



April 20, 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

Baseball Cap 25 M CTB

Incident Number NAPP2303037207

Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of COG Operating, LLC (COG), has prepared this *Closure Request* to document assessment, excavation, and soil sampling activities performed at the Baseball Cap 25 M CTB (Site). The purpose of the Site assessment, excavation, and soil sampling activities was to address impacts to soil resulting from a crude oil flare fire 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 NAPP2303037207.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit M, Section 25, Township 24 South, Range 34 East, in Lea County, New Mexico (32.1839°, -103.4289°) and is associated with oil and gas exploration and production operations on privately owned surface managed by Quail Ranch, LLC.

On January 26, 2023, a heater treater overfilled resulting in fluid being sent to the flare and resulted in a fire on pad. The released volume was estimated to be approximately 0.33 barrels (bbls) of crude oil. The released crude oil ignited and extinguished itself after reaching the ground. COG reported the release immediately to the New Mexico Oil Conservation Division (NMOCD) via email on January 26, 2023 and submitted a Release Notification Form C-141 (Form C-141) on January 30, 2023. The release was assigned Incident Number NAPP2303037207.

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 data is New Mexico Office of the State Engineer (NMOSE) well C-03942 POD 1, located approximately 0.79 miles southwest of the Site. The groundwater well has a reported depth to groundwater of 222 feet bgs and a total depth of 420 feet bgs. Ground surface elevation at the

Baseball Cap 25 M CTB Closure Request COG Operating, LLC



groundwater well location is 3,413 feet above mean sea level (amsl), which is approximately 19 feet lower in elevation than the Site. All wells used 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 an unnamed drywash, located approximately 4,669 feet northeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

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

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

DELINEATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

Between February 2, 2023, and March 7, 2023, Ensolum personnel were at the Site to complete assessment and delineation activities based on visible staining in the release area and information provided by the Form C-141. Soil samples SS01, SS02, and SS07, collected within the release extent via hand auger, were collected at depths ranging from 0.2 feet to 1-foot bgs. Soil Samples SS03 through SS06, collected around the release extent, were collected at a depth of 0.2 feet bgs to assess the lateral extent of the release. Soil from the delineation samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. The release extent and soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.

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- GRO, TPH- DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Laboratory analytical results for delineation soil samples SS03 through SS07 indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria and successfully defined the lateral extent of the release. Laboratory analytical results for delineation soil samples SS01 and SS02, collected at 0.2 feet bgs and within the release extent, indicated TPH concentrations exceeded the Site Closure Criteria. Based on laboratory analytical results for soil samples SS01 and SS02, excavation activities were warranted to address impacted soil.

Baseball Cap 25 M CTB Closure Request COG Operating, LLC



EXCAVATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On March 17, 2023, Ensolum personnel were at the Site to oversee excavation activities based on visible staining within the release extent and laboratory analytical results for soil samples SS01 and SS02. Excavation activities were performed using a backhoe and transport vehicles. To direct excavation activities, soil was screened for VOCs and chloride. The excavation was completed to a depth of 1-foot 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 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. Due to the shallow depth of both excavation extent, the sidewalls were incorporated into the floor samples. Composite soil samples FS01 through FS06 were collected from the floor of the excavation at a depth of 1-foot 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 soil samples FS01 through FS06 indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included as Appendix C.

The excavation area measured approximately 1,175 square feet. A total of 44 cubic yards of impacted soil were removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Facility in Hobbs, New Mexico.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the January 26, 2023, crude oil flare fire. Laboratory analytical results for excavation soil samples, collected from the final excavation extent, indicated all COCs were compliant with the most stringent Table I Closure Criteria. In addition, soil samples SS03 through SS06 successfully defined the lateral extent of the release. Based on the soil sample analytical results, no further remediation was required.

Excavation of impacted soil has mitigated impacts at this Site. Depth to groundwater has been determined to be greater than 100 feet bgs and no other sensitive receptors were identified near the release extent. COG believes these remedial actions are protective of human health, the environment, and groundwater. As such, COG respectfully requests closure for Incident Number NAPP2303037207.



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

Daniel R. Moir, PG

Senior Managing Geologist

Sincerely, **Ensolum, LLC**

Hadlie Green Project Geologist

Jacob Laird, COG Operating, LLC

Quail Ranch, LLC

Appendices:

CC:

Figure 1 Site Receptor Map Figure 2 Soil Sample Locations

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

Appendix B Photographic Log

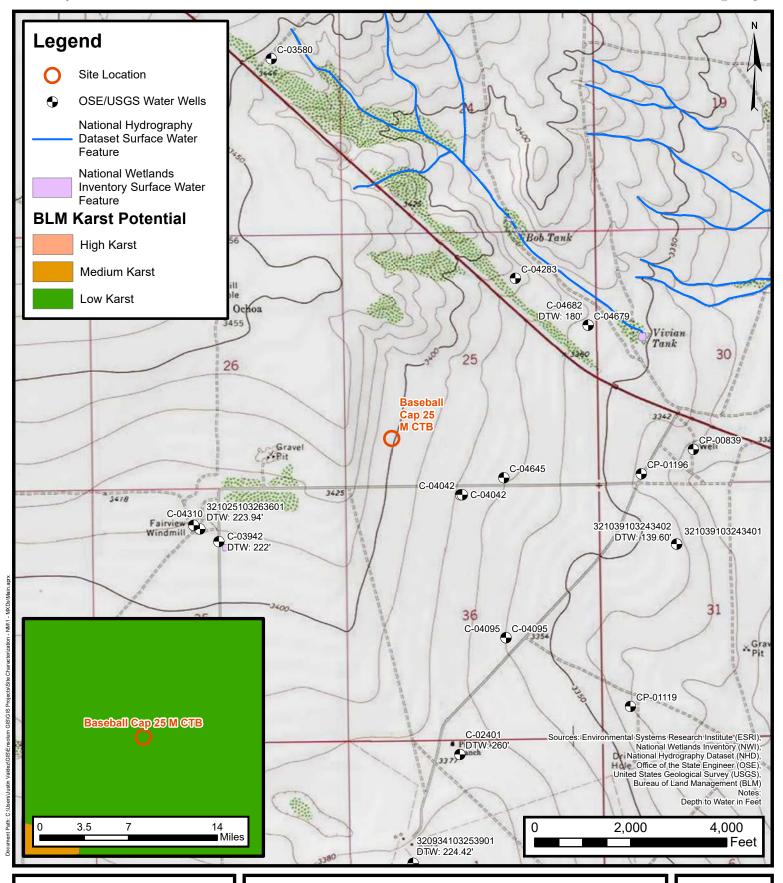
Appendix C Laboratory Analytical Reports & Chain-of-Custody Documentation

Appendix D Final C-141

Appendix E NMOCD Notifications



FIGURES

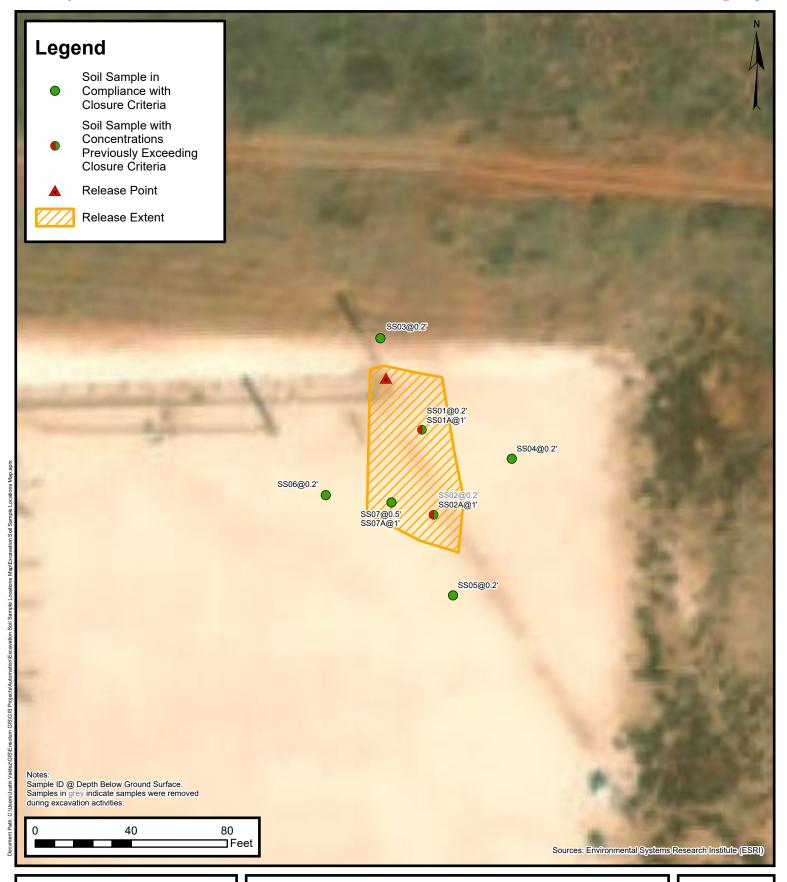




Site Receptor Map

COG Operating, LLC Baseball Cap 25 M CTB Incident Number: NAPP2303037207 Unit M, Sec 25, T24S, R34E Lea County, New Mexico FIGURE

1





Soil Sample Locations

COG Operating, LLC Baseball Cap 25 M CTB Incident ID: NAPP2303037207

Unit M, Sec 25, T25S, R34E Lea County, New Mexico FIGURE

2





Excavation Soil Sample Locations

COG Operating, LLC
Baseball Cap 25 M CTB
Incident Number NAPP2303037207

Unit M, Sec 25, T25S, R34E Lea County, New Mexico FIGURE 3



TABLES

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TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Baseball Cap 25 M CTB

COG Operating, LLC Lea County, New Mexico

				Lea	County, New Me	xico				
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I	Closure Criteria	(NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
	Assessment Soil Samples									
SS01	02/02/2023	0.2	<0.00199	0.410	<249	2,210	566	2,210	2,780	31.3
SS01A	03/07/2023	1	<0.00199	<0.00398	<50.0	65.0	<50.0	65.0	65.0	68.6
SS02	02/02/2023	0.2	<0.00198	<0.00396	<49.9	419	95.9	419	515	54.0
SS02A	03/07/2023	1	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	63.5
SS03	02/02/2023	0.2	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	<4.97
SS04	02/02/2023	0.2	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	16.3
SS05	02/02/2023	0.2	<0.00201	<0.00402	<50.0	62.8	<50.0	62.8	62.8	69.4
SS06	02/02/2023	0.2	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	7.27
SS07	03/07/2023	0.5	<0.00200	<0.00401	<50.0	93.6	<50.0	93.6	93.6	63.2
SS07A	03/07/2023	1	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	39.7
				Exca	avation Soil Sam	ples				
FS01	03/17/2023	1	<0.00199	<0.00398	<49.9	54.3	<49.9	54.3	54.3	68.1
FS02	03/17/2023	1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	53.9
FS03	03/17/2023	1	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	43.6
FS04	03/17/2023	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	93.5
FS05	03/17/2023	1	<0.00199	<0.00398	<50.0	53.9	<50.0	53.9	53.9	47.5
FS06	03/17/2023	1	<0.00200	<0.00399	<49.9	80.6	<49.9	80.6	80.6	54.7

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



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number**

 \mathbf{X}

C 03942 POD1

Q64 Q16 Q4 Sec Tws Rng 2 35 24S 34E

647005 3561246

Driller License: 1737 **Driller Company:**

SHADE TREE DRILLING

Driller Name:

MULLINS, JUSTINIEL.NER

05/17/2016

Plug Date:

Drill Start Date: Log File Date:

05/12/2016

Drill Finish Date: PCW Rcv Date:

Source:

Shallow

Pump Type:

08/05/2021

Pipe Discharge Size:

Estimated Yield:

5 GPM

Casing Size:

6.00

Depth Well:

420 feet

Depth Water:

222 feet

Water Bearing Stratifications: **Top Bottom Description**

> 180 Sandstone/Gravel/Conglomerate 366

Sandstone/Gravel/Conglomerate

Casing Perforations:

Top Bottom 240 260

380 360

420

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

400

1/30/23 3:54 PM

POINT OF DIVERSION SUMMARY



USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category: Geographic Area:
Groundwater V United States V GO

Click to hideNews Bulletins

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

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs site_no list =

• 321025103263601

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 321025103263601 24S.34E.35.12411

Lea County, New Mexico
Latitude 32°10'44.0", Longitude 103°26'31.2" NAD83
Land-surface elevation 3,409.00 feet above NGVD29
The depth of the well is 257 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Ogallala Formation (1210GLL) local aquifer.

Output formats

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

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Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1953-03-2	9	D	62610		3185.10	NGVD29	1	Z		
1953-03-2	9	D	62611		3186.69	NAVD88	1	Z		
1953-03-2	9	D	72019	223.90			1	Z		
1971-01-1	3	D	62610		3190.96	NGVD29	1	Z		
1971-01-1	3	D	62611		3192.55	NAVD88	1	Z		
1971-01-1	3	D	72019	218.04			1	Z		
1976-01-1	5	D	62610		3189.94	NGVD29	1	Z		
1976-01-1	5	D	62611		3191.53	NAVD88	1	Z		
1976-01-1		D	72019	219.06			1	Z		
1981-03-2		D	62610		3191.29	NGVD29	1	Z		
1981-03-2		D	62611		3192.88	NAVD88	1	Z		
1981-03-2		D	72019	217.71			1	Z		
1986-03-0		D	62610		3185.50	NGVD29	1	Z		
1986-03-0		D	62611	222.50	3187.09	NAVD88	1	Z		
1986-03-0		D	72019	223.50	2100.02	NOVESS	1	Z		
1991-05-3	1	D	62610		3189.82	NGVD29	1	Z		

Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1991-05-31		D	62611		3191.41	NAVD88	1	Z		
1991-05-31		D	72019	219.18			1	Z		
1996-03-14		D	62610		3189.81	NGVD29	1	S		
1996-03-14		D	62611		3191.40	NAVD88	1	S		
1996-03-14		D	72019	219.19			1	S		
2013-01-16	22:00 UTC	m	62610		3185.06	NGVD29	1	S	USGS	5
2013-01-16	22:00 UTC	m	62611		3186.65	NAVD88	1	S	USGS	5
2013-01-16	22:00 UTC	m	72019	223.94			1	S	USGS	5

Exp	lanation
-----	----------

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

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

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: 2023-01-30 17:51:25 EST

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APPENDIX B

Photographic Log



Photographic Log

COG Operating, LLC Baseball Cap 25 M CTB NAPP2303037207



Photograph: 1 Date: 1/26/2023

Description: Initial release discovery

View: South



Photograph: 2 Date: 1/26/2023

Description: Release extent

View: North



Photograph: 3 Date: 3/17/2023

Description: Excavation activities

View: West



Photograph: 4 Date: 3/17/2023

Description: Excavation Activities

View: South



APPENDIX C

Laboratory Analytical Reports & Chain of Custody Documentation

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Josh Adams Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701

Generated 2/13/2023 6:43:05 PM

JOB DESCRIPTION

Baseball Cap Federal SDG NUMBER 03D2024151

JOB NUMBER

890-4014-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220



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

Generated 2/13/2023 6:43:05 PM

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

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

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2/13/2023

Client: Ensolum Laboratory Job ID: 890-4014-1 Project/Site: Baseball Cap Federal SDG: 03D2024151

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Definitions/Glossary

Job ID: 890-4014-1 Client: Ensolum Project/Site: Baseball Cap Federal SDG: 03D2024151

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

F1 MS and/or MSD recovery exceeds control limits.

F2 MS/MSD RPD exceeds control limits

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

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

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

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

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

DFR 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

Decision Level Concentration (Radiochemistry) DLC

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

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

Method Detection Limit MDL 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

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

TNTC Too Numerous To Count

Case Narrative

Job ID: 890-4014-1 Client: Ensolum Project/Site: Baseball Cap Federal

SDG: 03D2024151

Job ID: 890-4014-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4014-1

Receipt

The sample was received on 2/3/2023 8:32 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.4°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS04 (890-4014-1).

GC VOA

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 matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-45763 and analytical batch 880-45729 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

HPLC/IC

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

Eurofins Carlsbad 2/13/2023

Matrix: Solid

Lab Sample ID: 890-4014-1

Client Sample Results

Client: Ensolum Job ID: 890-4014-1
Project/Site: Baseball Cap Federal SDG: 03D2024151

Client Sample ID: SS04

Date Collected: 02/02/23 10:30 Date Received: 02/03/23 08:32

Sample Depth: 0.2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		02/09/23 10:23	02/10/23 20:47	1
Toluene	<0.00201	U	0.00201	mg/Kg		02/09/23 10:23	02/10/23 20:47	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		02/09/23 10:23	02/10/23 20:47	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		02/09/23 10:23	02/10/23 20:47	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		02/09/23 10:23	02/10/23 20:47	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		02/09/23 10:23	02/10/23 20:47	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	119		70 - 130			02/09/23 10:23	02/10/23 20:47	1
1,4-Difluorobenzene (Surr)	114		70 - 130			02/09/23 10:23	02/10/23 20:47	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			02/13/23 18:42	1
			•					
Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	
Analyte		Qualifier	•	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 02/09/23 09:45	
Analyte Total TPH	Result < 50.0	Qualifier U	RL 50.0		<u>D</u>	Prepared		
Analyte Total TPH Method: SW846 8015B NM - Dies	Result <50.0 sel Range Organia	Qualifier U	RL 50.0		<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result <50.0 sel Range Organia	Qualifier Unics (DRO) Qualifier	RL 50.0	mg/Kg	_ =	· ·	02/09/23 09:45	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U	RL 50.0 (GC)	mg/Kg	_ =	Prepared	02/09/23 09:45 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0 sel Range Orga Result <50.0	Qualifier U nics (DRO) Qualifier U	RL 50.0 (GC) RL 50.0	mg/Kg Unit mg/Kg	_ =	Prepared 02/08/23 10:22	02/09/23 09:45 Analyzed 02/09/23 04:36	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)	Result <50.0	Qualifier U nics (DRO) Qualifier U U	RL 50.0 (GC) RL 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 02/08/23 10:22 02/08/23 10:22	02/09/23 09:45 Analyzed 02/09/23 04:36 02/09/23 04:36	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 <50.0	Qualifier U nics (DRO) Qualifier U U	RL 50.0 (GC) RL 50.0 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 02/08/23 10:22 02/08/23 10:22 02/08/23 10:22	02/09/23 09:45 Analyzed 02/09/23 04:36 02/09/23 04:36 02/09/23 04:36	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U nics (DRO) Qualifier U U	RL 50.0 (GC) RL 50.0 50.0 50.0 Limits	mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 02/08/23 10:22 02/08/23 10:22 02/08/23 10:22 Prepared	02/09/23 09:45 Analyzed 02/09/23 04:36 02/09/23 04:36 02/09/23 04:36 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result <50.0	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 02/08/23 10:22 02/08/23 10:22 02/08/23 10:22 Prepared 02/08/23 10:22	02/09/23 09:45 Analyzed 02/09/23 04:36 02/09/23 04:36 Analyzed 02/09/23 04:36	Dil Fac
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 1-Chlorooctane o-Terphenyl Method: EPA 300.0 - Anions, Ion Analyte	Result	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 02/08/23 10:22 02/08/23 10:22 02/08/23 10:22 Prepared 02/08/23 10:22	02/09/23 09:45 Analyzed 02/09/23 04:36 02/09/23 04:36 Analyzed 02/09/23 04:36	Dil Fac

Surrogate Summary

Client: Ensolum Job ID: 890-4014-1 Project/Site: Baseball Cap Federal SDG: 03D2024151

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-24301-A-1-E MS	Matrix Spike	118	109	
880-24301-A-1-F MSD	Matrix Spike Duplicate	118	105	
890-4014-1	SS04	119	114	
LCS 880-45890/1-A	Lab Control Sample	106	104	
LCSD 880-45890/2-A	Lab Control Sample Dup	107	106	
MB 880-45890/5-A	Method Blank	106	105	
Surrogate Legend				

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limi
		1CO1	OTPH1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
80-24450-A-14-D MS	Matrix Spike	100	88	
880-24450-A-14-E MSD	Matrix Spike Duplicate	113	102	
90-4014-1	SS04	93	100	
CS 880-45763/2-A	Lab Control Sample	120	113	
CSD 880-45763/3-A	Lab Control Sample Dup	121	110	
/IB 880-45763/1-A	Method Blank	136 S1+	139 S1+	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-4014-1 Project/Site: Baseball Cap Federal SDG: 03D2024151

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-45890/5-A

Matrix: Solid

Analysis Batch: 45955

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 45890

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/09/23 10:23	02/10/23 13:42	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/09/23 10:23	02/10/23 13:42	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/09/23 10:23	02/10/23 13:42	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/09/23 10:23	02/10/23 13:42	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/09/23 10:23	02/10/23 13:42	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/09/23 10:23	02/10/23 13:42	1

MB MB

Surrogate	%Recovery Qu	ualifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106	70 - 130	02/09/23 10:23	02/10/23 13:42	1
1,4-Difluorobenzene (Surr)	105	70 - 130	02/09/23 10:23	02/10/23 13:42	1

Lab Sample ID: LCS 880-45890/1-A

Matrix: Solid

Analysis Batch: 45955

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 45890

	Spike	LCS	LUS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09992		mg/Kg		100	70 - 130	
Toluene	0.100	0.1029		mg/Kg		103	70 - 130	
Ethylbenzene	0.100	0.1033		mg/Kg		103	70 - 130	
m-Xylene & p-Xylene	0.200	0.2205		mg/Kg		110	70 - 130	
o-Xylene	0.100	0.1045		mg/Kg		104	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	106	70 - 130
1,4-Difluorobenzene (Surr)	104	70 - 130

Lab Sample ID: LCSD 880-45890/2-A

Matrix: Solid

Analysis Batch: 45955

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 45890

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Limit Benzene 0.100 0.09865 mg/Kg 99 70 - 130 35 Toluene 0.100 0.1003 mg/Kg 100 70 - 130 3 35 Ethylbenzene 0.100 0.1014 mg/Kg 101 70 - 130 2 35 0.200 m-Xylene & p-Xylene 0.2169 mg/Kg 108 70 - 130 35 0.100 0.1035 o-Xylene mg/Kg 104 70 - 130 35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1.4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 880-24301-A-1-E MS

Matrix: Solid

Analysis Batch: 45955

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

Prep Batch: 45890

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.0998	0.1069		mg/Kg	_	107	70 - 130	
Toluene	< 0.00199	U	0.0998	0.1075		mg/Kg		108	70 - 130	

QC Sample Results

Client: Ensolum Job ID: 890-4014-1
Project/Site: Baseball Cap Federal SDG: 03D2024151

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

Lab Sample ID: 880-24301-A-1-E MS

Matrix: Solid

Analysis Batch: 45955

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 45890

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Ethylbenzene < 0.00199 U 0.0998 0.1083 108 70 - 130 mg/Kg m-Xylene & p-Xylene <0.00398 U 0.200 0.2317 mg/Kg 116 70 - 130 0.0998 o-Xylene <0.00199 U 0.1102 70 - 130 mg/Kg 110

MS MS

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

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 45890

Lab Sample ID: 880-24301-A-1-F MSD Matrix: Solid

Analysis Batch: 45955

Sample Sample Spike MSD MSD RPD Result Qualifier Added Result Qualifier RPD Limit Analyte Unit %Rec Limits Benzene <0.00199 U 0.100 0.09775 mg/Kg 97 70 - 130 9 35 Toluene <0.00199 0.100 0.09791 mg/Kg 98 70 - 130 35 Ethylbenzene <0.00199 U 0.100 0.09845 98 70 - 130 10 35 mg/Kg 0.201 70 - 130 35 m-Xylene & p-Xylene <0.00398 U 0.2108 mg/Kg 105 9 <0.00199 U 0.100 0.1005 70 - 130 o-Xylene mg/Kg 100 9

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

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

Lab Sample ID: MB 880-45763/1-A

Matrix: Solid

Analysis Batch: 45729

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

Prep Batch: 45763

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	IVID	MID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/08/23 10:22	02/08/23 21:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/08/23 10:22	02/08/23 21:23	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/08/23 10:22	02/08/23 21:23	1

MB MB

MR MR

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	136	S1+	70 - 130	02/08/23 10:2	2 02/08/23 21:23	1
o-Terphenyl	139	S1+	70 - 130	02/08/23 10:2	2 02/08/23 21:23	1

Lab Sample ID: LCS 880-45763/2-A

Matrix: Solid

Analysis Batch: 45729

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

Prep Batch: 45763

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	852.5		mg/Kg		85	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	939.4		mg/Kg		94	70 - 130	
C10 C28)								

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Client: Ensolum Job ID: 890-4014-1 Project/Site: Baseball Cap Federal SDG: 03D2024151

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

LCS LCS

Lab Sample ID: LCS 880-45763/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Analysis Batch: 45729

Prep Type: Total/NA

Prep Batch: 45763

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 120 70 - 130 o-Terphenyl 113 70 - 130

Lab Sample ID: LCSD 880-45763/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 45729

Prep Type: Total/NA

Prep Batch: 45763 %Rec RPD

Spike LCSD LCSD Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 859.7 86 70 - 13020 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 922.4 92 mg/Kg 70 - 1302 20

C10-C28)

LCSD LCSD

Surrogate	%Recovery Qualifier	r Limits
1-Chlorooctane	121	70 - 130
o-Terphenyl	110	70 - 130

Lab Sample ID: 880-24450-A-14-D MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 45729

Prep Type: Total/NA

Prep Batch: 45763

Prep Type: Total/NA

Sample Sample Spike MS MS Added Analyte Result Qualifier Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.9 U F1 F2 999 684.7 F1 mg/Kg 67 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 UF1 999 693.6 F1 mg/Kg 67 70 - 130

C10-C28)

MS MS Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 100 o-Terphenyl 88 70 - 130

Lab Sample ID: 880-24450-A-14-E MSD Client Sample ID: Matrix Spike Duplicate

Analysis Batch: 45729

Matrix: Solid

Prep Batch: 45763 Sample Sample Spike MSD MSD %Rec

									701100			
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	<49.9	U F1 F2	999	1045	F2	mg/Kg		103	70 - 130	42	20	
(GRO)-C6-C10												
Diesel Range Organics (Over	<49.9	U F1	999	806.9		mg/Kg		78	70 - 130	15	20	
C10-C28)												

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	113		70 - 130
o-Terphenyl	102		70 - 130

Client Sample ID: Method Blank

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Prep Type: Soluble

Job ID: 890-4014-1

Client: Ensolum Project/Site: Baseball Cap Federal SDG: 03D2024151

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-45663/1-A

Matrix: Solid

Analysis Batch: 45708

Analyte

Chloride

Prep Type: Soluble

мв мв Result Qualifier RL Unit D Prepared Analyzed Dil Fac <5.00 U 5.00 mg/Kg 02/07/23 14:48

Lab Sample ID: LCS 880-45663/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 45708

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 258.1 mg/Kg 103 90 - 110

Lab Sample ID: LCSD 880-45663/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 45708

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 255.5 mg/Kg 102 90 - 110

Lab Sample ID: 890-4013-A-11-B MS

Matrix: Solid

Analysis Batch: 45708

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added Qualifier %Rec Result Unit Limits Chloride 64.8 249 311.1 90 - 110 mg/Kg

