

May 18, 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

Jazzmaster 17 State 003H Incident Number nAPP2306543550 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 Jazzmaster 17 State 003H (Site). The purpose of the Site assessment, excavation, and soil sampling activities was to address impacts to soil following a release of crude oil and produced water within lined containment and overspray onto the surrounding pasture area at the Site. Based on field observations, excavation activities, and soil sample laboratory analytical results, COG is submitting this *Closure Request*, describing Site assessment and excavation activities that have occurred and requesting no further action and closure for Incident Number nAPP2306543550.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit B, Section 17, Township 23 South, Range 33 East, in Lea County, New Mexico (32.3111°, -103.5922°) and is associated with oil and gas exploration and production operations on New Mexico State Land.

On February 21, 2023, a gasket failure resulted in the release of approximately 7.1 barrels (bbls) of crude oil and 7.1 bbls of produced water into lined secondary containment and overspray onto the surrounding pasture area. A vacuum truck was dispatched to the Site to recover free-standing fluids; approximately 4.2 bbls of crude oil and 4.2 bbls of produced water were recovered. COG reported the release immediately via email to the New Mexico Oil Conservation Division (NMOCD) and submitted a *Release Notification Form C-141* (Form C-141) on March 6, 2023. The release was assigned Incident Number nAPP2306543550.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized for 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.

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

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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 United States Geological Survey (USGS) well 321746103352301, located approximately 1-mile south of the Site. The groundwater well has a reported depth to groundwater of 470.5 feet bgs and a total depth of 550 feet bgs. Ground surface elevation at the groundwater well location is 3,699 feet above mean sea level (amsl), which is approximately 7 feet lower in elevation than the Site. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a riverine, located approximately 2,440 feet southeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

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

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

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

SITE ASSESSMENT ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On March 1, 2023, Ensolum personnel were at the Site to complete preliminary assessment activities based on visible staining in the overspray pasture area and information provided by the C-141. Soil samples SS01 through SS04 were collected around the overspray pasture release extent at a depth of 0.5 feet bgs to confirm the lateral extent of the release. Soil samples SS05 through SS12 were collected within the overspray area at a depth of 0.5 feet bgs to assess the surficial soil within the release extent. Soil from the assessment samples was field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. The release extent and soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was conducted at the Site. A photographic log is included as Appendix B.

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



COG Operating, LLC Closure Request Jazzmaster 17 State 003H May 18, 2023

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Laboratory analytical results for soil samples SS01 through SS04 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 soil samples SS05 through SS11, collected at 0.5 feet bgs and within the pasture overspray extent, indicated all COC concentrations were compliant with the Site Closure Criteria and reclamation requirement. Laboratory analytical results for soil sample SS12, collected at 0.5 feet bgs and within the pasture overspray extent, indicated chloride concentrations exceeded the reclamation requirement. Based on visible staining and laboratory analytical results for soil sample SS12, excavation activities were warranted.

LINER INTEGRITY INSPECTION ACTIVITIES

A 48-hour advance notice of the liner inspection was provided via email to the NMOCD District I office on March 15, 2023. A liner integrity inspection was conducted by Ensolum personnel on March 20, 2023, to confirm that the liner was operating as designed. The liner was visually inspected and no rips, holes, or damage to the liner was observed. The liner was determined to be in good working condition. Photographic documentation was conducted at the Site. A photographic log is included as Appendix B.

EXCAVATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On April 27, 2023, Ensolum personnel returned to the Site to oversee excavation activities based on visible staining in the pasture overspray area and laboratory analytical results for soil sample SS12. Excavation activities were performed using a backhoe, hand shoveling, 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 stained soil, 5-point composite soil samples were collected every 200 square feet from the floor of the excavation. 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 the excavation, the sidewalls were incorporated into the floor samples. Composite soil samples FS01 through FS05 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 excavation soil samples FS01 through FS05 indicated all COC concentrations were compliant with the Site Closure Criteria and reclamation requirement. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included as Appendix C.

The excavation area measured approximately 970 square feet. A total of 36 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. The excavation will be backfilled with locally sourced topsoil and contoured to match the surrounding grade. The disturbed pasture area will be seeded with an approved seed mix.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the February 21, 2023, crude oil and produced water release within lined containment and overspray onto the surrounding pasture. Upon inspection, the liner was determined to be sufficient. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated all COCs were compliant



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with the Site Closure Criteria and reclamation requirement. Based on the soil sample analytical results, no further remediation was required.

Initial response efforts and excavation of impacted soil have mitigated impacts at this Site. Depth to groundwater has been estimated to be greater than 100 feet bgs and no other sensitive receptors were identified near the release extent. COG believes these remedial actions are protective of human health, the environment, and groundwater. As such, COG respectfully requests closure for Incident Number nAPP2306543550.

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

Sincerely, **Ensolum, LLC**

4 Aadlie Green

Project Geologist

Daniel R. Moir, PG

Senior Managing Geologist

cc: Jacob Laird, COG Operating, LLC

New Mexico State Land Office

Appendices:

Figure 1 Site Receptor Map

Figure 2 Preliminary 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

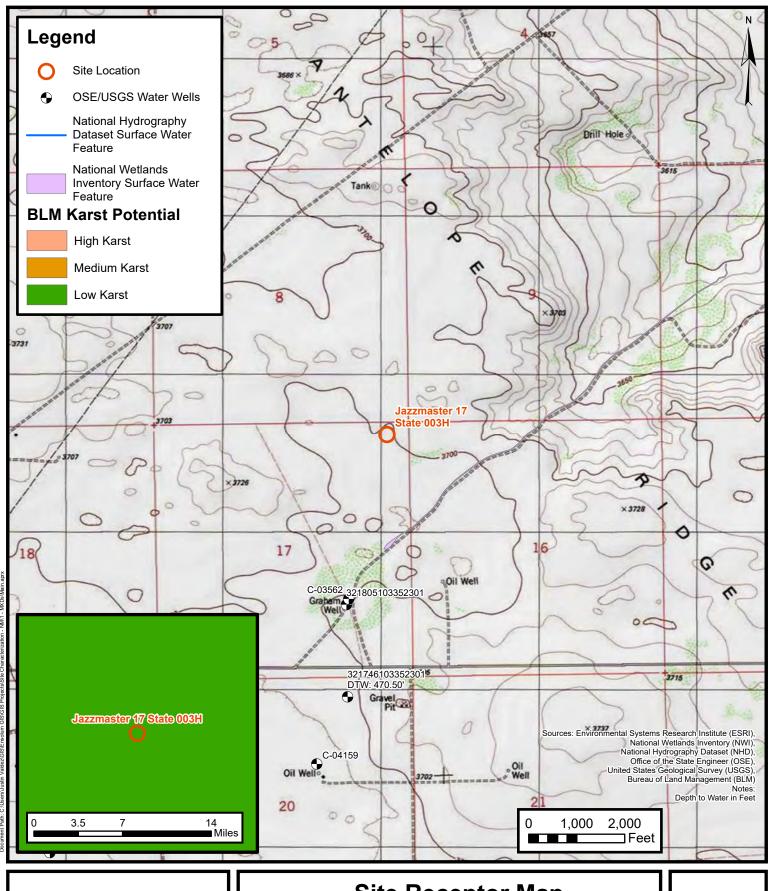
Appendix D NMOCD Notifications

Appendix E Final C-141





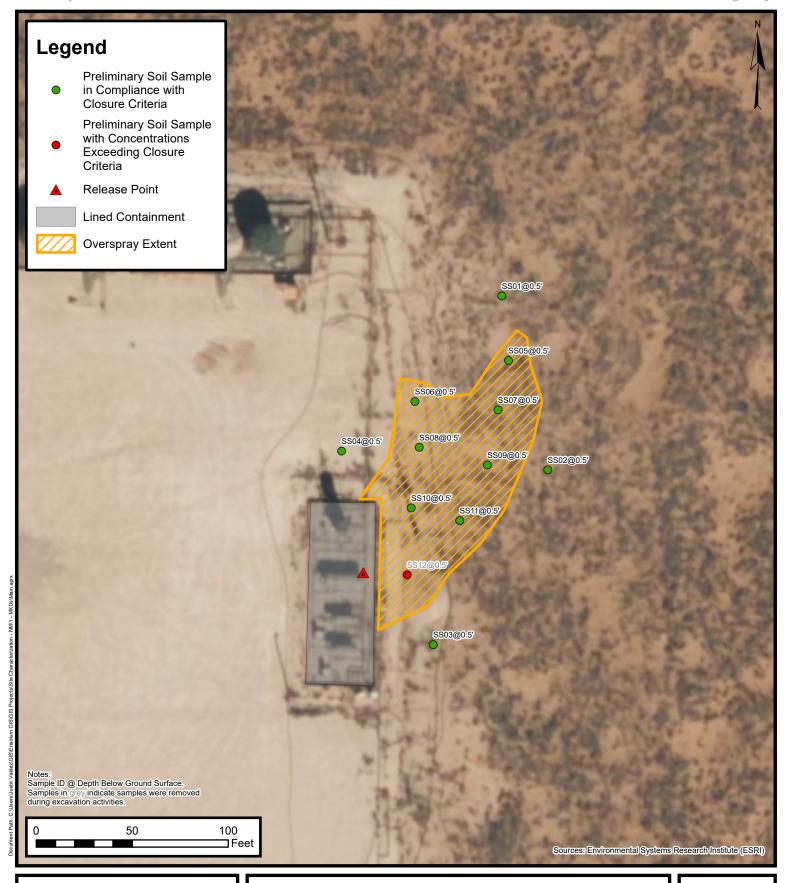
FIGURES





Site Receptor Map

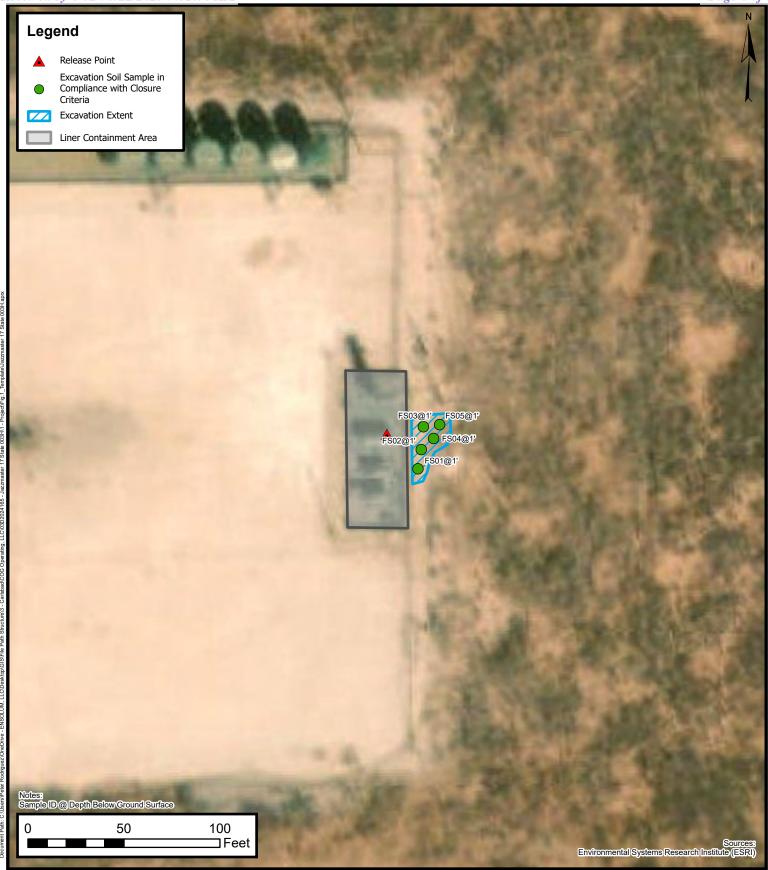
COG Operating, LLC Jazzmaster 17 State 003H Incident Number: nAPP2306543550 Unit B, Sec 17, T23S, R33E Lea County, New Mexico FIGURE





Preliminary Soil Sample Locations

COG Operating, LLC Jazzmaster 17 State 003H Incident Number: nAPP2306543550 Unit B, Sec 17, T23S, R33E Lea County, New Mexico FIGURE





Excavation Soil Sample Locations

COG Operating, LLC
Jazzmaster 17 State 003H
Incident Number: NAPP2306543550

Unit B, Sec. 17, T263, R33E Lea County, New Mexico **FIGURE**



TABLES



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Jazzmaster 17 State 003H

COG Operating, LLC

				Lea	County, New Me								
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)			
NMOCD Table I	NMOCD Table I Closure Criteria (NMAC 19.15.29)			50	NE	NE	NE	1,000	2,500	10,000			
	Preliminary Assessment Soil Samples												
SS01 03/01/2023 0.5 <0.00200 <0.00401 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 51.3													
SS02	03/01/2023	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	50.7			
SS03	03/01/2023	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	46.2			
SS04	03/01/2023	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	69.1			
SS05	03/01/2023	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	48.0			
SS06	03/01/2023	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	62.1			
SS07	03/01/2023	0.5	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	61.6			
SS08	03/01/2023	0.5	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	49.9			
SS09	03/01/2023	0.5	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	54.8			
SS10	03/01/2023	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	55.6			
SS11	03/01/2023	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	61.3			
SS12	03/01/2023	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	5,590			
				Excava	ation Floor Soil S	amples							
FS01	04/27/2023	1	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	72.8			
FS02	04/27/2023	1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	66.1			
FS03	04/27/2023	1	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	69.1			
FS04	04/27/2023	1	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	64.3			
FS05	04/27/2023	1	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	65.0			

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

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

Grey text represents samples that have been excavated

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APPENDIX A

Referenced Well Records

Lea County, New Mexico
Latitude 32°17'46", Longitude 103°35'23" NAD27
Land-surface elevation 3,699 feet above NAVD88
The depth of the well is 550 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

Output formats	
Table of data	11
Tab-separated data	
Graph of data	
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Date 0	Time \$	Water-level date-time accuracy	Parameter Code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical \$ datum	Ø Status	Method of the measurement	Measuring ≎ agency	Source of the measurement	Water-level approval status
1972-09-21		D	62610		3192.86	NGVD29	1	Ž			A
1972-09-21		D	62611		3194.60	NAVD88	1	Z			A
1972-09-21		D	72019	504.40			1	Z			A
1976-12-08		D	62610		3226.76	NGVD29	i	Z			A
1976-12-08		D	62611		3228,50	NAVD88	1	Z			À
1976-12-08		D	72019	470.50			1	Z			.A.

Explanation **♦** Code Description Section Water-level date-time accuracy D Date is accurate to the Day Groundwater level above NGVD 1929, feet Parameter code 62610 Parameter code 62611 Groundwater level above NAVD 1988, feet 72019 Depth to water level, feet below land surface Parameter code Referenced vertical datum NAVD88 North American Vertical Datum of 1988 Referenced vertical datum NGVD29 National Geodetic Vertical Datum of 1929 Static Status Method of measurement Other. Measuring agency Not determined Source of measurement Not determined W. Released to Imaging: 5/23/2023 2:28:51 PM Approved for publication -- Processing and review completed.



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

STATE ENGINEER OFFICE ROSVIII

PAGE 1 OF 2

OSE FILE NUMBER(S) POD NUMBER (WELL NUMBER) R. GENERAL AND WELL LOCATION 882leC DEGREES MINUTES SECONDS WELL ACCURACY REQUIRED: ONE TENTH OF A SECOND 34. 2. /୪ LOCATION LATITUDE * DATUM REQUIRED: WGS 84 (FROM GPS) w LONGITUDE DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS (160 ACRE) SECTION TOWNSHIP RANGE (10 ACRE) (40 ACRE) (2.5 ACRE) NORTH ☐ EAST 2 OPTIONAL 1/4 1/4 1/4 1/4 SOUTH WEST LOT NUMBER BLOCK NUMBER UNIT/TRACT SUBDIVISION NAME HYDROGRAPHIC SURVEY MAP NUMBER TRACT NUMBER NAME OF LICENSED DRILLER NAME OF WELL DRILLING COMPANY LICENSE NUMBER WD1682 HUNGIN HOYS LI 2MOLY DEPTH OF COMPLETED WELL (FT) BORE HOLE DEPTH (FT) DRILLING STARTED DRILLING ENDED 90 0-18-12 STATIC WATER LEVEL IN COMPLETED WELL (FT) SHALLOW (UNCONFINED) COMPLETED WELL IS: ___ ARTESIAN DRY HOLE □ AIR MUD. ADDITIVES - SPECIFY: DRILLING FLUID: ROTARY HAMMER OTHER – SPECIFY: CABLE TOOL DRILLING METHOD: DEPTH (FT) BORE HOLE **CASING** CONNECTION INSIDE DIA. CASING WALL SLOT THICKNESS (IN) TYPE (CASING) SIZE (IN) CASING (IN) DIA. (IN) MATERIAL FROM TO 12" 78 DEPTH (FT) FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA THICKNESS YIELD 4:WATER BEARING STRATA (FT) (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES) (GPM) FROM 0 METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA TOTAL ESTIMATED WELL YIELD (GPM) FOR OSE INTERNAL USE WELL RECORD & LOG (Version 6/9/08) POD NUMBER TRN NUMBER 51576 **FILE NUMBER**

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APPENDIX B

Photographic Log



Photographic Log

COG Operating, LLC
Jazzmaster 17 State 003H
Incident Number nAPP2306543550





Photograph: 1 Date: 2/21/2023

Description: Soil staining in release footprint

View: Northwest

Photograph: 2 Date: 2/21/2023

Description: Soil staining in release footprint

View: East





Photograph: 3 Date: 3/1/2023

Description: Initial assessment activities

View: South

Photograph: 4 Date: 3/20/2023

Description: View of lined containment deemed to be

in good condition.



Photographic Log

COG Operating, LLC
Jazzmaster 17 State 003H
Incident Number nAPP2306543550





Photograph: 5 Date: 3/20/2023

Description: View of lined containment deemed to be in

good condition.

