

April 6, 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

White Falcon 16 State 001H

Incident Number NAPP2301735698

Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of COG Operating, LLC (COG), has prepared this *Closure Request* to document assessment and soil sampling activities performed at the White Falcon 16 State 001H (Site). The purpose of the Site assessment and soil sampling activities was to address impacts to soil resulting from a crude oil flare fire at the Site. Based on field observations and field screening activities, excavation activities, and laboratory analytical results from soil sampling events, COG is submitting this *Closure Request*, describing remediation that has occurred and requesting closure for Incident Number NAPP2301735698.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit D, Section 16, Township 16 South, Range 35 East, in Lea County, New Mexico (32.1366°, -103.3802°) and is associated with oil and gas exploration and production operations on New Mexico State Land.

On January 8, 2023, a regulator malfunction resulted in fluid being sent to the flare and resulted in a fire on pad. The released volume was estimated to be approximately 0.0074 barrels (bbls) of crude oil. The released crude oil ignited and extinguished itself after reaching the ground. COG reported the release immediately to the New Mexico Oil Conservation Division (NMOCD) via email on January 8, 2023 and submitted a Release Notification Form C-141 (Form C-141) on January 17, 2023. The release was assigned Incident Number NAPP2301735698.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater is United States Geological Survey (USGS) well 320721103221201, located approximately 1.0 mile southeast of the Site. The groundwater well has a reported depth to groundwater of 167 feet bgs and a total depth of 275 feet bgs. Ground surface elevation at the groundwater well location is 3,228 feet

White Falcon 16 State 001H Closure Request COG Operating, LLC



above mean sea level (amsl), which is approximately 31 feet lower in elevation than the Site. All wells used for depth to groundwater determination are depicted on Figure 1 and the associated well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a drywash, located approximately 6,302 feet northeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

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

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

DELINEATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

Between January 20, 2023, and February 20, 2023, Ensolum personnel were at the Site to complete assessment and delineation activities based on visible staining in the release area and information provided by the C-141. Soil Samples SS01 through SS04, collected around the release extent, were collected at a depth of 0.2 feet bgs to assess the lateral extent of the release. Soil samples SS05 through SS08, collected within the release extent via hand auger, were collected at depths ranging from 0.2 feet to 1-foot bgs. Soil from the delineation samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. The release extent and soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.

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

Laboratory analytical results for delineation soil samples 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 delineation soil samples SS06 through SS08, collected at 0.2 feet bgs and 1-foot bgs within the release extent, indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria. Laboratory analytical results for SS05, collected within the release at a depth of 0.2 feet bgs, indicated the TPH concentration exceeded the Site Closure Criteria. Based on laboratory analytical results for soil sample SS05, excavation activities were warranted.

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EXCAVATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

Between February 20, 2023, and March 27, 2023, Ensolum personnel were at the Site to oversee excavation activities based on visible staining and laboratory analytical results for soil sample SS05. Excavation activities were performed using a backhoe and transport vehicles. To direct excavation activities, soil was screened for VOCs and chloride. The excavation was completed to a depth of 0.5 feet 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 extents. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Due to the shallow depth of both excavation extents, the sidewalls were incorporated into the floor samples. Composite soil samples FS01 and FS02 were collected from the floor of the excavation at a depth of 0.5 feet bgs. The soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 3.

Laboratory analytical results for the excavation soil sample FS02 indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria. Laboratory analytical results for the excavation soil sample FS01 indicated the TPH concentration was complaint with the Site Closure Criteria but exceeded the most stringent Table I Closure Criteria. Additional soil was removed from the area associated with soil sample FS01 and another 5-point composite excavation confirmation soil sample (FS01A) was collected at 0.75 feet bgs and followed the same procedure described above.

Laboratory analytical results for the soil sample FS01A indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included as Appendix C.

The excavation area measured approximately 370 square feet. A total of 11 cubic yards of impacted soil were removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Facility in Hobbs, New Mexico.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the January 8, 2023, crude oil flare fire. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated all COCs were compliant with the most stringent Table I Closure Criteria. Based on the soil sample analytical results, no further remediation was required.

Excavation of stained soil has mitigated impacts at this Site. Depth to groundwater has been determined to be greater than 100 feet bgs and no other sensitive receptors were identified near the release extent. COG believes these remedial actions are protective of human health, the environment, and groundwater. As such, COG respectfully requests closure for Incident Number NAPP2301735698.