Lab Sample ID: 890-4013-A-11-C MSD

Matrix: Solid

Analysis Batch: 45708

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit 249 Chloride 64.8 309.4 mg/Kg 98 90 - 110 20

QC Association Summary

Client: Ensolum
Project/Site: Baseball Cap Federal
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Job ID: 890-4014-1 SDG: 03D2024151

GC VOA

Prep Batch: 45890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4014-1	SS04	Total/NA	Solid	5035	
MB 880-45890/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-45890/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-45890/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-24301-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
880-24301-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 45955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4014-1	SS04	Total/NA	Solid	8021B	45890
MB 880-45890/5-A	Method Blank	Total/NA	Solid	8021B	45890
LCS 880-45890/1-A	Lab Control Sample	Total/NA	Solid	8021B	45890
LCSD 880-45890/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	45890
880-24301-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	45890
880-24301-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	45890

Analysis Batch: 46220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4014-1	SS04	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 45729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4014-1	SS04	Total/NA	Solid	8015B NM	45763
MB 880-45763/1-A	Method Blank	Total/NA	Solid	8015B NM	45763
LCS 880-45763/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	45763
LCSD 880-45763/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	45763
880-24450-A-14-D MS	Matrix Spike	Total/NA	Solid	8015B NM	45763
880-24450-A-14-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	45763

Prep Batch: 45763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4014-1	SS04	Total/NA	Solid	8015NM Prep	
MB 880-45763/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-45763/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-45763/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-24450-A-14-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-24450-A-14-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 45864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4014-1	SS04	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 45663

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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4014-1	SS04	Soluble	Solid	DI Leach	
MB 880-45663/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-45663/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-45663/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Ensolum Job ID: 890-4014-1 Project/Site: Baseball Cap Federal

SDG: 03D2024151

HPLC/IC (Continued)

Leach Batch: 45663 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4013-A-11-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-4013-A-11-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 45708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4014-1	SS04	Soluble	Solid	300.0	45663
MB 880-45663/1-A	Method Blank	Soluble	Solid	300.0	45663
LCS 880-45663/2-A	Lab Control Sample	Soluble	Solid	300.0	45663
LCSD 880-45663/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	45663
890-4013-A-11-B MS	Matrix Spike	Soluble	Solid	300.0	45663
890-4013-A-11-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	45663

Lab Chronicle

Client: Ensolum

Project/Site: Baseball Cap Federal

SDG: 03D2024151

Client Sample ID: SS04 Lab Sample ID: 890-4014-1

Date Collected: 02/02/23 10:30 Matrix: Solid
Date Received: 02/03/23 08:32

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	45890	02/09/23 10:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45955	02/10/23 20:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46220	02/13/23 18:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			45864	02/09/23 09:45	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	45763	02/08/23 10:22	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45729	02/09/23 04:36	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	45663	02/07/23 09:26	KS	EET MID
Soluble	Analysis	300.0		1			45708	02/07/23 16:21	CH	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

Client: Ensolum Job ID: 890-4014-1
Project/Site: Baseball Cap Federal SDG: 03D2024151

Laboratory: Eurofins Midland

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

		ogram	Identification Number	Expiration Date 06-30-23	
		ELAP	T104704400-22-25		
The following analytes	are included in this report, bu	It the laboratory is not certifi	ed by the governing authority. This list ma	av include analytes for	
the agency does not of	fer certification.	•	, , ,	.,	
the agency does not of Analysis Method	fer certification . Prep Method	Matrix	Analyte	-,	
0 ,		Matrix Solid	Analyte Total TPH		

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EET MID

EET MID

EET MID

SW846

SW846

ASTM

Method Summary

Client: Ensolum Job ID: 890-4014-1
Project/Site: Baseball Cap Federal SDG: 03D2024151

Method **Method Description** Protocol Laboratory 8021B Volatile Organic Compounds (GC) SW846 EET MID **Total BTEX Calculation** TAL SOP Total BTEX EET MID 8015 NM Diesel Range Organics (DRO) (GC) SW846 **EET MID** 8015B NM Diesel Range Organics (DRO) (GC) SW846 **EET MID** 300.0 Anions, Ion Chromatography EPA **EET MID**

Protocol References:

5035

8015NM Prep

DI Leach

ASTM = ASTM International

EPA = US Environmental Protection Agency

Microextraction

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Closed System Purge and Trap

Deionized Water Leaching Procedure

Laboratory References:

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

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Sample Summary

Client: Ensolum

Project/Site: Baseball Cap Federal

Job ID: 890-4014-1

SDG: 03D2024151

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4014-1	SS04	Solid	02/02/23 10:30	02/03/23 08:32	0.2

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Josh Adams

Ensolum, LLC

Midland, TX 79701

601 N Marienfeld St Suite 400

Project Manager:

Company Name:

City, State ZIP:

Address:

Environment Testing

Chain of Custody

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

601 N Marienfeld St Suite 400

Kalei Jennings

Ensolum, LLC

Midland, TX 79701

Bill to: (if different)

Company Name:

City, State ZIP:

Address:

www.xenco.com	Page _	of	(
Work Order Co	omments		
Program: UST/PST PRP Brown	fields 🗌 Rf	RC 🗌 Sup	erfund [
Reporting: Level II Level III PST/ Deliverables: EDD ADaPT		RP 📗 L	evel IV

Work Order No:

Phone:	303-5	17-8438			Email	kjennings@ei	nsolum	n.com	jadar	ns@e	nsolum	.com			Delive	rables	: EDD			ADaP	T ☐ Othe	r:	
Project Name:		Baseball Cap Federal		Turn Around			ANALYSIS REQUEST									Preserva	ative Codes						
Project Number:		03D	202415	1	☑ Routine	Rush	Pres. Code														None: NO	DI Water: H ₂ O	
Project Location:		32.1839	9, -103.4	4289	Due Date:									1							Cool: Cool	MeOH: Me	
Sampler's Name:	ler's Name: Julianna Falcomata		Julianna Falcomata		Julianna Falcomata			ne day received by							ı	1	HCL: HC HNO ₃ : HN						
PO #:		the lab, if received by 4:30		the lab, if received by 4:30pm		the lab, if received by 4:30		5														H ₂ S0 ₄ : H ₂	NaOH: Na
SAMPLE RECE	RECEIPT Temp Blank: Yes No Wet Ice:		emp Blank: Yes No		Temp Blank: Yes No We		T Temp Blank: Yes No Wet Ice: Yes No Ict: Yes No Thermometer ID: Yes No				lo Wet Ice: Yes No		Yes No Wet Ice: Yes								1	H₃PO₄: HP	
Samples Received I	ntact:	Temp Blank: Yes No Wet Ice: Yes No Yes No Thermometer ID:				1 (44.44) (19.44) (4.44) (4.44) (4.44) (4.44)					NaHSO₄: NABIS												
Cooler Custody Sea			-	Correction F		1013	a	(EPA:			890-4014 Chain		0-4014 Chain of Custody							Na ₂ S ₂ O ₃ : NaS			
									Zn Acetate+NaOH: Zn														
Sample Identification Metric Date						3.4		(802				NaOH+Ascorbic Acid: SAPC											
		ion	Matrix	Date Sampled	Time Sampled		# of Cont		TPH (8015)	BTEX (8021											Sample	Comments	
5604			5	223	1030	-2 (1	1	V											Mappze	1836904	
																-110							
			-										+	+									
			+				_						1	1									
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				L		<u> </u>		<u></u>		ــــــــــــــــــــــــــــــــــــــ	باللبا												

I	Total Circle M	200.7 /	6010	200.8	6020:	
1	Circle M	ethod(s)	and Me	etal(s) to	be anal	yzed

8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U Hg: 1631 / 245.1 / 7470 / 7471

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

Relinquished by (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 XIAVIIIIIAAION	Oce (AC)	2.9.2383	3		
3 / X/4/1/3	Cart or y		4		
5			6		Powered Date: 08/25/2020 Rev

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4014-1 SDG Number: 03D2024151

Login Number: 4014 List Source: Eurofins Carlsbad

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	

Login Sample Receipt Checklist

 Client: Ensolum
 Job Number: 890-4014-1

 SDG Number: 03D2024151

List Source: Eurofins Midland List Creation: 02/06/23 08:40 AM

Creator: Rodriguez, Leticia

Login Number: 4014

List Number: 2

<6mm (1/4").

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

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2/13/2023

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Josh Adams Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701

Generated 2/13/2023 6:43:36 PM

JOB DESCRIPTION

Baseball Cap Federal SDG NUMBER 03D2024151

JOB NUMBER

890-4015-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

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

Generated 2/13/2023 6:43:36 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

Client: Ensolum
Project/Site: Baseball Cap Federal
Laboratory Job ID: 890-4015-1
SDG: 03D2024151

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Definitions/Glossary

Job ID: 890-4015-1 Client: Ensolum Project/Site: Baseball Cap Federal SDG: 03D2024151

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualitier Description

F1 MS and/or MSD recovery exceeds control limits.

F2 MS/MSD RPD exceeds control limits

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

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
n	Listed under the "D" column to designate that the result is reported on a dry weight bas

%R Percent Recovery

CFL Contains Free Liquid CFU Colony Forming Unit **CNF** Contains No Free Liquid

DFR 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

Decision Level Concentration (Radiochemistry) DLC

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

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

Method Detection Limit MDL 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

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

TNTC Too Numerous To Count

Case Narrative

Job ID: 890-4015-1 Client: Ensolum Project/Site: Baseball Cap Federal

SDG: 03D2024151

Job ID: 890-4015-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4015-1

Receipt

The sample was received on 2/3/2023 8:53 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.4°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: SS03 (890-4015-1).

GC VOA

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 matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-45763 and analytical batch 880-45729 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

HPLC/IC

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

Matrix: Solid

Lab Sample ID: 890-4015-1

Client Sample Results

Client: Ensolum Job ID: 890-4015-1
Project/Site: Baseball Cap Federal SDG: 03D2024151

Client Sample ID: SS03

Date Collected: 02/02/23 10:25 Date Received: 02/03/23 08:53

Sample Depth: 0.2

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199	mg/Kg		02/09/23 10:23	02/10/23 21:07	
Toluene	< 0.00199	U	0.00199	mg/Kg		02/09/23 10:23	02/10/23 21:07	,
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		02/09/23 10:23	02/10/23 21:07	
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		02/09/23 10:23	02/10/23 21:07	,
o-Xylene	< 0.00199	U	0.00199	mg/Kg		02/09/23 10:23	02/10/23 21:07	,
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/09/23 10:23	02/10/23 21:07	,
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130			02/09/23 10:23	02/10/23 21:07	1
1,4-Difluorobenzene (Surr)	110		70 - 130			02/09/23 10:23	02/10/23 21:07	1
	Total RTEX Cald	culation						
Method: TAL SOP Total BTEX - 1	IOIAI DIEA CAIL	MIGUIOII						
		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Total BTEX	<0.00398	Qualifier U	0.00398	<mark>Unit</mark> mg/Kg	<u>D</u>	Prepared	Analyzed 02/13/23 18:42	
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte	Result <0.00398 el Range Organ Result	Qualifier U ics (DRO) (Qualifier	0.00398 GC)		<u>D</u>	Prepared Prepared		1
Analyte Total BTEX Method: SW846 8015 NM - Diese	Result <0.00398	Qualifier U ics (DRO) (Qualifier	0.00398 GC)	mg/Kg			02/13/23 18:42	Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH	Result <0.00398 el Range Organ Result <49.9	Qualifier U ics (DRO) (Qualifier U	0.00398 GC) RL 49.9	mg/Kg Unit			02/13/23 18:42 Analyzed	Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese	el Range Organ Result <49.9 sel Range Organ	Qualifier U ics (DRO) (Qualifier U	0.00398 GC) RL 49.9	mg/Kg Unit			02/13/23 18:42 Analyzed	Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	el Range Organ Result <49.9 sel Range Organ	Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier	0.00398 GC) RL 49.9	mg/Kg Unit mg/Kg	<u>D</u>	Prepared	02/13/23 18:42 Analyzed 02/09/23 09:45	Dil Fac
Analyte 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	el Range Organ Result <49.9 sel Range Orga Result Result Result Result Result Result Result	Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier U	0.00398 GC) RL 49.9 (GC) RL	mg/Kg Unit mg/Kg Unit	<u>D</u>	Prepared Prepared	02/13/23 18:42 Analyzed 02/09/23 09:45 Analyzed	Dil Fac
Analyte 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)	Result <a href="</td"><td>Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier U</td><td>0.00398 RL 49.9 (GC) RL 49.9 49.9</td><td>mg/Kg Unit mg/Kg Unit mg/Kg mg/Kg</td><td> <u>D</u></td><td>Prepared Prepared 02/08/23 10:22 02/08/23 10:22</td><td>02/13/23 18:42 Analyzed 02/09/23 09:45 Analyzed 02/09/23 04:57 02/09/23 04:57</td><td>Dil Fac</td>	Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier U	0.00398 RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg Unit mg/Kg mg/Kg	<u>D</u>	Prepared Prepared 02/08/23 10:22 02/08/23 10:22	02/13/23 18:42 Analyzed 02/09/23 09:45 Analyzed 02/09/23 04:57 02/09/23 04:57	Dil Fac
Analyte 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)	el Range Organ Result <49.9 sel Range Orga Result <49.9	Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier U	0.00398 RL 49.9 (GC) RL 49.9	mg/Kg Unit mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared 02/08/23 10:22	02/13/23 18:42 Analyzed 02/09/23 09:45 Analyzed 02/09/23 04:57	Dil Fac
Analyte 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)	Result <a href="</td"><td>Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier U U U</td><td>0.00398 RL 49.9 (GC) RL 49.9 49.9</td><td>mg/Kg Unit mg/Kg Unit mg/Kg mg/Kg</td><td> <u>D</u></td><td>Prepared Prepared 02/08/23 10:22 02/08/23 10:22</td><td>02/13/23 18:42 Analyzed 02/09/23 09:45 Analyzed 02/09/23 04:57 02/09/23 04:57</td><td>Dil Fac</td>	Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier U U U	0.00398 RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg Unit mg/Kg mg/Kg	<u>D</u>	Prepared Prepared 02/08/23 10:22 02/08/23 10:22	02/13/23 18:42 Analyzed 02/09/23 09:45 Analyzed 02/09/23 04:57 02/09/23 04:57	Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte	Result <0.00398	Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier U U U	0.00398 RL 49.9 (GC) RL 49.9 49.9 49.9	mg/Kg Unit mg/Kg Unit mg/Kg mg/Kg	<u>D</u>	Prepared Prepared 02/08/23 10:22 02/08/23 10:22	02/13/23 18:42 Analyzed 02/09/23 09:45 Analyzed 02/09/23 04:57 02/09/23 04:57	Dil Fac

4.97

mg/Kg

<4.97 U

Eurofins Carlsbad

02/07/23 16:26

Surrogate Summary

Client: Ensolum Job ID: 890-4015-1
Project/Site: Baseball Cap Federal SDG: 03D2024151

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits	s)
		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		
880-24301-A-1-E MS	Matrix Spike	118	109		
880-24301-A-1-F MSD	Matrix Spike Duplicate	118	105		
890-4015-1	SS03	123	110		
LCS 880-45890/1-A	Lab Control Sample	106	104		
LCSD 880-45890/2-A	Lab Control Sample Dup	107	106		
MB 880-45890/5-A	Method Blank	106	105		
Surrogate Legend					
BFB = 4-Bromofluorobe	nzene (Surr)				
DFBZ = 1,4-Difluoroben	zene (Surr)				

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

Matrix: Solid Prep Type: Total/NA

		1001	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-24450-A-14-D MS	Matrix Spike	100	88
880-24450-A-14-E MSD	Matrix Spike Duplicate	113	102
890-4015-1	SS03	90	95
LCS 880-45763/2-A	Lab Control Sample	120	113
LCSD 880-45763/3-A	Lab Control Sample Dup	121	110
MB 880-45763/1-A	Method Blank	136 S1+	139 S1+

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-4015-1 Project/Site: Baseball Cap Federal SDG: 03D2024151

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-45890/5-A

Lab Sample ID: LCS 880-45890/1-A

Matrix: Solid

Analysis Batch: 45955

Matrix: Solid Analysis Batch: 45955 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 45890

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/09/23 10:23	02/10/23 13:42	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/09/23 10:23	02/10/23 13:42	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/09/23 10:23	02/10/23 13:42	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/09/23 10:23	02/10/23 13:42	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/09/23 10:23	02/10/23 13:42	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/09/23 10:23	02/10/23 13:42	1

MB MB

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	02	2/09/23 10:23	02/10/23 13:42	1
1.4-Difluorobenzene (Surr)	105		70 - 130	02	2/09/23 10:23	02/10/23 13:42	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 45890

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.09992 mg/Kg 100 70 - 130 Toluene 0.100 0.1029 mg/Kg 103 70 - 130 Ethylbenzene 0.100 0.1033 mg/Kg 103 70 - 130 70 - 130 0.200 m-Xylene & p-Xylene 0.2205 mg/Kg 110 0.100 o-Xylene 0.1045 mg/Kg 104 70 - 130

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	106	70 - 130
1,4-Difluorobenzene (Surr)	104	70 - 130

Lab Sample ID: LCSD 880-45890/2-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 45955

Prep Type: Total/NA Prep Batch: 45890

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09865		mg/Kg		99	70 - 130	1	35
Toluene	0.100	0.1003		mg/Kg		100	70 - 130	3	35
Ethylbenzene	0.100	0.1014		mg/Kg		101	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2169		mg/Kg		108	70 - 130	2	35
o-Xylene	0.100	0.1035		mg/Kg		104	70 - 130	1	35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	107	70 - 130
1,4-Difluorobenzene (Surr)	106	70 - 130

Lab Sample ID: 880-24301-A-1-E MS

Matrix: Solid

Analysis Batch: 45955

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

Prep Batch: 45890

Sample Sample Spike MS MS Result Qualifier Analyte Added Result Qualifier Unit %Rec Limits <0.00199 U 0.0998 Benzene 0.1069 mg/Kg 107 70 - 130 Toluene <0.00199 U 0.0998 0.1075 mg/Kg 108 70 - 130

QC Sample Results

Job ID: 890-4015-1 Client: Ensolum Project/Site: Baseball Cap Federal SDG: 03D2024151

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

Lab Sample ID: 880-24301-A-1-E MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 45955

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00199	U	0.0998	0.1083		mg/Kg		108	70 - 130	
m-Xylene & p-Xylene	<0.00398	U	0.200	0.2317		mg/Kg		116	70 - 130	
o-Xylene	< 0.00199	U	0.0998	0.1102		mg/Kg		110	70 - 130	

MS MS

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

Lab Sample ID: 880-24301-A-1-F MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 45955

Prep Type: Total/NA

Prep Batch: 45890

Prep Batch: 45890

Sample Sample Spike MSD MSD RPD Result Qualifier Added Result Qualifier %Rec RPD Limit Analyte Unit Limits Benzene <0.00199 U 0.100 0.09775 mg/Kg 97 70 - 130 9 35 Toluene <0.00199 U 0.100 0.09791 mg/Kg 98 70 - 130 9 35 Ethylbenzene <0.00199 U 0.100 0.09845 98 70 - 130 35 mg/Kg 10 0.201 35 m-Xylene & p-Xylene <0.00398 U 0.2108 mg/Kg 105 70 - 130 9 <0.00199 U 0.100 0.1005 70 - 130 o-Xylene mg/Kg 100 9

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

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

Lab Sample ID: MB 880-45763/1-A Client Sample ID: Method Blank **Matrix: Solid**

Analysis Batch: 45729

Prep Type: Total/NA Prep Batch: 45763

MB MB Result Qualifier RL Unit D Prepared Analyzed Dil Fac Analyte 50.0 02/08/23 10:22 02/08/23 21:23 <50.0 U Gasoline Range Organics mg/Kg (GRO)-C6-C10 02/08/23 10:22 02/08/23 21:23 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg C10-C28) OII Range Organics (Over C28-C36) <50.0 U 50.0 02/08/23 10:22 02/08/23 21:23 mg/Kg

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	136	S1+	70 - 130	02/08/23 10:2	2 02/08/23 21:23	1
o-Terphenyl	139	S1+	70 - 130	02/08/23 10:2	2 02/08/23 21:23	1

Lab Sample ID: LCS 880-45763/2-A

Matrix: Solid Analysis Batch: 45729 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Prep Batch: 45763

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	852.5		mg/Kg		85	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	939.4		mg/Kg		94	70 - 130	
C10-C28)								

Job ID: 890-4015-1 Client: Ensolum Project/Site: Baseball Cap Federal SDG: 03D2024151

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

LCS LCS

Lab Sample ID: LCS 880-45763/2-A Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 45729

Prep Type: Total/NA

Prep Batch: 45763

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 120 70 - 130 o-Terphenyl 113 70 - 130

Lab Sample ID: LCSD 880-45763/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 45729

Prep Type: Total/NA

Prep Batch: 45763 RPD

Spike LCSD LCSD %Rec Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 859.7 86 70 - 13020 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 922.4 92 mg/Kg 70 - 1302 20 C10-C28)

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	121		70 - 130
o-Terphenyl	110		70 - 130

Lab Sample ID: 880-24450-A-14-D MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 45729

Prep Type: Total/NA

Prep Batch: 45763

MS MS Sample Sample Spike Added Analyte Result Qualifier Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.9 U F1 F2 999 684.7 F1 mg/Kg 67 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 UF1 999 693.6 F1 mg/Kg 67 70 - 130

C10-C28)

MS MS %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 100 o-Terphenyl 88 70 - 130

Lab Sample ID: 880-24450-A-14-E MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 45729

Prep Type: Total/NA

Prep Batch: 45763

Sample Sample MSD MSD RPD Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit Gasoline Range Organics <49.9 U F1 F2 999 1045 F2 103 70 - 130 42 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.9 UF1 999 806.9 mg/Kg 78 70 - 130 15 20

C10-C28)

MSD MSD

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	113	70 - 130
o-Terphenyl	102	70 - 130

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

Client: Ensolum Job ID: 890-4015-1
Project/Site: Baseball Cap Federal SDG: 03D2024151

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-45663/1-A

Matrix: Solid

Analysis Batch: 45708

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 Analyte
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 Chloride
 <5.00</td>
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 5.00
 mg/Kg
 02/07/23 14:48
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Lab Sample ID: LCS 880-45663/2-A

Matrix: Solid

Analysis Batch: 45708

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 258.1 mg/Kg 103 90 - 110

Lab Sample ID: LCSD 880-45663/3-A

Matrix: Solid

Analysis Batch: 45708

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 255.5 mg/Kg 102 90 - 110

Lab Sample ID: 890-4013-A-11-B MS

Matrix: Solid

Analysis Batch: 45708

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added Qualifier %Rec Result Unit Limits Chloride 64.8 249 311.1 90 - 110 mg/Kg

Lab Sample ID: 890-4013-A-11-C MSD

Matrix: Solid

Analysis Batch: 45708

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit 249 Chloride 64.8 309.4 mg/Kg 98 90 - 110 20

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QC Association Summary

Client: Ensolum Project/Site: Baseball Cap Federal Job ID: 890-4015-1 SDG: 03D2024151

GC VOA

Prep Batch: 45890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4015-1	SS03	Total/NA	Solid	5035	
MB 880-45890/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-45890/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-45890/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-24301-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
880-24301-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 45955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4015-1	SS03	Total/NA	Solid	8021B	45890
MB 880-45890/5-A	Method Blank	Total/NA	Solid	8021B	45890
LCS 880-45890/1-A	Lab Control Sample	Total/NA	Solid	8021B	45890
LCSD 880-45890/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	45890
880-24301-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	45890
880-24301-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	45890

Analysis Batch: 46221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4015-1	SS03	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 45729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4015-1	SS03	Total/NA	Solid	8015B NM	45763
MB 880-45763/1-A	Method Blank	Total/NA	Solid	8015B NM	45763
LCS 880-45763/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	45763
LCSD 880-45763/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	45763
880-24450-A-14-D MS	Matrix Spike	Total/NA	Solid	8015B NM	45763
880-24450-A-14-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	45763

Prep Batch: 45763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4015-1	SS03	Total/NA	Solid	8015NM Prep	
MB 880-45763/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-45763/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-45763/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-24450-A-14-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-24450-A-14-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 45865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4015-1	SS03	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 45663

Released to Imaging: 7/20/2023 9:30:56 AM

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4015-1	SS03	Soluble	Solid	DI Leach	
MB 880-45663/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-45663/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-45663/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

QC Association Summary

Client: Ensolum Job ID: 890-4015-1
Project/Site: Baseball Cap Federal SDG: 03D2024151

HPLC/IC (Continued)

Leach Batch: 45663 (Continued)

Lab Sample ID	Client Sample ID	Prep Type Matrix		Method	Prep Batch
890-4013-A-11-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-4013-A-11-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 45708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4015-1	SS03	Soluble	Solid	300.0	45663
MB 880-45663/1-A	Method Blank	Soluble	Solid	300.0	45663
LCS 880-45663/2-A	Lab Control Sample	Soluble	Solid	300.0	45663
LCSD 880-45663/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	45663
890-4013-A-11-B MS	Matrix Spike	Soluble	Solid	300.0	45663
890-4013-A-11-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	45663

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Lab Chronicle

Client: Ensolum Job ID: 890-4015-1 Project/Site: Baseball Cap Federal SDG: 03D2024151

Client Sample ID: SS03 Lab Sample ID: 890-4015-1

Date Collected: 02/02/23 10:25 Matrix: Solid Date Received: 02/03/23 08:53

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	45890	02/09/23 10:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45955	02/10/23 21:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46221	02/13/23 18:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			45865	02/09/23 09:45	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	45763	02/08/23 10:22	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45729	02/09/23 04:57	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	45663	02/07/23 09:26	KS	EET MID
Soluble	Analysis	300.0		1			45708	02/07/23 16:26	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-4015-1
Project/Site: Baseball Cap Federal SDG: 03D2024151

Laboratory: Eurofins Midland

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

Authority	Pr	ogram	Expiration Date		
Texas	NE	ELAP	T104704400-22-25	06-30-23	
The following analytes	are included in this report, bu	It the laboratory is not certifi	ed by the governing authority. This list ma	av include analytes for	
the agency does not of	fer certification.	•	, , ,	.,	
the agency does not of Analysis Method	fer certification . Prep Method	Matrix	Analyte	-,	
0 ,		Matrix Solid	Analyte Total TPH		

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Method Summary

Job ID: 890-4015-1 Client: Ensolum Project/Site: Baseball Cap Federal

SDG: 03D2024151

Method	Method Description	Protocol	Laboratory EET MID	
8021B	Volatile Organic Compounds (GC)	SW846		
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID	
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID	
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID	
300.0	Anions, Ion Chromatography	EPA	EET MID	
5035	Closed System Purge and Trap	SW846	EET MID	
8015NM Prep	Microextraction	SW846	EET MID	
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID	

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum

Project/Site: Baseball Cap Federal

Job ID: 890-4015-1

SDG: 03D2024151

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4015-1	SS03	Solid	02/02/23 10:25	02/03/23 08:53	0.2

Received by OCD: 4/24/2023 11:28:19 AM

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eurofins

Project Manager: Josh Adams

Environment Testing Xenco

Chain of Custody

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

Kalei Jennings

Bill to: (if different)