Photograph: 6 Date: 4/27/2023

Description: Excavation activities

View: East





Photograph: 7 Date: 4/27/2023

Description: Excavation activities

View: North

Photograph: 8 Date: 4/27/2023

Description: Excavation activities

View: South



APPENDIX C

Laboratory Analytical Reports & Chain of Custody Documentation

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green Ensolum 601 N. Marienfeld St.

Suite 400

Suite 400

Midland, Texas 79701

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JOB DESCRIPTION

Jazzmaster 17 ST 3H SDG NUMBER 03D2024165

JOB NUMBER

890-4218-1

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

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

Client: Ensolum
Project/Site: Jazzmaster 17 ST 3H
Laboratory Job ID: 890-4218-1
SDG: 03D2024165

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Definitions/Glossary

Job ID: 890-4218-1 Client: Ensolum Project/Site: Jazzmaster 17 ST 3H SDG: 03D2024165

Qualifiers

GC VOA

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

Eurofins Carlsbad

Case Narrative

Client: Ensolum

Project/Site: Jazzmaster 17 ST 3H

Job ID: 890-4218-1

SDG: 03D2024165

Job ID: 890-4218-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4218-1

Receipt

The samples were received on 3/1/2023 3:37 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.6°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS01 (890-4218-1), SS02 (890-4218-2), SS03 (890-4218-3), SS04 (890-4218-4), SS05 (890-4218-5), SS06 (890-4218-6), SS07 (890-4218-7), SS08 (890-4218-8), SS09 (890-4218-9), SS10 (890-4218-10), SS11 (890-4218-11) and SS12 (890-4218-12).

GC VOA

Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-48331 and analytical batch 880-48569 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

Method 8015MOD NM: The laboratory control sample (LCS) associated with preparation batch 880-47811 and analytical batch 880-47830 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.

Method 8015MOD NM: The surrogate recovery for the blank associated with preparation batch 880-47814 and analytical batch 880-47828 was outside the upper control limits.

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

HPLC/IC

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

Project/Site: Jazzmaster 17 ST 3H

Client: Ensolum

Job ID: 890-4218-1

SDG: 03D2024165

Client Sample ID: SS01 Lab Sample ID: 890-4218-1 Date Collected: 03/01/23 11:50

Matrix: Solid

Date Received: 03/01/23 15:37 Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F1	0.00200	mg/Kg		03/10/23 14:41	03/14/23 11:59	1
Toluene	<0.00200	U F1	0.00200	mg/Kg		03/10/23 14:41	03/14/23 11:59	1
Ethylbenzene	<0.00200	U F1	0.00200	mg/Kg		03/10/23 14:41	03/14/23 11:59	1
m-Xylene & p-Xylene	<0.00401	U F1	0.00401	mg/Kg		03/10/23 14:41	03/14/23 11:59	1
o-Xylene	<0.00200	U F1	0.00200	mg/Kg		03/10/23 14:41	03/14/23 11:59	1
Xylenes, Total	<0.00401	U F1	0.00401	mg/Kg		03/10/23 14:41	03/14/23 11:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130			03/10/23 14:41	03/14/23 11:59	1
1,4-Difluorobenzene (Surr)	94		70 - 130			03/10/23 14:41	03/14/23 11:59	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			03/14/23 18:25	1
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)					
		(= , (33,					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Total TPH	•	Qualifier	•	<mark>Unit</mark> mg/Kg	<u>D</u>	Prepared	Analyzed 03/06/23 13:31	
Total TPH	Result <49.9	Qualifier U	RL 49.9		<u>D</u>	Prepared		
	Result <49.9 sel Range Orga	Qualifier U	RL 49.9		<u>D</u>	Prepared Prepared		1
Total TPH Method: SW846 8015B NM - Dies	Result <49.9 sel Range Orga	Qualifier Unics (DRO) Qualifier	RL 49.9	mg/Kg	=	<u> </u>	03/06/23 13:31	1 Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result <49.9 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U	RL 49.9 (GC)	mg/Kg	=	Prepared	03/06/23 13:31 Analyzed	Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 sel Range Orga Result <49.9	Qualifier U nics (DRO) Qualifier U	(GC) RL 49.9	mg/Kg Unit mg/Kg	=	Prepared 03/04/23 11:06	03/06/23 13:31 Analyzed 03/05/23 15:47	Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U nics (DRO) Qualifier U U	RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg	=	Prepared 03/04/23 11:06 03/04/23 11:06	03/06/23 13:31 Analyzed 03/05/23 15:47 03/05/23 15:47	Dil Fac
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	Qualifier U nics (DRO) Qualifier U U	RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg	=	Prepared 03/04/23 11:06 03/04/23 11:06	03/06/23 13:31 Analyzed 03/05/23 15:47 03/05/23 15:47	Dil Face 1 1 1 Dil Face
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <49.9	Qualifier U nics (DRO) Qualifier U U	RL 49.9 (GC) RL 49.9 49.9 Limits	mg/Kg Unit mg/Kg mg/Kg	=	Prepared 03/04/23 11:06 03/04/23 11:06 03/04/23 11:06 Prepared	03/06/23 13:31 Analyzed 03/05/23 15:47 03/05/23 15:47 03/05/23 15:47 Analyzed	Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <49.9	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg	=	Prepared 03/04/23 11:06 03/04/23 11:06 03/04/23 11:06 Prepared 03/04/23 11:06	03/06/23 13:31 Analyzed 03/05/23 15:47 03/05/23 15:47 Analyzed 03/05/23 15:47	Dil Fac
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	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg	=	Prepared 03/04/23 11:06 03/04/23 11:06 03/04/23 11:06 Prepared 03/04/23 11:06	03/06/23 13:31 Analyzed 03/05/23 15:47 03/05/23 15:47 Analyzed 03/05/23 15:47	Dil Fac 1 Dil Fac 1 Dil Fac 1 Dil Fac

Client Sample ID: SS02 Lab Sample ID: 890-4218-2

Date Collected: 03/01/23 11:55 **Matrix: Solid**

Date Received: 03/01/23 15:37

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/10/23 14:41	03/14/23 12:20	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/10/23 14:41	03/14/23 12:20	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/10/23 14:41	03/14/23 12:20	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/10/23 14:41	03/14/23 12:20	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/10/23 14:41	03/14/23 12:20	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/10/23 14:41	03/14/23 12:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			03/10/23 14:41	03/14/23 12:20	1

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Client: Ensolum Job ID: 890-4218-1

Project/Site: Jazzmaster 17 ST 3H SDG: 03D2024165

Client Sample ID: SS02 Lab Sample ID: 890-4218-2 Date Collected: 03/01/23 11:55 Matrix: Solid

Date Received: 03/01/23 15:37 Sample Depth: 0.5'

Method: SW846 8021B	- Volatile Organic	Compounds	(GC)	(Continued)	
moundar official solutions	Tolutio Organic	- Compounds	,	(Continuou,	

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1.4-Difluorobenzene (Surr)	93	70 - 130	03/10/23 14:41	03/14/23 12:20	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398 U	0.00398	ma/Ka			03/14/23 18:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			03/06/23 13:31	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/04/23 11:06	03/05/23 16:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/04/23 11:06	03/05/23 16:10	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/04/23 11:06	03/05/23 16:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	76	70 - 130	03/04/23 11:06	03/05/23 16:10	1
o-Terphenyl	80	70 - 130	03/04/23 11:06	03/05/23 16:10	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50.7		5.00	mg/Kg			03/06/23 21:28	1

Lab Sample ID: 890-4218-3 Client Sample ID: SS03

Date Collected: 03/01/23 12:00 Date Received: 03/01/23 15:37

Sample Depth: 0.5'

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

			,					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/10/23 14:41	03/14/23 12:40	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/10/23 14:41	03/14/23 12:40	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/10/23 14:41	03/14/23 12:40	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/10/23 14:41	03/14/23 12:40	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/10/23 14:41	03/14/23 12:40	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/10/23 14:41	03/14/23 12:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4 Duama of Land barrens (O. 1991)			70 100			00/10/00 11 11	00/44/00 40 40	

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	DII Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	03/10/23 14:41	03/14/23 12:40	1
1,4-Difluorobenzene (Surr)	92		70 - 130	03/10/23 14:41	03/14/23 12:40	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			03/14/23 18:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			03/06/23 13:31	1

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Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-4218-3

03/06/23 21:43

Client Sample Results

Client: Ensolum Job ID: 890-4218-1 Project/Site: Jazzmaster 17 ST 3H SDG: 03D2024165

Client Sample ID: SS03

Date Collected: 03/01/23 12:00 Date Received: 03/01/23 15:37

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		03/04/23 11:06	03/05/23 16:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		03/04/23 11:06	03/05/23 16:32	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/04/23 11:06	03/05/23 16:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130			03/04/23 11:06	03/05/23 16:32	1
o-Terphenyl	103		70 - 130			03/04/23 11:06	03/05/23 16:32	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: SS04 Lab Sample ID: 890-4218-4 Date Collected: 03/01/23 12:05 **Matrix: Solid**

46.2

4.98

mg/Kg

Date Received: 03/01/23 15:37

Sample Depth: 0.5'

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/10/23 14:41	03/14/23 13:01	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/10/23 14:41	03/14/23 13:01	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/10/23 14:41	03/14/23 13:01	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		03/10/23 14:41	03/14/23 13:01	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/10/23 14:41	03/14/23 13:01	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		03/10/23 14:41	03/14/23 13:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130			03/10/23 14:41	03/14/23 13:01	1
1,4-Difluorobenzene (Surr)	95		70 - 130			03/10/23 14:41	03/14/23 13:01	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			03/14/23 18:25	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			03/06/23 13:31	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		03/04/23 11:06	03/05/23 16:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		03/04/23 11:06	03/05/23 16:54	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/04/23 11:06	03/05/23 16:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130			03/04/23 11:06	03/05/23 16:54	1

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3/14/2023

Client: Ensolum Job ID: 890-4218-1
Project/Site: Jazzmaster 17 ST 3H SDG: 03D2024165

Client Sample ID: SS04 Lab Sample ID: 890-4218-4

Date Collected: 03/01/23 12:05

Date Received: 03/01/23 15:37

Matrix: Solid

Sample Depth: 0.5'

Method: EPA 300.0 - Anions, Ion Ch	romatography -	Soluble					
Analyte	Result Qual	lifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	69.1	4.95	mg/Kg			03/06/23 21:48	1

Client Sample ID: SS05 Lab Sample ID: 890-4218-5

Date Collected: 03/01/23 12:10 Date Received: 03/01/23 15:37

Sample Depth: 0.5'

Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)						
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199	mg/Kg		03/10/23 14:41	03/14/23 13:21	
Toluene	<0.00199	U	0.00199	mg/Kg		03/10/23 14:41	03/14/23 13:21	
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/10/23 14:41	03/14/23 13:21	
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/10/23 14:41	03/14/23 13:21	
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/10/23 14:41	03/14/23 13:21	
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/10/23 14:41	03/14/23 13:21	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	99		70 - 130			03/10/23 14:41	03/14/23 13:21	
1,4-Difluorobenzene (Surr)	95		70 - 130			03/10/23 14:41	03/14/23 13:21	
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00398	U	0.00398	mg/Kg			03/14/23 18:25	
Method: SW846 8015 NM - Diese Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<50.0		50.0	mg/Kg			03/06/23 13:31	Dilla
Mathadi CW04C 004ED NM Dia	al Danna Onna	rice (DDO)	(00)					
Method: SW846 8015B NM - Dies Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics	<50.0		50.0	mg/Kg		03/04/23 11:06	03/05/23 17:16	
(GRO)-C6-C10	.00.0	Ü	00.0	mg/ng		00/01/20 11:00	00/00/20 11:10	
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		03/04/23 11:06	03/05/23 17:16	
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/04/23 11:06	03/05/23 17:16	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	86		70 - 130			03/04/23 11:06	03/05/23 17:16	
o-Terphenyl	91		70 - 130			03/04/23 11:06	03/05/23 17:16	
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Ameliate	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Analyte	Result						·	

2

2

4

6

Matrix: Solid

9

11

Client: Ensolum Job ID: 890-4218-1
Project/Site: Jazzmaster 17 ST 3H SDG: 03D2024165

Client Sample ID: SS06

Date Collected: 03/01/23 12:15

Lab Sample ID: 890-4218-6

Matrix: Solid

Date Collected: 03/01/23 12:15 Date Received: 03/01/23 15:37

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/10/23 14:41	03/14/23 13:41	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/10/23 14:41	03/14/23 13:41	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		03/10/23 14:41	03/14/23 13:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/10/23 14:41	03/14/23 13:41	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		03/10/23 14:41	03/14/23 13:41	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/10/23 14:41	03/14/23 13:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130			03/10/23 14:41	03/14/23 13:41	1
1,4-Difluorobenzene (Surr)	93		70 - 130			03/10/23 14:41	03/14/23 13:41	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			03/14/23 18:25	1
Method: SW846 8015 NM - Diese	•	, , ,	•					
Method: SW846 8015 NM - Diese Analyte	•	ics (DRO) ((GC)	Unit	D	Prepared	Analyzed	Dil Fac
	•	Qualifier	•	<mark>Unit</mark> mg/Kg	<u>D</u>	Prepared	Analyzed 03/06/23 13:31	Dil Fac
Analyte Total TPH		Qualifier U	RL 49.9		<u>D</u>	Prepared		
Analyte Total TPH . Method: SW846 8015B NM - Dies	Result <49.9	Qualifier U	RL 49.9 (GC)	mg/Kg		<u> </u>	03/06/23 13:31	1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte	Result <49.9 sel Range Orga Result	Qualifier U nics (DRO) Qualifier	RL 49.9 (GC)	mg/Kg	<u>D</u>	Prepared	03/06/23 13:31 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result <49.9	Qualifier U nics (DRO) Qualifier	RL 49.9 (GC)	mg/Kg		<u> </u>	03/06/23 13:31	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte	Result <49.9 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U	RL 49.9 (GC)	mg/Kg		Prepared	03/06/23 13:31 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9 sel Range Orga Result <49.9	Qualifier U nics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9	mg/Kg Unit mg/Kg		Prepared 03/04/23 11:06	03/06/23 13:31 Analyzed 03/05/23 17:38	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 sel Range Orga Result <49.9	Qualifier U nics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9	mg/Kg Unit mg/Kg		Prepared 03/04/23 11:06	03/06/23 13:31 Analyzed 03/05/23 17:38	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9 sel Range Orga Result <49.9 <49.9	Qualifier U nics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/04/23 11:06 03/04/23 11:06	03/06/23 13:31 Analyzed 03/05/23 17:38 03/05/23 17:38	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier U nics (DRO) Qualifier U U	RL 49.9 (GC) RL 49.9 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/04/23 11:06 03/04/23 11:06	03/06/23 13:31 Analyzed 03/05/23 17:38 03/05/23 17:38	Dil Fac 1 1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result	Qualifier U nics (DRO) Qualifier U U	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/04/23 11:06 03/04/23 11:06 03/04/23 11:06 Prepared	03/06/23 13:31 Analyzed 03/05/23 17:38 03/05/23 17:38 03/05/23 17:38 Analyzed	Dil Fac 1 1 Dil Fac 1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/04/23 11:06 03/04/23 11:06 03/04/23 11:06 Prepared 03/04/23 11:06	03/06/23 13:31 Analyzed 03/05/23 17:38 03/05/23 17:38 Analyzed 03/05/23 17:38	1 Dil Fac 1 1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/04/23 11:06 03/04/23 11:06 03/04/23 11:06 Prepared 03/04/23 11:06	03/06/23 13:31 Analyzed 03/05/23 17:38 03/05/23 17:38 Analyzed 03/05/23 17:38	1 1 1 Dil Fac 1

Client Sample ID: SS07 Lab Sample ID: 890-4218-7

Date Collected: 03/01/23 12:20 Date Received: 03/01/23 15:37

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		03/10/23 14:41	03/14/23 14:02	1
Toluene	<0.00201	U	0.00201	mg/Kg		03/10/23 14:41	03/14/23 14:02	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		03/10/23 14:41	03/14/23 14:02	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		03/10/23 14:41	03/14/23 14:02	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		03/10/23 14:41	03/14/23 14:02	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		03/10/23 14:41	03/14/23 14:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			03/10/23 14:41	03/14/23 14:02	1

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Matrix: Solid

Client: Ensolum Job ID: 890-4218-1 Project/Site: Jazzmaster 17 ST 3H SDG: 03D2024165

Client Sample ID: SS07 Lab Sample ID: 890-4218-7

Date Collected: 03/01/23 12:20 Matrix: Solid Date Received: 03/01/23 15:37

Sample Depth: 0.5'

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

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	95	70 _ 130	03/10/23 14:41	03/14/23 14:02	1

lethod: TAI	SOP Total	I RTFY _ T	otal RTEY	Calculation

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402 U	0.00402	ma/Ka			03/14/23 18:25	1

ı				
ı	Method: SW846 8015 NM	Discal Dance	0	(DDO) (CC)
ı	Method: 5wo4b bu15 NW	- Diesei Rande	• Organics	(DRU) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			03/06/23 13:31	1

Method: SW846 8015B NM - Diesel Range Organics	(DRO)	(GC)	١
motified. Offerto College Ithin Biodol Rungo Organico	(5.10)	, , , , ,	,

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		03/04/23 11:06	03/05/23 18:00	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		03/04/23 11:06	03/05/23 18:00	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/04/23 11:06	03/05/23 18:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89	70 - 130	03/04/23 11:06	03/05/23 18:00	1
o-Terphenyl	93	70 - 130	03/04/23 11:06	03/05/23 18:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualit		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	61.6	4.99	mg/Kg			03/06/23 22:12	1

Client Sample ID: SS08 Lab Sample ID: 890-4218-8

Date Collected: 03/01/23 12:25 Date Received: 03/01/23 15:37

Sample Depth: 0.5'