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

Sincerely, Ensolum, LLC

Hadlie Green Project Manager Daniel R. Moir, PG Senior Managing Geologist

cc: Jacob Laird, COG Operating, LLC

Charles Beauvais, COG Operating, LLC

New Mexico State Land Office

Appendices:

Figure 1 Site Receptor Map

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

Appendix B Photographic Log

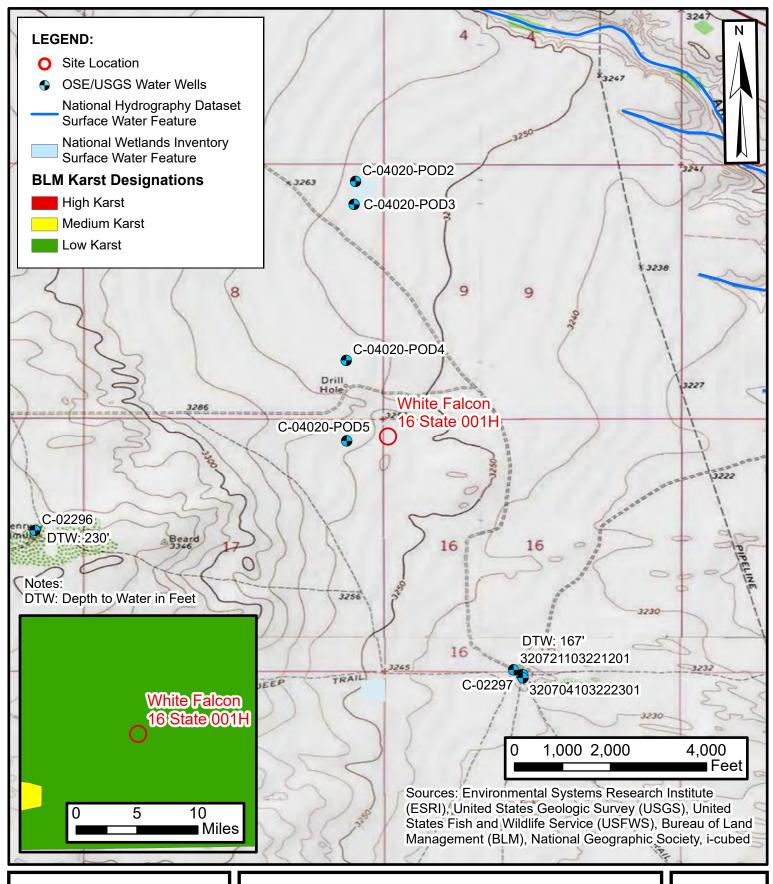
Appendix C Laboratory Analytical Reports & Chain-of-Custody Documentation