Work Order No: _							
www.xenco.com	Page_	1	of				
Work Order Co	mments						
JST/PST PRP Brownfields RRC Superfund oject:							
Level II Level III PST/L	JST [] TE	RRP 🗌	Leve	IV			

Ensolu	ım, LLC				Compar	ny Name	e:	Ensolum, LLC				1 1			RP B	rownfields 🗌 RR	C Superfund		
601 N	Marienfe	eld St Si	uite 400		Address	3:		601 N	Marie	nfeld S	Suite 4	00			-		_		
Midlar	nd, TX 79	9701			City, Sta	ate ZIP:		Midla	nd, TX	79701				4 1					
303-5	17-8438			Email:	kjennin	gs@er	solum	.com	jadan	ns@en	solum.	com		Delive	ables: Et	D L	A	DaPT Oth	er:
	Baseball	pall Cap Federal Turn Around									ANAL	YSIS R	EQUEST				Presen	vative Codes	
				☑ Routine	Rusi	h	Pres.							None: NO	DI Water: H₂O				
	32.1839	9103.4	1289	Due Date:														Cool: Cool	MeOH: Me
					s the day received by		go .								1			HCL: HC H ₂ S0 ₄ : H ₂	HNO ₃ : HN NaOH: Na
Intact: Yes No N/A C cleals: Yes No N/A To) No				F00	arameter	(: 300.0)											
							EPA	1					1	Zn Acetate+NaOH: Zn					
		Als: Yes No N/A Temperature Reading: Corrected Temperature:				DES (15)	1203	890-4015 Chain of Custody		-	NaOH+Ascorbic Acid: SAPC							
ntificati	on	Matrix	Date Sampled	Time Sampled	Depth			CHLOR	тРН (80	втех (8								Sample	e Comments
		5	042 23	1025	•2	C												nappe	U1836904
	Midlar 303-5	Midland, TX 79 303-517-8438 Baseball 03D 32.1839 Julianna IPT Temp Intact: Yes Is: Yes No	Midland, TX 79701 303-517-8438 Baseball Cap Fe 03D202415 32.1839, -103.4 Julianna Falcor IPT Temp Blank: ntact: Yes No NA ls: Yes No NA	Midland, TX 79701 303-517-8438 Baseball Cap Federal 03D2024151 32.1839, -103.4289 Julianna Falcomata PT Temp Blank: SE No Thermometer Is: Yes No N/A Temperature Corrected T Intification Matrix Date Sampled	Midland, TX 79701 303-517-8438 Email: Baseball Cap Federal Turr 03D2024151 ☑ Routine 32.1839, -103.4289 Due Date: Julianna Falcomata TAT starts the lab, if red IPT Temp Blank: (€S) No Wet Ice: Intact: Yes No N/A Temperature Reading: Corrected Temperature: Intification Matrix Date Sampled	Midland, TX 79701 Baseball Cap Federal O3D2024151 Julianna Falcomata TAT starts the day received by Temp Blank: Yes No N/A Correction Factor: Temp Blank: Yes No N/A Temperature Reading: Corrected Temperature: Tat Starts the day received by Tat Starts the day received by	Midland, TX 79701 City, State ZIP: 303-517-8438 Email: kiennings@en Baseball Cap Federal 03D2024151 32.1839, -103.4289 Julianna Falcomata TAT starts the day received by 4:30pm TAT starts the day received	Midland, TX 79701 City, State ZIP: 303-517-8438 Email: kiennings@ensolum Baseball Cap Federal 03D2024151 Routine Rush Pres. Code 32.1839, -103.4289 Julianna Falcomata TAT starts the day received by 4:30pm the lab, if received by 4:30pm TAT starts the day received by 4:30pm the lab, if received by 4:30pm TAT starts the day received by 4:30pm the lab, if received by 4:30pm TAT starts the day received by 4:30pm TAT starts the day rece	601 N Marienfeld St Suite 400 Midland, TX 79701 City, State ZIP: Midland, TX 79701 Baseball Cap Federal O3D2024151 Routine Rush O3D2024151 Julianna Falcomata TAT starts the day received by 4:30pm The lab, if rece	601 N Marienfeld St Suite 400 Address: 602 No Suite 400 Address: 602 No Suite 400 Address: 603 N Old Suite 400 Address: 603 N Old Suite 400 Address: 603 N Old Suite 400 Address: 604 N Old Suite 400 Address: 605 N Old Suite 400 Address: 607 N Old Suite 400 Address: 608 N Old Suite 400 Address: 608 N Old Suite 400 Address: 609 N Old Suite 400 Address: 609 N Old Suite 400 Address: 60	601 N Marienfeld St Suite 400 Address: 601 N Marienfeld St Suite 400 Address: 601 N Marienfeld St Suite 400 Address: 601 N Marienfeld St Suite 400 City, State ZIP: Midland, TX 79701 303-517-8438 Email: kiennings@ensolum.com, jadams@en Baseball Cap Federal 7urn Around 03D2024151 Routine Rush 32.1839, -103.4289 Julianna Falcomata TAT starts the day received by 4:30pm the lab, if receiv	601 N Marienfeld St Suite 400 Address: 601 N Marienfeld St Suite 400 Address: 601 N Marienfeld St Suite 400 City, State ZIP: Midland, TX 79701 303-517-8438 Email: kjennings@ensolum.com, jadams@ensolum. Baseball Cap Federal O3D2024151 Routine Rush O3D2024151 Julianna Falcomata TAT starts the day received by the lab, if received by 4:30pm the lab, if received by	601 N Marienfeld St Suite 400 Midland, TX 79701 City, State ZIP: Midland, TX 79701 303-517-8438 Email: kiennings@ensolum.com, jadams@ensolum.com Baseball Cap Federal O3D2024151 Routine Rush O3D2024151 Julianna Falcomata TAT starts the day received by 4:30pm the lab, if received by 4:30pm TAT Starts the day received by 4:30pm the lab, if received by 4:30pm TAT Starts the day received by 4:30pm the lab, if received by 4:30pm TAT Starts the day received by 4:30pm TAT	601 N Marienfeld St Suite 400 Midland, TX 79701 City, State ZIP: Midland, TX 79701 303-517-8438 Email: kjennings@ensolum.com, jadams@ensolum.com Baseball Cap Federal O3D2024151 Routine Rush O3D2024151 Julianna Falcomata TAT starts the day received by 4:30pm the lab, if received by 4:30pm the lab, i	Midland, TX 79701 City, State ZIP: Midland, TX 79701 City, State ZIP: Midland, TX 79701 Deliver	State of Project:	State of Project: Reporting: Level II Level II	State of Project: Reporting: Level II Level III Deliverables: EDD AI AI ANALYSIS REQUEST	State of Project: Reporting: Level PST/UST TRF

8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn Total 200.7 / 6010 200.8 / 6020: Hg: 1631 / 245.1 / 7470 / 7471 TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Circle Method(s) and Metal(s) to be analyzed

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

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	16 10 Mala	Clar City	2.3.23 83	2		
3	Millerrung			4		
5				6		
Ц						Revised Date: 08/25/2020 Rev. 2020

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4015-1 SDG Number: 03D2024151

Login Number: 4015 List Source: Eurofins Carlsbad

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	

Login Sample Receipt Checklist

 Client: Ensolum
 Job Number: 890-4015-1

 SDG Number: 03D2024151

List Source: Eurofins Midland List Creation: 02/06/23 08:40 AM

Creator: Rodriguez, Leticia

Login Number: 4015

List Number: 2

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

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<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Josh Adams Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701

Generated 2/13/2023 6:44:11 PM

JOB DESCRIPTION

Baseball Cap Federal SDG NUMBER 03D2024151

JOB NUMBER

890-4016-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220



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

Generated 2/13/2023 6:44:11 PM

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

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

Companies

Client: Ensolum
Project/Site: Baseball Cap Federal
Laboratory Job ID: 890-4016-1
SDG: 03D2024151

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Definitions/Glossary

Job ID: 890-4016-1 Client: Ensolum Project/Site: Baseball Cap Federal SDG: 03D2024151

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier **Qualifier Description** F1 MS and/or MSD recovery exceeds control limits. F2 MS/MSD RPD exceeds control limits

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

HPLC/IC

Qualifier **Qualifier Description**

U Indicates the analyte was analyzed for but not detected.

Glossary

DLC

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

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)

Decision Level Concentration (Radiochemistry)

MDL Method Detection Limit ML Minimum Level (Dioxin) MPN Most Probable Number MOI 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 **Practical Quantitation Limit PQL**

PRES Presumptive **Quality Control** QC

Relative Error Ratio (Radiochemistry) **RER**

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Project/Site: Baseball Cap Federal

Job ID: 890-4016-1

SDG: 03D2024151

Job ID: 890-4016-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4016-1

Receipt

The samples were received on 2/3/2023 8:32 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.4°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS01 (890-4016-1) and SS02 (890-4016-2).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: SS01 (890-4016-1). 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 matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-45763 and analytical batch 880-45729 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

HPLC/IC

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

Job ID: 890-4016-1

Client: Ensolum Project/Site: Baseball Cap Federal SDG: 03D2024151

Client Sample ID: SS01 Lab Sample ID: 890-4016-1

Date Collected: 02/02/23 10:15 Matrix: Solid Date Received: 02/03/23 08:32

Sample Depth: 0.2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199	mg/Kg		02/09/23 10:23	02/10/23 21:28	
Toluene	0.0123		0.00199	mg/Kg		02/09/23 10:23	02/10/23 21:28	1
Ethylbenzene	0.0591		0.00199	mg/Kg		02/09/23 10:23	02/10/23 21:28	
m-Xylene & p-Xylene	0.227		0.00398	mg/Kg		02/09/23 10:23	02/10/23 21:28	
o-Xylene	0.112		0.00199	mg/Kg		02/09/23 10:23	02/10/23 21:28	
Xylenes, Total	0.339		0.00398	mg/Kg		02/09/23 10:23	02/10/23 21:28	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130			02/09/23 10:23	02/10/23 21:28	
1,4-Difluorobenzene (Surr)	98		70 - 130			02/09/23 10:23	02/10/23 21:28	
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	0.410		0.00398	mg/Kg			02/13/23 18:42	-
Method: SW846 8015 NM - Dies	sel Range Organ	ics (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	2780		249	mg/Kg			02/09/23 09:45	
Method: SW846 8015B NM - Di	esel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<249	U	249	mg/Kg		02/08/23 10:22	02/09/23 05:37	
Diesel Range Organics (Over C10-C28)	2210		249	mg/Kg		02/08/23 10:22	02/09/23 05:37	
Oll Range Organics (Over C28-C36)	566		249	mg/Kg		02/08/23 10:22	02/09/23 05:37	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	92		70 - 130			02/08/23 10:22	02/09/23 05:37	
o-Terphenyl	96		70 - 130			02/08/23 10:22	02/09/23 05:37	
Method: EPA 300.0 - Anions, lo	n Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
			5.04	mg/Kg				

Client Sample ID: SS02 Lab Sample ID: 890-4016-2 Matrix: Solid

Date Collected: 02/02/23 10:20 Date Received: 02/03/23 08:32

Sample Depth: 0.2

Method: SW846 8021B - Volatile Organic Compounds (GC)											
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac			
Benzene	<0.00198	U	0.00198	mg/Kg		02/09/23 10:23	02/10/23 21:48	1			
Toluene	0.00333		0.00198	mg/Kg		02/09/23 10:23	02/10/23 21:48	1			
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		02/09/23 10:23	02/10/23 21:48	1			
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		02/09/23 10:23	02/10/23 21:48	1			
o-Xylene	<0.00198	U	0.00198	mg/Kg		02/09/23 10:23	02/10/23 21:48	1			
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		02/09/23 10:23	02/10/23 21:48	1			

Matrix: Solid

Lab Sample ID: 890-4016-2

02/07/23 16:45

Client Sample Results

Client: Ensolum Job ID: 890-4016-1 Project/Site: Baseball Cap Federal SDG: 03D2024151

Client Sample ID: SS02

54.0

Date Collected: 02/02/23 10:20 Date Received: 02/03/23 08:32

Sample Depth: 0.2

Chloride

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130			02/09/23 10:23	02/10/23 21:48	1
1,4-Difluorobenzene (Surr)	105		70 - 130			02/09/23 10:23	02/10/23 21:48	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			02/13/23 18:42	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	515		49.9	mg/Kg			02/09/23 09:45	1
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/08/23 10:22	02/09/23 05:58	1
Diesel Range Organics (Over	419		49.9	mg/Kg		02/08/23 10:22	02/09/23 05:58	1
C10-C28)								
Oll Banga Organica (Over	95.9		49.9	mg/Kg		02/08/23 10:22	02/09/23 05:58	1
Oll Range Organics (Over C28-C36)								
	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
C28-C36)		Qualifier	Limits 70 - 130			Prepared 02/08/23 10:22	Analyzed 02/09/23 05:58	Dil Fac

4.99

mg/Kg

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Surrogate Summary

Client: Ensolum Job ID: 890-4016-1
Project/Site: Baseball Cap Federal SDG: 03D2024151

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

-			
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-24301-A-1-E MS	Matrix Spike	118	109
880-24301-A-1-F MSD	Matrix Spike Duplicate	118	105
890-4016-1	SS01	133 S1+	98
890-4016-2	SS02	123	105
LCS 880-45890/1-A	Lab Control Sample	106	104
LCSD 880-45890/2-A	Lab Control Sample Dup	107	106
MB 880-45890/5-A	Method Blank	106	105
Surrogate Legend			
BFB = 4-Bromofluorober	zene (Surr)		

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

_			
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-24450-A-14-D MS	Matrix Spike	100	88
880-24450-A-14-E MSD	Matrix Spike Duplicate	113	102
890-4016-1	SS01	92	96
890-4016-2	SS02	89	91
LCS 880-45763/2-A	Lab Control Sample	120	113
LCSD 880-45763/3-A	Lab Control Sample Dup	121	110
MB 880-45763/1-A	Method Blank	136 S1+	139 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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QC Sample Results

Client: Ensolum Job ID: 890-4016-1 Project/Site: Baseball Cap Federal SDG: 03D2024151

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-45890/5-A

Lab Sample ID: LCS 880-45890/1-A

Matrix: Solid Analysis Batch: 45955 Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 45890

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/09/23 10:23	02/10/23 13:42	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/09/23 10:23	02/10/23 13:42	•
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/09/23 10:23	02/10/23 13:42	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/09/23 10:23	02/10/23 13:42	
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/09/23 10:23	02/10/23 13:42	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/09/23 10:23	02/10/23 13:42	•

MB MB

MD MD

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130		02/09/23 10:23	02/10/23 13:42	1
1,4-Difluorobenzene (Surr)	105		70 - 130	(02/09/23 10:23	02/10/23 13:42	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 45890

Prep Type: Total/NA

Prep Batch: 45890

Analysis Batch: 45955 LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.09992 mg/Kg 100 70 - 130 Toluene 0.100 0.1029 mg/Kg 103 70 - 130 0.100 103 Ethylbenzene 0.1033 mg/Kg 70 - 130 0.200 0.2205 70 - 130 m-Xylene & p-Xylene mg/Kg 110 0.100 0.1045 104 70 - 130 o-Xylene mg/Kg

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	106	70 - 130
1,4-Difluorobenzene (Surr)	104	70 - 130

Lab Sample ID: LCSD 880-45890/2-A **Client Sample ID: Lab Control Sample Dup**

Matrix: Solid

Matrix: Solid

Analysis Batch: 45955

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09865		mg/Kg		99	70 - 130	1	35
Toluene	0.100	0.1003		mg/Kg		100	70 - 130	3	35
Ethylbenzene	0.100	0.1014		mg/Kg		101	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2169		mg/Kg		108	70 - 130	2	35
o-Xylene	0.100	0.1035		mg/Kg		104	70 - 130	1	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1.4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 880-24301-A-1-E MS	Client Sample ID: Matrix Spike
Matrix: Solid	Prep Type: Total/NA
Analysis Batch: 45955	Prep Batch: 45890

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.0998	0.1069		mg/Kg		107	70 - 130	
Toluene	<0.00199	U	0.0998	0.1075		mg/Kg		108	70 - 130	

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QC Sample Results

Client: Ensolum Job ID: 890-4016-1 Project/Site: Baseball Cap Federal SDG: 03D2024151

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

Lab Sample ID: 880-24301-A-1-E MS

Lab Sample ID: 880-24301-A-1-F MSD

Matrix: Solid

Matrix: Solid

Analysis Batch: 45955

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 45890

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00199	U	0.0998	0.1083		mg/Kg		108	70 - 130	
m-Xylene & p-Xylene	<0.00398	U	0.200	0.2317		mg/Kg		116	70 - 130	
o-Xylene	<0.00199	U	0.0998	0.1102		mg/Kg		110	70 - 130	

MS MS

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

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 45890

RPD

Analysis Batch: 45955 Sample Sample Spike MSD MSD Result Qualifier Added Result Qualifier RPD Limit Analyte Unit %Rec Limits 0.100 Benzene <0.00199 U 0.09775 mg/Kg 97 70 - 130 9 35 Toluene <0.00199 U 0.09791 0.100 mg/Kg 98 70 - 130 35 Ethylbenzene <0.00199 U 0.100 0.09845 mg/Kg 98 70 - 130 10 35 <0.00398 U 0.201 0.2108 70 - 130 35 m-Xylene & p-Xylene mg/Kg 105 9 <0.00199 U 0.100 0.1005 70 - 130 9 o-Xylene mg/Kg 100

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

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

Lab Sample ID: MB 880-45763/1-A

Matrix: Solid

Analysis Batch: 45729

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 45763

	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		02/08/23 10:22	02/08/23 21:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/08/23 10:22	02/08/23 21:23	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/08/23 10:22	02/08/23 21:23	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	136	S1+	70 - 130	02/08/23 10:2	2 02/08/23 21:23	1
o-Terphenyl	139	S1+	70 - 130	02/08/23 10:2	2 02/08/23 21:23	1

Lab Sample ID: LCS 880-45763/2-A

Matrix: Solid

Analysis Batch: 45729

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

Prep Batch: 45763

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	852.5		mg/Kg		85	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	939.4		mg/Kg		94	70 - 130	
C10-C28)								

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Job ID: 890-4016-1 Client: Ensolum Project/Site: Baseball Cap Federal SDG: 03D2024151

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

LCS LCS

Lab Sample ID: LCS 880-45763/2-A Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 45729

Prep Type: Total/NA

Prep Batch: 45763

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 120 70 - 130 o-Terphenyl 113 70 - 130

Lab Sample ID: LCSD 880-45763/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 45729

Prep Type: Total/NA

Prep Batch: 45763

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 859.7 86 70 - 13020 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 922.4 92 mg/Kg 70 - 1302 20

C10-C28)

LCSD LCSD

Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 121 110 70 - 130 o-Terphenyl

Lab Sample ID: 880-24450-A-14-D MS Client Sample ID: Matrix Spike

MS MS

Matrix: Solid

Analysis Batch: 45729

Prep Type: Total/NA

Prep Batch: 45763

Added Analyte Result Qualifier Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.9 U F1 F2 999 684.7 F1 mg/Kg 67 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 UF1 999 693.6 F1 mg/Kg 67 70 - 130 C10-C28)

Spike

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

70 - 130 o-Terphenyl 88

Lab Sample ID: 880-24450-A-14-E MSD

Analysis Batch: 45729

Matrix: Solid

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

Prep Batch: 45763

Sample Sample MSD MSD RPD Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit U F1 F2 999 1045 F2 103 Gasoline Range Organics <49.9 70 - 130 42 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.9 UF1 999 806.9 mg/Kg 78 70 - 130 15 20

C10-C28)

MSD MSD

Sample Sample

Qualifier Surrogate %Recovery Limits 1-Chlorooctane 113 70 - 130 102 70 - 130 o-Terphenyl

Client Sample ID: Method Blank

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Job ID: 890-4016-1

Client: Ensolum Project/Site: Baseball Cap Federal SDG: 03D2024151

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-45663/1-A

Matrix: Solid

Analysis Batch: 45708

Prep Type: Soluble MB MB

Dil Fac Analyte Result Qualifier RL Unit D Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 02/07/23 14:48

Lab Sample ID: LCS 880-45663/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 45708

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 258.1 mg/Kg 103 90 - 110

Lab Sample ID: LCSD 880-45663/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 45708

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 255.5 mg/Kg 102 90 - 110

Lab Sample ID: 890-4013-A-11-B MS Client Sample ID: Matrix Spike **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 45708

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added Qualifier %Rec Result Unit Limits Chloride 64.8 249 311.1 90 - 110 mg/Kg

Lab Sample ID: 890-4013-A-11-C MSD

Matrix: Solid

Analysis Batch: 45708

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit 249 Chloride 64.8 309.4 mg/Kg 98 90 - 110 20

QC Association Summary

Client: Ensolum Job ID: 890-4016-1 Project/Site: Baseball Cap Federal SDG: 03D2024151

GC VOA

Prep Batch: 45890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4016-1	SS01	Total/NA	Solid	5035	
890-4016-2	SS02	Total/NA	Solid	5035	
MB 880-45890/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-45890/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-45890/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-24301-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
880-24301-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 45955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4016-1	SS01	Total/NA	Solid	8021B	45890
890-4016-2	SS02	Total/NA	Solid	8021B	45890
MB 880-45890/5-A	Method Blank	Total/NA	Solid	8021B	45890
LCS 880-45890/1-A	Lab Control Sample	Total/NA	Solid	8021B	45890
LCSD 880-45890/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	45890
880-24301-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	45890
880-24301-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	45890

Analysis Batch: 46222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4016-1	SS01	Total/NA	Solid	Total BTEX	
890-4016-2	SS02	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 45729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4016-1	SS01	Total/NA	Solid	8015B NM	45763
890-4016-2	SS02	Total/NA	Solid	8015B NM	45763
MB 880-45763/1-A	Method Blank	Total/NA	Solid	8015B NM	45763
LCS 880-45763/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	45763
LCSD 880-45763/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	45763
880-24450-A-14-D MS	Matrix Spike	Total/NA	Solid	8015B NM	45763
880-24450-A-14-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	45763

Prep Batch: 45763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4016-1	SS01	Total/NA	Solid	8015NM Prep	
890-4016-2	SS02	Total/NA	Solid	8015NM Prep	
MB 880-45763/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-45763/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-45763/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-24450-A-14-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-24450-A-14-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 45867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4016-1	SS01	Total/NA	Solid	8015 NM	
890-4016-2	SS02	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum Job ID: 890-4016-1
Project/Site: Baseball Cap Federal SDG: 03D2024151

HPLC/IC

Leach Batch: 45663

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4016-1	SS01	Soluble	Solid	DI Leach	
890-4016-2	SS02	Soluble	Solid	DI Leach	
MB 880-45663/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-45663/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-45663/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4013-A-11-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-4013-A-11-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 45708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4016-1	SS01	Soluble	Solid	300.0	45663
890-4016-2	SS02	Soluble	Solid	300.0	45663
MB 880-45663/1-A	Method Blank	Soluble	Solid	300.0	45663
LCS 880-45663/2-A	Lab Control Sample	Soluble	Solid	300.0	45663
LCSD 880-45663/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	45663
890-4013-A-11-B MS	Matrix Spike	Soluble	Solid	300.0	45663
890-4013-A-11-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	45663

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Lab Chronicle

Client: Ensolum Job ID: 890-4016-1 Project/Site: Baseball Cap Federal SDG: 03D2024151

Client Sample ID: SS01 Lab Sample ID: 890-4016-1

Matrix: Solid

Date Collected: 02/02/23 10:15 Date Received: 02/03/23 08:32

	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	45890	02/09/23 10:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45955	02/10/23 21:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46222	02/13/23 18:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			45867	02/09/23 09:45	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	45763	02/08/23 10:22	AJ	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	45729	02/09/23 05:37	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	45663	02/07/23 09:26	KS	EET MID
Soluble	Analysis	300.0		1			45708	02/07/23 16:40	CH	EET MID

Client Sample ID: SS02 Lab Sample ID: 890-4016-2

Date Collected: 02/02/23 10:20 Matrix: Solid

Date Received: 02/03/23 08:32

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	45890	02/09/23 10:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45955	02/10/23 21:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46222	02/13/23 18:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			45867	02/09/23 09:45	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	45763	02/08/23 10:22	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45729	02/09/23 05:58	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	45663	02/07/23 09:26	KS	EET MID
Soluble	Analysis	300.0		1			45708	02/07/23 16:45	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-4016-1 Project/Site: Baseball Cap Federal SDG: 03D2024151

Laboratory: Eurofins Midland

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

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-22-25	06-30-23
The following analytes	are included in this report, bu	It the laboratory is not certifi	ed by the governing authority. This list ma	av include analytes for
the agency does not of	fer certification.	•	, , ,	.,
the agency does not of Analysis Method	fer certification . Prep Method	Matrix	Analyte	-,
0 ,		Matrix Solid	Analyte Total TPH	

Method Summary

Client: Ensolum

Job ID: 890-4016-1 Project/Site: Baseball Cap Federal

SDG: 03D2024151

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum

Project/Site: Baseball Cap Federal

Job ID: 890-4016-1

SDG: 03D2024151

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4016-1	SS01	Solid	02/02/23 10:15	02/03/23 08:32	0.2
890-4016-2	SS02	Solid	02/02/23 10:20	02/03/23 08:32	0.2

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Received by OCD: 4/24/2023 11:28:10 AM

eurofins

Xenco











Chain of Custody

Environment Testing

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:	

www.xenco.com

Project Manager:	Josh Adams				Bill to: (if	differen	t)	Kalei .	Jennin	gs		Work Ore	der Comments
Company Name:	Ensolum, LLC				Compan	y Name):	Ensol	um, LL	.c		Program: UST/PST PRP E	Brownfields 🗌 RRC 📗 Superfund 📗
Address:	601 N Marienfe	eld St S	uite 400		Address	:		601 N	Marie	nfeld St S	uite 400	State of Project:	
City, State ZIP:	Midland, TX 79	701			City, Sta	te ZIP:		Midlar	nd, TX	79701			PST/UST TRRP Level IV
Phone:	303-517-8438			Email:	kjenning	gs@en	solum	.com,	jadan	ns@ens	lum.com	Deliverables: EDD A	DaPT Other:
Project Name:	Baseball	Cap Fe	ederal	Turr	n Around						ANALYSIS R	EQUEST	Preservative Codes
Project Number:		202415		☑ Routine	Rush	1	Pres. Code						None: NO DI Water: H ₂ O
Project Location:	32.1839	103.4	1289	Due Date:									Cool: Cool MeOH: Me
Sampler's Name: PO #:	Julianna			TAT starts the			δ.						HCL: HC HNO ₃ : HN H ₂ SO ₄ : H ₂ NaOH: Na
SAMPLE RECE Samples Received I Cooler Custody Sea Sample Custody Sea Total Containers:	ntact: Yes No	No MHA	Thermometr Correction F Temperatur Corrected T	actor:	Yea V M O	Ph	Parameters	DES (EPA: 300.0)	15)	(8021	890-4016 Cha	in of Custody	H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC
Sample ide	ntification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp		CHLORIDES	TPH (8015)	втех (8			Sample Comments
5501 5502		<u>S</u>	Q-02-3 Q2-02-3	1015	o2'	0							MARRITISTOGOT

I	Total Circle Me	200.7 /	6010	20	0.8 /	60	20:	
I	Circle Me	ethod(s)	and	Metal(s) to	be	analy	zed

TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U Hg: 1631 / 245.1 / 7470 / 7471

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 (2) 100 (2) (00)	NOP (1/10	2.3-23 83	3		
3			4		
5	V		6		Paris of Data 08/25/2020 Rev 202

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4016-1 SDG Number: 03D2024151

Login Number: 4016 List Source: Eurofins Carlsbad

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	

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4016-1

SDG Number: 03D2024151

Login Number: 4016 **List Source: Eurofins Midland** List Number: 2

List Creation: 02/06/23 08:40 AM

Creator: Rodriguez, Leticia

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

Released to Imaging: 7/20/2023 9:30:56 AM

<6mm (1/4").