Markland, CIMO 40 00	21B - Volatile Organic	O = (OO)
IVIATOON' SVVXAN XII	21B - Volatile Circanic	L.Omnollings (Lat.)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/10/23 14:41	03/14/23 14:22	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/10/23 14:41	03/14/23 14:22	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/10/23 14:41	03/14/23 14:22	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		03/10/23 14:41	03/14/23 14:22	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/10/23 14:41	03/14/23 14:22	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		03/10/23 14:41	03/14/23 14:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130			03/10/23 14:41	03/14/23 14:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Anaiyzea	DII Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	03/10/23 14:41	03/14/23 14:22	1
1,4-Difluorobenzene (Surr)	96		70 - 130	03/10/23 14:41	03/14/23 14:22	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			03/14/23 18:25	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			03/06/23 13:31	1

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Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-4218-8

Client Sample Results

Client: Ensolum Job ID: 890-4218-1
Project/Site: Jazzmaster 17 ST 3H SDG: 03D2024165

Client Sample ID: SS08

Date Collected: 03/01/23 12:25 Date Received: 03/01/23 15:37

Sample Depth: 0.5'

Method: SW846 8015B NM - Dies Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/04/23 11:06	03/05/23 18:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/04/23 11:06	03/05/23 18:22	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/04/23 11:06	03/05/23 18:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130			03/04/23 11:06	03/05/23 18:22	1
o-Terphenyl	85		70 - 130			03/04/23 11:06	03/05/23 18:22	1

Method: EPA 300.0 - Anions, Ion C	hromatography - Soluble						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	49.9	4.97	mg/Kg			03/06/23 22:17	1

Client Sample ID: SS09

Lab Sample ID: 890-4218-9

Date Collected: 03/01/23 12:30

Matrix: Solid

Date Received: 03/01/23 15:37

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		03/10/23 14:41	03/14/23 14:43	1
Toluene	<0.00198	U	0.00198	mg/Kg		03/10/23 14:41	03/14/23 14:43	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		03/10/23 14:41	03/14/23 14:43	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		03/10/23 14:41	03/14/23 14:43	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		03/10/23 14:41	03/14/23 14:43	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		03/10/23 14:41	03/14/23 14:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130			03/10/23 14:41	03/14/23 14:43	1
1,4-Difluorobenzene (Surr)	92		70 - 130			03/10/23 14:41	03/14/23 14:43	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			03/14/23 18:25	1
- -				mg/Kg			03/14/23 18:25	1
Total BTEX Method: SW846 8015 NM - Diese Analyte	l Range Organ			mg/Kg Unit	D	Prepared	03/14/23 18:25 Analyzed	
Thethod: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)		<u>D</u>	Prepared		Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH	Range Organ Result <49.9	ics (DRO) (Qualifier	GC) RL 49.9	Unit	D	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies	Range Organ Result <49.9 sel Range Organ	ics (DRO) (Qualifier	GC) RL 49.9	Unit	<u>D</u>	Prepared Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	Range Organ Result <49.9 sel Range Organ	Qualifier Unics (DRO) Qualifier	GC) RL 49.9	Unit mg/Kg			Analyzed 03/06/23 13:31	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10	Range Organ Result <49.9 sel Range Orga Result	ics (DRO) (Qualifier U nics (DRO) Qualifier U	GC) RL 49.9 (GC) RL	Unit mg/Kg		Prepared	Analyzed 03/06/23 13:31 Analyzed	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	Result Seel Range Organ Result <49.9 Result <49.9	ics (DRO) (Qualifier U nics (DRO) Qualifier U	GC) RL 49.9 (GC) RL 49.9	Unit mg/Kg Unit mg/Kg		Prepared 03/04/23 11:06	Analyzed 03/06/23 13:31 Analyzed 03/05/23 18:45	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)	Result Seel Range Organ Result <49.9 Result <49.9	ics (DRO) (Qualifier U nics (DRO) Qualifier U	GC) RL 49.9 (GC) RL 49.9	Unit mg/Kg Unit mg/Kg		Prepared 03/04/23 11:06	Analyzed 03/06/23 13:31 Analyzed 03/05/23 18:45	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies Analyte	Result sel Range Organ Result <49.9 Sel Range Organ Result <49.9	ics (DRO) (Qualifier U nics (DRO) Qualifier U U	GC) RL 49.9 (GC) RL 49.9 49.9	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/04/23 11:06 03/04/23 11:06	Analyzed 03/06/23 13:31 Analyzed 03/05/23 18:45 03/05/23 18:45	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) Oll Range Organics (Over C28-C36)	sel Range Organ Result 49.9 sel Range Orga Result 49.9 449.9	ics (DRO) (Qualifier U nics (DRO) Qualifier U U	GC) RL 49.9 (GC) RL 49.9 49.9 49.9	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/04/23 11:06 03/04/23 11:06	Analyzed 03/06/23 13:31 Analyzed 03/05/23 18:45 03/05/23 18:45	Dil Fac Dil Fac 1 Dil Fac 1 Dil Fac 1

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10

12

Client: Ensolum Job ID: 890-4218-1
Project/Site: Jazzmaster 17 ST 3H SDG: 03D2024165

Client Sample ID: SS09 Lab Sample ID: 890-4218-9

Date Collected: 03/01/23 12:30 Matrix: Solid
Date Received: 03/01/23 15:37

Sample Depth: 0.5'

Method: EPA 300.0 - Anions, Ion Cl	hromatography - Soluble						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	54.8	4.96	mg/Kg			03/06/23 22:22	1

Client Sample ID: SS10

Lab Sample ID: 890-4218-10

Matrix: Solid

Date Collected: 03/01/23 12:35 Date Received: 03/01/23 15:37

Sample Depth: 0.5'

o-Terphenyl

Analyte

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/10/23 14:41	03/14/23 15:03	1
Toluene	< 0.00199	U	0.00199	mg/Kg		03/10/23 14:41	03/14/23 15:03	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		03/10/23 14:41	03/14/23 15:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/10/23 14:41	03/14/23 15:03	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		03/10/23 14:41	03/14/23 15:03	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/10/23 14:41	03/14/23 15:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130			03/10/23 14:41	03/14/23 15:03	1
1,4-Difluorobenzene (Surr)	96		70 - 130			03/10/23 14:41	03/14/23 15:03	1
-								
: Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)					
Method: SW846 8015 NM - Diese Analyte	•	ics (DRO) (GC)	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
	•	Qualifier	•	Unit mg/Kg	D	Prepared	Analyzed 03/06/23 13:31	Dil Fac
Analyte	Result < 50.0	Qualifier U	RL 50.0		<u>D</u>	Prepared		Dil Fac
Analyte Total TPH	Result <50.0 sel Range Orga	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 Orga	Qualifier Unics (DRO) Qualifier	RL 50.0	mg/Kg			03/06/23 13:31	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	Result <50.0 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U	RL 50.0 (GC)	mg/Kg		Prepared	03/06/23 13:31 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	Qualifier U nics (DRO) Qualifier U	RL 50.0 (GC) RL 50.0 50.0	mg/Kg Unit mg/Kg		Prepared 03/04/23 11:06 03/04/23 11:06	03/06/23 13:31 Analyzed 03/05/23 19:06 03/05/23 19:06	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result 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 03/04/23 11:06	03/06/23 13:31 Analyzed 03/05/23 19:06	Dil Fac Dil Fac 1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte	Result	Qualifier U nics (DRO) Qualifier U U	RL 50.0 (GC) RL 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/04/23 11:06 03/04/23 11:06	03/06/23 13:31 Analyzed 03/05/23 19:06 03/05/23 19:06	1 Dil Fac

70 - 130

RL

5.02

Unit

mg/Kg

106

55.6

Result Qualifier

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

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03/04/23 11:06

Prepared

D

03/05/23 19:06

Analyzed 03/06/23 22:26

Dil Fac

Client: Ensolum

<0.00398 U

Job ID: 890-4218-1 Project/Site: Jazzmaster 17 ST 3H SDG: 03D2024165

Client Sample ID: SS11 Lab Sample ID: 890-4218-11 Matrix: Solid

Date Collected: 03/01/23 12:40 Date Received: 03/01/23 15:37

Sample Depth: 0.5'

Total BTEX

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/10/23 14:41	03/14/23 17:27	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/10/23 14:41	03/14/23 17:27	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/10/23 14:41	03/14/23 17:27	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/10/23 14:41	03/14/23 17:27	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/10/23 14:41	03/14/23 17:27	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/10/23 14:41	03/14/23 17:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130			03/10/23 14:41	03/14/23 17:27	1
1,4-Difluorobenzene (Surr)	90		70 - 130			03/10/23 14:41	03/14/23 17:27	1

Method: SW846 8015 NM - Diesel F	Range Organics (DRO) (G	C)					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U	49.9	mg/Kg			03/06/23 11:31	1

0.00398

mg/Kg

Method: SW846 8015B NM - Dies	el Range Orga	inics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U *-	49.9	mg/Kg		03/04/23 10:55	03/05/23 17:28	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		03/04/23 10:55	03/05/23 17:28	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/04/23 10:55	03/05/23 17:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130			03/04/23 10:55	03/05/23 17:28	1
o-Terphenyl	79		70 - 130			03/04/23 10:55	03/05/23 17:28	1

Method: EPA 300.0 - Anions, Ion C	hromatography - Soluble						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	61.3	4.98	mg/Kg			03/06/23 22:31	1

Client Sample ID: SS12 Lab Sample ID: 890-4218-12 Date Collected: 03/01/23 12:45 **Matrix: Solid**

Date Received: 03/01/23 15:37

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/10/23 14:41	03/14/23 17:47	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/10/23 14:41	03/14/23 17:47	1
Ethylbenzene	0.00255		0.00200	mg/Kg		03/10/23 14:41	03/14/23 17:47	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		03/10/23 14:41	03/14/23 17:47	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/10/23 14:41	03/14/23 17:47	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		03/10/23 14:41	03/14/23 17:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130			03/10/23 14:41	03/14/23 17:47	

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03/14/23 18:25

Matrix: Solid

Client Sample Results

Client: EnsolumJob ID: 890-4218-1Project/Site: Jazzmaster 17 ST 3HSDG: 03D2024165

Client Sample ID: SS12 Lab Sample ID: 890-4218-12

Date Collected: 03/01/23 12:45 Date Received: 03/01/23 15:37

Sample Depth: 0.5'

Chloride

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	92		70 - 130			03/10/23 14:41	03/14/23 17:47	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			03/14/23 18:25	1
Method: SW846 8015 NM - Dies	el Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			03/06/23 11:31	1
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Method: SW846 8015B NM - Die	sel Range Orga	nics (DRO)	(GC)					
Gasoline Range Organics GRO)-C6-C10	<49.9	U *-	49.9	mg/Kg		03/04/23 10:55	03/05/23 17:50	1
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		03/04/23 10:55	03/05/23 17:50	1
C10-C28)				5 5				
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/04/23 10:55	03/05/23 17:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
I-Chlorooctane	101		70 - 130			03/04/23 10:55	03/05/23 17:50	1
p-Terphenyl	91		70 - 130			03/04/23 10:55	03/05/23 17:50	1

50.1

mg/Kg

5590

03/05/23 03:42

Surrogate Summary

Client: Ensolum Job ID: 890-4218-1
Project/Site: Jazzmaster 17 ST 3H SDG: 03D2024165

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)	
890-4218-1	SS01	95	94	
890-4218-1 MS	SS01	103	103	
890-4218-1 MSD	SS01	104	101	
890-4218-2	SS02	102	93	
890-4218-3	SS03	99	92	
890-4218-4	SS04	100	95	
890-4218-5	SS05	99	95	
890-4218-6	SS06	100	93	
890-4218-7	SS07	102	95	
890-4218-8	SS08	103	96	
890-4218-9	SS09	84	92	
890-4218-10	SS10	94	96	
890-4218-11	SS11	94	90	
890-4218-12	SS12	83	92	
LCS 880-48331/1-A	Lab Control Sample	102	100	
LCSD 880-48331/2-A	Lab Control Sample Dup	100	103	
MB 880-48331/5-A	Method Blank	94	91	
Surrogate Legend				

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

DFBZ = 1,4-Difluorobenzene (Surr)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-4212-A-21-B MS	Matrix Spike	107	96	
890-4212-A-21-C MSD	Matrix Spike Duplicate	109	98	
890-4217-A-1-B MS	Matrix Spike	104	101	
890-4217-A-1-C MSD	Matrix Spike Duplicate	101	101	
890-4218-1	SS01	88	94	
890-4218-2	SS02	76	80	
890-4218-3	SS03	101	103	
890-4218-4	SS04	85	94	
890-4218-5	SS05	86	91	
890-4218-6	SS06	78	83	
890-4218-7	SS07	89	93	
890-4218-8	SS08	80	85	
890-4218-9	SS09	81	85	
890-4218-10	SS10	99	106	
890-4218-11	SS11	86	79	
890-4218-12	SS12	101	91	
LCS 880-47811/2-A	Lab Control Sample	93	85	
LCS 880-47814/2-A	Lab Control Sample	78	83	
LCSD 880-47811/3-A	Lab Control Sample Dup	92	84	
LCSD 880-47814/3-A	Lab Control Sample Dup	74	80	
MB 880-47811/1-A	Method Blank	123	121	
MB 880-47814/1-A	Method Blank	121	134 S1+	

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Surrogate Summary

Client: Ensolum

Project/Site: Jazzmaster 17 ST 3H

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Job ID: 890-4218-1 SDG: 03D2024165

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QC Sample Results

Client: Ensolum Job ID: 890-4218-1
Project/Site: Jazzmaster 17 ST 3H SDG: 03D2024165

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-48331/5-A

Matrix: Solid Analysis Batch: 48569 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 48331

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/10/23 14:41	03/14/23 11:30	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/10/23 14:41	03/14/23 11:30	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/10/23 14:41	03/14/23 11:30	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/10/23 14:41	03/14/23 11:30	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/10/23 14:41	03/14/23 11:30	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/10/23 14:41	03/14/23 11:30	1

MB MB

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	03	3/10/23 14:41	03/14/23 11:30	1
1,4-Difluorobenzene (Surr)	91		70 - 130	03	3/10/23 14:41	03/14/23 11:30	1

Lab Sample ID: LCS 880-48331/1-A

Matrix: Solid

Analysis Batch: 48569

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 48331

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09897		mg/Kg		99	70 - 130	
Toluene	0.100	0.1036		mg/Kg		104	70 - 130	
Ethylbenzene	0.100	0.09955		mg/Kg		100	70 - 130	
m-Xylene & p-Xylene	0.200	0.2043		mg/Kg		102	70 - 130	
o-Xylene	0.100	0.1020		mg/Kg		102	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-48331/2-A

Matrix: Solid

Analysis Batch: 48569

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 48331

	Spike	LCSD L	LCSD				%Rec		RPD
Analyte	Added	Result (Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1026	-	mg/Kg		103	70 - 130	4	35
Toluene	0.100	0.1052	ı	mg/Kg		105	70 - 130	1	35
Ethylbenzene	0.100	0.1010	ı	mg/Kg		101	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2068		mg/Kg		103	70 - 130	1	35
o-Xylene	0.100	0.1031	1	mg/Kg		103	70 - 130	1	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1.4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 890-4218-1 MS

Matrix: Solid

Analysis Batch: 48569

Client Sample ID: SS01
Prep Type: Total/NA

Prep Batch: 48331

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U F1	0.0998	0.06755	F1	mg/Kg	_	68	70 - 130	
Toluene	<0.00200	U F1	0.0998	0.06831	F1	mg/Kg		68	70 - 130	

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QC Sample Results

Client: Ensolum Job ID: 890-4218-1 Project/Site: Jazzmaster 17 ST 3H SDG: 03D2024165

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

Lab Sample ID: 890-4218-1 MS **Matrix: Solid**

Analysis Batch: 48569

Client Sample ID: SS01 Prep Type: Total/NA

Prep Batch: 48331

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00200	U F1	0.0998	0.06445	F1	mg/Kg		65	70 - 130	
m-Xylene & p-Xylene	<0.00401	U F1	0.200	0.1307	F1	mg/Kg		65	70 - 130	
o-Xylene	<0.00200	U F1	0.0998	0.06563	F1	mg/Kg		66	70 - 130	

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Client Sample ID: SS01 Prep Type: Total/NA

Analysis Batch: 48569

Matrix: Solid

Lab Sample ID: 890-4218-1 MSD

Prep Batch: 48331

Sample Sample Spike MSD MSD Result Qualifier Result Qualifier %Rec RPD Limit Analyte Added Unit Limits 0.0990 Benzene <0.00200 UF1 0.08100 mg/Kg 82 70 - 130 18 35 0.08187 83 Toluene <0.00200 UF1 0.0990 mg/Kg 70 - 130 18 35 Ethylbenzene <0.00200 UF1 0.0990 0.07659 mg/Kg 77 70 - 130 17 35 0.198 0.1554 78 70 - 130 35 m-Xylene & p-Xylene <0.00401 UF1 mg/Kg 17 <0.00200 UF1 0.0990 0.07805 79 70 - 130 o-Xylene mg/Kg 17

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

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

Lab Sample ID: MB 880-47811/1-A

Matrix: Solid

Analysis Batch: 47830

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

Prep Batch: 47811

	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		03/04/23 10:55	03/05/23 08:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/04/23 10:55	03/05/23 08:30	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/04/23 10:55	03/05/23 08:30	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Pre	epared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130	03/04/	/23 10:55	03/05/23 08:30	1
o-Terphenyl	121		70 - 130	03/04/	/23 10:55	03/05/23 08:30	1

Lab Sample ID: LCS 880-47811/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Analysis Batch: 47830

Prep Type: Total/NA Prep Batch: 47811

Spike LCS LCS %Rec Added Qualifier Analyte Result Unit %Rec Limits 1000 574.4 57 70 - 130 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 867.5 mg/Kg 87 70 - 130 C10-C28)

C10-C28)

o-Terphenyl

C10-C28)