Appendix D Final C-141

Appendix E NMOCD Notifications



FIGURES

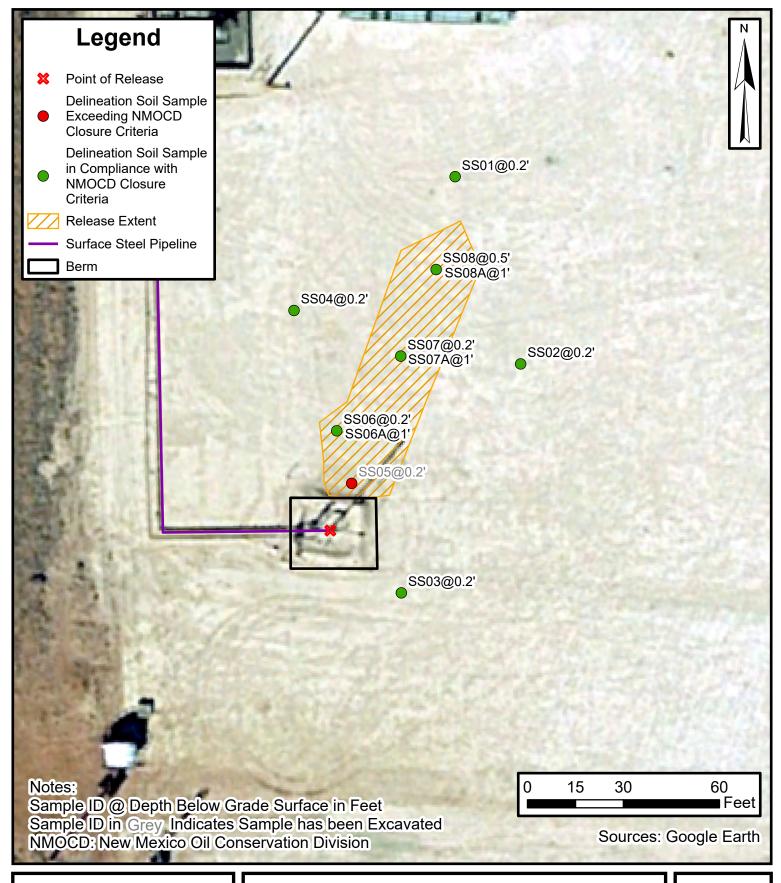




SITE RECEPTOR MAP

COG Operating, LLC White Falcon 16 State 001H

Incident Number: NAPP2301735698 Unit D, Sec 16, T25S, R35E Lea County, New Mexico FIGURE

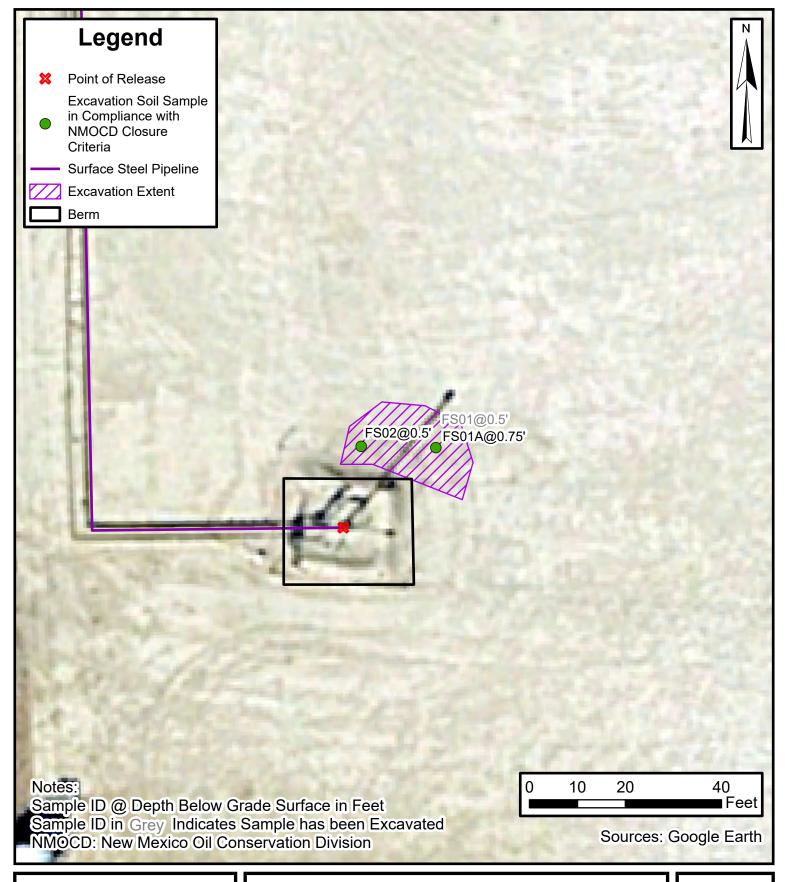




Delineation Soil Sample Locations

COG Operating, LLC White Falcon 16 State 001H

Incident Number: NAPP2301735698 Unit D, Sec 16, T25S, R35E Lea County, New Mexico FIGURE





Excavation Soil Sample Locations

COG Operating, LLC White Falcon 16 State 001H

Incident Number: NAPP2301735698 Unit D, Sec 16, T25S, R35E Lea County, New Mexico FIGURE