ANALYTICAL REPORT

PREPARED FOR

Attn: Josh Adams Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701

Generated 2/13/2023 6:37:59 PM

JOB DESCRIPTION

Baseball Cap Federal SDG NUMBER 03D2024151

JOB NUMBER

890-4018-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220



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

Generated 2/13/2023 6:37:59 PM

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

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

Page 2 of 20

2/13

Client: Ensolum
Project/Site: Baseball Cap Federal
Laboratory Job ID: 890-4018-1
SDG: 03D2024151

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Definitions/Glossary

Job ID: 890-4018-1 Client: Ensolum Project/Site: Baseball Cap Federal SDG: 03D2024151

Qualifiers

GC VOA Qualifier

Qualifier Description F1 MS and/or MSD recovery exceeds control limits.

F2 MS/MSD RPD exceeds control limits

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

GC Semi VOA

Qualifier **Qualifier Description**

LCS and/or LCSD is outside acceptance limits, low biased. S1-Surrogate recovery exceeds control limits, low biased. Indicates the analyte was analyzed for but not detected. U

HPLC/IC

Qualifier **Qualifier Description**

U Indicates the analyte was analyzed for but not detected.

Glossary

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

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

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

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

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

Decision Level Concentration (Radiochemistry) DLC

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

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

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present PQL

Practical Quantitation Limit

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

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Project/Site: Baseball Cap Federal

Job ID: 890-4018-1

SDG: 03D2024151

Job ID: 890-4018-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4018-1

Receipt

The sample was received on 2/3/2023 8:33 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.4°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: SS05 (890-4018-1).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: SS05 (890-4018-1) and (880-24559-A-1-C). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-45966 and analytical batch 880-45954 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-45800 and analytical batch 880-46050 was outside the control limits.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: SS05 (890-4018-1), (890-4017-A-2-B), (890-4017-A-2-C MS) and (890-4017-A-2-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-45800 and analytical batch 880-46050 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance

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

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

Eurofins Carlsbad 2/13/2023

Matrix: Solid

Lab Sample ID: 890-4018-1

Client Sample Results

Client: Ensolum Job ID: 890-4018-1
Project/Site: Baseball Cap Federal SDG: 03D2024151

Client Sample ID: SS05

Date Collected: 02/02/23 10:35 Date Received: 02/03/23 08:33

Sample Depth: 0.2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		02/10/23 10:23	02/11/23 04:15	1
Toluene	<0.00201	U	0.00201	mg/Kg		02/10/23 10:23	02/11/23 04:15	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		02/10/23 10:23	02/11/23 04:15	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		02/10/23 10:23	02/11/23 04:15	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		02/10/23 10:23	02/11/23 04:15	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		02/10/23 10:23	02/11/23 04:15	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	64	S1-	70 - 130			02/10/23 10:23	02/11/23 04:15	1
1,4-Difluorobenzene (Surr)	92		70 - 130			02/10/23 10:23	02/11/23 04:15	1
- Method: TAL SOP Total BTEX - T	otal BTEX Cal	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			02/13/23 19:09	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)					
Analyte	• •	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	62.8		50.0	mg/Kg			02/13/23 14:26	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/08/23 13:01	02/11/23 12:53	1
Diesel Range Organics (Over C10-C28)	62.8	*-	50.0	mg/Kg		02/08/23 13:01	02/11/23 12:53	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/08/23 13:01	02/11/23 12:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	47	S1-	70 - 130			02/08/23 13:01	02/11/23 12:53	1
o-Terphenyl	48	S1-	70 - 130			02/08/23 13:01	02/11/23 12:53	1
Method: EPA 300.0 - Anions, Ion	• •	•	е					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	69.4		4.97	mg/Kg			02/07/23 16:59	1

Surrogate Summary

Job ID: 890-4018-1 Client: Ensolum Project/Site: Baseball Cap Federal SDG: 03D2024151

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

	BFB1	
	DID!	DFBZ1
Client Sample ID	(70-130)	(70-130)
Matrix Spike	88	115
Matrix Spike Duplicate	113	97
SS05	64 S1-	92
Lab Control Sample	111	94
Lab Control Sample Dup	108	102
Method Blank	72	95
Method Blank	78	93
	Matrix Spike Matrix Spike Duplicate SS05 Lab Control Sample Lab Control Sample Dup Method Blank	Matrix Spike 88 Matrix Spike Duplicate 113 SS05 64 S1- Lab Control Sample 111 Lab Control Sample Dup 108 Method Blank 72

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Prep Type: Total/NA **Matrix: Solid**

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-4017-A-2-C MS	Matrix Spike	58 S1-	54 S1-	
890-4017-A-2-D MSD	Matrix Spike Duplicate	54 S1-	47 S1-	
890-4018-1	SS05	47 S1-	48 S1-	
LCS 880-45800/2-A	Lab Control Sample	78	79	
LCSD 880-45800/3-A	Lab Control Sample Dup	93	96	
MB 880-45800/1-A	Method Blank	67 S1-	72	
Surrogate Legend				
1CO = 1-Chlorooctane				

OTPH = o-Terphenyl

QC Sample Results

Job ID: 890-4018-1 Client: Ensolum Project/Site: Baseball Cap Federal SDG: 03D2024151

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-45957/5-A

Analysis Batch: 45954

Matrix: Solid

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 45957

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/10/23 08:55	02/10/23 11:27	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/10/23 08:55	02/10/23 11:27	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/10/23 08:55	02/10/23 11:27	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/10/23 08:55	02/10/23 11:27	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/10/23 08:55	02/10/23 11:27	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/10/23 08:55	02/10/23 11:27	1

MB MB

MR MR

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72		70 - 130	02/10/23 08:5	02/10/23 11:27	1
1,4-Difluorobenzene (Surr)	95		70 - 130	02/10/23 08:5	02/10/23 11:27	1

Lab Sample ID: MB 880-45966/5-A

Matrix: Solid

Analysis Batch: 45954

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

Prep Batch: 45966

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Benzene <0.00200 U 0.00200 mg/Kg 02/10/23 10:23 02/10/23 22:25 Toluene <0.00200 U 0.00200 mg/Kg 02/10/23 10:23 02/10/23 22:25 Ethylbenzene <0.00200 U 0.00200 02/10/23 10:23 02/10/23 22:25 mg/Kg 02/10/23 22:25 m-Xylene & p-Xylene <0.00400 U 0.00400 mg/Kg 02/10/23 10:23 02/10/23 22:25 o-Xylene <0.00200 U 0.00200 mg/Kg 02/10/23 10:23 02/10/23 10:23 Xylenes, Total <0.00400 U 0.00400 02/10/23 22:25 mg/Kg

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130	02/10/23 10:23	02/10/23 22:25	1
1,4-Difluorobenzene (Surr)	93		70 - 130	02/10/23 10:23	02/10/23 22:25	1

0.09392

0.1981

0.1039

LCCD LCCD

0.100

0.200

70 - 130

Chiles

Lab Sample ID: LCS 880-45966/1-A

Matrix: Solid

Analyte

Benzene

Toluene

Ethylbenzene

m-Xylene & p-Xylene

Analysis Batch: 45954

Client Sample ID: Lab Control Sample

70 - 130

70 - 130 70 - 130

Prep Type: Total/NA Prep Batch: 45966

Spike LCS LCS %Rec Added Result Qualifier Unit %Rec Limits 0.100 0.09252 mg/Kg 93 70 - 130 0.100 0.08882 mg/Kg 89 70 - 130

94

99

104

mg/Kg

mg/Kg

mg/Kg

o-Xylene 0.100 LCS LCS Qualifier Limits Surrogate %Recovery 4-Bromofluorobenzene (Surr) 111 70 - 130

94

Lab Sample ID: LCSD 880-45966/2-A

Matrix: Solid Analysis Batch: 45954

1,4-Difluorobenzene (Surr)

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 45966 DDD

	Spike	LCSD LCSD				70 KeC		KPD	
Analyte	Added	Result Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1118	mg/Kg		112	70 - 130	19	35	

QC Sample Results

Client: Ensolum Job ID: 890-4018-1 Project/Site: Baseball Cap Federal SDG: 03D2024151

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

Lab Sample ID: LCSD 880-45966/2-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 45954 Prep Batch: 45966 Spike LCSD LCSD %Rec **RPD** Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit D Toluene 0.100 0.1016 35 mg/Kg 102 70 - 13013 Ethylbenzene 0.100 0.1056 mg/Kg 106 70 - 130 12 35 0.200 0.2195 70 - 130 35 m-Xylene & p-Xylene mg/Kg 110 10

0.1110

mg/Kg

111

70 - 130

Client Sample ID: Matrix Spike Duplicate

7

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 45966

0.100

LCSD LCSD %Recovery Qualifier Surrogate Limits 70 - 130 4-Bromofluorobenzene (Surr) 108 1,4-Difluorobenzene (Surr) 102 70 - 130

Lab Sample ID: 880-24559-A-1-A MS Client Sample ID: Matrix Spike

Matrix: Solid

o-Xylene

Analysis Batch: 45954

	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	<0.00202	U	0.100	0.07380		mg/Kg		74	70 - 130
Toluene	<0.00202	U F1	0.100	0.06681	F1	mg/Kg		66	70 - 130
Ethylbenzene	<0.00202	U F1	0.100	0.06471	F1	mg/Kg		64	70 - 130
m-Xylene & p-Xylene	<0.00403	U F1 F2	0.201	0.1170	F1	mg/Kg		58	70 - 130
o-Xylene	<0.00202	U F1	0.100	0.06982	F1	mg/Kg		69	70 - 130

MS MS Qualifier %Recovery Limits Surrogate 70 - 130 4-Bromofluorobenzene (Surr) 88 70 - 130 1,4-Difluorobenzene (Surr) 115

Lab Sample ID: 880-24559-A-1-B MSD

Matrix: Solid

Analysis Batch: 45954									Prep	Batch:	45966
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00202	U	0.0990	0.09166		mg/Kg		93	70 - 130	22	35
Toluene	<0.00202	U F1	0.0990	0.08122		mg/Kg		82	70 - 130	19	35
Ethylbenzene	<0.00202	U F1	0.0990	0.08147		mg/Kg		82	70 - 130	23	35
m-Xylene & p-Xylene	<0.00403	U F1 F2	0.198	0.1690	F2	mg/Kg		85	70 - 130	36	35
o-Xylene	<0.00202	U F1	0.0990	0.08322		mg/Kg		83	70 - 130	18	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

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

Matrix: Solid

Lab Sample ID: MB 880-45800/1-A Client Sample ID: Method Blank Prep Type: Total/NA Analysis Batch: 46050 Prep Batch: 45800 мв мв

Result Qualifier RL Unit Prepared Gasoline Range Organics <49.9 U 49.9 mg/Kg 02/08/23 13:01 02/11/23 09:08 (GRO)-C6-C10

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35

Client: Ensolum Job ID: 890-4018-1
Project/Site: Baseball Cap Federal SDG: 03D2024151

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

Lab Sample ID: MB 880-45800/1-A

Matrix: Solid

Analysis Batch: 46050

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 45800

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/08/23 13:01	02/11/23 09:08	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/08/23 13:01	02/11/23 09:08	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	67	S1-	70 - 130			02/08/23 13:01	02/11/23 09:08	1
o-Terphenyl	72		70 - 130			02/08/23 13:01	02/11/23 09:08	1

Lab Sample ID: LCS 880-45800/2-A Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Total/NA Analysis Batch: 46050 Prep Batch: 45800 LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 998 881.9 88 70 - 130 mg/Kg (GRO)-C6-C10 998 670.6 *-Diesel Range Organics (Over mg/Kg 67 70 - 130 C10-C28) LCS LCS %Recovery Qualifier Limits Surrogate 1-Chlorooctane 70 - 130 78 o-Terphenyl 79 70 - 130

Lab Sample ID: LCSD 880-45800/3-A

Matrix: Solid

Analysis Batch: 46050

Spike

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 45800

RPD

%Rec RPD

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	840.2		mg/Kg		84	70 - 130	5	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	817.7		mg/Kg		82	70 - 130	20	20
C10-C28)									

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	93		70 - 130
o-Terphenyl	96		70 - 130

Lab Sample ID: 890-4017-A-2-C MS

Matrix: Solid

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

Analysis Batch: 46050

Sample Sample Spike MS MS %Rec

Prep Batch: 45800

%Rec

	Jampie	Janipie	Opike	IVIO	IVIO				/01 \C C	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	969.9		mg/Kg		94	70 - 130	
Diesel Range Organics (Over C10-C28)	<50.0	U *-	999	948.8		mg/Kg		92	70 - 130	
	***	***								

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	58	S1-	70 - 130
o-Terphenyl	54	S1-	70 - 130

QC Sample Results

Client: Ensolum Job ID: 890-4018-1 Project/Site: Baseball Cap Federal SDG: 03D2024151

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

Lab Sample ID: 890-4017-A-2-D MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Analysis Batch: 46050 Prep Type: Total/NA

Prep Batch: 45800

Sample Sample Spike MSD MSD RPD Result Qualifier RPD Limit Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics <50.0 U 998 808.5 mg/Kg 78 70 - 130 18 20 (GRO)-C6-C10 998 Diesel Range Organics (Over <50.0 U *-816.6 mg/Kg 79 70 - 130 15

C10-C28)

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	54	S1-	70 - 130
o-Terphenyl	47	S1-	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-45663/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 45708

мв мв

	Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
l	Chloride	<5.00 U	5.00	mg/Kg			02/07/23 14:48	1

Lab Sample ID: LCS 880-45663/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 45708

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	258.1		mg/Kg		103	90 - 110	

Lab Sample ID: LCSD 880-45663/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 45708

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	255.5		mg/Kg	_	102	90 - 110	1	20	

Lab Sample ID: 890-4013-A-11-B MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 45708

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	64.8		249	311 1		ma/Ka		99	90 110	

Lab Sample ID: 890-4013-A-11-C MSD

Matrix: Solid

Analysis Batch: 45708

Analysis Batch. 40700											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	64.8		249	309.4		ma/Ka		98	90 - 110	1	20

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Prep Type: Soluble

Client Sample ID: Matrix Spike Duplicate

QC Association Summary

Client: Ensolum Job ID: 890-4018-1
Project/Site: Baseball Cap Federal SDG: 03D2024151

GC VOA

Analysis Batch: 45954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4018-1	SS05	Total/NA	Solid	8021B	45966
MB 880-45957/5-A	Method Blank	Total/NA	Solid	8021B	45957
MB 880-45966/5-A	Method Blank	Total/NA	Solid	8021B	45966
LCS 880-45966/1-A	Lab Control Sample	Total/NA	Solid	8021B	45966
LCSD 880-45966/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	45966
880-24559-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	45966
880-24559-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	45966

Prep Batch: 45957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-45957/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 45966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4018-1	SS05	Total/NA	Solid	5035	
MB 880-45966/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-45966/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-45966/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-24559-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-24559-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 46234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4018-1	SS05	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 45800

Lab Sample ID 890-4018-1	Client Sample ID SS05	Prep Type Total/NA	Matrix Solid	Method 8015NM Prep	Prep Batch
MB 880-45800/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-45800/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-45800/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4017-A-2-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4017-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 46050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4018-1	SS05	Total/NA	Solid	8015B NM	45800
MB 880-45800/1-A	Method Blank	Total/NA	Solid	8015B NM	45800
LCS 880-45800/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	45800
LCSD 880-45800/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	45800
890-4017-A-2-C MS	Matrix Spike	Total/NA	Solid	8015B NM	45800
890-4017-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	45800

Analysis Batch: 46161

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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4018-1	SS05	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Ensolum
Project/Site: Baseball Cap Federal
Job ID: 890-4018-1
SDG: 03D2024151

HPLC/IC

Leach Batch: 45663

Lab Sample ID 890-4018-1	Client Sample ID SS05	Prep Type Soluble	Matrix Solid	Method DI Leach	Prep Batch
MB 880-45663/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-45663/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-45663/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4013-A-11-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-4013-A-11-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 45708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4018-1	SS05	Soluble	Solid	300.0	45663
MB 880-45663/1-A	Method Blank	Soluble	Solid	300.0	45663
LCS 880-45663/2-A	Lab Control Sample	Soluble	Solid	300.0	45663
LCSD 880-45663/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	45663
890-4013-A-11-B MS	Matrix Spike	Soluble	Solid	300.0	45663
890-4013-A-11-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	45663

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Lab Chronicle

Client: Ensolum Job ID: 890-4018-1 Project/Site: Baseball Cap Federal SDG: 03D2024151

Client Sample ID: SS05 Lab Sample ID: 890-4018-1 Date Collected: 02/02/23 10:35

Matrix: Solid

Date Received: 02/03/23 08:33

	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	45966	02/10/23 10:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45954	02/11/23 04:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46234	02/13/23 19:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			46161	02/13/23 14:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	45800	02/08/23 13:01	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46050	02/11/23 12:53	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	45663	02/07/23 09:26	KS	EET MID
Soluble	Analysis	300.0		1			45708	02/07/23 16:59	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-4018-1 Project/Site: Baseball Cap Federal SDG: 03D2024151

Laboratory: Eurofins Midland

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

Authority	Pr	ogram	Identification Number	Expiration Date
Texas		ELAP	T104704400-22-25	06-30-23
The following analytes the agency does not of	• •	ut the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes for whic
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	

Method Summary

Client: Ensolum Job ID: 890-4018-1
Project/Site: Baseball Cap Federal SDG: 03D2024151

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

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Sample Summary

Client: Ensolum

Project/Site: Baseball Cap Federal

Job ID: 890-4018-1

SDG: 03D2024151

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4018-1	SS05	Solid	02/02/23 10:35	02/03/23 08:33	0.2

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Environment Testing Xenco

Chain of Custody

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

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												www.xenco.c	com Page \ of \		
Project Manager:	Josh Adams				Bill to: (if	different)	Kalei Jennings				Work Ord	ler Comments		
Company Name:	Ensolum, LLC	*			Compan	y Name	:	Ensol	um, LL	С		Program: UST/PST PRP Brownfields RRC Superfund			
Address:	601 N Marienf		uite 400		Address			601 N Marienfeld St Suite 400				State of Project:			
City, State ZIP:	Midland, TX 79	9701			City, Sta	te ZIP:		Midlar	nd, TX	79701			PST/UST TRRP Level IV		
Phone:	303-517-8438			Email	: kjenning	gs@en	solum	.com,	jadam	s@ens	lum.com	Deliverables: EDD A	DaPT Other:		
Project Name:	Baseball	Can Fe	deral	Tur	n Around						ANALYSIS R	EQUEST	Preservative Codes		
Project Number:		202415		☑ Routine	Rush		Pres.						None: NO DI Water: H ₂ O		
Project Location:				Due Date:			Code						Cool: Cool MeOH: Me		
Sampler's Name:	ampler's Name: Julianna Falcomata O #: AMPLE RECEIPT Temp Blank: Yes No			TAT starts th	ne day rece	received by							HCL: HC HNO ₃ : HN		
PO#:			the lab, if re	ceived by 4	1:30pm	7 8				H₂S0₄: H₂ NaOH: Na					
SAMPLE RECE			YES No	Wet Ice:	Yes	No	Parameters	0			110110111111111111111111111111111111111	10000 000 000 000 000 100 000	H₃PO₄: HP		
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Cooler Custody Sea	ls: Yes No	/	Correction	Factor:	-D.	1	4	PA							
Sample Custody Sea	als: Yes No	AMA C		re Reading:	3.	10		S.		-		II ANDRA GLORI DONA NADA KANTADA	Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC		
Total Containers:			Corrected	Temperature:	3.	4		<u> </u>	015	(802	890-4018 Chair	of Custody	NaOH-ASCOIDIC ACId. SAF C		
Sample Ide	ntification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp		CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021			Sample Comments		
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				8RCRA 13			L								

TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U Circle Method(s) and Metal(s) to be analyzed Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Vallamata	Anguastut	2323 083	3		
3 / (1111)			4		
5'			6		
	J.,				Revised Date: 08/25/2020 Rev. 2020.

Login Sample Receipt Checklist

 Client: Ensolum
 Job Number: 890-4018-1

 SDG Number: 03D2024151

Login Number: 4018 List Source: Eurofins Carlsbad

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	

(c) / 0j 100

3

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13

14

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4018-1 SDG Number: 03D2024151

List Source: Eurofins Midland

List Number: 2 Creator: Rodriguez, Leticia

Login Number: 4018

List Creation: 02/06/23 08:40 AM

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

ANALYTICAL REPORT

PREPARED FOR

Attn: Josh Adams Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701

Generated 2/14/2023 10:46:21 AM Revision 1

JOB DESCRIPTION

Baseball Cap Federal SDG NUMBER 03D2024151

JOB NUMBER

890-4019-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

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

Generated 2/14/2023 10:46:21 AM

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

Revision 1

Client: Ensolum

Project/Site: Baseball Cap Federal

Laboratory Job ID: 890-4019-1

SDG: 03D2024151

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Definitions/Glossary

Client: Ensolum Job ID: 890-4019-1 Project/Site: Baseball Cap Federal

SDG: 03D2024151

Qualifiers

GC VOA Qualifier

F1 MS and/or MSD recovery exceeds control limits.

MS/MSD RPD exceeds control limits F2

Qualifier Description

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

LCS and/or LCSD is outside acceptance limits, low biased. S1-Surrogate recovery exceeds control limits, low biased. Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

U Indicates the analyte was analyzed for but not detected.

Glossary

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

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

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

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)

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

MDL Method Detection Limit MI 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

Practical Quantitation Limit PQL

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Project/Site: Baseball Cap Federal

Job ID: 890-4019-1

SDG: 03D2024151

Job ID: 890-4019-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4019-1

REVISION

The report being provided is a revision of the original report sent on 2/13/2023. The report (revision 1) is being revised due to Per client email, correcting sample depth to 0.2'.

Report revision history

Receipt

The sample was received on 2/3/2023 8:32 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.4°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: SS06 (890-4019-1).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-24559-A-1-C). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-45966 and analytical batch 880-45954 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

GC Semi VOA

Method 8015MOD NM: The surrogate recovery for the blank associated with preparation batch 880-45800 and analytical batch 880-46050 was outside the control limits.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: SS06 (890-4019-1), (890-4017-A-2-B), (890-4017-A-2-C MS) and (890-4017-A-2-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: The laboratory control sample (LCS) associated with preparation batch 880-45800 and analytical batch 880-46050 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

HPLC/IC

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

Eurofins Carlsbad 2/14/2023 (Rev. 1)

Matrix: Solid

Lab Sample ID: 890-4019-1

Client Sample Results

Client: Ensolum Job ID: 890-4019-1 Project/Site: Baseball Cap Federal SDG: 03D2024151

Client Sample ID: SS06

Date Collected: 02/02/23 10:40 Date Received: 02/03/23 08:32

Sample Depth: 0.2'

Analyte

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/10/23 10:23	02/11/23 04:36	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/10/23 10:23	02/11/23 04:36	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/10/23 10:23	02/11/23 04:36	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		02/10/23 10:23	02/11/23 04:36	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/10/23 10:23	02/11/23 04:36	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		02/10/23 10:23	02/11/23 04:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130			02/10/23 10:23	02/11/23 04:36	1
1,4-Difluorobenzene (Surr)	88		70 - 130			02/10/23 10:23	02/11/23 04:36	1
Method: TAL SOP Total BTEX	- Total BTE	X Calculat	ion					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			02/13/23 19:09	1
Method: SW846 8015 NM - Die	esel Range (Organics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			02/13/23 14:26	1
Method: SW846 8015B NM - D	iesel Range	Organics	(DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/08/23 13:01	02/11/23 13:15	1
Diesel Range Organics (Over C10-C28)	<49.9	U *-	49.9	mg/Kg		02/08/23 13:01	02/11/23 13:15	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/08/23 13:01	02/11/23 13:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Surrogate 1-Chlorooctane	%Recovery 53	Qualifier S1-	70 - 130			Prepared 02/08/23 13:01	Analyzed 02/11/23 13:15	Dil Fac

RL

4.95

Unit

mg/Kg

D

Prepared

Eurofins Carlsbad

Dil Fac

Analyzed 02/08/23 14:08

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier

7.27

Surrogate Summary

Client: Ensolum Job ID: 890-4019-1 Project/Site: Baseball Cap Federal SDG: 03D2024151

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

			Percent S	Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-24559-A-1-A MS	Matrix Spike	88	115	
880-24559-A-1-B MSD	Matrix Spike Duplicate	113	97	
890-4019-1	SS06	86	88	
LCS 880-45966/1-A	Lab Control Sample	111	94	
LCSD 880-45966/2-A	Lab Control Sample Dup	108	102	
MB 880-45957/5-A	Method Blank	72	95	
MB 880-45966/5-A	Method Blank	78	93	

BFB = 4-Bromofluorobenzene (Surr) DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

<u> </u>	ient Sample ID atrix Spike	(70-130)	OTPH1 (70-130)		
<u> </u>	•	_ `	(70-130)		
890-4017-A-2-C MS Ma	atrix Snike				
	atrix opine	58 S1-	54 S1-	 	
890-4017-A-2-D MSD Ma	atrix Spike Duplicate	54 S1-	47 S1-		
890-4019-1 SS	306	53 S1-	54 S1-		
LCS 880-45800/2-A La	b Control Sample	78	79		
LCSD 880-45800/3-A La	ab Control Sample Dup	93	96		
MB 880-45800/1-A Me	ethod Blank	67 S1-	72		

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Job ID: 890-4019-1 Client: Ensolum Project/Site: Baseball Cap Federal SDG: 03D2024151

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-45957/5-A

Matrix: Solid

Analysis Batch: 45954

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 45957

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/10/23 08:55	02/10/23 11:27	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/10/23 08:55	02/10/23 11:27	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/10/23 08:55	02/10/23 11:27	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/10/23 08:55	02/10/23 11:27	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/10/23 08:55	02/10/23 11:27	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/10/23 08:55	02/10/23 11:27	1

MB MB

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	72	70 - 130
1,4-Difluorobenzene (Surr)	95	70 - 130

02/10/23 08:55 02/10/23 11:27 02/10/23 08:55 02/10/23 11:27

Prepared

Client Sample ID: Method Blank

Analyzed

Prep Type: Total/NA Prep Batch: 45966

Matrix: Solid **Analysis Batch: 45954**

Lab Sample ID: MB 880-45966/5-A

	MB I	MB						
Analyte	Result (Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200 U	U	0.00200	mg/Kg		02/10/23 10:23	02/10/23 22:25	1
Toluene	<0.00200 l	U	0.00200	mg/Kg		02/10/23 10:23	02/10/23 22:25	1
Ethylbenzene	<0.00200 l	U	0.00200	mg/Kg		02/10/23 10:23	02/10/23 22:25	1
m-Xylene & p-Xylene	<0.00400 U	U	0.00400	mg/Kg		02/10/23 10:23	02/10/23 22:25	1
o-Xylene	<0.00200 l	U	0.00200	mg/Kg		02/10/23 10:23	02/10/23 22:25	1
Xylenes, Total	<0.00400 l	U	0.00400	mg/Kg		02/10/23 10:23	02/10/23 22:25	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130	02/10/23 10:23 02/10/23 22:25	1
1,4-Difluorobenzene (Surr)	93		70 - 130	02/10/23 10:23 02/10/23 22:25	1