Job ID: 890-4218-1 Client: Ensolum Project/Site: Jazzmaster 17 ST 3H

SDG: 03D2024165

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

Lab Sample ID: LCS 880-47811/2-A Client Sample ID: Lab Control Sample

Matrix: Solid Prep Type: Total/NA Analysis Batch: 47830 Prep Batch: 47811

LCS LCS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 93 70 - 130 o-Terphenyl 85 70 - 130

Lab Sample ID: LCSD 880-47811/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Total/NA Analysis Batch: 47830 Prep Batch: 47811

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 1000 568.0 57 70 - 13020 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 848.8 mg/Kg 85 70 - 1302 20

LCSD LCSD Surrogate %Recovery Qualifier Limits 92 70 - 130 1-Chlorooctane 84 70 - 130 o-Terphenyl

Lab Sample ID: 890-4212-A-21-B MS Client Sample ID: Matrix Spike

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 47830** Prep Batch: 47811

Sample Sample MS MS Spike Added Analyte Result Qualifier Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.9 U*-998 773.3 mg/Kg 77 70 - 130

(GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 998 722.1 mg/Kg 70 70 - 130 C10-C28)

70 - 130

MS MS %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 107

96

Lab Sample ID: 890-4212-A-21-C MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Prep Type: Total/NA Analysis Batch: 47830 Prep Batch: 47811

Sample Sample MSD MSD RPD Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit U *-999 800.0 80 Gasoline Range Organics <49.9 mg/Kg 70 - 130 20 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 999 738.2 mg/Kg 71 70 - 130 2 20

MSD MSD Qualifier Surrogate %Recovery Limits 1-Chlorooctane 109 70 - 130 98 70 - 130 o-Terphenyl

Client Sample ID: Method Blank

Analyzed

03/05/23 08:24

03/05/23 08:24

Prep Type: Total/NA

Prep Type: Total/NA

Drop Potob: 47914

Client Sample ID: Lab Control Sample

70 - 130

Client Sample ID: Lab Control Sample Dup

89

Prep Type: Total/NA

QC Sample Results

Client: Ensolum Job ID: 890-4218-1 Project/Site: Jazzmaster 17 ST 3H SDG: 03D2024165

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

Lab Sample ID: MB 880-47814/1-A

Matrix: Solid

Analysis Batch: 47828

Analysis Batch: 47828							Prep Batcl	n: 47814
	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		03/04/23 11:06	03/05/23 08:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/04/23 11:06	03/05/23 08:24	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/04/23 11:06	03/05/23 08:24	1

MB MB Surrogate %Recovery Qualifier Limits Prepared 1-Chlorooctane 121 70 - 130 03/04/23 11:06 o-Terphenyl 134 S1+ 70 - 130 03/04/23 11:06

Lab Sample ID: LCS 880-47814/2-A

Matrix: Solid

Analysis Batch: 47828								Batch: 47814
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	880.3		mg/Kg		88	70 - 130	

892.6

mg/Kg

1000

(GRO)-C6-C10 Diesel Range Organics (Over C10-C28)

LCS LCS %Recovery Qualifier Limits Surrogate 1-Chlorooctane 78 70 - 130 o-Terphenyl 83 70 - 130

Lab Sample ID: LCSD 880-47814/3-A

Matrix: Solid Analysis Ratch: 47828

Analysis Batch. 47020							Fieh	Datell.	4/014
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	880.3		mg/Kg		88	70 - 130	0	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	836.5		mg/Kg		84	70 - 130	6	20

C10-C28)

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	74	70 - 130
o-Terphenyl	80	70 - 130

Lab Sample ID: 890-4217-A-1-B MS

Released to Imaging: 5/23/2023 2:28:51 PM

Matrix: Solid

Analysis Batch: 47828

ı	Alialysis Datcil. 47020									FIEL	Datcii. 47014
		Sample	Sample	Spike	MS	MS				%Rec	
	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
	Gasoline Range Organics	<49.9	U	997	925.1		mg/Kg		90	70 - 130	
	(GRO)-C6-C10										
	Diesel Range Organics (Over	<49.9	U	997	971.0		mg/Kg		96	70 - 130	
ı	C10-C28)										

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Dil Fac

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 47814

Prep Batch: 47814

Prep Type: Total/NA

Job ID: 890-4218-1 Client: Ensolum Project/Site: Jazzmaster 17 ST 3H SDG: 03D2024165

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

Lab Sample ID: 890-4217-A-1-B MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 47828

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	104		70 - 130
o-Terphenyl	101		70 - 130

Lab Sample ID: 890-4217-A-1-C MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch, 47020

Analysis Batch: 47626									Prep	batti:	4/014
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	891.4		mg/Kg		87	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	959.8		mg/Kg		94	70 - 130	1	20

MSD MSD Surrogate %Recovery Qualifier Limits 101 70 - 130 1-Chlorooctane 101 70 - 130 o-Terphenyl

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-47773/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 47825

MB MB Analyte Result Qualifier RL Unit Prepared D

Dil Fac Analyzed Chloride 5.00 <5.00 U mg/Kg 03/05/23 02:25

Lab Sample ID: LCS 880-47773/2-A Client Sample ID: Lab Control Sample **Matrix: Solid**

Analysis Batch: 47825

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 231.8 mg/Kg 93 90 - 110

Lab Sample ID: LCSD 880-47773/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid**

Analysis Batch: 47825

Spike LCSD LCSD %Rec RPD Added Analyte Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 232.9 93 90 - 110 20 mg/Kg

Lab Sample ID: 880-25414-A-39-B MS Client Sample ID: Matrix Spike

Analysis Batch: 47825

Matrix: Solid

7 ii.ii , 0.0 2 ii ii. 0.20	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Chloride	786		250	1051		mg/Kg		106	90 - 110

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Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

QC Sample Results

Client: Ensolum Job ID: 890-4218-1 Project/Site: Jazzmaster 17 ST 3H

SDG: 03D2024165

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-25414-A-39-C MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 47825

Sample Sample Spike MSD MSD %Rec RPD Result Qualifier Qualifier Analyte Added Result Unit D %Rec Limits RPD Limit Chloride 786 250 1052 mg/Kg 106 90 - 110 20

Lab Sample ID: MB 880-47841/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 47995

MB MB

Result Qualifier Unit Dil Fac Analyte RL D Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 03/06/23 20:06

Lab Sample ID: LCS 880-47841/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 47995

LCS LCS %Rec Spike Analyte Added Result Qualifier Unit %Rec Limits Chloride 250 266.6 mg/Kg 107 90 - 110

Lab Sample ID: LCSD 880-47841/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 47995

LCSD LCSD Spike RPD %Rec Analyte Added Result Qualifier Unit %Rec RPD Limit D Limits Chloride 250 267.5 107 90 - 110 20 mg/Kg

Lab Sample ID: 890-4218-2 MS Client Sample ID: SS02 **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 47995

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 250 50.7 316.6 mg/Kg 106 90 - 110

Lab Sample ID: 890-4218-2 MSD **Client Sample ID: SS02 Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 47995

Sample Sample Spike MSD MSD %Rec **RPD** Added Result Qualifier RPD Limit Analyte Result Qualifier Unit D %Rec Limits 50.7 Chloride 250 315.9 mg/Kg 106 90 - 110 20

Client: Ensolum

Project/Site: Jazzmaster 17 ST 3H

SDG: 03D2024165

GC VOA

Prep Batch: 48331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4218-1	SS01	Total/NA	Solid	5035	
890-4218-2	SS02	Total/NA	Solid	5035	
890-4218-3	SS03	Total/NA	Solid	5035	
890-4218-4	SS04	Total/NA	Solid	5035	
890-4218-5	SS05	Total/NA	Solid	5035	
890-4218-6	SS06	Total/NA	Solid	5035	
890-4218-7	SS07	Total/NA	Solid	5035	
890-4218-8	SS08	Total/NA	Solid	5035	
890-4218-9	SS09	Total/NA	Solid	5035	
890-4218-10	SS10	Total/NA	Solid	5035	
890-4218-11	SS11	Total/NA	Solid	5035	
890-4218-12	SS12	Total/NA	Solid	5035	
MB 880-48331/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-48331/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-48331/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4218-1 MS	SS01	Total/NA	Solid	5035	
890-4218-1 MSD	SS01	Total/NA	Solid	5035	

Analysis Batch: 48569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4218-1	SS01	Total/NA	Solid	8021B	48331
890-4218-2	SS02	Total/NA	Solid	8021B	48331
890-4218-3	SS03	Total/NA	Solid	8021B	48331
890-4218-4	SS04	Total/NA	Solid	8021B	48331
890-4218-5	SS05	Total/NA	Solid	8021B	48331
890-4218-6	SS06	Total/NA	Solid	8021B	48331
890-4218-7	SS07	Total/NA	Solid	8021B	48331
890-4218-8	SS08	Total/NA	Solid	8021B	48331
890-4218-9	SS09	Total/NA	Solid	8021B	48331
890-4218-10	SS10	Total/NA	Solid	8021B	48331
890-4218-11	SS11	Total/NA	Solid	8021B	48331
890-4218-12	SS12	Total/NA	Solid	8021B	48331
MB 880-48331/5-A	Method Blank	Total/NA	Solid	8021B	48331
LCS 880-48331/1-A	Lab Control Sample	Total/NA	Solid	8021B	48331
LCSD 880-48331/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	48331
890-4218-1 MS	SS01	Total/NA	Solid	8021B	48331
890-4218-1 MSD	SS01	Total/NA	Solid	8021B	48331

Analysis Batch: 48629

Released to Imaging: 5/23/2023 2:28:51 PM

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4218-1	SS01	Total/NA	Solid	Total BTEX	
890-4218-2	SS02	Total/NA	Solid	Total BTEX	
890-4218-3	SS03	Total/NA	Solid	Total BTEX	
890-4218-4	SS04	Total/NA	Solid	Total BTEX	
890-4218-5	SS05	Total/NA	Solid	Total BTEX	
890-4218-6	SS06	Total/NA	Solid	Total BTEX	
890-4218-7	SS07	Total/NA	Solid	Total BTEX	
890-4218-8	SS08	Total/NA	Solid	Total BTEX	
890-4218-9	SS09	Total/NA	Solid	Total BTEX	
890-4218-10	SS10	Total/NA	Solid	Total BTEX	
890-4218-11	SS11	Total/NA	Solid	Total BTEX	

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Client: Ensolum

Project/Site: Jazzmaster 17 ST 3H

Job ID: 890-4218-1 SDG: 03D2024165

GC VOA (Continued)

Analysis Batch: 48629 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4218-12	SS12	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 47811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4218-11	SS11	Total/NA	Solid	8015NM Prep	
890-4218-12	SS12	Total/NA	Solid	8015NM Prep	
MB 880-47811/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-47811/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-47811/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4212-A-21-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4212-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

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Prep Batch: 47814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4218-1	SS01	Total/NA	Solid	8015NM Prep	
890-4218-2	SS02	Total/NA	Solid	8015NM Prep	
890-4218-3	SS03	Total/NA	Solid	8015NM Prep	
890-4218-4	SS04	Total/NA	Solid	8015NM Prep	
890-4218-5	SS05	Total/NA	Solid	8015NM Prep	
890-4218-6	SS06	Total/NA	Solid	8015NM Prep	
890-4218-7	SS07	Total/NA	Solid	8015NM Prep	
890-4218-8	SS08	Total/NA	Solid	8015NM Prep	
890-4218-9	SS09	Total/NA	Solid	8015NM Prep	
890-4218-10	SS10	Total/NA	Solid	8015NM Prep	
MB 880-47814/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-47814/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-47814/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4217-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4217-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

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Analysis Batch: 47828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4218-1	SS01	Total/NA	Solid	8015B NM	47814
890-4218-2	SS02	Total/NA	Solid	8015B NM	47814
890-4218-3	SS03	Total/NA	Solid	8015B NM	47814
890-4218-4	SS04	Total/NA	Solid	8015B NM	47814
890-4218-5	SS05	Total/NA	Solid	8015B NM	47814
890-4218-6	SS06	Total/NA	Solid	8015B NM	47814
890-4218-7	SS07	Total/NA	Solid	8015B NM	47814
890-4218-8	SS08	Total/NA	Solid	8015B NM	47814
890-4218-9	SS09	Total/NA	Solid	8015B NM	47814
890-4218-10	SS10	Total/NA	Solid	8015B NM	47814
MB 880-47814/1-A	Method Blank	Total/NA	Solid	8015B NM	47814
LCS 880-47814/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	47814
LCSD 880-47814/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	47814
890-4217-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	47814
890-4217-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	47814

Client: Ensolum Project/Site: Jazzmaster 17 ST 3H Job ID: 890-4218-1

SDG: 03D2024165

GC Semi VOA

Analysis Batch: 47830

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4218-11	SS11	Total/NA	Solid	8015B NM	47811
890-4218-12	SS12	Total/NA	Solid	8015B NM	47811
MB 880-47811/1-A	Method Blank	Total/NA	Solid	8015B NM	47811
LCS 880-47811/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	47811
LCSD 880-47811/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	47811
890-4212-A-21-B MS	Matrix Spike	Total/NA	Solid	8015B NM	47811
890-4212-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	47811

Analysis Batch: 47902

Prep Batcl	Method	Matrix	Prep Type	Client Sample ID	Lab Sample ID
	8015 NM	Solid	Total/NA	SS01	890-4218-1
	8015 NM	Solid	Total/NA	SS02	890-4218-2
	8015 NM	Solid	Total/NA	SS03	890-4218-3
	8015 NM	Solid	Total/NA	SS04	890-4218-4
	8015 NM	Solid	Total/NA	SS05	890-4218-5
	8015 NM	Solid	Total/NA	SS06	890-4218-6
	8015 NM	Solid	Total/NA	SS07	890-4218-7
	8015 NM	Solid	Total/NA	SS08	890-4218-8
	8015 NM	Solid	Total/NA	SS09	890-4218-9
	8015 NM	Solid	Total/NA	SS10	890-4218-10
	8015 NM	Solid	Total/NA	SS11	890-4218-11
	8015 NM	Solid	Total/NA	SS12	890-4218-12

HPLC/IC

Leach Batch: 47773

Lab Sample ID 890-4218-12	Client Sample ID SS12	Prep Type Soluble	Matrix Solid	Method DI Leach	Prep Batch
MB 880-47773/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-47773/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-47773/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-25414-A-39-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-25414-A-39-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 47825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4218-12	SS12	Soluble	Solid	300.0	47773
MB 880-47773/1-A	Method Blank	Soluble	Solid	300.0	47773
LCS 880-47773/2-A	Lab Control Sample	Soluble	Solid	300.0	47773
LCSD 880-47773/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	47773
880-25414-A-39-B MS	Matrix Spike	Soluble	Solid	300.0	47773
880-25414-A-39-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	47773

Leach Batch: 47841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4218-1	SS01	Soluble	Solid	DI Leach	
890-4218-2	SS02	Soluble	Solid	DI Leach	
890-4218-3	SS03	Soluble	Solid	DI Leach	
890-4218-4	SS04	Soluble	Solid	DI Leach	
890-4218-5	SS05	Soluble	Solid	DI Leach	
890-4218-6	SS06	Soluble	Solid	DI Leach	

Client: Ensolum Job ID: 890-4218-1
Project/Site: Jazzmaster 17 ST 3H SDG: 03D2024165

HPLC/IC (Continued)

Leach Batch: 47841 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4218-7	SS07	Soluble	Solid	DI Leach	
890-4218-8	SS08	Soluble	Solid	DI Leach	
890-4218-9	SS09	Soluble	Solid	DI Leach	
890-4218-10	SS10	Soluble	Solid	DI Leach	
890-4218-11	SS11	Soluble	Solid	DI Leach	
MB 880-47841/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-47841/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-47841/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4218-2 MS	SS02	Soluble	Solid	DI Leach	
890-4218-2 MSD	SS02	Soluble	Solid	DI Leach	

Analysis Batch: 47995

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4218-1	SS01	Soluble	Solid	300.0	47841
890-4218-2	SS02	Soluble	Solid	300.0	47841
890-4218-3	SS03	Soluble	Solid	300.0	47841
890-4218-4	SS04	Soluble	Solid	300.0	47841
890-4218-5	SS05	Soluble	Solid	300.0	47841
890-4218-6	SS06	Soluble	Solid	300.0	47841
890-4218-7	SS07	Soluble	Solid	300.0	47841
890-4218-8	SS08	Soluble	Solid	300.0	47841
890-4218-9	SS09	Soluble	Solid	300.0	47841
890-4218-10	SS10	Soluble	Solid	300.0	47841
890-4218-11	SS11	Soluble	Solid	300.0	47841
MB 880-47841/1-A	Method Blank	Soluble	Solid	300.0	47841
LCS 880-47841/2-A	Lab Control Sample	Soluble	Solid	300.0	47841
LCSD 880-47841/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	47841
890-4218-2 MS	SS02	Soluble	Solid	300.0	47841
890-4218-2 MSD	SS02	Soluble	Solid	300.0	47841

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Lab Chronicle

Client: Ensolum Job ID: 890-4218-1 Project/Site: Jazzmaster 17 ST 3H SDG: 03D2024165

Client Sample ID: SS01 Lab Sample ID: 890-4218-1

Matrix: Solid

Date Collected: 03/01/23 11:50 Date Received: 03/01/23 15:37

	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	48331	03/10/23 14:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48569	03/14/23 11:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48629	03/14/23 18:25	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47902	03/06/23 13:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47814	03/04/23 11:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47828	03/05/23 15:47	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	47841	03/05/23 14:44	СН	EET MID
Soluble	Analysis	300.0		1			47995	03/06/23 21:23	CH	EET MID

Client Sample ID: SS02 Lab Sample ID: 890-4218-2

Date Collected: 03/01/23 11:55 Matrix: Solid

Date Received: 03/01/23 15:37

	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	48331	03/10/23 14:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48569	03/14/23 12:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48629	03/14/23 18:25	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47902	03/06/23 13:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47814	03/04/23 11:06	AJ	EET MIC
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47828	03/05/23 16:10	SM	EET MIC
Soluble	Leach	DI Leach			5 g	50 mL	47841	03/05/23 14:44	СН	EET MIC
Soluble	Analysis	300.0		1			47995	03/06/23 21:28	CH	EET MID