TABLES



SOIL SAMPLE ANALYTICAL RESULTS White Falcon 16 State 001H COG Operating, LLC Lea County, New Mexico Sample Depth Benzene **Total BTEX TPH GRO TPH DRO TPH ORO GRO+DRO Total TPH** Chloride **Date** Designation (feet bqs) (mg/kg) (mg/kg) (mg/kg) (mg/kg) (mg/kg) (mg/kg) (mg/kg) (mg/kg) NMOCD Table I Closure Criteria (NMAC 19.15.29) 2,500 10 50 NE NE NE 1,000 20,000 **Delineation Soil Samples** 01/20/2023 < 0.00198 < 0.00396 153 SS01 0.2 < 50.0 < 50.0 < 50.0 < 50.0 <50.0 SS02 01/20/2023 0.2 < 0.00199 < 0.00398 <49.9 <49.9 <49.9 <49.9 <49.9 103 SS03 01/20/2023 0.2 < 0.00398 < 0.00199 <49.9 <49.9 <49.9 <49.9 <49.9 <4.97 01/20/2023 **SS04** 0.2 < 0.00200 0.00463 <49.9 <49.9 <49.9 <49.9 <49.9 <4.98 SS05 01/20/2023 0.2 < 0.00199 <49.9 28.7 < 0.00398 2,970 556 2,970 3,530 SS06 02/20/2023 0.2 < 0.00199 <0.00398 <50.0 <50.0 <50.0 <50.0 <50.0 37.9 SS06A 02/20/2023 < 0.00401 <49.9 <49.9 <49.9 <49.9 <49.9 24.3 1 < 0.00200 **SS07** 02/20/2023 0.2 < 0.00398 <50.0 < 50.0 < 50.0 <50.0 <50.0 23.8 < 0.00199 SS07A 02/20/2023 1 < 0.00199 < 0.00398 <49.9 <49.9 <49.9 <49.9 <49.9 37.5 **SS08** 02/20/2023 0.5 <0.00398 <49.9 26.3 < 0.00199 <49.9 <49.9 <49.9 <49.9 SS08A 02/20/2023 1 < 0.00199 < 0.00398 <49.8 <49.8 <49.8 <49.8 <49.8 21.0 **Excavation Soil Samples** FS01 02/20/2023 0.5 < 0.00200 < 0.00399 <49.8 156 <49.8 156 156 14.1 FS01A 03/27/2023 0.75 < 0.00198 < 0.00396 <49.9 <49.9 <49.9 <49.9 <49.9 133 FS02 02/20/2023 0.5 <50.0 <50.0 < 0.00201 < 0.00402 < 50.0 <50.0 <50.0 193

TABLE 1

Notes:

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

NMAC: New Mexico Adminstrative Code

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics DRO: Diesel Range Organics ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

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

Grey text represents samples that have been excavated



APPENDIX A

Referenced Well Records



USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources

ata Category:		Geographic Area:		
Groundwater	~	United States	~	GO

Click to hideNews Bulletins

• See the Water Data for the Nation Blog for the latest news and updates.

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usqs site no list =

• 320721103221201

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 320721103221201 25S.35E.21.122212

Lea County, New Mexico Latitude 32°07'23", Longitude 103°22'23" NAD27 Land-surface elevation 3,228.00 feet above NGVD29 The depth of the well is 275 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

ble of data	
b-separated data	
raph of data	
eselect period	

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status
1981-04-01		D	62610		3055.14	NGVD29	1	Z			А
1981-04-01		D	62611		3056.64	NAVD88	1	Z			А
1981-04-01		D	72019	172.86			1	Z			Α
1986-03-18	;	D	62610		3069.39	NGVD29	1	Z			А
1986-03-18	1	D	62611		3070.89	NAVD88	1	Z			Α
1986-03-18	;	D	72019	158.61			1	Z			Α
1991-06-06	i	D	62610		3060.90	NGVD29	1	Z			Α
1991-06-06	i	D	62611		3062.40	NAVD88	1	Z			А
1991-06-06	i	D	72019	167.10			1	Z			Α
1996-02-29)	D	62610		3061.29	NGVD29	1	S			А
1996-02-29)	D	62611		3062.79	NAVD88	1	S			Α
1996-02-29)	D	72019	166.71			1	S			А

Explanation

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

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

Accessibility

FOIA

Privacy

Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey

Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2023-01-18 18:28:43 EST

0.28 0.24 nadww01



Received by OCD: 4/6/2023 8:35:23 PM

New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

POD Number Well Tag

Q64 Q16 Q4 Sec Tws Rng

Y

C 02296

2 18 25S 35E

3556088

650846

Driller License: 122

8.00

Driller Company:

UNKNOWN

Driller Name:

UNKNOWN

Drill Finish Date:

