:									Cool: Cool	MeOH: Me
Sampler's Name:	Peter Van Patten		TAT starts the o	TAT starts the day received by							_	HCL: HC	HNO3: HN
PO #			the lab, if recei	the lab, if received 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:	M	FOOM	iran	300	-	_				NaHSO4: NABIS	SIE
Cooler Custody Seals:	Yes No NA		ctor:	0,0	Pa	PA:					=	Na ₂ S ₂ O ₃ : NaSO ₃	30 ₃
Sample Custody Seals:	Yes NO NIA	Temperature Reading:	Reading:	4.8						0-4472 Chain of Custody		Zn Acetate+NaOH: Zn	aOH: Zn
Total Containers:		Corrected Temperature:	nperature:	ч.С.		-				-	-	NaUH+Ascort	NaUH+Ascorbic Acid: SAPC
Sample Identification	ation Matrix	Date Sampled	Time Sampled	Depth Comp	# of Cont	CHLO	TPH (8 BTEX					Sample	Sample Comments
FS01	Soil	4/5/2023	955 1	1.5' Comp	-	×	××					L	
FS02	Soil	4/5/2023	-	1.5' Comp		×	×						
FS03	Soil	4/5/2023	1220 3'			×	××						
FS04	Soil	4/5/2023		1.5' Comp		×	××						
SW01	Soil	4/5/2023	1225 0	0'-3' Comp		×	×						
SW02	Soil	4/5/2023	1230 0	0'-3' Comp		×	××						
			- Bar	the part	1	+	+						
Total 200.7 / 6010	200.8 / 6020:		8RCRA 13PPM	Texas 11	AI Sb	As B	Ba Be B	3 Cd Ca Cr Co	Co Cu Fe Pb	지	Se A	·	. –
Circle Method(s) and Metal(s) to be analyzed	etal(s) to be analy	/zed	TCLP / SP	TCLP / SPLP 6010: 8RCRA		Sb As	Ва Ве	Cd Cr Co C	U PD MN MO	Sb As Ba Be Cd Cr Co Cu Pb Mh Mo Ni Se Ag II U	Hg: 16317243.	1/243.1//4/0	11411
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of service. A minimum chance of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiat of the control of service.	nent and relinquishmen be liable only for the co charge of \$85.00 will b	t of samples const ost of samples and e applied to each p	itutes a valid purc shall not assume roject and a chan	chase order from cl any responsibility ge of \$5 for each sa	for any I mple sul	ipany to i losses or bmitted to	expenses b Eurofins	enco, its affiliates a incurred by the cli Xenco, but not an	and subcontractors. ent if such losses ar alyzed. These terms '	It assigns standard term e due to circumstances b will be enforced unless p	ms and conditions beyond the control previously negotiated		
Relinquished by: (Sig	(Signature)	Received	Received by: (Signature)	re)		Date/Time	me	Relinquished	shed by: (Signature)	ure) Rece	Received by: (Signature)	ture)	Date/Time
Per Vi Eitz		In Cul	0		4.5	5	ふし	2					
3								4					

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

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 4472 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.	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	

Job Number: 890-4472-1 SDG Number: 03D2024150

Job Number: 890-4472-1 SDG Number: 03D2024150

List Source: Eurofins Midland

List Creation: 04/07/23 10:32 AM

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 4472 List Number: 2 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	

Containers requiring zero headspace have no headspace or bubble is <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

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	NAPP2303047441
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	COG Operating, LLC	OGRID	229137
Contact Name	Justin Carlile	Contact Telephone	(432) 202-4112
Contact email	Justin.Carlile@ConocoPhillips.com	Incident # (assigned by OCD)	NAPP2303047441
Contact mailing address	600 West Illinois Avenue, Midlar	nd, Texas 79701	

Location of Release Source

Latitude 32.1225

-103.9338

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

Site Name		Cabo Wabo I	ederal Com 8	301H	Site Type	Flowline
Date Release	Discovered	January 16	, 2023		API# (if applicable)	
Unit Letter	Section	Township	Range		County	
В	24	25S	29E		Eddy	

Surface Owner: 🗌 State 🔳 Federal 🔲 Tribal 🗌 Private (*Name:* ______

Nature and Volume of Release

Materia	al(s) Released (Select all that apply and attach calculations or specific	justification for the volumes provided below)
Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls) 4.236	Volume Recovered (bbls) 0
	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		

The release was caused by a internal web lining failure on a lay flat.