Client Sample ID: SS03 Lab Sample ID: 890-4218-3 Date Collected: 03/01/23 12:00 **Matrix: Solid**

Date Received: 03/01/23 15:37

	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	48331	03/10/23 14:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48569	03/14/23 12:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48629	03/14/23 18:25	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47902	03/06/23 13:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	47814	03/04/23 11:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47828	03/05/23 16:32	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	47841	03/05/23 14:44	CH	EET MID
Soluble	Analysis	300.0		1			47995	03/06/23 21:43	CH	EET MID

Client Sample ID: SS04 Lab Sample ID: 890-4218-4

Date Collected: 03/01/23 12:05 Date Received: 03/01/23 15:37

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	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	48331	03/10/23 14:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48569	03/14/23 13:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48629	03/14/23 18:25	AJ	EET MID

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Matrix: Solid

Lab Chronicle

Client: EnsolumJob ID: 890-4218-1Project/Site: Jazzmaster 17 ST 3HSDG: 03D2024165

Client Sample ID: SS04

Lab Sample ID: 890-4218-4

Date Collected: 03/01/23 12:05

Date Received: 03/01/23 15:37

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			47902	03/06/23 13:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47814	03/04/23 11:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47828	03/05/23 16:54	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	47841	03/05/23 14:44	CH	EET MID
Soluble	Analysis	300.0		1			47995	03/06/23 21:48	CH	EET MID

Client Sample ID: SS05 Lab Sample ID: 890-4218-5

Date Collected: 03/01/23 12:10

Matrix: Solid

Date Received: 03/01/23 15:37

	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	48331	03/10/23 14:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48569	03/14/23 13:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48629	03/14/23 18:25	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47902	03/06/23 13:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47814	03/04/23 11:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47828	03/05/23 17:16	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	47841	03/05/23 14:44	CH	EET MID
Soluble	Analysis	300.0		1			47995	03/06/23 22:02	CH	EET MID

Client Sample ID: SS06 Lab Sample ID: 890-4218-6

Date Collected: 03/01/23 12:15 Date Received: 03/01/23 15:37

	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	48331	03/10/23 14:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48569	03/14/23 13:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48629	03/14/23 18:25	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47902	03/06/23 13:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47814	03/04/23 11:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47828	03/05/23 17:38	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	47841	03/05/23 14:44	CH	EET MID
Soluble	Analysis	300.0		1			47995	03/06/23 22:07	CH	EET MID

Client Sample ID: SS07 Lab Sample ID: 890-4218-7

Date Collected: 03/01/23 12:20 Date Received: 03/01/23 15:37

	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	48331	03/10/23 14:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48569	03/14/23 14:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48629	03/14/23 18:25	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47902	03/06/23 13:31	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.02 g 1 uL	10 mL 1 uL	47814 47828	03/04/23 11:06 03/05/23 18:00	AJ SM	EET MID EET MID

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Matrix: Solid

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Matrix: Solid

Client: Ensolum

Project/Site: Jazzmaster 17 ST 3H

Job ID: 890-4218-1 SDG: 03D2024165

Client Sample ID: SS07

Date Collected: 03/01/23 12:20 Date Received: 03/01/23 15:37

Lab Sample ID: 890-4218-7

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	47841	03/05/23 14:44	СН	EET MID
Soluble	Analysis	300.0		1			47995	03/06/23 22:12	CH	EET MID

Client Sample ID: SS08 Lab Sample ID: 890-4218-8

Date Collected: 03/01/23 12:25 Date Received: 03/01/23 15:37 **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			4.99 g	5 mL	48331	03/10/23 14:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48569	03/14/23 14:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48629	03/14/23 18:25	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47902	03/06/23 13:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47814	03/04/23 11:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47828	03/05/23 18:22	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	47841	03/05/23 14:44	СН	EET MID
Soluble	Analysis	300.0		1			47995	03/06/23 22:17	CH	EET MID

Client Sample ID: SS09 Lab Sample ID: 890-4218-9

Date Collected: 03/01/23 12:30 Date Received: 03/01/23 15:37 **Matrix: Solid**

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			5.05 g	5 mL	48331	03/10/23 14:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48569	03/14/23 14:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48629	03/14/23 18:25	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47902	03/06/23 13:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47814	03/04/23 11:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47828	03/05/23 18:45	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	47841	03/05/23 14:44	CH	EET MID
Soluble	Analysis	300.0		1			47995	03/06/23 22:22	CH	EET MID

Client Sample ID: SS10 Lab Sample ID: 890-4218-10

Date Collected: 03/01/23 12:35 Date Received: 03/01/23 15:37

	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	48331	03/10/23 14:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48569	03/14/23 15:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48629	03/14/23 18:25	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47902	03/06/23 13:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47814	03/04/23 11:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47828	03/05/23 19:06	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	47841	03/05/23 14:44	CH	EET MID
Soluble	Analysis	300.0		1			47995	03/06/23 22:26	CH	EET MID

Lab Chronicle

Client: EnsolumJob ID: 890-4218-1Project/Site: Jazzmaster 17 ST 3HSDG: 03D2024165

Client Sample ID: SS11 Lab Sample ID: 890-4218-11

Date Collected: 03/01/23 12:40
Date Received: 03/01/23 15:37
Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	48331	03/10/23 14:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48569	03/14/23 17:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48629	03/14/23 18:25	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47902	03/06/23 11:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47811	03/04/23 10:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47830	03/05/23 17:28	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	47841	03/05/23 14:44	CH	EET MID
Soluble	Analysis	300.0		1			47995	03/06/23 22:31	CH	EET MID

Client Sample ID: SS12 Lab Sample ID: 890-4218-12

Date Collected: 03/01/23 12:45

Date Received: 03/01/23 15:37

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	48331	03/10/23 14:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48569	03/14/23 17:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48629	03/14/23 18:25	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47902	03/06/23 11:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	47811	03/04/23 10:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47830	03/05/23 17:50	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	47773	03/03/23 15:56	СН	EET MID
Soluble	Analysis	300.0		10			47825	03/05/23 03:42	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: 890-4218-1 Project/Site: Jazzmaster 17 ST 3H

SDG: 03D2024165

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	• '	it the laboratory is not certif	ed by the governing authority. This list ma	ay include analytes for
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	
Total BTEX		Solid	Total BTFX	

Method Summary

Client: Ensolum

Project/Site: Jazzmaster 17 ST 3H

Job ID: 890-4218-1

SDG: 03D2024165

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

Eurofins Carlsbad

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Sample Summary

Client: Ensolum

Project/Site: Jazzmaster 17 ST 3H

Job ID: 890-4218-1

SDG: 03D2024165

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4218-1	SS01	Solid	03/01/23 11:50	03/01/23 15:37	0.5'
890-4218-2	SS02	Solid	03/01/23 11:55	03/01/23 15:37	0.5'
890-4218-3	SS03	Solid	03/01/23 12:00	03/01/23 15:37	0.5'
890-4218-4	SS04	Solid	03/01/23 12:05	03/01/23 15:37	0.5'
890-4218-5	SS05	Solid	03/01/23 12:10	03/01/23 15:37	0.5'
890-4218-6	SS06	Solid	03/01/23 12:15	03/01/23 15:37	0.5'
890-4218-7	SS07	Solid	03/01/23 12:20	03/01/23 15:37	0.5'
890-4218-8	SS08	Solid	03/01/23 12:25	03/01/23 15:37	0.5'
890-4218-9	SS09	Solid	03/01/23 12:30	03/01/23 15:37	0.5'
890-4218-10	SS10	Solid	03/01/23 12:35	03/01/23 15:37	0.5'
890-4218-11	SS11	Solid	03/01/23 12:40	03/01/23 15:37	0.5'
890-4218-12	SS12	Solid	03/01/23 12:45	03/01/23 15:37	0.5'

Relinquished by: (Signature)

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123 Date/Time

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Revised Date: 08/25/2020 Rev. 2020.2

Received by: (Signature)

eurofins 🛟

Xenco

Environment Testing

Chain of Custody

Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

Work Order No:

Project Manager: H	Hadlie Green			Bill to: (if different)	rent)	Hadlie	Hadlie Green			Wor	Work Order Comments
	Ensolum, LLC			Company Name:	me:	Ensolu	Ensolum, LLC			Program: UST/PST PRP Brownfields	.P ☐ Brownfields ☐ RRC ☐ Superfund ☐
	601 N Marienfeld St Suite 400	Suite 400		Address:		601 N	Marien	601 N Marienfeld St Suite 400	ite 400	State of Project:	
te ZIP:	Midland, TX 79701			City, State ZIP:	.0	Midlar	Midland, TX 79701	9701		Reporting: Level II Leve	Reporting: Level II
	432-557-8895		Email:	Email: hgreen@ensolum.com	solum.c	m				Deliverables: EDD	ADaPT Other:
Project Name:	Jazzmaster 17 ST 3H	ST 3H	Turn	Turn Around					ANALYSIS RE	S REQUEST	Preservative Codes
Project Number:	03D2024165	65	✓ Routine	Rush	Code						None: NO DI Water: H ₂ O
Project Location:	32.31105,-103.58742	.58742	Due Date:								Cool: Cool MeOH: Me
Sampler's Name:	Peter Van Patten	atten	TAT starts the	e day received l	ьу			_			
PO #			the lab, if rec	the lab, if received by 4:30pm	Ц						H ₂ S0 ₄ : H ₂ NaOH: Na
SAMPLE RECEIPT	Temp Blank:	Yes No	Wet Ice:	TYES NO	nete	.0)				-	H₃PO₄: HP
Samples Received Intact:		Thermometer ID:	ID:	TIM-CO	7	300					NaHSO ₄ . NABIS
Cooler Custody Seals:	Yes No	(N/A) Correction Factor:	ctor:	6.6	Pa	PA:					Na ₂ S ₂ O ₃ : NaSO ₃
Sample Custody Seals:	Yes No	NA Temperature Reading:	Reading:	×. C	L	S (E		1)			Zn Acetate+NaOH: Zn
Total Containers:		Corrected Temperature:	nperature:	3.6		RIDE	015	802	890-4218 Chain of Custody	stody	NaOn+Ascoldic Acid: SAF C
Sample Identification	Ification Matrix	Date Sampled	Time Sampled	Depth Grab/	np Cont	CHLO	TPH (8	BTEX			Sample Comments
SS01	Soil	3/1/2023	1150	0.5' Comp	7	×	×	×			
SS02	Soil	3/1/2023	1155	0.5' Comp	급	×	×	×			
SS03	Soil	3/1/2023	1200	0.5' Comp	3	×	×	×			
SS04	Soil	3/1/2023	1205	0.5' Comp	٦ ا	×	×	×			
SS05	Soil	3/1/2023	1210	0.5' Comp	np 1	×	×	×			
SS06	Soil	3/1/2023	1215	0.5' Comp	np 1	×	×	×			
SS07	Soil	3/1/2023	1220	0.5' Comp	<u>9</u>	×	×	×			
\$508	Soil	3/1/2023	1225	0.5' Comp	np 1	×	×	×			
SS09	Soil	3/1/2023	1230	0.5' Comp	ng 1	×	×	×			
\$\$10	Soil	3/1/2023	1235	0.5' Comp	mp 1	×	×	×			
Total 200.7 / 6010	10 200.8 / 6020:	84	8RCRA 13PPM	PM Texas 11	≥	Sb As	Ва Ве	B Cd	Ca Cr Co Cu Fe Pb	Mg Mn Mo Ni K Se Ag	SiO ₂ Na Sr Ti Sn U V Zn
Sircle Method(s) and	Circle Method(s) and Metal(s) to be analyzed	yzed	TCLP / S	TCLP / SPLP 6010: 8RCRA	8RCRA	Sb As Ba	s Ba	Be Cd	Cd Cr Co Cu Pb Mn Mo	Mo Ni Se Ag Ti U	Hg: 1631 / 245.1 / 7470 / 7471
otice: Signature of this do	ocument and relinquishmen will be liable only for the c	t of samples const ost of samples and	itutes a valid pu shall not assur	rchase order fro	om client co	ompany t	o Eurofin	s Xenco, i ses incuri	affiliates and subcontractors. d by the client if such losses ar	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	ditions
Tolina Aerico. A	Oissantino	Docaive.	bur (Cimpa	hiro)		Date	Time		Relinguished by: (Signature)		Received by: (Signature) Date/Time
Relinguished by: (Signature)	(Signature)	Received	Received by: (Signature)	ture)	_	Date/I ime	me		Relinquished by: (Signal		

eurofins :

Xenco

Environment Testing

Phone:

432-557-8895

Email: hgreen@ensolum.com

City, State ZIP:

Midland, TX 79701

601 N Marienfeld St Suite 400

Bill to: (if different) Company Name:

Ensolum, LLC Hadlie Green

City, State ZIP:

Midland, TX 79701

601 N Marienfeld St Suite 400

Company Name: Project Manager:

Ensolum, LLC Hadlie Green

Project Number:

Due Date: ☑ Routine

Project Name:

Jazzmaster 17 ST 3H

Turn Around

Rush

Pres. Code

ANALYSIS REQUEST

None: NO

DI Water: H₂O

Preservative Codes

03D2024165

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Chain of Custody

Midland, TX (432) 704-5440, San Antonio, TX (210) 50 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 79 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 98 Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

09-3334	Work Order No:
4-1296	
8-3199	2
	www.xenco.com Page of
	Work Order Comments
	Program: UST/PST ☐ PRP☐ Brownfields ☐ RRC ☐ Superfund ☐
	State of Project:
	Reporting: Level II Level III PST/UST TRRP Level IV
	Deliverables: EDD ☐ ADaPT ☐ Other:

	5		おったましている	Relinquished by: (Signature)	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcont 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 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. The	Circle Method(s) and Metal(s) to be analyzed	Total 200.7 / 6010 200.8 / 6020:						SS12 Soil	SS11 Soil	Sample Identification Matrix	Total Containers: Cc	Sample Custody Seals: Yes No N/A Te	Cooler Custody Seals: Yes No N/A Co	Samples Received Intact: Yes No Th	SAMPLE RECEIPT Temp Blank:	PO#:	Sampler's Name: Feter van Fatten
			who Stut	Received by: (Signature)	amples constitutes a valid purchase ord samples and shall not assume any respiled to each project and a charge of \$5 f		8RCRA 13PPM Texas 11 Al Sb As		,	Maria C	1		3/1/2023 1245 0.5'	3/1/2023 1240 0.5'	Date Time Sampled Depth	Corrected Temperature:	Temperature Reading:	Correction Faeter:	Thermometer ID:	Yes No Wet ice: Yes	the lab, if received by 4:30pm	I A I starts the day received by
			21-23 15	Date/Time	ler from client company to Eurofins sonsibility for any losses or expense or each sample submitted to Eurofi	IO: 8RCRA Sb As Ba B	xas 11 Al Sb As Ba Be B Cd				P -		Comp 1 x x	Comp 1 x x	Comp Cont CHLO	015)				nete	L	lived by
	6	4	537	Relinquished by: (Signature)	Xenco, its affiliates and subcontractors. It assigns incurred by the client if such losses are due to cins Xenco, but not analyzed. These terms will be ent	TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	B Cd Ca Cr Co Cu Fe Pb Mg Mr						×	×	BTEX	802						
				Received by: (Signature)	tractors. It assigns standard terms and conditions losses are due to circumstances beyond the control se terms will be enforced unless previously negotiated.	Ag TI U Hg: 1631 / 245.1 / 7470 / 7471	K Se A								φ.	NaOH+	Zn Ace	Na ₂ V ₂ C	NaHSO	H ₃ PO ₄ : HP	H ₂ S0 ₄ : H ₂	
Revised Date: 08/25/2020 Rev. 2020.2				Date/Time		7470 / 7471	Sn U V Zn								Sample Comments	NaOH+Ascorbic Acid: SAPC	Zn Acetate+NaOH: Zn	Na ₂ S ₂ U ₃ ; NaSU ₃	NaHSO ₄ : NABIS	¥	H ₂ NaOH: Na	

Login Sample Receipt Checklist

 Client: Ensolum
 Job Number: 890-4218-1

 SDG Number: 03D2024165

Login Number: 4218 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	

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Login Sample Receipt Checklist

 Client: Ensolum
 Job Number: 890-4218-1

 SDG Number: 03D2024165

SDG Number: 03D2024165

3/14/2023

Login Number: 4218
List Source: Eurofins Midland
List Number: 2
List Creation: 03/03/23 01:06 PM

Creator: Teel, Brianna

<6mm (1/4").

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	True	

Eurofins Carlsbad

Page 38 of 38

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Midland, Texas 79701

Generated 5/4/2023 7:08:37 PM

JOB DESCRIPTION

Jazzmaster 17 State 003H SDG NUMBER 03D2024165

JOB NUMBER

890-4587-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

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

Authorization

Generated 5/4/2023 7:08:37 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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Project/Site: Jazzmaster 17 State 003H

Client: Ensolum

Laboratory Job ID: 890-4587-1 SDG: 03D2024165

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Definitions/Glossary

Job ID: 890-4587-1 Client: Ensolum Project/Site: Jazzmaster 17 State 003H

SDG: 03D2024165

Qualifiers

GC VOA Qualifier

F1 MS and/or MSD recovery exceeds control limits. F2 MS/MSD RPD exceeds control limits S1-Surrogate recovery exceeds control limits, low biased.

Qualifier Description

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

GC Semi VOA

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

HPLC/IC

Qualifier **Qualifier Description** F1

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

Glossary

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

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

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

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

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

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

Quality Control QC

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: Jazzmaster 17 State 003H

Job ID: 890-4587-1

SDG: 03D2024165

Job ID: 890-4587-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4587-1

Receipt

The samples were received on 4/27/2023 2:45 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.6°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: FS01 (890-4587-1), FS02 (890-4587-2), FS03 (890-4587-3), FS04 (890-4587-4) and FS05 (890-4587-5).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-52339/5-A). Evidence of matrix interferences is not obvious.