Lab Sample ID: LCS 880-45966/1-A

Matrix: Solid

Analysis Batch: 45954

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

Client Sample ID: Lab Control Sample Dup

Prep Batch: 45966

Spike	LCS	LCS				%Rec	
Added	Result	Qualifier	Unit	D	%Rec	Limits	
0.100	0.09252		mg/Kg	_	93	70 - 130	
0.100	0.08882		mg/Kg		89	70 - 130	
0.100	0.09392		mg/Kg		94	70 - 130	
0.200	0.1981		mg/Kg		99	70 - 130	
0.100	0.1039		mg/Kg		104	70 - 130	
	0.100 0.100 0.100 0.100 0.200	Added Result 0.100 0.09252 0.100 0.08882 0.100 0.09392 0.200 0.1981	Added Result Qualifier 0.100 0.09252 0.100 0.08882 0.100 0.09392 0.200 0.1981	Added Result Qualifier Unit 0.100 0.09252 mg/Kg 0.100 0.08882 mg/Kg 0.100 0.09392 mg/Kg 0.200 0.1981 mg/Kg	Added Result Qualifier Unit D 0.100 0.09252 mg/Kg 0.100 0.08882 mg/Kg 0.100 0.09392 mg/Kg 0.200 0.1981 mg/Kg	Added Result Qualifier Unit D %Rec 0.100 0.09252 mg/Kg 93 0.100 0.08882 mg/Kg 89 0.100 0.09392 mg/Kg 94 0.200 0.1981 mg/Kg 99	Added Result Qualifier Unit D %Rec Limits 0.100 0.09252 mg/Kg 93 70 - 130 0.100 0.08882 mg/Kg 89 70 - 130 0.100 0.09392 mg/Kg 94 70 - 130 0.200 0.1981 mg/Kg 99 70 - 130

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	111	70 - 130
1,4-Difluorobenzene (Surr)	94	70 - 130

Lab Sample ID: LCSD 880-45966/2-A

V

	Matrix: Solid Analysis Batch: 45954							Prep Ty Prep E	•	
		Spike	LCSD	LCSD				%Rec		RPD
1	Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Ī	Benzene	 0.100	0.1118		mg/Kg		112	70 - 130	19	35

Eurofins Carlsbad

Dil Fac

Client: Ensolum Job ID: 890-4019-1 Project/Site: Baseball Cap Federal SDG: 03D2024151

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

Lab Sample ID: LCSD 880-45966/2-A

Matrix: Solid

Analysis Batch: 45954

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 45966

LCSD LCSD Spike %Rec **RPD** Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit Toluene 0.100 0.1016 mg/Kg 102 70 - 130 13 35 0.100 Ethylbenzene 0.1056 mg/Kg 106 70 - 130 12 35 m-Xylene & p-Xylene 0.200 0.2195 mg/Kg 70 - 130 10 35 110 0.100 35 o-Xylene 0.1110 mg/Kg 111 70 - 130 7

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 880-24559-A-1-A MS

Matrix: Solid

Analysis Batch: 45954

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 45966

-	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00202	U	0.100	0.07380		mg/Kg		74	70 - 130	
Toluene	<0.00202	U F1	0.100	0.06681	F1	mg/Kg		66	70 - 130	
Ethylbenzene	<0.00202	U F1	0.100	0.06471	F1	mg/Kg		64	70 - 130	
m-Xylene & p-Xylene	<0.00403	U F1 F2	0.201	0.1170	F1	mg/Kg		58	70 - 130	
o-Xylene	<0.00202	U F1	0.100	0.06982	F1	mg/Kg		69	70 - 130	

MS MS

Surrogate	%Recovery Qualitier	Limits
4-Bromofluorobenzene (Surr)	88	70 - 130
1,4-Difluorobenzene (Surr)	115	70 - 130

Lab Sample ID: 880-24559-A-1-B MSD

Matrix: Solid

Analysis Batch: 45954

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 45966

Tillary Cic Datolli 1000 !											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00202	U	0.0990	0.09166		mg/Kg		93	70 - 130	22	35
Toluene	<0.00202	U F1	0.0990	0.08122		mg/Kg		82	70 - 130	19	35
Ethylbenzene	<0.00202	U F1	0.0990	0.08147		mg/Kg		82	70 - 130	23	35
m-Xylene & p-Xylene	<0.00403	U F1 F2	0.198	0.1690	F2	mg/Kg		85	70 - 130	36	35
o-Xylene	<0.00202	U F1	0.0990	0.08322		mg/Kg		83	70 - 130	18	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

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

Lab Sample ID: MB 880-45800/1-A

Matrix: Solid

Analysis Batch: 46050

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

Prep Batch: 45800

MB MB Result Qualifier RL Unit Analyte Prepared Analyzed Gasoline Range Organics <49.9 U 49.9 mg/Kg 02/08/23 13:01 02/11/23 09:08

(GRO)-C6-C10

QC Sample Results

Client: Ensolum Job ID: 890-4019-1
Project/Site: Baseball Cap Federal SDG: 03D2024151

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

Lab Sample ID: MB 880-45800/1-A
Matrix: Solid
Analysis Batch: 46050

MR MR

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 45800

•	MB	MB					•	
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/08/23 13:01	02/11/23 09:08	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/08/23 13:01	02/11/23 09:08	1
	MB	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	67	S1-	70 - 130			02/08/23 13:01	02/11/23 09:08	1

o-Terphenyl 72 70 - 130 02/08/23 13:01 02/11/23 09:08 Lab Sample ID: LCS 880-45800/2-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 46050** Prep Batch: 45800 LCS LCS Spike %Rec Added Result Qualifier Limits Analyte Unit %Rec Gasoline Range Organics 998 881.9 mg/Kg 88 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 998 670.6 *mg/Kg 67 70 - 130 C10-C28) LCS LCS Surrogate Qualifier Limits %Recovery 70 - 130 1-Chlorooctane 78 79 70 - 130 o-Terphenyl ah Sample ID: I CSD 880-45800/3-A Client Sample ID: Lab Control Sample Dun

Lab Sample ID: LCSD 000-45000/3-A	Sample ID: LCSD 660-45600/3-A				Client Sample ID: Lab Control Sample Dup								
Matrix: Solid	rix: Solid						Prep Ty	pe: Tot	al/NA				
Analysis Batch: 46050							Prep E	atch: 4	45800				
-	Spike	LCSD	LCSD				%Rec		RPD				
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit				
Gasoline Range Organics (GRO)-C6-C10	1000	840.2		mg/Kg		84	70 - 130	5	20				
Diesel Range Organics (Over C10-C28)	1000	817.7		mg/Kg		82	70 - 130	20	20				
ICSD ICSD													

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	93		70 - 130
o-Terphenyl	96		70 - 130

Lab Sample ID: 890-4017-A-2-C MS **Client Sample ID: Matrix Spike Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 46050** Prep Batch: 45800 Spike MS MS %Rec Sample Sample **Analyte** Result Qualifier Added Result Qualifier Unit %Rec Limits <50.0 U Gasoline Range Organics 999 969.9 94 70 - 130 mg/Kg (GRO)-C6-C10 <50.0 U *-999 948.8 mg/Kg 92 70 - 130 Diesel Range Organics (Over C10-C28) MS MS %Recovery Qualifier Limits Surrogate 1-Chlorooctane 58 S1-70 - 130 o-Terphenyl 54 S1-70 - 130

Eurofins Carlsbad

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Client: Ensolum Job ID: 890-4019-1 Project/Site: Baseball Cap Federal SDG: 03D2024151

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

Lab Sample ID: 890-4017-A-2-D MSD **Client Sample ID: Matrix Spike Duplicate**

Matrix: Solid

Prep Type: Total/NA Prep Batch: 45800

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Client Sample ID: Matrix Spike

Analysis Batch: 46050 Sample Sample Spike MSD MSD %Rec **RPD** Result Qualifier Result Qualifier Added %Rec Limits RPD Limit Analyte Unit D 998 Gasoline Range Organics <50.0 U 808.5 mg/Kg 78 70 - 130 18 20 (GRO)-C6-C10 998 816.6 79 Diesel Range Organics (Over <50 0 U*mg/Kg 70 - 13015 20

C10-C28)

Surrogate

1-Chlorooctane

MSD MSD %Recovery Qualifier Limits 54 S1-70 - 130

70 - 130 o-Terphenyl 47 S1-

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-45663/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 45708

MB MB Result Qualifier RL Unit Analyte Prepared Analyzed Dil Fac

5.00 Chloride <5.00 U mg/Kg 02/07/23 14:48

Lab Sample ID: LCS 880-45663/2-A

Matrix: Solid

Analysis Batch: 45708

Spike LCS LCS %Rec Analyte Added Result Qualifier Limits Unit D %Rec Chloride 250 258.1 103 90 - 110 mg/Kg

Lab Sample ID: LCSD 880-45663/3-A

Matrix: Solid

Analysis Batch: 45708

LCSD LCSD RPD Spike %Rec **Analyte** Added Result Qualifier Unit D %Rec Limits RPD Limit Chloride 250 255.5 102 90 - 110 mg/Kg

Lab Sample ID: 890-4013-A-11-B MS

Matrix: Solid

Analysis Batch: 45708

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 90 - 110 Chloride 64.8 249 mg/Kg 311.1

Lab Sample ID: 890-4013-A-11-C MSD

Matrix: Solid

Analysis Batch: 45708

MSD MSD %Rec **RPD** Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit 249 64.8 309.4 98 90 - 110 Chloride mg/Kg

Job ID: 890-4019-1 Client: Ensolum Project/Site: Baseball Cap Federal SDG: 03D2024151

GC VOA

Analysis Batch: 45954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4019-1	SS06	Total/NA	Solid	8021B	45966
MB 880-45957/5-A	Method Blank	Total/NA	Solid	8021B	45957
MB 880-45966/5-A	Method Blank	Total/NA	Solid	8021B	45966
LCS 880-45966/1-A	Lab Control Sample	Total/NA	Solid	8021B	45966
LCSD 880-45966/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	45966
880-24559-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	45966
880-24559-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	45966

Prep Batch: 45957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-45957/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 45966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4019-1	SS06	Total/NA	Solid	5035	
MB 880-45966/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-45966/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-45966/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-24559-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-24559-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 46235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4019-1	SS06	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 45800

Lab Sample ID 890-4019-1	Client Sample ID SS06	Prep Type Total/NA	Matrix Solid	Method Prep Bate 8015NM Prep
MB 880-45800/1-A	Method Blank	Total/NA	Solid	8015NM Prep
LCS 880-45800/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep
LCSD 880-45800/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep
890-4017-A-2-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep
890-4017-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep

Analysis Batch: 46050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4019-1	SS06	Total/NA	Solid	8015B NM	45800
MB 880-45800/1-A	Method Blank	Total/NA	Solid	8015B NM	45800
LCS 880-45800/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	45800
LCSD 880-45800/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	45800
890-4017-A-2-C MS	Matrix Spike	Total/NA	Solid	8015B NM	45800
890-4017-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	45800

Analysis Batch: 46162

Released to Imaging: 7/20/2023 9:30:56 AM

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4019-1	SS06	Total/NA	Solid	8015 NM	

Client: Ensolum
Project/Site: Baseball Cap Federal
SDG:

Job ID: 890-4019-1 SDG: 03D2024151

HPLC/IC

Leach Batch: 45663

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4019-1	SS06	Soluble	Solid	DI Leach	
MB 880-45663/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-45663/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-45663/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4013-A-11-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-4013-A-11-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 45708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4019-1	SS06	Soluble	Solid	300.0	45663
MB 880-45663/1-A	Method Blank	Soluble	Solid	300.0	45663
LCS 880-45663/2-A	Lab Control Sample	Soluble	Solid	300.0	45663
LCSD 880-45663/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	45663
890-4013-A-11-B MS	Matrix Spike	Soluble	Solid	300.0	45663
890-4013-A-11-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	45663

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Lab Chronicle

Client: Ensolum Job ID: 890-4019-1 Project/Site: Baseball Cap Federal SDG: 03D2024151

Client Sample ID: SS06

Lab Sample ID: 890-4019-1

Matrix: Solid

Date Collected: 02/02/23 10:40 Date Received: 02/03/23 08:32

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	45966	02/10/23 10:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45954	02/11/23 04:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46235	02/13/23 19:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			46162	02/13/23 14:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	45800	02/08/23 13:01	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46050	02/11/23 13:15	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	45663	02/07/23 09:26	KS	EET MID
Soluble	Analysis	300.0		1			45708	02/08/23 14:08	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-4019-1
Project/Site: Baseball Cap Federal SDG: 03D2024151

Laboratory: Eurofins Midland

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

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-22-25	06-30-23
The following englyte	o are included in this ren	art but the laboratory is r		This list was closely do a such that for
	•	ort, but the laboratory is r	not certified by the governing authority.	This list may include analytes for
the agency does not o	offer certification.	•	, , ,	This list may include analytes for
	•	Matrix	Analyte	I his list may include analytes for
the agency does not o	offer certification.	•	, , ,	This list may include analytes for

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Method Summary

Client: Ensolum

Project/Site: Baseball Cap Federal

Job ID: 890-4019-1

SDG: 03D2024151

lethod	Method Description	Protocol	Laboratory
021B	Volatile Organic Compounds (GC)	SW846	EET MID
otal BTEX	Total BTEX Calculation	TAL SOP	EET MID
015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
00.0	Anions, Ion Chromatography	EPA	EET MID
035	Closed System Purge and Trap	SW846	EET MID
015NM Prep	Microextraction	SW846	EET MID
I Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum

Project/Site: Baseball Cap Federal

Job ID: 890-4019-1

SDG: 03D2024151

Lab Sample ID Client Sample ID Collected Matrix Received Depth 890-4019-1 SS06 Solid 02/02/23 10:40 02/03/23 08:32 0.2'

Received by OCD: 4/24/2023 11:28:10 AM

Environment Testing Xenco

Chain of Custody

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

Work Order	No:		
	_		

www.xenco.com

Page

Project Manager:	Josh Ada	lams				Bill to: (if	different		Kalei .	lennin	gs							W	ork Or	rder C	Comments	
Company Name:	Ensolum	n, LLC		7		Compan	y Name		Ensolu	ım, LL	С					Program	: UST/P	ST 🗌 I	PRP 🗌 l	Brow	nfields 🗌 RRC	Superfund 🗌
Address:	601 N M	arienfeld	St St	uite 400		Address			601 N	but in Marietineid St Suite 400			State of Project:									
City, State ZIP:	Midland,	, TX 7970)1			City, Sta	te ZIP:		Midlar	d, TX	79701					Reportin	g: Level	II 🗌 Le	vel III] PS1	T/UST 🗌 TRR	P Level IV
Phone:	303-517	'-8438			Email:	kjenning	rs@ens	solum	.com,	jadan	ns@er	isolum.	com			Deliveral	les: ED	D 🗆		ADaP	T ☐ Othe	er:
Project Name:	Ba	aseball Ca	an Fe	deral	Turn	Around							AN	ALYSIS	REQ	UEST					Preserv	ative Codes
Project Number:	1	03D20	-		☑ Routine	Rush		Pres.							Π						None: NO	DI Water: H ₂ O
Project Location:	3	2.1839, -			Due Date:			Code													Cool: Cool	MeOH: Me
Sampler's Name: PO #:		ulianna F			TAT starts the			و											1		HCL: HC H₂S0₄: H₂	HNO₃: HN NaOH: Na
SAMPLE RECE	IPT ·	Temp Blan	nk:	Yes No	Wet Ice:	Yes	No	nete	6				11111								H₃PO₄: HP	
Samples Received I	ntact:	(es N	0	Thermometer	er ID:	TAM		arar	300								Manni				NaHSO ₄ : NAB	
Cooler Custody Sea			1 1	Correction F			.2	0	EPA												Na ₂ S ₂ O ₃ : NaS Zn Acetate+Na	
Sample Custody Se	als: Ye	es No	_	Temperature			3,4	1	ES (I		17		890	-4019 CI	hain of	Custody				,		oic Acid: SAPC
Total Containers:				Corrected T					RID	801	(8021		1	1	1		1	1				
Sample Ide	ntification	ı M	latrix	Date Sampled	Time Sampled	Depth	Grab/ Comp		CHLORIDES (EPA: 300.0)	т <u>р</u> н (8015)	BTEX										Sample	Comments
500		4	5	2/2/23	1040	1040	C	-	V	V	V										nAPP27	17836904
Total 200.7 / 6 Circle Method(s) a		00.8 / 602			RCRA 13F													K Se	Ag Si	O ₂ No	l a Sr TI Sn U 245.1 / 7470	J V Zn /7471

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

Refinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 VALLEMA &	Dua Sh Stut	2-3-23 753	3		
3 2000 11000			4		
5			6		Revised Date: 08/25/2020 Rev. 2020 2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4019-1

SDG Number: 03D2024151

Login Number: 4019 List Source: Eurofins Carlsbad

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	

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Login Sample Receipt Checklist

 Client: Ensolum
 Job Number: 890-4019-1

 SDG Number: 03D2024151

Login Number: 4019
List Source: Eurofins Midland
List Number: 2
List Creation: 02/06/23 08:40 AM

Creator: Rodriguez, Leticia

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

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<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green Ensolum 601 N. Marienfeld St.

Suite 400 Midland, Texas 79701

Generated 3/19/2023 5:18:57 PM

JOB DESCRIPTION

Baseball Cap 25 M CTB SDG NUMBER 03D2024151

JOB NUMBER

890-4248-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

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

Generated 3/19/2023 5:18:57 PM

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

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

Released to Imaging: 7/20/2023 9:30:56 AM

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Client: Ensolum
Project/Site: Baseball Cap 25 M CTB
Laboratory Job ID: 890-4248-1
SDG: 03D2024151

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QC Sample Results
QC Association Summary
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Certification Summary
Method Summary
Sample Summary
Chain of Custody
Receipt Checklists

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Definitions/Glossary

Job ID: 890-4248-1 Client: Ensolum Project/Site: Baseball Cap 25 M CTB

SDG: 03D2024151

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

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

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

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

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

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

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

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

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

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Project/Site: Baseball Cap 25 M CTB

Job ID: 890-4248-1

SDG: 03D2024151

Job ID: 890-4248-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4248-1

Receipt

The samples were received on 3/7/2023 3:13 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 4.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS02A (890-4248-1), SS07 (890-4248-2), SS07A (890-4248-3) and SS01A (890-4248-4).

GC VOA

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 method blank for preparation batch 880-48322 and analytical batch 880-48386 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.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-48252 and analytical batch 880-48274 was outside the upper control limits.

Method 8015MOD_NM: The method blank for preparation batch 880-48252 and analytical batch 880-48274 contained OII Range Organics (Over C28-C36) 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.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-48252 and analytical batch 880-48274 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-48204 and analytical batch 880-48263 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

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Client: Ensolum Job ID: 890-4248-1
Project/Site: Baseball Cap 25 M CTB SDG: 03D2024151

Client Sample ID: SS02A

Date Collected: 03/07/23 09:30

Lab Sample ID: 890-4248-1

Matrix: Solid

Date Collected: 03/07/23 09:30
Date Received: 03/07/23 15:13

Sample Depth: 1'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		03/16/23 10:29	03/17/23 17:05	1
Toluene	< 0.00201	U	0.00201	mg/Kg		03/16/23 10:29	03/17/23 17:05	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		03/16/23 10:29	03/17/23 17:05	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		03/16/23 10:29	03/17/23 17:05	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		03/16/23 10:29	03/17/23 17:05	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		03/16/23 10:29	03/17/23 17:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130			03/16/23 10:29	03/17/23 17:05	1
1,4-Difluorobenzene (Surr)	86		70 - 130			03/16/23 10:29	03/17/23 17:05	1
- Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			03/19/23 17:50	1
Method: SW846 8015 NM - Diese	al Banga Organ	ios (DBO) (CC)					
Analyte		Qualifier	RL	Unit	D	Prepared		
			IVE.	UIIIL	U	riepaieu	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			03/13/23 16:48	Dil Fac
- -			50.0					
- -	sel Range Orga		50.0			Prepared		1
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	sel Range Orga	nics (DRO) Qualifier	50.0 (GC)	mg/Kg			03/13/23 16:48	1
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	sel Range Orga Result	nics (DRO) Qualifier	50.0 (GC)	mg/Kg		Prepared	03/13/23 16:48 Analyzed	1 Dil Fac
Thethod: SW846 8015B NM - Dies	sel Range Orga Result <50.0	nics (DRO) Qualifier U	50.0 (GC) RL 50.0	mg/Kg Unit mg/Kg		Prepared 03/10/23 13:27	03/13/23 16:48 Analyzed 03/11/23 14:34	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	sel Range Orga Result <50.0	nics (DRO) Qualifier U	50.0 (GC) RL 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/10/23 13:27 03/10/23 13:27	03/13/23 16:48 Analyzed 03/11/23 14:34 03/11/23 14:34	1 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 <50.0 <50.0 <50.0	nics (DRO) Qualifier U	50.0 (GC) RL 50.0 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/10/23 13:27 03/10/23 13:27 03/10/23 13:27	03/13/23 16:48 Analyzed 03/11/23 14:34 03/11/23 14:34	Dil Fac 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	Sel Range Orga Result <50.0 <50.0 <50.0 %Recovery	nics (DRO) Qualifier U	50.0 (GC) RL 50.0 50.0 50.0 <i>Limits</i>	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/10/23 13:27 03/10/23 13:27 03/10/23 13:27 Prepared	03/13/23 16:48 Analyzed 03/11/23 14:34 03/11/23 14:34 Analyzed	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	sel Range Orga Result <50.0	nics (DRO) Qualifier U U Qualifier	50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/10/23 13:27 03/10/23 13:27 03/10/23 13:27 Prepared 03/10/23 13:27	03/13/23 16:48 Analyzed 03/11/23 14:34 03/11/23 14:34 Analyzed 03/11/23 14:34	Dil Fac 1 1 Dil Fac Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	sel Range Orga Result <50.0	nics (DRO) Qualifier U U Qualifier	50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/10/23 13:27 03/10/23 13:27 03/10/23 13:27 Prepared 03/10/23 13:27	03/13/23 16:48 Analyzed 03/11/23 14:34 03/11/23 14:34 Analyzed 03/11/23 14:34	1 Dil Fac 1 1 1 1 Dil Fac 1

Client Sample ID: SS07 Lab Sample ID: 890-4248-2

Date Collected: 03/07/23 09:50 Date Received: 03/07/23 15:13

Sample Depth: 1'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/16/23 10:29	03/17/23 17:25	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/16/23 10:29	03/17/23 17:25	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/16/23 10:29	03/17/23 17:25	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		03/16/23 10:29	03/17/23 17:25	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/16/23 10:29	03/17/23 17:25	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		03/16/23 10:29	03/17/23 17:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130			03/16/23 10:29	03/17/23 17:25	1

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Matrix: Solid

Client: Ensolum

Job ID: 890-4248-1 Project/Site: Baseball Cap 25 M CTB SDG: 03D2024151

Client Sample ID: SS07 Lab Sample ID: 890-4248-2 Matrix: Solid

Date Collected: 03/07/23 09:50 Date Received: 03/07/23 15:13

Sample Depth: 1'

Method: SW846 8021B	- Volatile Organic	Compounds (GC)	(Continued)
moundar official course	Tolumo Organio	oompounae (,	(Continuou,

Surrogate	%Recovery Qualify	ier Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	74	70 _ 130	03/16/23 10:29	03/17/23 17:25	1

Method: TAL SOP Total BTEX - Total BTE	X Calculation

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401 U	0.00401	ma/Ka			03/19/23 17:50	1

Mathada CMO4C CO4E NM Disaal Dawns Comenica (DDC) (C	~ \
Method: SW846 8015 NM - Diesel Range Organics (DRO) (G	

Analyte	Result C	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	93.6		50.0	mg/Kg			03/13/23 16:53	1

	Mothod: SW046 904ED NM Diocol Dan	go Organico (DBO) (CC)	v
ı	Method: SW846 8015B NM - Diesel Ran	ge Organics (DRO) (GC)	,

Analyte	Result (Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0 U	J	50.0	mg/Kg		03/09/23 15:59	03/10/23 17:35	1
(GRO)-C6-C10 Diesel Range Organics (Over	93.6		50.0	mg/Kg		03/09/23 15:59	03/10/23 17:35	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0 €	J	50.0	mg/Kg		03/09/23 15:59	03/10/23 17:35	1
	a. =							

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87	70 - 130	03/09/23 15:59	03/10/23 17:35	1
o-Terphenyl	98	70 - 130	03/09/23 15:59	03/10/23 17:35	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	63.2		4.98	mg/Kg			03/10/23 00:11	1

Client Sample ID: SS07A Lab Sample ID: 890-4248-3

Date Collected: 03/07/23 10:00 Date Received: 03/07/23 15:13

Sample Depth: 1'

			,					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		03/16/23 10:29	03/17/23 17:46	1
Toluene	<0.00198	U	0.00198	mg/Kg		03/16/23 10:29	03/17/23 17:46	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		03/16/23 10:29	03/17/23 17:46	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		03/16/23 10:29	03/17/23 17:46	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		03/16/23 10:29	03/17/23 17:46	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		03/16/23 10:29	03/17/23 17:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130			03/16/23 10:29	03/17/23 17:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzea	DII Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	03/16/23 10:29	03/17/23 17:46	1
1,4-Difluorobenzene (Surr)	76		70 - 130	03/16/23 10:29	03/17/23 17:46	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00396	U	0.00396	mg/Kg			03/19/23 17:50	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			03/13/23 16:53	1

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Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-4248-3

Job ID: 890-4248-1

Client: Ensolum Project/Site: Baseball Cap 25 M CTB SDG: 03D2024151

Client Sample ID: SS07A

Date Collected: 03/07/23 10:00 Date Received: 03/07/23 15:13

Sample Depth: 1'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		03/09/23 15:59	03/10/23 17:57	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		03/09/23 15:59	03/10/23 17:57	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/09/23 15:59	03/10/23 17:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130			03/09/23 15:59	03/10/23 17:57	1
o-Terphenyl	100		70 - 130			03/09/23 15:59	03/10/23 17:57	1
- Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	le					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
raidiyio								

Client Sample ID: SS01A Lab Sample ID: 890-4248-4 Date Collected: 03/07/23 10:30 Matrix: Solid