The release was off the pad.

Evaluation will be made of the site to determine if we may commence remediation immediately or delineate any possible impact from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation activities.

Page	2
1 age	4

Oil Conservation Division

Incident ID	NAPP2303047441
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the responsible party consider this a major release?
5	in 126, for what readen(b) does me responsione party consider and a major research
release as defined by	
19.15.29.7(A) NMAC?	
1).15.2).7(<i>I</i> (<i>I</i>) NIMIC:	
🗌 Yes 🔳 No	
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

Initial Response

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

The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have <u>not</u> been undertaken, explain why:

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

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

Printed Name Brittany N. Esparza	Title: Environmental Technician
Signature:	Date: <u>1/30/2023</u> Telephone: <u>(432) 221-0398</u>
OCD Only Received by: Jocelyn Harimon	Date:01/30/2023

L48 Sp	pill Vol	ume Est	timate F	orm
--------	----------	---------	----------	-----

De LL OCE	11201		12.16 DIA			40 Shin A	olume Estimat	eronn	
Received by OCD:	: 1/30/2	Pacility	Aname & Mumber:	Cabo Wabo 801H L	ocation			NAPP230	30474413 🥂 🛜
S Asset Area:			Deleware East					89 A	
AA	Releas	e Disco	very Date & Time:	1/16/2023 3am CS	Т				M
_			Release Type:	Oil					
Provide an	y know	n detail	s about the event:	Pin Hole leak develo	oped under road o	crossing			
					Spil	I Calculation	n - On Pad Surfac	e Pool Spill	
Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Deepest point in each of the areas (in.)	No. of boundaries of "shore" in each area	Estimated <u>Pool</u> Area (sq. ft.)	Estimated Average Depth (ft.)	Estimated volume of each pool area (bbl.)	Penetration allowance (ft.)	Total Estimated Volume of Spill (bbl.)
Rectangle A	19.0	30.0	2.00	4	570.000	0.042	4.228	0.002	4.236
Rectangle B					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle C	[]	1	1		0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle D		1	1		0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle E					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle F			1		0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle G			4		0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle H	1		1		0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle I		1	1		0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Refeased to Imagi	ng: 2/1	/2023	8:52:32 AM		0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
-	0							Total Volume Release:	4.236

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

District IV 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

MA 25:44:01 5202/8/9 :gnigami olbesades 4

CONDITIONS

Action 180732

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	180732
	Action Type: [C-141] Release Corrective Action (C-141)
CONDITIONS	

Created By Condition Condition jharimon None 2/1/2023

Received by OCD: 4/20/2023 11:46:39 AM Form C-141 State of New Mexico

Oil Conservation Division

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Incident ID	NAPP2303047441	
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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?	<u>>100</u> (ft bgs)
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 vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

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 wells.
- Field data

Page 3

- Data table of soil contaminant concentration data
- \square Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-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

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.

Received by OCD: 4/20/	2023 11:46:39 AM State of New Mex	rico		Page 86 of 93
			Incident ID	NAPP2303047441
Page 4	Oil Conservation Di	Oil Conservation Division		
			Facility ID	
			Application ID	
regulations all operators a public health or the envir failed to adequately inves addition, OCD acceptance and/or regulations. Printed Name: _Justin Signature:Justin email: _Justin.Carlile@	nformation given above is true and compl are required to report and/or file certain re onment. The acceptance of a C-141 repor- stigate and remediate contamination that p e of a C-141 report does not relieve the op Carlile	elease notifications and perform rt by the OCD does not relieve bose a threat to groundwater, si perator of responsibility for co Title: _Senior Environment Date:4/14/	n corrective actions for rele the operator of liability sh urface water, human health mpliance with any other fe al Engineer	eases which may endanger ould their operations have or the environment. In deral, state, or local laws
OCD Only Received by:JC	celyn Harimon	Date:(04/20/2023	

Page 6

Oil Conservation Division

Incident ID	NAPP2303047441
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Closure

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 (electronic submittals in .pdf format are preferred) 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.