Method 8021B: The following samples were diluted due to the nature of the sample matrix: (890-4587-A-1-E MS) and (890-4587-A-1-F MSD). Because of this dilution, the surrogate spike and matrix spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8021B: Surrogate recovery for the following sample was outside control limits: FS05 (890-4587-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-52362 recovered above the upper control limit for Toluene. An acceptable CCV was ran within the 12 hour window therefore, the data have been reported. The associated sample is impacted: (CCV 880-52362/29).

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-52362 recovered above the upper control limit for Benzene, Toluene, Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

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

GC Semi VOA

Method 8015MOD NM: The surrogate recovery for the blank associated with preparation batch 880-52286 and analytical batch 880-52249 was outside the upper control limits.

Method 8015MOD NM: Surrogate recovery for the following sample was outside control limits: (880-27756-A-4-C). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: CCV biased low however an acceptable CCV was ran within the 12 hour window therefore the data was qualified and reported.(CCV 880-52249/45)

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

HPI C/IC

Method 300 ORGFM 28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-52262 and analytical batch 880-52503 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. The associated samples are: FS01 (890-4587-1), FS02 (890-4587-2), FS03 (890-4587-3), FS04 (890-4587-4), FS05 (890-4587-5), (890-4587-A-1-B MS) and (890-4587-A-1-C MSD).

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

Case Narrative

Client: Ensolum

Project/Site: Jazzmaster 17 State 003H

SDG: 03D2024165

Job ID: 890-4587-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

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Client Sample Results

Client: Ensolum Job ID: 890-4587-1 Project/Site: Jazzmaster 17 State 003H SDG: 03D2024165

Client Sample ID: FS01 Lab Sample ID: 890-4587-1

Date Collected: 04/27/23 10:35 Matrix: Solid Date Received: 04/27/23 14:45

Sample Depth: 1.0

	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00198	U F1	0.00198	mg/Kg		05/01/23 11:17	05/03/23 05:46	
Toluene	<0.00198	U F1	0.00198	mg/Kg		05/01/23 11:17	05/03/23 05:46	
Ethylbenzene	<0.00198	U F1 F2	0.00198	mg/Kg		05/01/23 11:17	05/03/23 05:46	
m-Xylene & p-Xylene	<0.00396	U F1 F2	0.00396	mg/Kg		05/01/23 11:17	05/03/23 05:46	
o-Xylene	<0.00198	U F1 F2	0.00198	mg/Kg		05/01/23 11:17	05/03/23 05:46	
Xylenes, Total	<0.00396	U F1	0.00396	mg/Kg		05/01/23 11:17	05/03/23 05:46	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	111		70 - 130			05/01/23 11:17	05/03/23 05:46	
1,4-Difluorobenzene (Surr)	84		70 - 130			05/01/23 11:17	05/03/23 05:46	
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00396	U	0.00396	mg/Kg			05/03/23 11:14	
Analyte	Result	Qualifier	GC) RL	Unit	D	Prepared	Analyzed	Dil Fa
Analyte Total TPH		Qualifier	RL		<u>D</u>	Prepared		Dil Fa
Total TPH	<50.0	Qualifier U	RL 50.0	mg/Kg	<u>D</u>	Prepared	Analyzed 05/02/23 10:41	
Total TPH Method: SW846 8015B NM - Die	<50.0	Qualifier U	RL 50.0	mg/Kg			05/02/23 10:41	
Total TPH Method: SW846 8015B NM - Die Analyte	<50.0 esel Range Orga Result	Qualifier Unics (DRO) Qualifier	RL	mg/Kg	<u>D</u>	Prepared	05/02/23 10:41 Analyzed	Dil Fa
Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics	<50.0	Qualifier Unics (DRO) Qualifier	RL 50.0	mg/Kg			05/02/23 10:41	Dil Fa
Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10	<50.0 esel Range Orga Result <50.0	Qualifier U nics (DRO) Qualifier U	RL 50.0 (GC) RL 50.0	mg/Kg Unit mg/Kg		Prepared 05/01/23 10:35	05/02/23 10:41 Analyzed 05/01/23 17:01	Dil Fa
Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<50.0 esel Range Orga Result	Qualifier U nics (DRO) Qualifier U	RL	mg/Kg		Prepared	05/02/23 10:41 Analyzed	Dil Fa
Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<50.0 esel Range Orga Result <50.0	Qualifier U nics (DRO) Qualifier U	RL 50.0 (GC) RL 50.0	mg/Kg Unit mg/Kg		Prepared 05/01/23 10:35	05/02/23 10:41 Analyzed 05/01/23 17:01	Dil Fa
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)	<50.0 esel Range Orga Result <50.0 <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 05/01/23 10:35 05/01/23 10:35	05/02/23 10:41 Analyzed 05/01/23 17:01 05/01/23 17:01	Dil Fa
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) Total TPH	<50.0 See Range Orga Result <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <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 mg/Kg		Prepared 05/01/23 10:35 05/01/23 10:35 05/01/23 10:35	05/02/23 10:41 Analyzed 05/01/23 17:01 05/01/23 17:01 05/01/23 17:01	Dil Fa
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) Total TPH Surrogate	<50.0 esel Range Orga Result <50.0 <50.0 <50.0 <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 mg/Kg		Prepared 05/01/23 10:35 05/01/23 10:35 05/01/23 10:35 05/01/23 10:35	Analyzed 05/01/23 17:01 05/01/23 17:01 05/01/23 17:01 05/01/23 17:01	Dil Fa
	<50.0 esel Range Orga Result <50.0 <50.0 <50.0 <50.0 %Recovery	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 mg/Kg		Prepared 05/01/23 10:35 05/01/23 10:35 05/01/23 10:35 05/01/23 10:35 Prepared	05/02/23 10:41 Analyzed 05/01/23 17:01 05/01/23 17:01 05/01/23 17:01 Analyzed	
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) Total TPH Surrogate 1-Chlorooctane	<50.0 esel Range Orga Result <50.0 <50.0 <50.0 <50.0 %Recovery 121 123	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 50.0 (GC) RL 50.0 50.0 50.0 50.0 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg mg/Kg		Prepared 05/01/23 10:35 05/01/23 10:35 05/01/23 10:35 05/01/23 10:35 Prepared 05/01/23 10:35	Analyzed 05/01/23 17:01 05/01/23 17:01 05/01/23 17:01 05/01/23 17:01 Analyzed 05/01/23 17:01	Dil Fa

Client Sample ID: FS02 Lab Sample ID: 890-4587-2

5.01

mg/Kg

72.8 F1

Date Collected: 04/27/23 10:45 Date Received: 04/27/23 14:45

Sample Depth: 1.0

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/01/23 11:17	05/03/23 06:12	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/01/23 11:17	05/03/23 06:12	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/01/23 11:17	05/03/23 06:12	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/01/23 11:17	05/03/23 06:12	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/01/23 11:17	05/03/23 06:12	1
Xylenes, Total	< 0.00399	U	0.00399	mg/Kg		05/01/23 11:17	05/03/23 06:12	1

05/03/23 13:56

Matrix: Solid

Released to Imaging: 5/23/2023 2:28:51 PM

Matrix: Solid

Lab Sample ID: 890-4587-2

Client Sample Results

Client: Ensolum Job ID: 890-4587-1 Project/Site: Jazzmaster 17 State 003H SDG: 03D2024165

Client Sample ID: FS02

Date Collected: 04/27/23 10:45 Date Received: 04/27/23 14:45

Sample Depth: 1.0

Surrogate	%Recovery Q	Qualifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129	70 - 130	05/01/23 11:17	05/03/23 06:12	1
1,4-Difluorobenzene (Surr)	86	70 - 130	05/01/23 11:17	05/03/23 06:12	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			05/03/23 11:14	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/02/23 10:41	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/01/23 10:35	05/01/23 17:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/01/23 10:35	05/01/23 17:22	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/01/23 10:35	05/01/23 17:22	1
Total TPH	<49.9	U	49.9	mg/Kg		05/01/23 10:35	05/01/23 17:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130	05/01/23 10:35	05/01/23 17:22	1
o-Terphenyl	127		70 - 130	05/01/23 10:35	05/01/23 17:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	66.1		4.99	mg/Kg			05/03/23 14:12	1

Client Sample ID: FS03 Lab Sample ID: 890-4587-3

Date Collected: 04/27/23 11:05 Date Received: 04/27/23 14:45

Sample Depth: 1.0

Mothod: SW846 8021B	- Volatile Organic Compounds	(CC)

Method: Swo46 8021B - Volat	ne Organic Comp	ounus (GC))					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		05/01/23 11:17	05/03/23 06:38	1
Toluene	<0.00198	U	0.00198	mg/Kg		05/01/23 11:17	05/03/23 06:38	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		05/01/23 11:17	05/03/23 06:38	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		05/01/23 11:17	05/03/23 06:38	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		05/01/23 11:17	05/03/23 06:38	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		05/01/23 11:17	05/03/23 06:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130			05/01/23 11:17	05/03/23 06:38	1

4-Bromofluorobenzene (Surr)	122	70 - 130	05/01/23 11:17	05/03/23 06:38	1
1,4-Difluorobenzene (Surr)	90	70 - 130	05/01/23 11:17	05/03/23 06:38	1
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Mothod: TAI	SOD Tota	I DTEV Tota	I BTEX Calculat	tion
I WELLIOU, IAL	- OUP IUIA	II D I EA - IUIA	II DIEA GAIGUIAI	uui

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			05/03/23 11:14	1

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Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-4587-3

Client: Ensolum Job ID: 890-4587-1
Project/Site: Jazzmaster 17 State 003H SDG: 03D2024165

Client Sample ID: FS03

Date Collected: 04/27/23 11:05 Date Received: 04/27/23 14:45

Sample Depth: 1.0

Method: SW846 8015 NM - Diesel F	Range Organi	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg	 _		05/02/23 10:41	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/01/23 10:35	05/01/23 17:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/01/23 10:35	05/01/23 17:44	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/01/23 10:35	05/01/23 17:44	1
Total TPH	<49.9	U	49.9	mg/Kg		05/01/23 10:35	05/01/23 17:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130			05/01/23 10:35	05/01/23 17:44	1
o-Terphenyl	104		70 - 130			05/01/23 10:35	05/01/23 17:44	1

Method: EPA 300.0 - Anions, Ion Ch	romatograp	hy - Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	69.1		4.95	mg/Kg			05/03/23 14:17	1

Client Sample ID: FS04

Date Collected: 04/27/23 11:15

Lab Sample ID: 890-4587-4

Matrix: Solid

Date Collected: 04/27/23 11:15 Date Received: 04/27/23 14:45

Sample Depth: 1.0

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/01/23 11:17	05/03/23 07:05	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/01/23 11:17	05/03/23 07:05	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/01/23 11:17	05/03/23 07:05	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/01/23 11:17	05/03/23 07:05	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/01/23 11:17	05/03/23 07:05	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/01/23 11:17	05/03/23 07:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130			05/01/23 11:17	05/03/23 07:05	1
4.4.D'fl	84		70 - 130			05/04/00 44:47	05/03/23 07:05	
1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX - Analyte	Total BTEX Calc	Qualifier	RL	Unit	<u>D</u>	05/01/23 11:17 Prepared	Analyzed	
Method: TAL SOP Total BTEX - Analyte Total BTEX	Total BTEX Cald Result <0.00399	Qualifier U	RL 0.00399	<mark>Unit</mark> mg/Kg	<u> </u>			
Method: TAL SOP Total BTEX - Analyte Total BTEX Method: SW846 8015 NM - Dies	Total BTEX Cald Result <0.00399 el Range Organi	Qualifier U	RL 0.00399		<u>D</u>	Prepared	Analyzed 05/03/23 11:14	Dil Fac
Method: TAL SOP Total BTEX - Analyte Total BTEX	Total BTEX Cald Result <0.00399 el Range Organi	Qualifier U ics (DRO) (C	RL 0.00399	mg/Kg			Analyzed	Dil Fac
Method: TAL SOP Total BTEX - Analyte Total BTEX Method: SW846 8015 NM - Dies Analyte Total TPH	Total BTEX Calc Result <0.00399 el Range Organi Result <49.8	Qualifier U ics (DRO) (Control Qualifier U	RL 0.00399 GC) RL 49.8	mg/Kg		Prepared	Analyzed 05/03/23 11:14 Analyzed	Dil Fac
Method: TAL SOP Total BTEX - Analyte Total BTEX Method: SW846 8015 NM - Dies Analyte	Total BTEX Calc Result <0.00399 el Range Organi Result <49.8 esel Range Orga	Qualifier U ics (DRO) (Control Qualifier U	RL 0.00399 GC) RL 49.8	mg/Kg		Prepared	Analyzed 05/03/23 11:14 Analyzed	Dil Fac
Method: TAL SOP Total BTEX - Analyte Total BTEX Method: SW846 8015 NM - Dies Analyte Total TPH Method: SW846 8015B NM - Die	Total BTEX Calc Result <0.00399 el Range Organi Result <49.8 esel Range Orga	Qualifier U ics (DRO) (Control of the property of the propert	RL 0.00399 GC) RL 49.8	mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 05/03/23 11:14 Analyzed 05/02/23 10:41	Dil Fac
Method: TAL SOP Total BTEX - Analyte Total BTEX Method: SW846 8015 NM - Dies Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics	Total BTEX Calc Result <0.00399 el Range Organi Result <49.8 esel Range Orga Result	Qualifier U CCS (DRO) (CO) Qualifier U CON Qualifier U Qualifier U Qualifier U	RL 0.00399 GC) RL 49.8 (GC) RL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 05/03/23 11:14 Analyzed 05/02/23 10:41 Analyzed	Dil Fac

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Job ID: 890-4587-1

Client: Ensolum Project/Site: Jazzmaster 17 State 003H SDG: 03D2024165

Client Sample ID: FS04 Lab Sample ID: 890-4587-4 Matrix: Solid

Date Collected: 04/27/23 11:15 Date Received: 04/27/23 14:45 Sample Depth: 1.0

Method: SW846 8015B NM -	Diesel Range Orga	nics (DRO)	(GC) (Continued)	1				
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg		05/01/23 10:35	05/01/23 18:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130			05/01/23 10:35	05/01/23 18:06	1
o-Temhenyl	122		70 - 130			05/01/23 10:35	05/01/23 18:06	1

Method: EPA 300.0 - Anions, Ion C	hromatography - Soluble						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	64.3	4.99	mg/Kg			05/03/23 14:34	1

Client Sample ID: FS05 Lab Sample ID: 890-4587-5

Date Collected: 04/27/23 11:20 Matrix: Solid Date Received: 04/27/23 14:45

Sample Depth: 1.0

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/01/23 11:17	05/03/23 07:32	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/01/23 11:17	05/03/23 07:32	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/01/23 11:17	05/03/23 07:32	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		05/01/23 11:17	05/03/23 07:32	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/01/23 11:17	05/03/23 07:32	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		05/01/23 11:17	05/03/23 07:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130			05/01/23 11:17	05/03/23 07:32	1
1,4-Difluorobenzene (Surr)	93		70 - 130			05/01/23 11:17	05/03/23 07:32	1
- Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			05/03/23 11:14	1
· -								
Mothod: SW846 8015 NM - Dioce	ol Pango Organ	ice (DPO) (GC)					
		ics (DRO) (Qualifier	GC) RL	Unit	D	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH		Qualifier	•	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 05/02/23 10:41	Dil Fac
Analyte Total TPH	Result <50.0	Qualifier U	RL 50.0		<u>D</u>	Prepared		Dil Fac
Analyte Total TPH	Result <50.0 sel Range Orga	Qualifier U	RL 50.0		<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: SW846 8015B NM - Dies	Result <50.0 sel Range Orga	Qualifier U unics (DRO) Qualifier	RL 50.0	mg/Kg		•	05/02/23 10:41	1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte	Result <50.0 sel Range Orga	Qualifier U unics (DRO) Qualifier	RL 50.0 (GC)	mg/Kg		Prepared	05/02/23 10:41 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result <50.0 sel Range Orga	Qualifier U unics (DRO) Qualifier U	RL 50.0 (GC)	mg/Kg		Prepared	05/02/23 10:41 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0 Sel Range Orga Result <50.0	Qualifier U unics (DRO) Qualifier U	RL 50.0 (GC) RL 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 05/01/23 10:35 05/01/23 10:35	05/02/23 10:41 Analyzed 05/01/23 18:27 05/01/23 18:27	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 <50.0	Qualifier U unics (DRO) Qualifier U	(GC) RL 50.0	mg/Kg Unit mg/Kg		Prepared 05/01/23 10:35	05/02/23 10:41 Analyzed 05/01/23 18:27	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result	Qualifier U unics (DRO) Qualifier U U	RL 50.0 (GC) RL 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 05/01/23 10:35 05/01/23 10:35	05/02/23 10:41 Analyzed 05/01/23 18:27 05/01/23 18:27	Dil Fac 1 1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier U unics (DRO) Qualifier U U U	RL 50.0 (GC) RL 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg mg/Kg		Prepared 05/01/23 10:35 05/01/23 10:35 05/01/23 10:35	05/02/23 10:41 Analyzed 05/01/23 18:27 05/01/23 18:27	1 Dil Fac 1 1 1 1 1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	Result <50.0	Qualifier U unics (DRO) Qualifier U U U	RL 50.0 (GC) RL 50.0 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg mg/Kg		Prepared 05/01/23 10:35 05/01/23 10:35 05/01/23 10:35 05/01/23 10:35	05/02/23 10:41 Analyzed 05/01/23 18:27 05/01/23 18:27 05/01/23 18:27 05/01/23 18:27	1 Dil Fac 1 1 1

Client Sample Results

Client: Ensolum Job ID: 890-4587-1
Project/Site: Jazzmaster 17 State 003H SDG: 03D2024165