Date Received: 03/07/23 15:13

Sample Depth: 1'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00199	U	0.00199	mg/Kg		03/16/23 10:29	03/17/23 18:06	1
Toluene	< 0.00199	U	0.00199	mg/Kg		03/16/23 10:29	03/17/23 18:06	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		03/16/23 10:29	03/17/23 18:06	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/16/23 10:29	03/17/23 18:06	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		03/16/23 10:29	03/17/23 18:06	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/16/23 10:29	03/17/23 18:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130			03/16/23 10:29	03/17/23 18:06	1
1,4-Difluorobenzene (Surr)	84		70 - 130			03/16/23 10:29	03/17/23 18:06	1
- Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation						
	Dogult	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Result	Qualifier	RL.	Ollit		riepaieu	7 illuly 20 u	
Analyte Total BTEX	<0.00398		0.00398	mg/Kg		Перагеи	03/19/23 17:50	1
Total BTEX	<0.00398	U	0.00398					
Total BTEX Method: SW846 8015 NM - Diese	<0.00398	ics (DRO) (0.00398 GC)	mg/Kg			03/19/23 17:50	1
Total BTEX Method: SW846 8015 NM - Diese Analyte	<0.00398 I Range Organ Result	U	0.00398 GC)	mg/Kg	<u>D</u>	Prepared	03/19/23 17:50 Analyzed	
Total BTEX Method: SW846 8015 NM - Diese	<0.00398	ics (DRO) (0.00398 GC)	mg/Kg			03/19/23 17:50	1
Total BTEX Method: SW846 8015 NM - Diese Analyte	<0.00398 I Range Organ Result 65.0	ics (DRO) (0.00398 GC) RL 50.0	mg/Kg			03/19/23 17:50 Analyzed	1
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH	<0.00398 I Range Organ Result 65.0 sel Range Orga	ics (DRO) (0.00398 GC) RL 50.0	mg/Kg			03/19/23 17:50 Analyzed	1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese	<0.00398 I Range Organ Result 65.0 sel Range Orga	ics (DRO) (Qualifier	0.00398 GC) RL 50.0 (GC)	mg/Kg Unit mg/Kg	<u>D</u>	Prepared	03/19/23 17:50 Analyzed 03/13/23 16:53	Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	<0.00398 I Range Organ Result 65.0 sel Range Orga Result	ics (DRO) (Qualifier	0.00398 GC) RL 50.0 (GC) RL	mg/Kg Unit mg/Kg Unit	<u>D</u>	Prepared Prepared	03/19/23 17:50 Analyzed 03/13/23 16:53 Analyzed	Dil Fac Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10	<0.00398 I Range Organ Result 65.0 sel Range Orga Result <50.0	ics (DRO) (Qualifier	0.00398 RL 50.0 (GC) RL 50.0	mg/Kg Unit mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared 03/09/23 15:59	03/19/23 17:50 Analyzed 03/13/23 16:53 Analyzed 03/10/23 18:18	Dil Fac 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	<0.00398 I Range Organ Result 65.0 sel Range Orga Result <50.0	U ics (DRO) (Qualifier unics (DRO) Qualifier U	0.00398 RL 50.0 (GC) RL 50.0	mg/Kg Unit mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared 03/09/23 15:59	03/19/23 17:50 Analyzed 03/13/23 16:53 Analyzed 03/10/23 18:18	Dil Fac 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)	<0.00398 I Range Organ Result 65.0 sel Range Orga Result <50.0 65.0	ics (DRO) (Qualifier unics (DRO) Qualifier U	0.00398 RL 50.0 (GC) RL 50.0 50.0	mg/Kg Unit mg/Kg Unit mg/Kg mg/Kg	<u>D</u>	Prepared Prepared 03/09/23 15:59 03/09/23 15:59	03/19/23 17:50 Analyzed 03/13/23 16:53 Analyzed 03/10/23 18:18 03/10/23 18:18	Dil Fac 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 65.0 sel Range Orga Result <50.0 65.0 <50.0	ics (DRO) (Qualifier unics (DRO) Qualifier U	0.00398 RL 50.0 RL 50.0 50.0 50.0	mg/Kg Unit mg/Kg Unit mg/Kg mg/Kg	<u>D</u>	Prepared Prepared 03/09/23 15:59 03/09/23 15:59	03/19/23 17:50 Analyzed 03/13/23 16:53 Analyzed 03/10/23 18:18 03/10/23 18:18	Dil Fac Dil Fac 1 Dil 7 1

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3/19/2023

Client Sample Results

Client: Ensolum Job ID: 890-4248-1 Project/Site: Baseball Cap 25 M CTB SDG: 03D2024151

Client Sample ID: SS01A Lab Sample ID: 890-4248-4 Matrix: Solid

Date Collected: 03/07/23 10:30 Date Received: 03/07/23 15:13

Sample Depth: 1'

Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Soluble)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	68.6		4.97	mg/Kg			03/10/23 00:23	1

DFBZ = 1,4-Difluorobenzene (Surr)

Surrogate Summary

Client: Ensolum Job ID: 890-4248-1
Project/Site: Baseball Cap 25 M CTB SDG: 03D2024151

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Rec
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-4245-A-21-E MS	Matrix Spike	95	100	
890-4245-A-21-F MSD	Matrix Spike Duplicate	100	104	
890-4248-1	SS02A	85	86	
890-4248-2	SS07	97	74	
890-4248-3	SS07A	95	76	
890-4248-4	SS01A	82	84	
LCS 880-48734/1-A	Lab Control Sample	76	112	
LCSD 880-48734/2-A	Lab Control Sample Dup	75	111	
MB 880-48734/5-A	Method Blank	75	88	
Surrogate Legend				
Gurrogate Legend BFB = 4-Bromofluoroben	zene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-4248-1	SS02A	89	99	
890-4248-2	SS07	87	98	
890-4248-3	SS07A	89	100	
890-4248-4	SS01A	87	97	
890-4249-A-61-B MS	Matrix Spike	115	112	
890-4249-A-61-C MSD	Matrix Spike Duplicate	111	107	
890-4252-A-1-E MS	Matrix Spike	102	100	
890-4252-A-1-F MSD	Matrix Spike Duplicate	102	100	
LCS 880-48252/2-A	Lab Control Sample	87	98	
LCS 880-48322/2-A	Lab Control Sample	106	98	
LCSD 880-48252/3-A	Lab Control Sample Dup	87	98	
LCSD 880-48322/3-A	Lab Control Sample Dup	108	105	
MB 880-48252/1-A	Method Blank	117	132 S1+	
MB 880-48322/1-A	Method Blank	121	129	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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Client: Ensolum Job ID: 890-4248-1 Project/Site: Baseball Cap 25 M CTB SDG: 03D2024151

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-48734/5-A

Matrix: Solid Analysis Batch: 48800

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 48734

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/16/23 10:29	03/17/23 11:13	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/16/23 10:29	03/17/23 11:13	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/16/23 10:29	03/17/23 11:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/16/23 10:29	03/17/23 11:13	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/16/23 10:29	03/17/23 11:13	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/16/23 10:29	03/17/23 11:13	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75	70 - 130	03/16/23 10:29	03/17/23 11:13	1
1,4-Difluorobenzene (Surr)	88	70 - 130	03/16/23 10:29	03/17/23 11:13	1

Lab Sample ID: LCS 880-48734/1-A

Matrix: Solid

Analysis Batch: 48800

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 48734

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1196		mg/Kg		120	70 - 130	
Toluene	0.100	0.09895		mg/Kg		99	70 - 130	
Ethylbenzene	0.100	0.08461		mg/Kg		85	70 - 130	
m-Xylene & p-Xylene	0.200	0.1714		mg/Kg		86	70 - 130	
o-Xylene	0.100	0.08373		mg/Kg		84	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	76		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Lab Sample ID: LCSD 880-48734/2-A

Matrix: Solid

Analysis Batch: 48800

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 48734

RPD LCSD LCSD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Limit Benzene 0.100 0.1123 mg/Kg 112 70 - 130 6 35 Toluene 0.100 0.09162 mg/Kg 92 70 - 130 8 35 Ethylbenzene 0.100 0.07942 mg/Kg 79 70 - 130 6 35 0.200 m-Xylene & p-Xylene 0.1615 mg/Kg 81 70 - 130 35 0.100 0.07825 78 70 - 130 o-Xylene mg/Kg 35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	75		70 - 130
1.4-Difluorobenzene (Surr)	111		70 - 130

Lab Sample ID: 890-4245-A-21-E MS

Matrix: Solid

Analysis Batch: 48800

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

Prep Batch: 48734

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00198	U	0.0998	0.09126		mg/Kg		91	70 - 130	
Toluene	< 0.00198	U	0.0998	0.08128		mg/Kg		81	70 - 130	

Prep Batch: 48734

Prep Type: Total/NA

Prep Batch: 48252

QC Sample Results

Job ID: 890-4248-1 Client: Ensolum Project/Site: Baseball Cap 25 M CTB SDG: 03D2024151

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

Lab Sample ID: 890-4245-A-21-E MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid Analysis Batch: 48800

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00198	U	0.0998	0.07297		mg/Kg		73	70 - 130	
m-Xylene & p-Xylene	<0.00396	U	0.200	0.1585		mg/Kg		79	70 - 130	
o-Xylene	<0.00198	U	0.0998	0.07854		mg/Kg		78	70 - 130	

MS MS %Recovery Qualifier Limits Surrogate 70 - 130 4-Bromofluorobenzene (Surr) 95 1,4-Difluorobenzene (Surr) 70 - 130 100

Lab Sample ID: 890-4245-A-21-F MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Analysis Batch: 48800

Prep Batch: 48734 Sample Sample Spike MSD MSD RPD Result Qualifier %Rec RPD Limit Analyte babbA Result Qualifier Limits Unit <0.00198 U 0.100 0.09758 mg/Kg 97 70 - 130 7 35

Benzene Toluene <0.00198 0.100 0.08296 mg/Kg 83 70 - 130 2 35 Ethylbenzene <0.00198 0.100 0.07313 73 70 - 130 35 U mg/Kg 0 79 35 m-Xylene & p-Xylene <0.00396 U 0.201 0.1582 mg/Kg 70 - 130 0 0.100 81 70 - 130 35 o-Xylene <0.00198 U 0.08147 mg/Kg

MSD MSD Qualifier Limits Surrogate %Recovery 70 - 130 4-Bromofluorobenzene (Surr) 100 1,4-Difluorobenzene (Surr) 104 70 - 130

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

Lab Sample ID: MB 880-48252/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 48274

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		03/09/23 15:58	03/10/23 08:23	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		03/09/23 15:58	03/10/23 08:23	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/09/23 15:58	03/10/23 08:23	1

MB MB %Recovery Dil Fac Qualifier Limits Prepared Analyzed Surrogate 1-Chlorooctane 117 70 - 130 03/09/23 15:58 03/10/23 08:23 132 S1+ 70 - 130 03/09/23 15:58 03/10/23 08:23 o-Terphenyl

Lab Sample ID: LCS 880-48252/2-A Client Sample ID: Lab Control Sample

Analysis Batch: 48274

Matrix: Solid

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits 1000 1046 105 70 - 130 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 771.2 mg/Kg 77 70 - 130

C10-C28)

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Prep Type: Total/NA

Prep Batch: 48252

Job ID: 890-4248-1 Client: Ensolum Project/Site: Baseball Cap 25 M CTB

SDG: 03D2024151

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

Lab Sample ID: LCS 880-48252/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Analysis Batch: 48274

Prep Type: Total/NA

Prep Batch: 48252

LCS LCS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 87 70 - 130 o-Terphenyl 98 70 - 130

Lab Sample ID: LCSD 880-48252/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 48274

Prep Type: Total/NA

Prep Batch: 48252 %Rec RPD

Spike LCSD LCSD Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 1029 103 70 - 1302 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 756.2 76 mg/Kg 70 - 1302 20 C10-C28)

LCSD LCSD

Surrogate %Recovery Qualifier Limits 87 70 - 130 1-Chlorooctane 98 70 - 130 o-Terphenyl

Lab Sample ID: 890-4249-A-61-B MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 48274

Prep Type: Total/NA

Prep Batch: 48252

MS MS Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics 168 1000 1162 mg/Kg 99 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 2110 F1 1000 2544 F1 mg/Kg 44 70 - 130 C10-C28)

MS MS %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 115 70 - 130 o-Terphenyl 112

Lab Sample ID: 890-4249-A-61-C MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid**

Analysis Batch: 48274

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Prep Type: Total/NA Prep Batch: 48252

RPD %Rec

MSD MSD Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit 1000 1139 97 Gasoline Range Organics 168 70 - 130 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 2110 F1 1000 2356 F1 mg/Kg 25 70 - 130 20

C10-C28)

Surrogate

o-Terphenyl

1-Chlorooctane

MSD MSD Qualifier %Recovery Limits 111 70 - 130 107 70 - 130

QC Sample Results

Job ID: 890-4248-1 Client: Ensolum SDG: 03D2024151

Project/Site: Baseball Cap 25 M CTB

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

Lab Sample ID: MB 880-48322/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 48386 Prep Batch: 48322

	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		03/10/23 13:27	03/11/23 09:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/10/23 13:27	03/11/23 09:21	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/10/23 13:27	03/11/23 09:21	1
	МВ	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130			03/10/23 13:27	03/11/23 09:21	1
o-Terphenyl	129		70 - 130			03/10/23 13:27	03/11/23 09:21	1

Lab Sample ID: LCS 880-48322/2-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA Analysis Batch: 48386 Prep Batch: 48322

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics 1000 873.6 87 70 - 130 mg/Kg (GRO)-C6-C10

1000

893.0 Diesel Range Organics (Over mg/Kg C10-C28) LCS LCS

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	106	70 - 130
o-Terphenyl	98	70 - 130

Lab Sample ID: LCSD 880-48322/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Total/NA Analysis Batch: 48386 Prep Batch: 48322

Spike LCSD LCSD RPD %Rec Limit Analyte Added Result Qualifier %Rec RPD Unit D Limits Gasoline Range Organics 1000 946.7 mg/Kg 95 70 - 130 20 (GRO)-C6-C10 Diesel Range Organics (Over 1000 946.7 mg/Kg 95

LCSD LCSD %Recovery Qualifier Limits Surrogate 70 - 130 1-Chlorooctane 108

Lab Sample ID: 890-4252-A-1-E MS Client Sample ID: Matrix Spike

Matrix: Solid Prep Type: Total/NA Prep Batch: 48322

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.9	U	998	915.6		mg/Kg		87	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.9	U	998	958.7		mg/Kg		96	70 - 130	
C10-C28)										

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89

70 - 130

C10-C28)

Prep Batch: 48322

Job ID: 890-4248-1

Project/Site: Baseball Cap 25 M CTB SDG: 03D2024151

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

Lab Sample ID: 890-4252-A-1-E MS Client Sample ID: Matrix Spike **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 48386

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 102 70 - 130 o-Terphenyl 100 70 - 130

Lab Sample ID: 890-4252-A-1-F MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Client: Ensolum

Analysis Batch: 48386

Prep Type: Total/NA Prep Batch: 48322

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit <49.9 U 999 90 70 - 1303 20 Gasoline Range Organics 941 1 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 999 969.8 97 <49.9 U mg/Kg 70 - 13020 C10-C28)

MSD MSD %Recovery Surrogate Qualifier Limits 102 70 - 130 1-Chlorooctane 100 70 - 130 o-Terphenyl

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-48204/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 48263

мв мв

Analyte Result Qualifier RL Unit D Dil Fac Prepared Analyzed Chloride 5.00 <5.00 U mg/Kg 03/09/23 22:51

Lab Sample ID: LCS 880-48204/2-A Client Sample ID: Lab Control Sample **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 48263

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 101 90 - 110

Lab Sample ID: LCSD 880-48204/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 48263

LCSD LCSD %Rec RPD Result Qualifier Added Analyte Unit D %Rec Limits RPD Limit Chloride 250 253.2 101 90 - 110 20 mg/Kg

Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Baton: 40200	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	116		250	388.4		mg/Kg		109	90 - 110	

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250 253.2 mg/Kg

Lab Sample ID: 890-4243-A-10-C MS

Analysis Batch: 48263

Lab Sample ID: 890-4243-A-10-D MSD

QC Sample Results

Client: Ensolum Job ID: 890-4248-1 Project/Site: Baseball Cap 25 M CTB

SDG: 03D2024151

Method: 300.0 - Anions, Ion Chromatography (Continued)

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Matrix: Solid Analysis Batch: 48263

Sample Sample Spike MSD MSD %Rec RPD Result Qualifier Added Result Qualifier RPD Limit Analyte Unit %Rec Limits Chloride 116 250 388.0 mg/Kg 109 90 - 110 0 20

Client: Ensolum

Project/Site: Baseball Cap 25 M CTB

Job ID: 890-4248-1

SDG: 03D2024151

GC VOA

Prep Batch: 48734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4248-1	SS02A	Total/NA	Solid	5035	_
890-4248-2	SS07	Total/NA	Solid	5035	
890-4248-3	SS07A	Total/NA	Solid	5035	
890-4248-4	SS01A	Total/NA	Solid	5035	
MB 880-48734/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-48734/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-48734/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4245-A-21-E MS	Matrix Spike	Total/NA	Solid	5035	
890-4245-A-21-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 48800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4248-1	SS02A	Total/NA	Solid	8021B	48734
890-4248-2	SS07	Total/NA	Solid	8021B	48734
890-4248-3	SS07A	Total/NA	Solid	8021B	48734
890-4248-4	SS01A	Total/NA	Solid	8021B	48734
MB 880-48734/5-A	Method Blank	Total/NA	Solid	8021B	48734
LCS 880-48734/1-A	Lab Control Sample	Total/NA	Solid	8021B	48734
LCSD 880-48734/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	48734
890-4245-A-21-E MS	Matrix Spike	Total/NA	Solid	8021B	48734
890-4245-A-21-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	48734

Analysis Batch: 48939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4248-1	SS02A	Total/NA	Solid	Total BTEX	
890-4248-2	SS07	Total/NA	Solid	Total BTEX	
890-4248-3	SS07A	Total/NA	Solid	Total BTEX	
890-4248-4	SS01A	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 48252

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4248-2	SS07	Total/NA	Solid	8015NM Prep	
890-4248-3	SS07A	Total/NA	Solid	8015NM Prep	
890-4248-4	SS01A	Total/NA	Solid	8015NM Prep	
MB 880-48252/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-48252/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-48252/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4249-A-61-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4249-A-61-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 48274

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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4248-2	SS07	Total/NA	Solid	8015B NM	48252
890-4248-3	SS07A	Total/NA	Solid	8015B NM	48252
890-4248-4	SS01A	Total/NA	Solid	8015B NM	48252
MB 880-48252/1-A	Method Blank	Total/NA	Solid	8015B NM	48252
LCS 880-48252/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	48252
LCSD 880-48252/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	48252
890-4249-A-61-B MS	Matrix Spike	Total/NA	Solid	8015B NM	48252

Client: Ensolum Job ID: 890-4248-1 Project/Site: Baseball Cap 25 M CTB

SDG: 03D2024151

GC Semi VOA (Continued)

Analysis Batch: 48274 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4249-A-61-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	48252

Prep Batch: 48322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4248-1	SS02A	Total/NA	Solid	8015NM Prep	
MB 880-48322/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-48322/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-48322/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4252-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4252-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 48386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4248-1	SS02A	Total/NA	Solid	8015B NM	48322
MB 880-48322/1-A	Method Blank	Total/NA	Solid	8015B NM	48322
LCS 880-48322/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	48322
LCSD 880-48322/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	48322
890-4252-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	48322
890-4252-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	48322

Analysis Batch: 48524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4248-1	SS02A	Total/NA	Solid	8015 NM	
890-4248-2	SS07	Total/NA	Solid	8015 NM	
890-4248-3	SS07A	Total/NA	Solid	8015 NM	
890-4248-4	SS01A	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 48204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4248-1	SS02A	Soluble	Solid	DI Leach	
890-4248-2	SS07	Soluble	Solid	DI Leach	
890-4248-3	SS07A	Soluble	Solid	DI Leach	
890-4248-4	SS01A	Soluble	Solid	DI Leach	
MB 880-48204/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-48204/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-48204/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4243-A-10-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-4243-A-10-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 48263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4248-1	SS02A	Soluble	Solid	300.0	48204
890-4248-2	SS07	Soluble	Solid	300.0	48204
890-4248-3	SS07A	Soluble	Solid	300.0	48204
890-4248-4	SS01A	Soluble	Solid	300.0	48204
MB 880-48204/1-A	Method Blank	Soluble	Solid	300.0	48204
LCS 880-48204/2-A	Lab Control Sample	Soluble	Solid	300.0	48204
LCSD 880-48204/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	48204
890-4243-A-10-C MS	Matrix Spike	Soluble	Solid	300.0	48204

Client: Ensolum Job ID: 890-4248-1 Project/Site: Baseball Cap 25 M CTB

SDG: 03D2024151

HPLC/IC (Continued)

Analysis Batch: 48263 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4243-A-10-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	48204

Client: Ensolum

Job ID: 890-4248-1 Project/Site: Baseball Cap 25 M CTB SDG: 03D2024151

Client Sample ID: SS02A Lab Sample ID: 890-4248-1

Date Collected: 03/07/23 09:30 Matrix: Solid Date Received: 03/07/23 15:13

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	48734	03/16/23 10:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48800	03/17/23 17:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48939	03/19/23 17:50	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48524	03/13/23 16:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48322	03/10/23 13:27	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48386	03/11/23 14:34	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	48204	03/09/23 11:30	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48263	03/10/23 00:05	CH	EET MID

Client Sample ID: SS07 Lab Sample ID: 890-4248-2

Date Collected: 03/07/23 09:50 Date Received: 03/07/23 15:13

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	48734	03/16/23 10:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48800	03/17/23 17:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48939	03/19/23 17:50	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48524	03/13/23 16:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	48252	03/09/23 15:59	AJ	EET MIC
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48274	03/10/23 17:35	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	48204	03/09/23 11:30	KS	EET MIC
Soluble	Analysis	300.0		1	50 mL	50 mL	48263	03/10/23 00:11	CH	EET MID

Client Sample ID: SS07A Lab Sample ID: 890-4248-3 Date Collected: 03/07/23 10:00 **Matrix: Solid**

Date Received: 03/07/23 15:13

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	48734	03/16/23 10:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48800	03/17/23 17:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48939	03/19/23 17:50	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48524	03/13/23 16:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	48252	03/09/23 15:59	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48274	03/10/23 17:57	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	48204	03/09/23 11:30	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48263	03/10/23 00:17	CH	EET MID

Client Sample ID: SS01A Lab Sample ID: 890-4248-4

Date Collected: 03/07/23 10:30 Date Received: 03/07/23 15:13

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	48734	03/16/23 10:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48800	03/17/23 18:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48939	03/19/23 17:50	AJ	EET MID

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Matrix: Solid

Matrix: Solid

Lab Chronicle

Client: Ensolum Job ID: 890-4248-1 Project/Site: Baseball Cap 25 M CTB SDG: 03D2024151

Client Sample ID: SS01A Lab Sample ID: 890-4248-4 Date Collected: 03/07/23 10:30

Matrix: Solid Date Received: 03/07/23 15:13

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			48524	03/13/23 16:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	48252	03/09/23 15:59	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48274	03/10/23 18:18	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	48204	03/09/23 11:30	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48263	03/10/23 00:23	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-4248-1 Project/Site: Baseball Cap 25 M CTB SDG: 03D2024151

Laboratory: Eurofins Midland

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

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-22-25	06-30-23
The following analytes the agency does not of	• •	t the laboratory is not certifi	led by the governing authority. This list ma	ay include analytes for
	0. 00 00			
Analysis Method	Prep Method	Matrix	Analyte	
Analysis Method 8015 NM		Matrix Solid	Analyte Total TPH	

Method Summary

Client: Ensolum

Job ID: 890-4248-1 Project/Site: Baseball Cap 25 M CTB

SDG: 03D2024151

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum

Project/Site: Baseball Cap 25 M CTB

Job ID: 890-4248-1

SDG: 03D2024151

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4248-1	SS02A	Solid	03/07/23 09:30	03/07/23 15:13	1'
890-4248-2	SS07	Solid	03/07/23 09:50	03/07/23 15:13	1'
890-4248-3	SS07A	Solid	03/07/23 10:00	03/07/23 15:13	1'
890-4248-4	SS01A	Solid	03/07/23 10:30	03/07/23 15:13	1'

3

9

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12

13

Released to Imaging: 7/20/2023 9:30:56 AM

3/19/2023

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Chain of Custody

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

Work Order No:		

www.xenco.com

Project Manager:	Hadlie	e Green				Bill to: (if	different)	Hadlie Green						Work Order Comments								
Company Name:	Ensol	um, LLC				Compan	y Name);	Ensolum, LLC						Program: UST/PST PRP Brownfields RRC Superfund								
Address:	601 N	Marienfe	eld St St	uite 400		Address	:		601 N Marienfeld St Suite 400							e of Pi	•						
City, State ZIP:	Midla	nd, TX 79	701			City, Sta	te ZIP:		Midland, TX 79701						1							RP Level IV	
Phone:	432-5	57-8895			Email:	hgreen(@enso	lum.c	<u>om</u>						Deliverables: EDD ☐ ADaPT ☐ Other:								
Project Name:		Baseball	Can 25	M CTB	Turr	Around			ANALYSIS R					REC	EQUEST						Preservative Codes		
Project Number:			202415		☑ Routine	Rush		Pres. Code														None: NO	DI Water: H ₂ C
Project Location:		32 183	9,-103.4	1289	Due Date:			-														Cool: Cool	MeOH: Me
Sampler's Name:	Peter Van Pat				he day received by		7													HCL: HC HNO₃: HN			
PO #:					the lab, if red	ceived by 4	:30pm	20												H ₂ S0 ₄ : H ₂	NaOH: Na		
SAMPLE RECE	IPT	Temp 8	Blank:	Res No	Wet Ice:	Kes	No	neters	9			1111111			HIII					H₃PO₄: HP			
Samples Received	nples Received Intact: Yes No Thermometer ID: Tow					- 5	300.0)			1988	MINN	MINIM							NaHSO₄: NABIS				
Cooler Custody Sea					-0.7	- 2	(EPA:					HHI					Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaOH: Zn						
Sample Custody Seals: Yes No NA Temperature F								£	890-4248 Chain of Cus			Cust	tody				NaOH+Ascorbic Acid: SAPC						
Total Containers:	1			Corrected Te	mperature:	4.	D		8	(8015)	(80	890-	12							Naori Ascorbic Acid. Or ii o			
Sample Ide	al Containers: Corrected Temperature: Corrected Temperature: Corrected Temperature: Corrected Temperature: Corrected Temperature: Fine Sampled Sampled Depth Comp Cont Cont Comp Cont Cont Cont Cont Cont Cont Cont Cont												Sample	e Comments									
SSO	2A		Soil	3/7/2023	930	1.0'	Comp	1	х	х	х						<u> </u>						
SS	07		Soil	3/7/2023	950	0.5'	Comp	1	x	×	х			1		1							
SSO	7A		Soil	3/7/2023	1000	1.0'	Comp	1	×	x	х												
SSO	1A		Soil	3/7/2023	1030	1.0'	Comp	1		×	х			-		-	-		-				
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																		1					

Circle Method(s) and Metal(s) to be analyzed

TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Bo Van Reta	Angelaltet	3/7/23 15/3	2		
3		4	1		
5		6	5		avised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4248-1 SDG Number: 03D2024151

Login Number: 4248 List Source: Eurofins Carlsbad

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 <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4248-1 SDG Number: 03D2024151

Login Number: 4248 **List Source: Eurofins Midland** List Number: 2

List Creation: 03/09/23 10:55 AM

Creator: Teel, Brianna

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of	True	

Released to Imaging: 7/20/2023 9:30:56 AM

sampling.