<u>Closure Report Attachment Checklist</u>: Each of the following it	tems must be included in the closure report.
\square A scaled site and sampling diagram as described in 19.15.29.	11 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: appropriate OD	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certai may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and re- human health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regula restore, reclaim, and re-vegetate the impacted surface area to the co- accordance with 19.15.29.13 NMAC including notification to the C	ations. The responsible party acknowledges they must substantially inditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete. Title: _Senior Environmental Engineer
OCD Only	
Received by: Jocelyn Harimon	Date:04/20/2023
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible for regulations.
Closure Approved by:	Date:
Printed Name:	Title:



APPENDIX E

NMOCD Notifications

Released to Imaging: 9/8/2023 10:44:35 AM

From:	Enviro, OCD, EMNRD
To:	Hadlie Green
Cc:	Bratcher, Michael, EMNRD; Nobui, Jennifer, EMNRD
Subject:	RE: [EXTERNAL] COP - Sampling Notification (Week of 3/13/2023)
Date:	Wednesday, March 8, 2023 5:12:27 PM

[**EXTERNAL EMAIL**]

Hadlie,

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JΗ

Jocelyn Harimon • Environmental Specialist Environmental Bureau EMNRD - Oil Conservation Division 1220 South St. Francis Drive | Santa Fe, NM 87505 (505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov http:// www.emnrd.nm.gov



From: Hadlie Green <hgreen@ensolum.com>
Sent: Wednesday, March 8, 2023 1:52 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Kalei Jennings <kjennings@ensolum.com>
Subject: [EXTERNAL] COP - Sampling Notification (Week of 3/13/2023)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

All,

ConocoPhillips Company (COP) plans to complete sampling activities at the following site the week of March 13, 2023.

- Red Bull 35 Federal 001/ NAPP2126444907
- Cabo Wabo Federal Com 801H / NAPP2303047441 & NAPP304550164
- Baseball Cap #25H / NAPP2303037207

Thank you,

Received by OCD: 4/20/2023 11:46:39 AM

From:	Enviro, OCD, EMNRD
To:	Hadlie Green
Cc:	Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD
Subject:	RE: [EXTERNAL] COP - Sampling Notification (Week of 4/3/2023)
Date:	Friday, March 31, 2023 10:07:24 AM
Attachments:	image005.jpg image006.png image007.png image008.png image009.png

[**EXTERNAL EMAIL**]

Hadlie,

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JΗ

Jocelyn Harimon • Environmental Specialist Environmental Bureau EMNRD - Oil Conservation Division 1220 South St. Francis Drive | Santa Fe, NM 87505 (505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov http://www.emnrd.nm.gov



From: Hadlie Green <hgreen@ensolum.com>
Sent: Thursday, March 30, 2023 8:57 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Kalei Jennings <kjennings@ensolum.com>
Subject: [EXTERNAL] COP - Sampling Notification (Week of 4/3/2023)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

All,

ConocoPhillips Company (COP) plans to complete sampling activities at the following site the week of April 3, 2023.

- Tusk Federal 004H / NAPP2303742113
 - Sampling Date: 4/3/2023 @ 10:00 AM MST
- Cabo Wabo Federal Com 801H / NAPP2303047441 and NAPP2304550164

• Sampling Date: 4/5-6/2023 @ 8:00 AM MST

Thank you,



Hadlie Green Project Manager 432-557-8895 hgreen@ensolum.com Ensolum, LLC

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

District IV 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

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	209393
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By Condition

We have received your closure report and final C-141 for Incident #NAPP2303047441 CABO WABO FEDERAL COM 801H, thank you. This closure is approved. 9/8/2023 rhamlet

CONDITIONS

Action 209393

Condition Date