Client Sample ID: FS05 Lab Sample ID: 890-4587-5

Date Collected: 04/27/23 11:20 Matrix: Solid
Date Received: 04/27/23 14:45

Sample Depth: 1.0

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac			
Chloride	65.0	5.04	mg/Kg			05/03/23 14:39	1			

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Surrogate Summary

Client: Ensolum Job ID: 890-4587-1
Project/Site: Jazzmaster 17 State 003H SDG: 03D2024165

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)	
890-4587-1	FS01	111	84	
890-4587-1 MS	FS01	120	77	
890-4587-1 MSD	FS01	113	88	
890-4587-2	FS02	129	86	
890-4587-3	FS03	122	90	
890-4587-4	FS04	127	84	
890-4587-5	FS05	132 S1+	93	
LCS 880-52289/1-A	Lab Control Sample	117	92	
LCSD 880-52289/2-A	Lab Control Sample Dup	112	104	
MB 880-52289/5-A	Method Blank	70	82	
MB 880-52339/5-A	Method Blank	68 S1-	83	
Surrogate Legend				

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limit
		1CO1	OTPH1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
30-27756-A-4-D MS	Matrix Spike	83	81	
0-27756-A-4-E MSD	Matrix Spike Duplicate	84	84	
0-4587-1	FS01	121	123	
0-4587-2	FS02	120	127	
00-4587-3	FS03	100	104	
0-4587-4	FS04	119	122	
0-4587-5	FS05	95	101	
S 880-52286/2-A	Lab Control Sample	98	104	
SD 880-52286/3-A	Lab Control Sample Dup	114	120	
B 880-52286/1-A	Method Blank	113	134 S1+	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-4587-1 SDG: 03D2024165 Project/Site: Jazzmaster 17 State 003H

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-52289/5-A

Matrix: Solid Analysis Batch: 52362 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 52289

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/01/23 11:17	05/03/23 05:20	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/01/23 11:17	05/03/23 05:20	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/01/23 11:17	05/03/23 05:20	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/01/23 11:17	05/03/23 05:20	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/01/23 11:17	05/03/23 05:20	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/01/23 11:17	05/03/23 05:20	1

мв мв

MD MD

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	70		70 - 130	05/01/23 11:17	05/03/23 05:20	1
1,4-Difluorobenzene (Surr)	82		70 - 130	05/01/23 11:17	05/03/23 05:20	1

Client Sample ID: Lab Control Sample Lab Sample ID: LCS 880-52289/1-A

Matrix: Solid

Analysis Batch: 52362

Prep Type: Total/NA

Prep Batch: 52289

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1195	-	mg/Kg		119	70 - 130	
Toluene	0.100	0.1194		mg/Kg		119	70 - 130	
Ethylbenzene	0.100	0.1056		mg/Kg		106	70 - 130	
m-Xylene & p-Xylene	0.200	0.2132		mg/Kg		107	70 - 130	
o-Xylene	0.100	0.1059		mg/Kg		106	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	117	70 - 130
1,4-Difluorobenzene (Surr)	92	70 - 130

Lab Sample ID: LCSD 880-52289/2-A

Matrix: Solid

Analysis Batch: 52362

Prep Type: Total/NA

Prep Batch: 52289

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1247		mg/Kg		125	70 - 130	4	35	
Toluene	0.100	0.1244		mg/Kg		124	70 - 130	4	35	
Ethylbenzene	0.100	0.1055		mg/Kg		105	70 - 130	0	35	
m-Xylene & p-Xylene	0.200	0.2008		mg/Kg		100	70 - 130	6	35	
o-Xylene	0.100	0.1050		mg/Kg		105	70 - 130	1	35	

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1.4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 890-4587-1 MS

Matrix: Solid

Analysis Batch: 52362

Client Sample ID: FS01 Prep Type: Total/NA

Prep Batch: 52289

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00198	U F1	0.0998	<0.00200	U F1	mg/Kg		2	70 - 130	
Toluene	<0.00198	U F1	0.0998	<0.00200	U F1	mg/Kg		0	70 - 130	

1,4-Difluorobenzene (Surr)

QC Sample Results

Client: Ensolum Job ID: 890-4587-1 Project/Site: Jazzmaster 17 State 003H SDG: 03D2024165

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

Lab Sample ID: 890-4587-1 MS **Client Sample ID: FS01 Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 52362 Prep Batch: 52289

Sample	Sample	Бріке	IVIS	M2				%Rec
Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
<0.00198	U F1 F2	0.0998	0.002590	F1	mg/Kg		3	70 - 130
< 0.00396	U F1 F2	0.200	0.004991	F1	mg/Kg		3	70 - 130
<0.00198	U F1 F2	0.0998	0.002593	F1	mg/Kg		3	70 - 130
	Result <0.00198 <0.00396		Result Qualifier Added <0.00198	Result Qualifier Added Result <0.00198	Result Qualifier Added Result Qualifier <0.00198	Result Qualifier Added Result Qualifier Unit <0.00198	Result Qualifier Added Result Qualifier Unit D <0.00198	Result Qualifier Added Result Qualifier Unit D %Rec <0.00198

MS MS Surrogate %Recovery Qualifier Limits 70 - 130 4-Bromofluorobenzene (Surr) 120 70 - 130

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Client Sample ID: FS01 Lab Sample ID: 890-4587-1 MSD **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 52362 Prep Batch: 52289

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00198	U F1	0.100	<0.00201	U F1	mg/Kg		1	70 - 130	28	35
Toluene	<0.00198	U F1	0.100	<0.00201	U F1	mg/Kg		0	70 - 130	NC	35
Ethylbenzene	<0.00198	U F1 F2	0.100	<0.00201	U F1 F2	mg/Kg		0.6	70 - 130	122	35
m-Xylene & p-Xylene	<0.00396	U F1 F2	0.201	<0.00402	U F1 F2	mg/Kg		0.7	70 - 130	108	35
o-Xylene	<0.00198	U F1 F2	0.100	<0.00201	U F1 F2	mg/Kg		1	70 - 130	71	35

MSD MSD Surrogate Qualifier Limits %Recovery 70 - 130 4-Bromofluorobenzene (Surr) 113 1,4-Difluorobenzene (Surr) 70 - 130 88

Lab Sample ID: MB 880-52339/5-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 52362 Prep Batch: 52339 MB MB

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/01/23 15:45	05/02/23 15:51	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/01/23 15:45	05/02/23 15:51	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/01/23 15:45	05/02/23 15:51	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/01/23 15:45	05/02/23 15:51	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/01/23 15:45	05/02/23 15:51	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/01/23 15:45	05/02/23 15:51	1

	MB I	MB				
Surrogate	%Recovery (Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	68 3	S1-	70 - 130	05/01/23 15:45	05/02/23 15:51	1
1,4-Difluorobenzene (Surr)	83		70 - 130	05/01/23 15:45	05/02/23 15:51	1

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

Lab Sample ID: MB 880-52286/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 52249 Prep Batch: 52286

мв мв Result Qualifier Unit Prepared

<50.0 U 50.0 mg/Kg 05/01/23 08:35 05/01/23 10:23 Gasoline Range Organics (GRO)-C6-C10

Client: Ensolum Job ID: 890-4587-1 Project/Site: Jazzmaster 17 State 003H SDG: 03D2024165

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

Lab Sample ID: MB 880-52286/1-A

Matrix: Solid Analysis Batch: 52249 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 52286

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		05/01/23 08:35	05/01/23 10:23	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/01/23 08:35	05/01/23 10:23	1
Total TPH	<50.0	U	50.0	mg/Kg		05/01/23 08:35	05/01/23 10:23	1
	МВ	МВ						

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130	05/01/23 08:35	05/01/23 10:23	1
o-Terphenyl	134	S1+	70 - 130	05/01/23 08:35	05/01/23 10:23	1

Lab Sample ID: LCS 880-52286/2-A **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 52249 Prep Batch: 52286

LCS LCS Spike %Rec Added Result Qualifier Analyte Unit D %Rec Limits Gasoline Range Organics 1000 829.8 83 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 764.3 mg/Kg 76 70 - 130 C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenyl	104		70 - 130

Client Sample ID: Lab Control Sample Dup Lab Sample ID: LCSD 880-52286/3-A

Matrix: Solid

Analysis Batch: 52249

Prep Type: Total/NA Prep Batch: 52286

Spike LCSD LCSD %Rec RPD Added Result Qualifier Unit %Rec Limit Analyte Limits Gasoline Range Organics 1000 902.4 90 70 - 130 20 8 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 899.4 mg/Kg 90 70 - 130 16 20

C10-C28)

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	114		70 - 130
o-Terphenyl	120		70 - 130

Lab Sample ID: 880-27756-A-4-D MS Client Sample ID: Matrix Spike **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 52249

Sample Sample Spike MS MS Result Qualifier Added Analyte Result Qualifier %Rec Limits Unit

<50.0 U Gasoline Range Organics 998 1054 mg/Kg 106 70 - 130(GRO)-C6-C10 <50.0 U 998 773.6 mg/Kg 76 70 - 130 Diesel Range Organics (Over

C10-C28)

MS MS %Recovery Surrogate Qualifier Limits 1-Chlorooctane 70 - 130 83

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Prep Batch: 52286

Prep Batch: 52286

Client Sample ID: Matrix Spike Duplicate

Client Sample ID: Lab Control Sample Dup

Job ID: 890-4587-1 Client: Ensolum Project/Site: Jazzmaster 17 State 003H SDG: 03D2024165

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

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Lab Sample ID: 880-27756-A-4-D MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 52249

MS MS %Recovery Qualifier Limits

Lab Sample ID: 880-27756-A-4-E MSD

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 52249** Prep Batch: 52286 MSD MSD Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD

70 - 130

RPD Limit Gasoline Range Organics <50.0 U 997 1184 mg/Kg 119 70 - 130 12 20 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 997 800.7 mg/Kg 79 70 - 130 3 20 C10-C28)

Surrogate

o-Terphenyl

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

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-52262/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 52503

MB MB

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 05/03/23 12:25 mg/Kg

Lab Sample ID: LCS 880-52262/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 52503

LCS LCS Spike %Rec Analyte Added Qualifier Result Unit %Rec Limits Chloride 250 232.3 90 - 110 mg/Kg

Lab Sample ID: LCSD 880-52262/3-A

Matrix: Solid

Analysis Batch: 52503

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit %Rec RPD Limit D Limits Chloride 250 234.2 94 20 90 - 110 mg/Kg

Lab Sample ID: 890-4587-1 MS

Matrix: Solid

Analysis Batch: 52503

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	Sample Samp	ole Spike	MS	MS				%Rec
Analyte	Result Quali	fier Added	Result	Qualifier	Unit	D	%Rec	Limits
Chloride	72.8 F1	251	272.5	F1	ma/Ka		80	90 - 110

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Prep Type: Soluble

Client Sample ID: FS01

Prep Type: Soluble

QC Sample Results

Client: Ensolum Job ID: 890-4587-1
Project/Site: Jazzmaster 17 State 003H SDG: 03D2024165

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-4587-1 MSD

Matrix: Solid

Client Sample ID: FS01

Prep Type: Soluble

Analysis Batch: 52503

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	72.8	F1	251	272.0	F1	mg/Kg		80	90 - 110		20

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QC Association Summary

Client: Ensolum

Project/Site: Jazzmaster 17 State 003H

Job ID: 890-4587-1 SDG: 03D2024165

GC VOA

Prep Batch: 52289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4587-1	FS01	Total/NA	Solid	5035	
890-4587-2	FS02	Total/NA	Solid	5035	
890-4587-3	FS03	Total/NA	Solid	5035	
890-4587-4	FS04	Total/NA	Solid	5035	
890-4587-5	FS05	Total/NA	Solid	5035	
MB 880-52289/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-52289/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-52289/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4587-1 MS	FS01	Total/NA	Solid	5035	
890-4587-1 MSD	FS01	Total/NA	Solid	5035	

Prep Batch: 52339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-52339/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 52362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4587-1	FS01	Total/NA	Solid	8021B	52289
890-4587-2	FS02	Total/NA	Solid	8021B	52289
890-4587-3	FS03	Total/NA	Solid	8021B	52289
890-4587-4	FS04	Total/NA	Solid	8021B	52289
890-4587-5	FS05	Total/NA	Solid	8021B	52289
MB 880-52289/5-A	Method Blank	Total/NA	Solid	8021B	52289
MB 880-52339/5-A	Method Blank	Total/NA	Solid	8021B	52339
LCS 880-52289/1-A	Lab Control Sample	Total/NA	Solid	8021B	52289
LCSD 880-52289/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	52289
890-4587-1 MS	FS01	Total/NA	Solid	8021B	52289
890-4587-1 MSD	FS01	Total/NA	Solid	8021B	52289

Analysis Batch: 52497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4587-1	FS01	Total/NA	Solid	Total BTEX	
890-4587-2	FS02	Total/NA	Solid	Total BTEX	
890-4587-3	FS03	Total/NA	Solid	Total BTEX	
890-4587-4	FS04	Total/NA	Solid	Total BTEX	
890-4587-5	FS05	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 52249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4587-1	FS01	Total/NA	Solid	8015B NM	52286
890-4587-2	FS02	Total/NA	Solid	8015B NM	52286
890-4587-3	FS03	Total/NA	Solid	8015B NM	52286
890-4587-4	FS04	Total/NA	Solid	8015B NM	52286
890-4587-5	FS05	Total/NA	Solid	8015B NM	52286
MB 880-52286/1-A	Method Blank	Total/NA	Solid	8015B NM	52286
LCS 880-52286/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	52286
LCSD 880-52286/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	52286
880-27756-A-4-D MS	Matrix Spike	Total/NA	Solid	8015B NM	52286
880-27756-A-4-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	52286

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QC Association Summary

Client: Ensolum

Project/Site: Jazzmaster 17 State 003H

Job ID: 890-4587-1 SDG: 03D2024165

GC Semi VOA Prep Batch: 52286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4587-1	FS01	Total/NA	Solid	8015NM Prep	
890-4587-2	FS02	Total/NA	Solid	8015NM Prep	
890-4587-3	FS03	Total/NA	Solid	8015NM Prep	
890-4587-4	FS04	Total/NA	Solid	8015NM Prep	
890-4587-5	FS05	Total/NA	Solid	8015NM Prep	
MB 880-52286/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-52286/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-52286/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-27756-A-4-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-27756-A-4-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 52381

Lab Sample ID 890-4587-1	Client Sample ID FS01	Prep Type Total/NA	Matrix Solid	Method 8015 NM	Prep Batch
890-4587-2	FS02	Total/NA	Solid	8015 NM	
890-4587-3	FS03	Total/NA	Solid	8015 NM	
890-4587-4	FS04	Total/NA	Solid	8015 NM	
890-4587-5	FS05	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 52262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4587-1	FS01	Soluble	Solid	DI Leach	
890-4587-2	FS02	Soluble	Solid	DI Leach	
890-4587-3	FS03	Soluble	Solid	DI Leach	
890-4587-4	FS04	Soluble	Solid	DI Leach	
890-4587-5	FS05	Soluble	Solid	DI Leach	
MB 880-52262/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-52262/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-52262/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4587-1 MS	FS01	Soluble	Solid	DI Leach	
890-4587-1 MSD	FS01	Soluble	Solid	DI Leach	

Analysis Batch: 52503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4587-1	FS01	Soluble	Solid	300.0	52262
890-4587-2	FS02	Soluble	Solid	300.0	52262
890-4587-3	FS03	Soluble	Solid	300.0	52262
890-4587-4	FS04	Soluble	Solid	300.0	52262
890-4587-5	FS05	Soluble	Solid	300.0	52262
MB 880-52262/1-A	Method Blank	Soluble	Solid	300.0	52262
LCS 880-52262/2-A	Lab Control Sample	Soluble	Solid	300.0	52262
LCSD 880-52262/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	52262
890-4587-1 MS	FS01	Soluble	Solid	300.0	52262
890-4587-1 MSD	FS01	Soluble	Solid	300.0	52262

Eurofins Carlsbad

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Client Sample ID: FS01

Date Collected: 04/27/23 10:35 Date Received: 04/27/23 14:45

Lab Sample ID: 890-4587-1

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Prep Type Method Run Amount Amount Number or Analyzed Analyst Type Factor Lab Total/NA Prep 5035 5.05 g 5 mL 52289 05/01/23 11:17 MNR **EET MID** Total/NA Analysis 8021B 1 5 mL 5 mL 52362 05/03/23 05:46 MNR EET MID Total/NA Analysis Total BTEX 52497 05/03/23 11:14 SM **EET MID** Total/NA Analysis 8015 NM 1 52381 05/02/23 10:41 SM **EET MID** 52286 05/01/23 10:35 EET MID Total/NA 8015NM Prep 10.01 g 10 ml Prep A.I Total/NA Analysis 8015B NM 1 uL 1 uL 52249 05/01/23 17:01 SM **EET MID** 4.99 g 50 mL 52262 05/01/23 09:37 KS Soluble DI Leach FFT MID Leach Soluble Analysis 300.0 50 mL 50 mL 52503 05/03/23 13:56 SMC **EET MID**

Client Sample ID: FS02 Lab Sample ID: 890-4587-2

Date Collected: 04/27/23 10:45

Matrix: Solid

Matrix: Solid

Date Received: 04/27/23 14:45

Dil Initial Final Batch Batch Batch Prepared Prep Type Method Amount Amount Number or Analyzed Type Run Factor **Analyst** Lab Total/NA Prep 5035 5.01 g 5 mL 52289 05/01/23 11:17 MNR EET MID 8021B Total/NA Analysis 1 5 mL 5 mL 52362 05/03/23 06:12 MNR **EET MID** Total/NA Total BTEX Analysis 52497 05/03/23 11:14 SM **EET MID** 1 Total/NA Analysis 8015 NM 52381 05/02/23 10:41 SM **EET MID** Total/NA 8015NM Prep 10.02 g 10 mL 52286 05/01/23 10:35 FFT MID Prep A.I Total/NA Analysis 8015B NM 1 uL 1 uL 52249 05/01/23 17:22 SM **EET MID** Soluble DI Leach 5.01 g 52262 05/01/23 09:37 KS **EET MID** Leach 50 mL Soluble 300.0 50 mL 50 mL 52503 05/03/23 14:12 SMC **EET MID** Analysis