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green Ensolum 601 N. Marienfeld St.

Suite 400 Midland, Texas 79701

Generated 3/30/2023 2:23:27 PM

JOB DESCRIPTION

Baseball Cap 25 M CTB SDG NUMBER 03D2024151

JOB NUMBER

890-4355-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

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

Generated 3/30/2023 2:23:27 PM

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

Client: Ensolum
Project/Site: Baseball Cap 25 M CTB
Laboratory Job ID: 890-4355-1
SDG: 03D2024151

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Definitions/Glossary

Job ID: 890-4355-1 Client: Ensolum Project/Site: Baseball Cap 25 M CTB

SDG: 03D2024151

Qualifiers

GC VOA Qualifier **Qualifier Description**

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

GC Semi VOA

Qualifier **Qualifier Description**

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

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

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

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

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

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

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

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

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Project/Site: Baseball Cap 25 M CTB

Job ID: 890-4355-1 SDG: 03D2024151

7101

Job ID: 890-4355-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4355-1

Receipt

The samples were received on 3/17/2023 4:34 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: FS01 (890-4355-1), FS02 (890-4355-2), FS03 (890-4355-3), FS04 (890-4355-4), FS05 (890-4355-5) and FS06 (890-4355-6).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: FS01 (890-4355-1), FS02 (890-4355-2), FS03 (890-4355-3), FS04 (890-4355-4), FS05 (890-4355-5), FS06 (890-4355-6), (890-4353-A-34-C), (890-4353-A-34-A MS) and (890-4353-A-34-B 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: Surrogate recovery for the following sample was outside control limits: (890-4352-A-1-A). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: FS03 (890-4355-3), FS04 (890-4355-4), FS05 (890-4355-5) and FS06 (890-4355-6). 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

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

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114

Lab Sample ID: 890-4355-1

03/24/23 14:17

Prepared

D

03/25/23 12:44

Analyzed

Client Sample Results

Client: Ensolum Job ID: 890-4355-1
Project/Site: Baseball Cap 25 M CTB SDG: 03D2024151

Client Sample ID: FS01

Date Collected: 03/17/23 11:05 Date Received: 03/17/23 16:34

Sample Depth: 1.0

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/24/23 14:10	03/28/23 23:40	1
Toluene	< 0.00199	U	0.00199	mg/Kg		03/24/23 14:10	03/28/23 23:40	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		03/24/23 14:10	03/28/23 23:40	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/24/23 14:10	03/28/23 23:40	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		03/24/23 14:10	03/28/23 23:40	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/24/23 14:10	03/28/23 23:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	150	S1+	70 - 130			03/24/23 14:10	03/28/23 23:40	1
1,4-Difluorobenzene (Surr)	85		70 - 130			03/24/23 14:10	03/28/23 23:40	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			03/29/23 12:47	1
Method: SW846 8015 NM - Diese	al Range Organ	ics (DRO) ((GC)					
		ics (DRO) (Qualifier	GC)	Unit	D	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH		, , ,	•	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 03/27/23 11:26	Dil Fac
Analyte Total TPH	Result 54.3	Qualifier	RL 49.9		<u>D</u>	Prepared		Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die	Result 54.3	Qualifier nics (DRO)	RL 49.9 (GC)	mg/Kg			03/27/23 11:26	1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte	Result 54.3 sel Range Orga	Qualifier nics (DRO) Qualifier	RL 49.9 (GC)	mg/Kg	<u>D</u>	Prepared	03/27/23 11:26 Analyzed	Dil Fac Dil Fac 1
Analyte Total TPH Method: SW846 8015B NM - Die	Result 54.3	Qualifier nics (DRO) Qualifier	RL 49.9 (GC)	mg/Kg			03/27/23 11:26	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result 54.3 sel Range Orga	Qualifier nics (DRO) Qualifier	RL 49.9 (GC)	mg/Kg		Prepared	03/27/23 11:26 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	Result 54.3 sel Range Orga Result Result c49.9	Qualifier nics (DRO) Qualifier	RL 49.9 (GC) RL 49.9	mg/Kg Unit mg/Kg		Prepared 03/24/23 14:17	03/27/23 11:26 Analyzed 03/25/23 12:44	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 54.3 sel Range Orga Result Result c49.9	Qualifier nics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9	mg/Kg Unit mg/Kg		Prepared 03/24/23 14:17	03/27/23 11:26 Analyzed 03/25/23 12:44	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result 54.3 sel Range Orga Result < 49.9 54.3	Qualifier nics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/24/23 14:17 03/24/23 14:17	03/27/23 11:26 Analyzed 03/25/23 12:44 03/25/23 12:44	Dil Fac

 Chloride
 68.1
 5.01
 mg/Kg
 03/29/23 23:12
 1

 Client Sample ID: FS02
 Lab Sample ID: 890-4355-2

RL

Unit

70 - 130

Result Qualifier

Date Collected: 03/17/23 11:10 Date Received: 03/17/23 16:34

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Sample Depth: 1.0

o-Terphenyl

Analyte

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/24/23 14:10	03/29/23 00:07	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/24/23 14:10	03/29/23 00:07	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/24/23 14:10	03/29/23 00:07	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		03/24/23 14:10	03/29/23 00:07	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/24/23 14:10	03/29/23 00:07	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		03/24/23 14:10	03/29/23 00:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	164	S1+	70 - 130			03/24/23 14:10	03/29/23 00:07	1

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Dil Fac

Matrix: Solid

Lab Sample ID: 890-4355-2

Job ID: 890-4355-1

Client: Ensolum Project/Site: Baseball Cap 25 M CTB SDG: 03D2024151

Client Sample ID: FS02

Date Collected: 03/17/23 11:10 Date Received: 03/17/23 16:34

Sample Depth: 1.0

Method: SW846 8021B	- Volatile Organic Compounds	(GC) (Continued)
WELLIOU. 377040 OUZ ID	- voiatile Organiic Compounts	(GC) (Continueu)

Surrogate	%Recovery Qualifier	r Limits	Prepared	Analyzed	Dil Fac
1.4-Difluorobenzene (Surr)	86	70 - 130	03/24/23 14:10	03/29/23 00:07	1

Method: TAI	SOP Total BTEX	- Total BTFX	Calculation
Mictilou. IAL	- OOI TOTAL DIEA	- IOIGI DIEA	Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			03/29/23 12:47	1

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

Analyte	Result Qu	alifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U	49.9	mg/Kg			03/27/23 11:26	1

	Mothod: SW046 904ED NM Diocol Dan	go Organico (DBO) (CC)	v
ı	Method: SW846 8015B NM - Diesel Ran	ge Organics (DRO) (GC)	,

		,	\ /					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		03/24/23 14:17	03/25/23 11:38	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		03/24/23 14:17	03/25/23 11:38	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/24/23 14:17	03/25/23 11:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97	70 - 130	03/24/23 14:17	03/25/23 11:38	1
o-Terphenyl	101	70 - 130	03/24/23 14:17	03/25/23 11:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	53.9		5.03	mg/Kg			03/29/23 13:34	1

Client Sample ID: FS03 Lab Sample ID: 890-4355-3

Date Collected: 03/17/23 11:15 Date Received: 03/17/23 16:34

Sample Depth: 1.0

ı	Method: SW846 8021B	Valatila Ossasia	O = (OO)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		03/24/23 14:10	03/29/23 00:33	1
Toluene	<0.00201	U	0.00201	mg/Kg		03/24/23 14:10	03/29/23 00:33	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		03/24/23 14:10	03/29/23 00:33	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		03/24/23 14:10	03/29/23 00:33	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		03/24/23 14:10	03/29/23 00:33	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		03/24/23 14:10	03/29/23 00:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	159	S1+	70 - 130			03/24/23 14:10	03/29/23 00:33	1
1 1 Differenchemanne (Crem)	00		70 400			00/04/00 44:40	00/00/00 00:00	

4-bromonuorobenzene (Surr)	159 51+	70 - 130	03/24/23 14.10	03/29/23 00.33	ı
1,4-Difluorobenzene (Surr)	90	70 - 130	03/24/23 14:10	03/29/23 00:33	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			03/29/23 12:47	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			03/27/23 11:30	1

Eurofins Carlsbad

Matrix: Solid

Lab Sample ID: 890-4355-3

Analyzed

Client Sample Results

Client: Ensolum Job ID: 890-4355-1
Project/Site: Baseball Cap 25 M CTB SDG: 03D2024151

Client Sample ID: FS03

Date Collected: 03/17/23 11:15 Date Received: 03/17/23 16:34

Sample Depth: 1.0

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		03/24/23 16:46	03/26/23 17:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		03/24/23 16:46	03/26/23 17:39	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/24/23 16:46	03/26/23 17:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	136	S1+	70 - 130			03/24/23 16:46	03/26/23 17:39	1
o-Terphenyl	133	S1+	70 - 130			03/24/23 16:46	03/26/23 17:39	1

 Chloride
 43.6
 5.04
 mg/Kg
 03/29/23 13:48
 1

 Client Sample ID: FS04
 Lab Sample ID: 890-4355-4

RL

Unit

D

Prepared

Result Qualifier

Date Collected: 03/17/23 13:20 Date Received: 03/17/23 16:34

Sample Depth: 1.0

Analyte

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/24/23 14:10	03/29/23 00:59	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/24/23 14:10	03/29/23 00:59	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/24/23 14:10	03/29/23 00:59	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/24/23 14:10	03/29/23 00:59	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/24/23 14:10	03/29/23 00:59	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/24/23 14:10	03/29/23 00:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	150	S1+	70 - 130			03/24/23 14:10	03/29/23 00:59	1
1,4-Difluorobenzene (Surr)	83		70 - 130			03/24/23 14:10	03/29/23 00:59	1
 Method: TAL SOP Total BTEX 	- Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	IJ	0.00398	mg/Kg			03/29/23 12:47	

	Method: SW846 8015 NM - Diesel Range	Organ	ics (DRO) (GC))					
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Total TPH	<49.9	U	49.9	mg/Kg			03/27/23 11:30	1
ì									

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		03/24/23 16:46	03/26/23 18:01	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		03/24/23 16:46	03/26/23 18:01	,
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/24/23 16:46	03/26/23 18:01	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	144	S1+	70 - 130			03/24/23 16:46	03/26/23 18:01	1
o-Terphenyl	146	S1+	70 - 130			03/24/23 16:46	03/26/23 18:01	1

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4 4

Dil Fac

Matrix: Solid

12

1

Job ID: 890-4355-1

Matrix: Solid

Client: Ensolum Project/Site: Baseball Cap 25 M CTB SDG: 03D2024151

Client Sample ID: FS04 Lab Sample ID: 890-4355-4

Date Collected: 03/17/23 13:20 Date Received: 03/17/23 16:34

Sample Depth: 1.0

Method: EPA 300.0 - Anions, Ion C	hromatography - Solub	le					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	93.5	5.00	mg/Kg			03/29/23 13:52	1

Client Sample ID: FS05 Lab Sample ID: 890-4355-5 Matrix: Solid

Date Collected: 03/17/23 13:25 Date Received: 03/17/23 16:34

Sample Depth: 1.0

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199	mg/Kg		03/24/23 14:10	03/29/23 01:26	
Toluene	< 0.00199	U	0.00199	mg/Kg		03/24/23 14:10	03/29/23 01:26	
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		03/24/23 14:10	03/29/23 01:26	
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/24/23 14:10	03/29/23 01:26	
o-Xylene	< 0.00199	U	0.00199	mg/Kg		03/24/23 14:10	03/29/23 01:26	
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/24/23 14:10	03/29/23 01:26	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	162	S1+	70 - 130			03/24/23 14:10	03/29/23 01:26	
1,4-Difluorobenzene (Surr)	87		70 - 130			03/24/23 14:10	03/29/23 01:26	
Method: TAL SOP Total BTEX - 1	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00398	U	0.00398	mg/Kg			03/29/23 12:47	
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	53.9		50.0	mg/Kg			03/27/23 11:30	
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		03/24/23 16:46	03/26/23 18:23	
Diesel Range Organics (Over C10-C28)	53.9		50.0	mg/Kg		03/24/23 16:46	03/26/23 18:23	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/24/23 16:46	03/26/23 18:23	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	145	S1+	70 - 130			03/24/23 16:46	03/26/23 18:23	
o-Terphenyl	146	S1+	70 - 130			03/24/23 16:46	03/26/23 18:23	
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Method: EPA 300.0 - Anions, Ion Analyte	• •	Ohy - Solubl Qualifier	e RL	Unit	D	Prepared	Analyzed	Dil Fac

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Job ID: 890-4355-1

Lab Sample ID: 890-4355-6

Client: Ensolum Project/Site: Baseball Cap 25 M CTB SDG: 03D2024151

Client Sample ID: FS06

Date Collected: 03/17/23 13:30 Date Received: 03/17/23 16:34

Sample Depth: 1.0

Chloride

	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/24/23 14:10	03/29/23 01:52	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/24/23 14:10	03/29/23 01:52	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/24/23 14:10	03/29/23 01:52	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		03/24/23 14:10	03/29/23 01:52	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/24/23 14:10	03/29/23 01:52	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		03/24/23 14:10	03/29/23 01:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	154	S1+	70 - 130			03/24/23 14:10	03/29/23 01:52	1
1,4-Difluorobenzene (Surr)	85		70 - 130			03/24/23 14:10	03/29/23 01:52	1
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			03/29/23 12:47	1
Mada da OMO40 0045 NM - Diagra	-	. (556) (
Method: SWX46 XU15 NM - DIES	ei Kanne Urnan	ics (DRO) (GC)					
Method: SW846 8015 NM - Diese Analyte	• •	Qualifier	GC) RL	Unit	D	Prepared	Analyzed	Dil Fac
	• •		•	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 03/27/23 11:30	Dil Fac
Analyte Total TPH	Result 80.6	Qualifier	RL 49.9		<u>D</u>	Prepared		Dil Fac
Analyte	Result 80.6 sel Range Orga	Qualifier	RL 49.9		<u>D</u>	Prepared Prepared		Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics	Result 80.6 sel Range Orga	Qualifier nics (DRO) Qualifier	RL 49.9 (GC)	mg/Kg	=	<u> </u>	03/27/23 11:30	1
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 80.6 sel Range Orga Result	Qualifier nics (DRO) Qualifier	RL 49.9 (GC)	mg/Kg	=	Prepared	03/27/23 11:30 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10	Result 80.6 sel Range Orga Result <49.9	Qualifier nics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9	mg/Kg Unit mg/Kg	=	Prepared 03/24/23 16:46	03/27/23 11:30 Analyzed 03/26/23 18:45	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result 80.6 Sel Range Orga Result <49.9 80.6	Qualifier nics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg	=	Prepared 03/24/23 16:46 03/24/23 16:46	03/27/23 11:30 Analyzed 03/26/23 18:45 03/26/23 18:45	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result 80.6 sel Range Orga Result <49.9 80.6 49.9	Qualifier nics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg	=	Prepared 03/24/23 16:46 03/24/23 16:46 03/24/23 16:46	03/27/23 11:30 Analyzed 03/26/23 18:45 03/26/23 18:45	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result 80.6	Qualifier nics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg	=	Prepared 03/24/23 16:46 03/24/23 16:46 03/24/23 16:46 Prepared	03/27/23 11:30 Analyzed 03/26/23 18:45 03/26/23 18:45 03/26/23 18:45 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result 80.6	Qualifier nics (DRO) Qualifier U Qualifier S1+ S1+	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg	=	Prepared 03/24/23 16:46 03/24/23 16:46 03/24/23 16:46 Prepared 03/24/23 16:46	03/27/23 11:30 Analyzed 03/26/23 18:45 03/26/23 18:45 Analyzed 03/26/23 18:45	Dil Fac 1 1 Dil Fac 1 1 Dil Fac

5.00

54.7

mg/Kg

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03/29/23 14:01

Surrogate Summary

Client: Ensolum Job ID: 890-4355-1
Project/Site: Baseball Cap 25 M CTB SDG: 03D2024151

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-4353-A-34-A MS	Matrix Spike	143 S1+	94	
890-4353-A-34-B MSD	Matrix Spike Duplicate	138 S1+	99	
890-4355-1	FS01	150 S1+	85	
390-4355-2	FS02	164 S1+	86	
390-4355-3	FS03	159 S1+	90	
390-4355-4	FS04	150 S1+	83	
890-4355-5	FS05	162 S1+	87	
390-4355-6	FS06	154 S1+	85	
_CS 880-49447/1-A	Lab Control Sample	114	102	
LCSD 880-49447/2-A	Lab Control Sample Dup	114	107	
MB 880-49447/5-A	Method Blank	92	81	
Surrogate Legend				

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Re
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-4352-A-1-B MS	Matrix Spike	79	76	
890-4355-1	FS01	113	114	
890-4355-2	FS02	97	101	
890-4355-2 MS	FS02	110	95	
890-4355-2 MSD	FS02	108	93	
890-4355-3	FS03	136 S1+	133 S1+	
890-4355-4	FS04	144 S1+	146 S1+	
890-4355-5	FS05	145 S1+	146 S1+	
890-4355-6	FS06	138 S1+	136 S1+	
LCS 880-49449/2-A	Lab Control Sample	90	100	
LCS 880-49456/2-A	Lab Control Sample	77	83	
LCSD 880-49449/3-A	Lab Control Sample Dup	81	93	
LCSD 880-49456/3-A	Lab Control Sample Dup	76	85	
MB 880-49449/1-A	Method Blank	95	104	
MB 880-49456/1-A	Method Blank	107	111	
Surrogate Legend				

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum Job ID: 890-4355-1 Project/Site: Baseball Cap 25 M CTB SDG: 03D2024151

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-49447/5-A

Matrix: Solid Analysis Batch: 49735

MD MD

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 49447

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/24/23 14:10	03/28/23 15:20	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/24/23 14:10	03/28/23 15:20	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/24/23 14:10	03/28/23 15:20	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/24/23 14:10	03/28/23 15:20	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/24/23 14:10	03/28/23 15:20	1
Xylenes, Total	< 0.00400	U	0.00400	mg/Kg		03/24/23 14:10	03/28/23 15:20	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	03/24/23 14:10	03/28/23 15:20	1
1,4-Difluorobenzene (Surr)	81		70 - 130	03/24/23 14:10	03/28/23 15:20	1

Lab Sample ID: LCS 880-49447/1-A

Matrix: Solid

Analysis Batch: 49735

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 49447

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1130		mg/Kg		113	70 - 130	
Toluene	0.100	0.09973		mg/Kg		100	70 - 130	
Ethylbenzene	0.100	0.1082		mg/Kg		108	70 - 130	
m-Xylene & p-Xylene	0.200	0.2222		mg/Kg		111	70 - 130	
o-Xylene	0.100	0.1057		mg/Kg		106	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	114	70 - 130
1,4-Difluorobenzene (Surr)	102	70 - 130

Lab Sample ID: LCSD 880-49447/2-A

Matrix: Solid

Analysis Batch: 49735

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 49447

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Limit Benzene 0.100 0.1239 mg/Kg 124 70 - 130 9 35 Toluene 0.100 0.1039 mg/Kg 104 70 - 130 4 35 Ethylbenzene 0.100 0.1134 mg/Kg 113 70 - 130 5 35 0.200 m-Xylene & p-Xylene 0.2319 mg/Kg 116 70 - 130 35 0.100 0.1103 o-Xylene mg/Kg 110 70 - 130 35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1.4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: 890-4353-A-34-A MS

Matrix: Solid

Analysis Batch: 49735

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

Prep Batch: 49447

l		Sample	Sample	Spike	MS	MS				%Rec	
	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
	Benzene	<0.00200	U	0.100	0.1071		mg/Kg		107	70 - 130	
l	Toluene	<0.00200	U	0.100	0.1079		mg/Kg		107	70 - 130	

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QC Sample Results

Client: Ensolum Job ID: 890-4355-1 Project/Site: Baseball Cap 25 M CTB SDG: 03D2024151

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

Lab Sample ID: 890-4353-A-34-A MS **Matrix: Solid**

Analysis Batch: 49735

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 0.100 Ethylbenzene <0.00200 U 0.1227 122 70 - 130 mg/Kg m-Xylene & p-Xylene < 0.00399 0.201 0.2515 mg/Kg 125 70 - 130 0.100 o-Xylene <0.00200 U 0.1199 70 - 130 mg/Kg 119

MS MS

Surrogate	%Recovery	Qualifier	Limits		
4-Bromofluorobenzene (Surr)	143	S1+	70 - 130		
1,4-Difluorobenzene (Surr)	94		70 - 130		

Lab Sample ID: 890-4353-A-34-B MSD

Matrix: Solid Analysis Batch: 49735 Client Sample ID: Matrix Spike Duplicate

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 49447

Prep Type: Total/NA

Prep Batch: 49447

Sample Sample Spike MSD MSD Result Qualifier Result Qualifier %Rec RPD Limit Analyte babbA Unit Limits 0.0996 Benzene <0.00200 U 0.1282 mg/Kg 129 70 - 130 18 35 Toluene <0.00200 0.0996 0.1114 mg/Kg 112 70 - 130 3 35 Ethylbenzene <0.00200 U 0.0996 0.1226 mg/Kg 123 70 - 130 0 35 0.199 126 70 - 130 35 m-Xylene & p-Xylene <0.00399 U 0.2519 mg/Kg 0 <0.00200 U 0.0996 0.1190 120 70 - 130 o-Xylene mg/Kg

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

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

Lab Sample ID: MB 880-49449/1-A

Matrix: Solid

Analysis Batch: 49473

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

Prep Batch: 49449

	IND	MID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/24/23 14:17	03/25/23 08:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/24/23 14:17	03/25/23 08:46	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/24/23 14:17	03/25/23 08:46	1

MB MB

MR MR

Surrogate	%Recovery Qua	alifier Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95	70 - 130	03/24/23 14:17	03/25/23 08:46	1
o-Terphenyl	104	70 - 130	03/24/23 14:17	03/25/23 08:46	1

Lab Sample ID: LCS 880-49449/2-A

Matrix: Solid

Analysis Batch: 49473

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 49449

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	891.8		mg/Kg		89	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	953.0		mg/Kg		95	70 - 130	
C10-C28)								

Job ID: 890-4355-1 Client: Ensolum Project/Site: Baseball Cap 25 M CTB SDG: 03D2024151

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

LCS LCS

%Recovery Qualifier

Lab Sample ID: LCS 880-49449/2-A

Limits

Matrix: Solid

Analysis Batch: 49473

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

Prep Batch: 49449

1-Chlorooctane 90 70 - 130 o-Terphenyl 100 70 - 130

Lab Sample ID: LCSD 880-49449/3-A

Matrix: Solid

Surrogate

Analysis Batch: 49473

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 49449

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 891.4 89 70 - 130O 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 869.7 mg/Kg 87 70 - 1309 20 C10-C28)

LCSD LCSD

Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 81 93 70 - 130 o-Terphenyl

Lab Sample ID: 890-4355-2 MS **Client Sample ID: FS02**

Matrix: Solid Prep Type: Total/NA

Analysis Batch: 49473 Prep Batch: 49449 Sample Sample MS MS Spike

Added Analyte Result Qualifier Result Qualifier Unit %Rec Limits D Gasoline Range Organics <49.9 U 999 818.7 mg/Kg 80 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 999 886.4 mg/Kg 86 70 - 130

C10-C28)

MS MS %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 110 o-Terphenyl 95 70 - 130

Lab Sample ID: 890-4355-2 MSD **Client Sample ID: FS02**

Matrix: Solid

Prep Type: Total/NA Analysis Batch: 49473

Prep Batch: 49449 Sample Sample MSD MSD %Rec RPD Spike

Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit U 998 799.4 78 Gasoline Range Organics <49.9 70 - 130 2 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 998 872.7 mg/Kg 85 70 - 130 2 20

C10-C28)

MSD MSD %Recovery Qualifier Surrogate Limits 1-Chlorooctane 108 70 - 130 93 70 - 130 o-Terphenyl

Released to Imaging: 7/20/2023 9:30:56 AM

Client: Ensolum Job ID: 890-4355-1 Project/Site: Baseball Cap 25 M CTB

SDG: 03D2024151

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

MD MD

Lab Sample ID: MB 880-49456/1-A

Matrix: Solid

Analysis Batch: 49514

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 49456

	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		03/24/23 16:46	03/26/23 08:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/24/23 16:46	03/26/23 08:27	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/24/23 16:46	03/26/23 08:27	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130			03/24/23 16:46	03/26/23 08:27	1
o-Terphenyl	111		70 - 130			03/24/23 16:46	03/26/23 08:27	1

Lab Sample ID: LCS 880-49456/2-A

Matrix: Solid

Analysis Batch: 49514

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 49456

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	882.5		mg/Kg		88	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	790.5		mg/Kg		79	70 - 130	
C10-C28)								

LCS LCS %Recovery Qualifier Limits Surrogate 1-Chlorooctane 77 70 - 130 o-Terphenyl 83 70 - 130

Lab Sample ID: LCSD 880-49456/3-A

Matrix: Solid

Analysis Batch: 49514

Client Sample ID: Lal	Control Sample Dup
-----------------------	--------------------

Prep Type: Total/NA

Prep Batch: 49456

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	935.9		mg/Kg		94	70 - 130	6	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	802.7		mg/Kg		80	70 - 130	2	20
C10-C28)									

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	76	70 - 130
o-Terphenyl	85	70 - 130

Lab Sample ID: 890-4352-A-1-B MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 49514

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Prep Type: Total/NA

Prep Batch: 49456

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.9	U	998	831.5	-	mg/Kg		79	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.9	U	998	797.6		mg/Kg		80	70 - 130	
C10-C28)										

Job ID: 890-4355-1 Client: Ensolum Project/Site: Baseball Cap 25 M CTB SDG: 03D2024151

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

Lab Sample ID: 890-4352-A-1-B MS

Matrix: Solid

Analysis Batch: 49514

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 49456

MS MS

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 79 70 - 130 o-Terphenyl 76 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-49797/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 49898

MB MB

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Chloride <5.00 5.00 mg/Kg 03/29/23 20:47

Lab Sample ID: LCS 880-49797/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 49898

LCS LCS Spike %Rec Added Qualifier Analyte Result Unit D %Rec Limits Chloride 250 262.4 105 90 - 110 mg/Kg

Lab Sample ID: LCSD 880-49797/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 49898

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier %Rec Limits RPD Limit Unit Chloride 250 261.9 105 90 - 110 mg/Kg

Lab Sample ID: 890-4349-A-8-E MSD Client Sample ID: Matrix Spike Duplicate **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 49898

Sample Sample Spike MSD MSD %Rec RPD Result Qualifier Added RPD Limit Result Qualifier %Rec Limits Analyte Unit D 252 312.6 109 90 - 110 Chloride 37.6 mg/Kg 0

Lab Sample ID: 890-4349-A-8-G MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 49898

Sample Sample Spike MS MS %Rec Result Qualifier Added Analyte Result Qualifier Unit %Rec Limits Chloride 37.6 252 313.3 mg/Kg

Lab Sample ID: MB 880-49798/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 49899

мв мв Analyte Qualifier RL Unit Prepared Analyzed Dil Fac 5.00 Chloride <5.00 mg/Kg 03/29/23 13:20