12/31/1949

Plug Date:

Drill Start Date: Log File Date:

PCW Rcv Date:

Source:

Pump Type:

Pipe Discharge Size:

Estimated Yield: 4 GPM

Casing Size:

Depth Well:

300 feet

Depth Water:

230 feet

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

1/18/23 4:33 PM

POINT OF DIVERSION SUMMARY

Received by OCD: 4/6/2023 8:35:23 PM



APPENDIX B

Photographic Log

E ENSOLUM

Photographic Log

COG Operating, LLC White Falcon 16 State 001H Lea County, New Mexico



Photograph: 1 Date: 1/20/2023

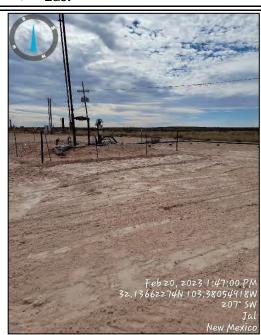
Description: Release extent and staining

View: East



Photograph: 2 Date: 1/20/2023

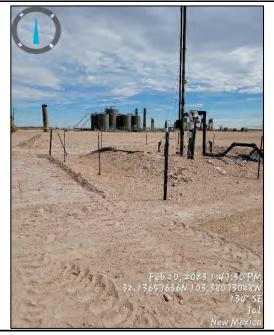
Description: Release extent View: Northeast



Photograph: 3 Date: 2/20/2023

Description: Excavation activities

View: Southwest



Photograph: 4 Date: 2/20/2023

Description: Excavation Activities

View: Southeast



APPENDIX C

Laboratory Analytical Reports & Chain of Custody Documentation

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Josh Adams Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701 Generated 2/4/2023 9:29:48 AM

JOB DESCRIPTION

White Falcon 16 State 001H SDG NUMBER 03D2024146

JOB NUMBER

890-3934-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

Authorization

Generated 2/4/2023 9:29:48 AM

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

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

Page 2 of 20

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3

4

6

7

10

12

Client: Ensolum Laboratory Job ID: 890-3934-1 Project/Site: White Falcon 16 State 001H

SDG: 03D2024146

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Definitions/Glossary

Job ID: 890-3934-1 Client: Ensolum Project/Site: White Falcon 16 State 001H

SDG: 03D2024146

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description

*1 LCS/LCSD RPD exceeds control limits.

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

HPLC/IC

Qualifier **Qualifier Description**

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

Glossary

Abbreviation	These co	ommon	ly use	d abb	orevia	ation	ıs m	ау	or may	not be p	resent in	this re	eport.

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

Job ID: 890-3934-1 Project/Site: White Falcon 16 State 001H SDG: 03D2024146

Job ID: 890-3934-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3934-1

Receipt

The sample was received on 1/23/2023 4:24 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: SS02 (890-3934-1).

GC VOA

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

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-45246 and analytical batch 880-45303 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

Method 8015MOD NM: Surrogate recovery for the following sample was outside control limits: SS02 (890-3934-1). Evidence of matrix interferences is not obvious.

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

HPLC/IC

Method 300 ORGFM 28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-44790 and analytical batch 880-44922 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Matrix: Solid

Lab Sample ID: 890-3934-1

Client Sample Results

Client: Ensolum Job ID: 890-3934-1
Project/Site: White Falcon 16 State 001H SDG: 03D2024146

Client Sample ID: SS02

Date Collected: 01/20/23 14:35 Date Received: 01/23/23 16:24

Sample Depth: 0.2'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199	mg/Kg		02/02/23 13:52	02/03/23 01:36	
Toluene	<0.00199	U	0.00199	mg/Kg		02/02/23 13:52	02/03/23 01:36	
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		02/02/23 13:52	02/03/23 01:36	
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		02/02/23 13:52	02/03/23 01:36	
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/02/23 13:52	02/03/23 01:36	
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/02/23 13:52	02/03/23 01:36	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	103		70 - 130			02/02/23 13:52	02/03/23 01:36	
1,4-Difluorobenzene (Surr)	103		70 - 130			02/02/23 13:52	02/03/23 01:36	
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			02/03/23 08:57	
Method: SW846 8015 NM - Diese Analyte		ics (DRO) (Qualifier	GC)	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH			49.9	 		Trepareu	02/04/23 09:40	
Total II II	140.0	O	49.9	mg/Ng			02/04/23 03.40	
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	mg/Kg		02/02/23 10:56	02/04/23 04:15	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/02/23 10:56	02/04/23 04:15	
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/02/23 10:56	02/04/23 04:15	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	65	S1-	70 - 130			02/02/23 10:56	02/04/23 04:15	
o-Terphenyl	66	S1-	70 - 130			02/02/23 10:56	02/04/23 04:15	
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	е					
•						_		
Analyte Chloride	Result 103	Qualifier	RL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 01/27/23 23:30	Dil Fa