Client Sample ID: FS03 Lab Sample ID: 890-4587-3

Date Collected: 04/27/23 11:05 Date Received: 04/27/23 14:45

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA Prep 5035 5.05 g 5 mL 52289 05/01/23 11:17 MNR **EET MID** Total/NA Analysis 8021B 5 mL 5 mL 52362 05/03/23 06:38 MNR **EET MID** 1 Total/NA Total BTEX 52497 05/03/23 11:14 SM FFT MID Analysis 1 Total/NA Analysis 8015 NM 52381 05/02/23 10:41 SM **EET MID** Total/NA Prep 8015NM Prep 10.02 g 10 ml 52286 05/01/23 10:35 A.I FFT MID Total/NA 8015B NM 52249 05/01/23 17:44 Analysis 1 uL 1 uL SM **EET MID** DI Leach 5.05 g 50 mL 52262 05/01/23 09:37 KS Soluble Leach **EET MID** 300.0 50 mL 50 mL 52503 05/03/23 14:17 SMC Soluble Analysis EET MID

Client Sample ID: FS04 Lab Sample ID: 890-4587-4

Date Collected: 04/27/23 11:15 Date Received: 04/27/23 14:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	52289	05/01/23 11:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52362	05/03/23 07:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52497	05/03/23 11:14	SM	EET MID

Eurofins Carlsbad

Matrix: Solid

Lab Chronicle

Client: Ensolum Job ID: 890-4587-1 Project/Site: Jazzmaster 17 State 003H SDG: 03D2024165

Client Sample ID: FS04

Date Received: 04/27/23 14:45

Lab Sample ID: 890-4587-4 Date Collected: 04/27/23 11:15 Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			52381	05/02/23 10:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.031 g	10 mL	52286	05/01/23 10:35	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52249	05/01/23 18:06	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	52262	05/01/23 09:37	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52503	05/03/23 14:34	SMC	EET MID

Client Sample ID: FS05 Lab Sample ID: 890-4587-5

Date Collected: 04/27/23 11:20 Matrix: Solid

Date Received: 04/27/23 14:45

	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	52289	05/01/23 11:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52362	05/03/23 07:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52497	05/03/23 11:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			52381	05/02/23 10:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	52286	05/01/23 10:35	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52249	05/01/23 18:27	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	52262	05/01/23 09:37	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52503	05/03/23 14:39	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: 890-4587-1
Project/Site: Jazzmaster 17 State 003H SDG: 03D2024165

Laboratory: Eurofins Midland

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

Authority		rogram	Identification Number	Expiration Date	
exas	N	IELAP	T104704400-22-25 06-30-23		
The following analytes the agency does not off	•	out the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for wh	
Analysis Method	Prep Method	Matrix	Analyte		
Analysis Method 8015 NM		Matrix Solid	Analyte Total TPH		

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Method Summary

Client: Ensolum

Project/Site: Jazzmaster 17 State 003H

Job ID: 890-4587-1

SDG: 03D2024165

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
3015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
3015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
3015NM Prep	Microextraction	SW846	EET MID
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

Eurofins Carlsbad

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Sample Summary

Collected

04/27/23 10:35

04/27/23 10:45

04/27/23 11:05

04/27/23 11:15

04/27/23 11:20

Received

04/27/23 14:45

04/27/23 14:45

04/27/23 14:45

04/27/23 14:45

04/27/23 14:45 1.0

1.0

Matrix

Solid

Solid

Solid

Solid

Solid

Client: Ensolum

Lab Sample ID

890-4587-1

890-4587-2

890-4587-3

890-4587-4

890-4587-5

Project/Site: Jazzmaster 17 State 003H

FS01

FS02

FS03

FS04

FS05

Client Sample ID

Job ID: 890-4587-1

SDG: 03D2024165

Depth		
1.0		
1.0		
1.0		

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Total 200.7 / 6010

200.8 / 6020:

8RCRA

13PPM

Texas 11 Al Sb

As Ва

Be B Be

S

Ca Cr

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TCLP / SPLP 6010:

8RCRA

Sb As Ba

Cd Cr Co Cu

B Cu Fe Mn Mo 공

Ni Se Μg

Mn Mo B T U Z. Se

Ag SiO₂ Na Sr

=

Sn U V Zn

1631 / 245.1 / 7470 / 7471

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eurofins 🔅 Xenco Environment

Sampler's Name:

Project Location: Project Number:

32.31106,-103.58743

Due Date: ✓ Routine

Rush

TAT starts the day received by the lab, if received by 4:30pm

03D2024165

Peter Van Patten

Phone:

Project Name:

City, State ZIP:

Midland, TX 79701

432-557-8895

601 N Marienfeld St Suite 400

Company Name: Project Manager:

Ensolum, LLC

Hadlie Green

\ddress:

Samples Received Intact: SAMPLE RECEIPT

Cooler Custody Seals:

Yes

Correction Factor: Temperature Reading:

Temp Blank: Wes)

Yes No

Wet ice:

8

Parameters

N O

Thermometer ID:

DM-00 Yes

W

CHLORIDES (EPA: 300.0)

ample Custody Seals:

Yes

Nd NO NIA

NIA

Corrected Temperature:

Sample Identification

Matrix

Sampled

Sampled

Date

Time

Depth

Cont # of

Grab/

TPH (8015)

BTEX (8021)

890-4587 Chain of Custody

FS05 FS04 FS03 FS02 FS01

Soil

4/27/2023

1120 1115 1105 1045 1035

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Comp Comp Comp Comp Comp Comp

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4/27/2023 4/27/2023

Soil

4/27/2023

1.0 1.0

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Soil

4/27/2023

Soil

1.0

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Chain of Custody

Preservat	ANALYSIS REQUEST	Turn Around	Jazzmaster 17 State 003H
Deliverables: EDD	Email: hgreen@ensolum.com, kjennings@ensolum.com	Email: hgreen@ensolu	557-8895
Level III	Midland, TX 79701	City, State ZIP:	and, TX 79701
State of Project:	601 N Marienfeld St Suite 400	Address:	N Marienfeld St Suite 400
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	Ensolum, LLC	Company Name:	olum, LLC
Work Order Comments	Kalei Jennings	Bill to: (if different)	ie Green
www.xenco.com Page of	Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	Hobbs	
	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296	EL Pas	Xenco
Work Order No:	Houston, TX (281) 240-4200. Dallas, TX (214) 902-0300 Midland. TX (432) 704-5440, San Antonio, TX (210) 509-3334	Houst Midland	S Environment Test
	Citatil of Odarody		

Revised Date: 08/25/2020 Key. 2020 2					
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		Stat	4/27/23 14	A would stex 4/2-1/23 1445	For the Aux
Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)
	ndard terms and conditions matances beyond the control ed unless previously negotiated.	nco, its affiliates and subcontractors. It assigns star Incurred by the client if such losses are due to circun Xenco, but not analyzed. These terms will be enforce	client company to Eurofins Xe y for any losses or expenses I sample submitted to Eurofins	samples constitutes a valid purchase order from of samples and shall not assume any responsibilit pilied to each project and a charge of \$5 for each :	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.
171011711		Cd Cr Co Cu Pb Min Mio NI Se Ag II O	CRA Sb As Ba Be	ICLP/SPLP 6010: BRCRA Sb As Ba Be Cd Cf Co Cu FC	Circle Method(s) and Metal(s) to be analyzed

NaOH+Ascorbic Acid: SAPC Zn Acetate+NaOH: Zn

Sample Comments

H3PO4: HP H₂S0₄: H₂ HCL: HC

NaHSO₄: NABIS Na₂S₂O₃: NaSO₃

None: NO

Cool: Coo

HNO3: HN MeOH: Me DI Water: H₂O

NaOH: Na

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4587-1 SDG Number: 03D2024165

Login Number: 4587 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: 890-4587-1 SDG Number: 03D2024165

List Source: Eurofins Midland

Login Number: 4587 List Number: 2 List Creation: 05/01/23 08:43 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 <6mm (1/4").	N/A	



APPENDIX D

NMOCD Notifications

From: Enviro, OCD, EMNRD

To: Hadlie Green

Cc: <u>Bratcher, Michael, EMNRD; Nobui, Jennifer, EMNRD</u>

Subject: RE: [EXTERNAL] COG - Containment Inspection - Jazzmaster 17 State 003H (Incident Number nAPP2306543550)

Date: Wednesday, March 15, 2023 4:58:31 PM

Attachments: <u>image005.jpg</u>

image006.png image007.png image008.png image009.png

[**EXTERNAL EMAIL**]

Hadlie,

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

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 15, 2023 2:31 PM

To: Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov>

Cc: Kalei Jennings <kjennings@ensolum.com>

Subject: [EXTERNAL] COG - Containment Inspection - Jazzmaster 17 State 003H (Incident Number

nAPP2306543550)

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

To Whom It May Concern,

Below is an email notification for liner inspection at COG Operating, LLC (COG) Jazzmaster 17 State 003H (Incident Number nAPP2306543550) / Spill Date 2-21-2023. This is a notification that Ensolum is scheduled to inspect this lined containment on behalf of COG on Monday, March 20, 2023. Please call with any questions or concerns.

GPS: 32.31106, -103.58743

Thank you,





Project Manager 432-557-8895 hgreen@ensolum.com Ensolum, LLC From: Enviro, OCD, EMNRD

To: Hadlie Green

 Cc:
 Bratcher, Michael, EMNRD; Nobui, Jennifer, EMNRD

 Subject:
 RE: [EXTERNAL] Sampling Notification (Week of 3/20/2023)

Date: Wednesday, March 15, 2023 4:56:14 PM

Attachments: <u>image005.jpg</u>

image006.png image007.png image008.png image009.png

[**EXTERNAL EMAIL**]

Hadlie,

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

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 15, 2023 2:07 PM

To: Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov>

Cc: Kalei Jennings <kjennings@ensolum.com>

Subject: [EXTERNAL] Sampling Notification (Week of 3/20/2023)

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 20, 2023.

- Jazzmaster 17 State 003H / NAPP2306543550
- Wilder 28-1 / NAPP2301736973
- Bufflehead 10 Federal 001H / NAPP2305139488

Thank you,



Hadlie Green

Project Manager 432-557-8895 hgreen@ensolum.com Ensolum, LLC From: Enviro, OCD, EMNRD

To: Hadlie Green

Cc: <u>Bratcher, Michael, EMNRD; Nobui, Jennifer, EMNRD</u>

Subject: RE: [EXTERNAL] COP - Sampling Notification (Week of 4/24/2023)

Date: Thursday, April 20, 2023 4:32:26 PM

Attachments: <u>image005.jpg</u>

image006.png image007.png image008.png image009.png

[**EXTERNAL EMAIL**]

Hadlie,

Please be aware that notification requirements are **two business days**, per rule. You may proceed on your schedule. This, and all correspondence, should be included in the closure report to insure inclusion 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: Thursday, April 20, 2023 2:33 PM

To: Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov>

Cc: Kalei Jennings <kjennings@ensolum.com>

Subject: [EXTERNAL] COP - Sampling Notification (Week of 4/24/2023)

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 sites the week of April 24, 2023.

- Bandit 15 Federal Com 002H / NAPP2307544597
 - Sampling Date: 4/24-26/2023 @ 10:00 AM MST

- Jazzmaster 17 ST 3H / NAPP2306543550
 - Sampling Date: 4/27/2023 @ 10:00 AM MST
- Treasure Island Federal 1H / NAPP2310337528
 - Sampling Date: 4/28/2023 @ 10:00 AM MST

Thank you,





APPENDIX E

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 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

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

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

Incident ID	nAPP2306543550
District RP	
Facility ID	fAPP2203953771
Application ID	

Release Notification

Responsible Party

Responsible Party	COG Operating, LLC	OGRID	229137			
Contact Name	Charles Beauvais	Contact Telephone	(575) 988-2043			
Contact email	Charles.R.Beauvais@ConocoPhillips.com Incident # (assigned by OCD) nAPP2306543550					
Contact mailing address	600 West Illinois Avenue, Midland, Texas 79701					

Location of Release Source								
Latitude 32.3111 Longitude								
Site Name Jazzmaster 17 State 003H Site Type Tank Battery								
Date Release Discovered February 21, 2023 API# (if applicable) 30-025-41426								
Unit Letter	Section	Township	Range		County			
В	17	23S	33E		Lea			
Surface Owner: State Federal Tribal Private (Name:								

Nature and Volume of Release

	(s) Released (Select all that apply and attach calculations or specific	justification for the volumes provided below)
Crude Oil	Volume Released (bbls) 7.1	Volume Recovered (bbls) 4.2
Produced Water	Volume Released (bbls) 7.1	Volume Recovered (bbls) 4.2
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	■ Yes □ No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release		

Cause of Release

The release was caused by a gasket failure.

The release occurred within a falcon lined facility with overspray into pasture/pad. A vacuum truck was dispatched to remove all freestanding fluids. Evaluation will be made of the spill area for any possible impact from the release.

Received by OCD: 5/22/2023/9:31:36 AM State of New Mexico
Page 2 Oil Conservation Division

Page 93 of 99

Incident ID	nAPP2306543550
District RP	
Facility ID	fAPP2203953771
Application ID	

	onsible party consider this a major release?
release as defined by 19.15.29.7(A) NMAC?	
Yes No	
If YES, was immediate notice given to the OCD? By whom? To w	hom? When and by what means (phone, email, etc)?
Initial R	esponse
The responsible party must undertake the following actions immediate	ely unless they could create a safety hazard that would result in injury
■ The source of the release has been stopped.	
■ The impacted area has been secured to protect human health and	d the environment.
Released materials have been contained via the use of berms or	dikes, absorbent pads, or other containment devices.
All free liquids and recoverable materials have been removed as	nd managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain	why:
	remediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release no public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a threaddition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	offications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In
Printed Name Brittany N. Esparza	Title: Environmental Technician
Printed Name Signature: Brittany N. Esparza	Date: 3/6/2023
email: Brittany.Esparza@ConocoPhillips.com	Date: 3/6/2023 Telephone: (432) 221-0398
OCD Only	
OCD Only	00/00/0000
Received by: Jocelyn Harimon	Date: 03/06/2023

					Spil	Spill Calculation - Subsurface Spill - Rectangle	pill - Rectangle		NAPP2306543550	43550	Remediation	Remediation Recommendation
Convertingular shape Length into a series of (ft.)	Length (ft.)	Width (ft.)	Average Depth (in.)	On/Off Pad (dropdow n)	Soil Spilled-Fluid Saturation (%,)	Soil Spilled-Fluid Estimated volume of each Saturation (bbl.)	Total Estimated Volume of Spill (bbl.)	Percentage of Oil if Spilled Fluid is a Mixture (%.)	Total Estimated Volume of Spilled Oil (bbl.)	Total Estimated Volume of Spilled Liquid other than Oil (bbl.)	Total Estimated Contaminated Soil, uncompacted, 25% (yd ³ .)	Yage 3 of 4 Current Rule of Thumb - RMR Handover Volume, (yd².)
Rectangle A	93.0	46.0	9.0	Off-Pad~	15.02%	31.73	4.77		2.38	2.38	8.25	
Rectangle B				>		0.00					00.0	
Rectangle C				>		0.00					00'0	
Rectangle D				>		0.00					00.0	
Rectangle E				>		0.00		2002			00'0	260
Rectangle F				>		0.00		8000			0.00	001
Rectangle G				>		0.00					0.00	
Rectangle H				>		0.00					0.00	
Rectangle I				>		0.00					00'0	
Released de Imaging: 3/6/	8: 3/0/2	123 2:36	1:20 PM	>		00'0					0.00	
					Total Sub	Total Subsurface Volume Released:	4.7656		2.3828	2.3828	8.25	BU

District I
1625 N. French Dr., Hobbs, NM 88240
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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 193647

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	193647
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created B	y Condition	Condition Date
jharimo	n None	3/6/2023

nAPP2306543550 Incident ID District RP Facility ID fAPP2203953771 Application ID

Site Assessment/Characterization

This information must be provided to the appropriate district office no taler 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?		
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.		
Characterization Report Checklist: Each of the following items must be included in the report.		
 Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data 		

Characterization Report Checklist: Each of the following items must be included in the report.
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
☐ Field data
Data table of soil contaminant concentration data
Depth to water determination
Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
☐ Boring or excavation logs
Photographs including date and GIS information
☐ Topographic/Aerial maps
Laboratory data including chain of custody

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

Received by OCD: 5/22/2023 9:31:36 AM Form C-141 State of New Mexico Page 4 Oil Conservation Division

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Incident ID	nAPP2306543550
District RP	
Facility ID	fAPP2203953771
Application 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:5/22/2023	
email:Jacob.Laird@conocophillips.com	Telephone:575-703-5482	
OCD Only		
Received by:	Date:05/23/2023	

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Incident ID	nAPP2306543550
District RP	
Facility ID	fAPP2203953771
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 follow	ving items must be included in the closure report.	
A scaled site and sampling diagram as described in 19.15	5.29.11 NMAC	
Photographs of the remediated site prior to backfill or pl must be notified 2 days prior to liner inspection)	hotos of the liner integrity if applicable (Note: appropriate OCD District office	
☐ Laboratory analyses of final sampling (Note: appropriate	ODC District office must be notified 2 days prior to final sampling)	
☐ Description of remediation activities		
and regulations all operators are required to report and/or file of may endanger public health or the environment. The acceptant should their operations have failed to adequately investigate and human health or the environment. In addition, OCD acceptant compliance with any other federal, state, or local laws and/or respectively.	Title: _Environmental Engineer	
OCD Only		
Received by:	Date:	
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.		
Closure Approved by: Nelson Velez	Date: _05/23/2023	
Printed Name: Nelson Velez	Title: _ Environmental Specialist – Adv	

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

CONDITIONS

Action 219014

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	219014
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	5/23/2023