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Prep Type: Soluble

Page 16 of 29 Released to Imaging: 7/20/2023 9:30:56 AM

QC Sample Results

Client: Ensolum Job ID: 890-4355-1 Project/Site: Baseball Cap 25 M CTB

SDG: 03D2024151

Client Sample ID: FS02

Prep Type: Soluble

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-49798/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 49899

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Chloride 250 235.8 mg/Kg 94 90 - 110

Lab Sample ID: LCSD 880-49798/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 49899

Spike LCSD LCSD %Rec RPD Added Result Qualifier Limit Analyte Unit D %Rec Limits RPD Chloride 250 237.6 mg/Kg 95 90 - 110

Lab Sample ID: 890-4355-2 MS Client Sample ID: FS02 **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 49899

MS MS %Rec Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 53.9 252 310.7 102 90 - 110 mg/Kg

Lab Sample ID: 890-4355-2 MSD

Matrix: Solid

Analysis Batch: 49899

Sample Sample MSD MSD RPD Spike %Rec Analyte Result Qualifier Added Qualifier Unit %Rec RPD Limit Result Limits 252 Chloride 53.9 313.7 103 90 - 110 20 mg/Kg

QC Association Summary

Client: Ensolum

Project/Site: Baseball Cap 25 M CTB

Job ID: 890-4355-1 SDG: 03D2024151

GC VOA

Prep Batch: 49447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4355-1	FS01	Total/NA	Solid	5035	
890-4355-2	FS02	Total/NA	Solid	5035	
890-4355-3	FS03	Total/NA	Solid	5035	
890-4355-4	FS04	Total/NA	Solid	5035	
890-4355-5	FS05	Total/NA	Solid	5035	
890-4355-6	FS06	Total/NA	Solid	5035	
MB 880-49447/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-49447/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-49447/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4353-A-34-A MS	Matrix Spike	Total/NA	Solid	5035	
890-4353-A-34-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 49735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4355-1	FS01	Total/NA	Solid	8021B	49447
890-4355-2	FS02	Total/NA	Solid	8021B	49447
890-4355-3	FS03	Total/NA	Solid	8021B	49447
890-4355-4	FS04	Total/NA	Solid	8021B	49447
890-4355-5	FS05	Total/NA	Solid	8021B	49447
890-4355-6	FS06	Total/NA	Solid	8021B	49447
MB 880-49447/5-A	Method Blank	Total/NA	Solid	8021B	49447
LCS 880-49447/1-A	Lab Control Sample	Total/NA	Solid	8021B	49447
LCSD 880-49447/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	49447
890-4353-A-34-A MS	Matrix Spike	Total/NA	Solid	8021B	49447
890-4353-A-34-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	49447

Analysis Batch: 49845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4355-1	FS01	Total/NA	Solid	Total BTEX	
890-4355-2	FS02	Total/NA	Solid	Total BTEX	
890-4355-3	FS03	Total/NA	Solid	Total BTEX	
890-4355-4	FS04	Total/NA	Solid	Total BTEX	
890-4355-5	FS05	Total/NA	Solid	Total BTEX	
890-4355-6	FS06	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 49449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4355-1	FS01	Total/NA	Solid	8015NM Prep	
890-4355-2	FS02	Total/NA	Solid	8015NM Prep	
MB 880-49449/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-49449/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-49449/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4355-2 MS	FS02	Total/NA	Solid	8015NM Prep	
890-4355-2 MSD	FS02	Total/NA	Solid	8015NM Prep	

Prep Batch: 49456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4355-3	FS03	Total/NA	Solid	8015NM Prep	
890-4355-4	FS04	Total/NA	Solid	8015NM Prep	

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3/30/2023

QC Association Summary

Client: Ensolum
Project/Site: Baseball Cap 25 M CTB

Job ID: 890-4355-1 SDG: 03D2024151

GC Semi VOA (Continued)

Prep Batch: 49456 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4355-5	FS05	Total/NA	Solid	8015NM Prep	
890-4355-6	FS06	Total/NA	Solid	8015NM Prep	
MB 880-49456/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-49456/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-49456/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4352-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	

Analysis Batch: 49473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4355-1	FS01	Total/NA	Solid	8015B NM	49449
890-4355-2	FS02	Total/NA	Solid	8015B NM	49449
MB 880-49449/1-A	Method Blank	Total/NA	Solid	8015B NM	49449
LCS 880-49449/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	49449
LCSD 880-49449/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	49449
890-4355-2 MS	FS02	Total/NA	Solid	8015B NM	49449
890-4355-2 MSD	FS02	Total/NA	Solid	8015B NM	49449

Analysis Batch: 49514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4355-3	FS03	Total/NA	Solid	8015B NM	49456
890-4355-4	FS04	Total/NA	Solid	8015B NM	49456
890-4355-5	FS05	Total/NA	Solid	8015B NM	49456
890-4355-6	FS06	Total/NA	Solid	8015B NM	49456
MB 880-49456/1-A	Method Blank	Total/NA	Solid	8015B NM	49456
LCS 880-49456/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	49456
LCSD 880-49456/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	49456
890-4352-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	49456

Analysis Batch: 49618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4355-1	FS01	Total/NA	Solid	8015 NM	
890-4355-2	FS02	Total/NA	Solid	8015 NM	
890-4355-3	FS03	Total/NA	Solid	8015 NM	
890-4355-4	FS04	Total/NA	Solid	8015 NM	
890-4355-5	FS05	Total/NA	Solid	8015 NM	
890-4355-6	FS06	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 49797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4355-1	FS01	Soluble	Solid	DI Leach	
MB 880-49797/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-49797/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-49797/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4349-A-8-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
890-4349-A-8-G MS	Matrix Spike	Soluble	Solid	DI Leach	

Leach Batch: 49798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4355-2	FS02	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Ensolum Job ID: 890-4355-1 Project/Site: Baseball Cap 25 M CTB SDG: 03D2024151

HPLC/IC (Continued)

Leach Batch: 49798 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4355-3	FS03	Soluble	Solid	DI Leach	
890-4355-4	FS04	Soluble	Solid	DI Leach	
890-4355-5	FS05	Soluble	Solid	DI Leach	
890-4355-6	FS06	Soluble	Solid	DI Leach	
MB 880-49798/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-49798/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-49798/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4355-2 MS	FS02	Soluble	Solid	DI Leach	
890-4355-2 MSD	FS02	Soluble	Solid	DI Leach	

Analysis Batch: 49898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4355-1	FS01	Soluble	Solid	300.0	49797
MB 880-49797/1-A	Method Blank	Soluble	Solid	300.0	49797
LCS 880-49797/2-A	Lab Control Sample	Soluble	Solid	300.0	49797
LCSD 880-49797/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	49797
890-4349-A-8-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	49797
890-4349-A-8-G MS	Matrix Spike	Soluble	Solid	300.0	49797

Analysis Batch: 49899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4355-2	FS02	Soluble	Solid	300.0	49798
890-4355-3	FS03	Soluble	Solid	300.0	49798
890-4355-4	FS04	Soluble	Solid	300.0	49798
890-4355-5	FS05	Soluble	Solid	300.0	49798
890-4355-6	FS06	Soluble	Solid	300.0	49798
MB 880-49798/1-A	Method Blank	Soluble	Solid	300.0	49798
LCS 880-49798/2-A	Lab Control Sample	Soluble	Solid	300.0	49798
LCSD 880-49798/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	49798
890-4355-2 MS	FS02	Soluble	Solid	300.0	49798
890-4355-2 MSD	FS02	Soluble	Solid	300.0	49798

Client: Ensolum

Job ID: 890-4355-1 Project/Site: Baseball Cap 25 M CTB SDG: 03D2024151

Client Sample ID: FS01 Lab Sample ID: 890-4355-1

Date Collected: 03/17/23 11:05 **Matrix: Solid** Date Received: 03/17/23 16:34

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	49447	03/24/23 14:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49735	03/28/23 23:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49845	03/29/23 12:47	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49618	03/27/23 11:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49449	03/24/23 14:17	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49473	03/25/23 12:44	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	49797	03/29/23 09:37	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49898	03/29/23 23:12	SMC	EET MID

Client Sample ID: FS02 Lab Sample ID: 890-4355-2

Date Collected: 03/17/23 11:10 **Matrix: Solid** Date Received: 03/17/23 16:34

Dil Initial Final Batch Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 Total/NA 5.01 g 5 mL 49447 03/24/23 14:10 MNR EET MID Total/NA 8021B **EET MID** Analysis 1 5 mL 5 mL 49735 03/29/23 00:07 MNR Total/NA Total BTEX 49845 Analysis 03/29/23 12:47 A.I **EET MID** 1 Total/NA Analysis 8015 NM 49618 03/27/23 11:26 SM **EET MID** Total/NA AJ Prep 8015NM Prep 10.02 g 49449 03/24/23 14:17 EET MID 10 mL Total/NA Analysis 8015B NM 1 uL 1 uL 49473 03/25/23 11:38 SM **EET MID** Soluble Leach DI Leach 4.97 g 50 mL 49798 03/29/23 09:38 KS **EET MID** Soluble Analysis 300.0 50 mL 50 mL 49899 03/29/23 13:34 SMC **EET MID**

Client Sample ID: FS03 Lab Sample ID: 890-4355-3 Date Collected: 03/17/23 11:15 **Matrix: Solid**

Date Received: 03/17/23 16:34

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	49447	03/24/23 14:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49735	03/29/23 00:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49845	03/29/23 12:47	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49618	03/27/23 11:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49456	03/24/23 16:46	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49514	03/26/23 17:39	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	49798	03/29/23 09:38	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49899	03/29/23 13:48	SMC	EET MID

Lab Sample ID: 890-4355-4 **Client Sample ID: FS04** Date Collected: 03/17/23 13:20 **Matrix: Solid**

Date Received: 03/17/23 16:34

	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	49447	03/24/23 14:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49735	03/29/23 00:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49845	03/29/23 12:47	AJ	EET MID

Client: Ensolum

Project/Site: Baseball Cap 25 M CTB

Job ID: 890-4355-1

SDG: 03D2024151

Client Sample ID: FS04

Date Collected: 03/17/23 13:20 Date Received: 03/17/23 16:34 Lab Sample ID: 890-4355-4

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			49618	03/27/23 11:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	49456	03/24/23 16:46	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49514	03/26/23 18:01	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	49798	03/29/23 09:38	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49899	03/29/23 13:52	SMC	EET MID

Client Sample ID: FS05 Lab Sample ID: 890-4355-5

Date Collected: 03/17/23 13:25 Date Received: 03/17/23 16:34

Matrix: Solid

	Batch			Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	un Factor An		Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	49447	03/24/23 14:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49735	03/29/23 01:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49845	03/29/23 12:47	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49618	03/27/23 11:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49456	03/24/23 16:46	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49514	03/26/23 18:23	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	49798	03/29/23 09:38	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49899	03/29/23 13:57	SMC	EET MID

Client Sample ID: FS06 Lab Sample ID: 890-4355-6

Date Collected: 03/17/23 13:30 Date Received: 03/17/23 16:34 **Matrix: Solid**

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	49447	03/24/23 14:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49735	03/29/23 01:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49845	03/29/23 12:47	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49618	03/27/23 11:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49456	03/24/23 16:46	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49514	03/26/23 18:45	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	49798	03/29/23 09:38	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49899	03/29/23 14:01	SMC	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-4355-1 Project/Site: Baseball Cap 25 M CTB SDG: 03D2024151

Laboratory: Eurofins Midland

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

Authority		ogram	Identification Number	Expiration Date
Texas	NI	ELAP	T104704400-22-25	06-30-23
The following analytes the agency does not of	• •	ut the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes for whic
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	

Method Summary

Client: Ensolum

Project/Site: Baseball Cap 25 M CTB

Job ID: 890-4355-1 SDG: 03D2024151

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum

Project/Site: Baseball Cap 25 M CTB

Job ID: 890-4355-1

SDG: 03D2024151

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4355-1	FS01	Solid	03/17/23 11:05	03/17/23 16:34	1.0
890-4355-2	FS02	Solid	03/17/23 11:10	03/17/23 16:34	1.0
890-4355-3	FS03	Solid	03/17/23 11:15	03/17/23 16:34	1.0
890-4355-4	FS04	Solid	03/17/23 13:20	03/17/23 16:34	1.0
890-4355-5	FS05	Solid	03/17/23 13:25	03/17/23 16:34	1.0
890-4355-6	FS06	Solid	03/17/23 13:30	03/17/23 16:34	1.0

-0

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Received by OCD: 4/24/2023 11:28:10 AM

Environment Testing

Xenca

Chain of Custody

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

Work Order No:	

www.xenco.com

Project Manager:	Hadlie	adlie Green				Bill to: (if	different)	Hadlie	e Gree	n						Work Order Comments										
Company Name:	Ensol	um, LLC				Compan	y Name	:	Ensol	um, LL	.C						Prog	ram: l	ST/PS	T	PRP	Brow	nfields 🗌 Ri	RC 🗌 Si	perfund [
Address:	601 N	I Marienfe	ld St S	uite 400		Address			601 N	l Marie	nfeld :	St Suit	e 400					of Pr	•						_		
City, State ZIP:	Midla	nd, TX 79	701			City, Sta	te ZIP:		Midla	nd, TX	79701						Reporting: Level II Level III PST/UST TRRP Level IV										
Phone:		57-8895			Email:	hgreen		lum.c	om								Deliv	erable	EDE			ADaP	T 🗆 01	her:			
Project Name:		Baseball (Cap 25	м ств	Turn	Around					ANALYSIS REQUEST								Preservative Codes								
Project Number:			202415		☑ Routine	Rush		Pres.															None: NO	DI V	Vater: H₂O		
Project Location:	32.1839,-103.4289 Due Date:																					Cool: Cool	Me	DH: Me			
Sampler's Name:	Peter Van Patten TAT starts the day received by															ļ					HCL: HC		D ₃ : HN				
PO#:	the lab, if received by 4:30pm					5							l		1 1 1 1						H ₂ S0 ₄ : H ₂	Na)H: Na				
SAMPLE RECEI	PT	Temp B	lank:	Yes No	Wet Ice:	Yes	No	mete	6				11111	H HITCHAN		MININ	unul					H₃PO₄: HP					
Samples Received In	tact:			Thermometer	ID:	Thre	000	ara	300.0)				11111			HILL	Ш	MW.					NaHSO₄: NABIS				
Cooler Custody Seals		Yes No	N/A	Correction Fa	ctor:	-0		à	(EPA:				- 11111			1111	Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaOH: Zn										
Sample Custody Sea	is:	Yes No		Temperature		3.			S (E		=		111111	4355	Chain	of Cu	Custody						Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC				
Total Containers:				Corrected Te	mperature:	3			ORIDES	015	(802		890	-4355	Criairi	0.						NaOH+Ascorbic Acid: SAPC					
Sample Iden	tificati	lon	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp		1 5	TPH (8015)	BTEX (8021)												Samp	le Comr	nents		
FS0	1		Soil	3/17/2023	1105	1.0'	Comp	1	х	х	х																
FS0	2		Soil	3/17/2023	1110	1.0'	Comp	1	x	х	х								ļ			_					
FS0	3		Soil	3/17/2023	1115	1.0'	Comp	1	x	х	х											_					
FS0	4		Soil	3/17/2023	1320	1.0'	Comp	1	х	х	х											_					
FS0	5		Soil	3/17/2023	1325	1.0'	Comp	1	х	×	х											-					
FS0	FS06 Soil 3/17/2023 1330 1.0' Comp				1	х	x	х							ļ	-		<u> </u>	-	-							
					3/1/	1	#																				
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																			<u> </u>	<u> </u>		<u></u>					
Total 200 7 / 60	10	200 8 / 6	020.	QI	DCDA 12D	DM To	vac 11	AI C	Sh Ac	Ra F	R as	Cd C	a Cr	Co C	II Fe	Ph I	Λα N	n Mo	Ni K	Se /	Aa Si	iO ₂ N	a Sr Tl Sn	u v Zr			

Total 200.7 / 6010 Circle Method(s) and Metal(s) to be analyzed

TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U Hg: 1631 / 245.1 / 7470 / 7471

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 For Un Fath	Donarda Stut	3/17/23/68	4		
3		1	4		
5			6		

1211 W Florida Ave

Midland TX 79701

Eurofins Midland

Chain of Custody Record



💸 eurofins

Environment Testing

3/30/2023

Page 27 of 29

Released to Imaging: 7/20/2023 9:30:56 AM

Phone. 432-704-5440					BC/28								•	Within Cities of	resung						
Client Information (Sub Contract Lab)	Sampler:				o PM amer	r Jes	sica						Carr	er Trackir	ng No(s))			OC No ⁻ 80-6566 1		
Client Contact: Shipping/Receiving	Phone:				Mail ssica	Kra	mer(@et.∈	eurofi	insus	com			of Origin				Pa	age 1 of 1		
Company Eurofins Environment Testing South Centr						credit ELAF		Requexas	ired (S	See no	ote)							1.	90-4355-1		
Address 1211 W Florida Ave	Due Date Requeste 3/23/2023	ed								Ar	nalys	is Re	que	sted				P	reservation Code	s M Hexane	
City Midland	TAT Requested (da	ays) [.]									T						20,0100	В	NaOH 7 Acetate	N None O AsNaO2	
State Zip TX 79701							Ŧ											D	Nitric Acid NaHSO4	P Na2O4S Q Na2SO3 R Na2S2O3	
Phone 432-704-5440(Tel)	-704-5440(Tel)						O) Full		e								- Comment	G	Amchlor Ascorbic Acid	S H2SO4 T TSP Dodecahy	ydrate
Email			N N	Ş.	OW) de		Chlori	втех							100	ا ا	ice Di Water	U Acetone V - MCAA W pH 4-5			
Project Name Baseball Cap 25 M CTB	Project #- 89000094					SD (Yes or I	S_Pre		EACH	B (GO							container	L L	FDA	Y - Trizma Z other (specify))
Site	SSOW#	SOW#							ם/ס	Salc (M	>				-		of con		ther		
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	G=grab) _{BT}			Perform MS/M:	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	8015MOD_Caic	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc (MOD)	Total_BTEX_GCV						Total Number		Special Ins	structions/Note	e
		11 05	Preservation	n Code:	<u> </u>	X				intro-						1_1	_ ×	4_			
FS01 (890-4355-1)	3/17/23	Mountain 11 10		Solid	1	Ш	Х	Х	Х	Х	Х		<u> </u>				1				
FS02 (890-4355-2)	3/17/23	Mountain 11 15		Solid	\bot		Х	Х	Х	Х	X		-				1				
FS03 (890-4355-3)	3/17/23	Mountain 13 20		Solid	\bot		Х	Х	Х	Х	Х				_		1				
FS04 (890-4355-4)	3/17/23	Mountain 13 25		Solid	_		Х	Х	Х	Х	X	_	1				1				
FS05 (890-4355-5)	3/17/23	Mountain 13 30		Solid	_		Х	Х	Х	Х	Х		1		_		1	H			
FS06 (890-4355-6)	3/17/23	Mountain		Solid	_	_	Х	Х	Х	Х	Х		-				1				
					-	<u> </u>									_	1	4 3 3 5 5	1		· · · · · · · · · · · · · · · · · · ·	
					\bot							_			_						
Note Since laboratory accreditations are subject to change Eurofins Environment laboratory does not currently maintain accreditation in the State of Origin listed ab accreditation status should be brought to Eurofins Environment Testing South Cer Possible Hazard Identification						pped Irrent 1	back to date	to the i e, retu	Eurofi m the	ns En signe	vironmed Chair	ent Testi n of Cust	ng Sou tody att	th Central esting to	l LLC la said cor	npliance	or othe to Euro	er ins ofins	structions will be prov Environment Testing	vided Any change g South Central LL	
Unconfirmed						Sar		Disp eturn						ssed if a ssal By		es are	_		i longer than 1 r e For	•	
iverable Requested I II III IV Other (specify) Primary Deliverable Rank 2					***********	Spe	***************************************		_			quireme		Sai by i	Lau		AIC	HIV	9 FOI	Months	
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Relinquished by Date/Time: Company						Received by Date/Time							Company								
Custody Seals Intact: Custody Seal No							Coole	er Tem	perati	ure(s)	°C and	Other R	Remarks								***************************************

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4355-1 SDG Number: 03D2024151

Login Number: 4355 List Source: Eurofins Carlsbad

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 True tampered with. Samples were received on ice. True True Cooler Temperature is acceptable. 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 True HTs) 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 N/A Sample Preservation Verified. There is sufficient vol. for all requested analyses, incl. any requested True MS/MSDs Containers requiring zero headspace have no headspace or bubble is N/A

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4.0

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<6mm (1/4").

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4355-1 SDG Number: 03D2024151

Login Number: 4355
List Source: Eurofins Midland
List Number: 2
List Creation: 03/21/23 11:22 AM

Creator: Teel, Brianna

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

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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

Responsible Party

State of New Mexico Energy Minerals and Natural Resources Department

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

OGRID

Contact Name Co			Contact Te	elephone				
Contact email			Incident #	(assigned by OCD)				
Contact mailing address								
	Location of Release Source							
Latitude			(NAD 83 in de	ecimal de	Longitude _ grees to 5 decim	nal places)		
Site Name					Site Type			
Date Release	Discovered				API# (if app	licable)		
Unit Letter	Section	Township	Range		Coun	ty		
Crude Oil	Material	Federal Tr	Nature and	d Vo	lume of I			ow)
Produced	Water	Volume Release	d (bbls)			Volume Recov	vered (bbls)	
		Is the concentration of dissolved chloride produced water >10,000 mg/l?		e in the	Yes No			
Condensa		Volume Released (bbls)			Volume Recovered (bbls)			
Natural G				Volume Recov	` ′			
Other (dea	Other (describe) Volume/Weight Released (provide units) Volume/Weight Recovered (provide units)			vide units)				
Cause of Rele	ease							

Received by OCD: 4/24/2023 11:28:10 AM State of New Mexico
Page 2 Oil Conservation Division

	PageHAJeof 18	36
Incident ID		
District RP		
Facility ID		
Application ID		

Was this a major If release as defined by	YES, for what reason(s) does the respon	sible party consider this a major release?
19.15.29.7(A) NMAC?		
☐ Yes ☐ No		
If YES, was immediate notic	e given to the OCD? By whom? To wh	om? When and by what means (phone, email, etc)?
	Initial Re	esponse
The responsible party	y must undertake the following actions immediately	unless they could create a safety hazard that would result in injury
☐ The source of the release	e has been stopped.	
☐ The impacted area has be	een secured to protect human health and	the environment.
Released materials have	been contained via the use of berms or d	ikes, absorbent pads, or other containment devices.
All free liquids and recov	verable materials have been removed and	I managed appropriately.
If all the actions described ab	bove have <u>not</u> been undertaken, explain v	vhy:
has begun, please attach a na	arrative of actions to date. If remedial e	emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred lease attach all information needed for closure evaluation.
regulations all operators are requ public health or the environment failed to adequately investigate a	uired to report and/or file certain release notiful. The acceptance of a C-141 report by the O and remediate contamination that pose a threa	best of my knowledge and understand that pursuant to OCD rules and fications and perform corrective actions for releases which may endanger CD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws
Printed Name		Title:
Signature:	metoparge _	Date:
email:		Telephone:
OCD Only Jocelyn	Harimon	01/30/2023
Received by:		Date:

Spill Calculation - On-Pad Surface Pool Spill Received by OCD: 4/24/2023 11:28:10 AM NAPP2303037207 Estimated Pool Estimated volume Penetration Total Estimated Volume of Convert Irregular shape into a Average Depth Length Width of each pool area allowance Spill Area series of rectangles (ft.) (ft.) (in.) (bbl.) (sq. ft.) (bbl.) (ft.) Rectangle A 30.00 42.00 0.10 1260.00 1.87 0.00 1.87 Rectangle B 0.10 858.00 1.27 1.27 33.00 26.00 0.00 0.00 0.00 0.00 Rectangle C 0.00 Rectangle D 0.00 0.00 0.00 0.00 Rectangle E 0.00 0.00 0.00 0.00 Rectangle F 0.00 0.00 0.00 0.00 Rectangle G 0.00 0.00 0.00 0.00

0.00

0.00

0.00

0.00

0.00

0.00

Total Surface Pool Volume Released, Release to Soil/Caliche:

0.00

0.00

0.00

0.00

0.00

0.00

3.14

Rectangle H

Rectangle I

Doctorale

Released to Imaging: 7/20/2023 9:30:56 AM

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

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

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

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

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

CONDITIONS

Action 180607

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	180607
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
jharimon	None	1/31/2023

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ate of New Mexico

Incident ID	NAPP2303037207
District RP	
Facility ID	fAPP2135130425
Application ID	

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 well Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information 	ls.	

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

Topographic/Aerial maps

□ Laboratory data including chain of custody

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Page 4 Oil Conservation Division

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Incident ID	NAPP2303037207	
District RP		

fAPP2135130425

Facility ID

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: _Jacob Laird_______ Title: _Environmental Engineer______

Signature: Jacob Laird	Date:04/26/2023
email: _Jacob.Laird@conocophillips.com	Telephone:575-703-5482
OCD Only Received by:Jocelyn Harimon	Date: <u>04/24/2023</u>

Mexico Page 182 of 186

Incident ID	NAPP2303037207
District RP	
Facility ID	fAPP2135130425
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.

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

A scaled site and sampling diagram as described in 19.15.29.11 NMAC		
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)		
☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 d	ays prior to final sampling)	
□ Description of remediation activities		
I hereby certify that the information given above is true and complete to the best of my knowledge and and regulations all operators are required to report and/or file certain release notifications and perform of may endanger public health or the environment. The acceptance of a C-141 report by the OCD does no should their operations have failed to adequately investigate and remediate contamination that pose a the human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the compliance with any other federal, state, or local laws and/or regulations. The responsible party acknown restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the releast accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetate Printed Name: _Jacob Laird	corrective actions for releases which trelieve the operator of liability reat to groundwater, surface water, operator of responsibility for wledges they must substantially ase or their final land use in ation are complete.	
OCD Only		
Received by: Jocelyn Harimon Date:04/26/2023		
Closure approval by the OCD does not relieve the responsible party of liability should their operations h remediate contamination that poses a threat to groundwater, surface water, human health, or the environm party of compliance with any other federal, state, or local laws and/or regulations.		
Closure Approved by: Nelson Velez Printed Name: Date: 07/20/2023 Title: Environmenta		
Printed Name: Nelson Velez Title:Environmenta	al Specialist - Adv	
_		



APPENDIX E

NMOCD Notifications

From: Enviro, OCD, EMNRD

To: Hadlie Green

 Cc:
 Nobui, Jennifer, EMNRD; Bratcher, Michael, EMNRD

 Subject:
 RE: [EXTERNAL] Sampling Notification (Week of 3/6/2023)

Date: Wednesday, March 1, 2023 5:17:02 PM

Attachments: <u>image006.png</u>

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.

JH

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 1, 2023 8:43 AM

To: Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov>

Cc: Kalei Jennings <kjennings@ensolum.com>

Subject: [EXTERNAL] Sampling Notification (Week of 3/6/2023)

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 6, 2023.

- Baseball Cap 25 M CTB / NAPP2303037207
- Wild Cobra 1 State 002H / NAPP2233946889
- Cabo Wabo Federal Com 705H / NAPP2236129464

Thank you,



Hadlie Green Staff Geologist 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

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

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

CONDITIONS

Action 210116

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	210116
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	7/20/2023