Eurofins Carlsbad

Surrogate Summary

Client: Ensolum Job ID: 890-3934-1
Project/Site: White Falcon 16 State 001H SDG: 03D2024146

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Rec
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-3925-A-1-D MS	Matrix Spike	102	103	
890-3925-A-1-E MSD	Matrix Spike Duplicate	102	98	
890-3934-1	SS02	103	103	
LCS 880-45269/1-A	Lab Control Sample	101	92	
LCSD 880-45269/2-A	Lab Control Sample Dup	95	102	
MB 880-45239/5-A	Method Blank	89	92	
MB 880-45269/5-A	Method Blank	91	88	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recov
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-3914-A-1-D MS	Matrix Spike	87	78	
890-3914-A-1-E MSD	Matrix Spike Duplicate	87	78	
890-3934-1	SS02	65 S1-	66 S1-	
LCS 880-45246/2-A	Lab Control Sample	95	90	
LCSD 880-45246/3-A	Lab Control Sample Dup	89	86	
MB 880-45246/1-A	Method Blank	109	113	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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Client: Ensolum Job ID: 890-3934-1 Project/Site: White Falcon 16 State 001H

SDG: 03D2024146

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-45239/5-A

Matrix: Solid

Analysis Batch: 45230

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 45239

	МВ	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/02/23 09:32	02/02/23 11:44	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/02/23 09:32	02/02/23 11:44	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/02/23 09:32	02/02/23 11:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/02/23 09:32	02/02/23 11:44	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/02/23 09:32	02/02/23 11:44	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/02/23 09:32	02/02/23 11:44	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/02/23 09:32	02/02/23 11:44	1 1 1

MB MB

Surrogate	%Recovery	Qualifier	Limits	
4-Bromofluorobenzene (Surr)	89		70 - 130	02
1,4-Difluorobenzene (Surr)	92		70 - 130	02

02/02/23 09:32 02/02/23 11:44 02/02/23 09:32 02/02/23 11:44

Prepared

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

Analyzed

Prep Batch: 45269

Lab Sample ID: MB 880-45269/5-A Matrix: Solid

Analysis Batch: 45230

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/02/23 13:52	02/02/23 22:29	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/02/23 13:52	02/02/23 22:29	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/02/23 13:52	02/02/23 22:29	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/02/23 13:52	02/02/23 22:29	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/02/23 13:52	02/02/23 22:29	1
Xylenes, Total	< 0.00400	U	0.00400	mg/Kg		02/02/23 13:52	02/02/23 22:29	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	02/02/23 13:52	02/02/23 22:29	1
1,4-Difluorobenzene (Surr)	88		70 - 130	02/02/23 13:52	02/02/23 22:29	1

Lab Sample ID: LCS 880-45269/1-A

Matrix: Solid

Analysis Batch: 45230

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 45269

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09657		mg/Kg		97	70 - 130	
Toluene	0.100	0.09290		mg/Kg		93	70 - 130	
Ethylbenzene	0.100	0.08916		mg/Kg		89	70 - 130	
m-Xylene & p-Xylene	0.200	0.1874		mg/Kg		94	70 - 130	
o-Xylene	0.100	0.09608		mg/Kg		96	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	101	70 - 130
1.4-Difluorobenzene (Surr)	92	70 - 130

Lab Sample ID: LCSD 880-45269/2-A

Matrix: Solid

Analysis Batch: 45230

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 45269

%Rec **RPD** RPD Limit

Spike LCSD LCSD Result Qualifier Analyte Added Unit %Rec Limits Benzene 0.100 0.09768 mg/Kg 70 - 130

Eurofins Carlsbad

Dil Fac

QC Sample Results

Client: Ensolum Job ID: 890-3934-1 Project/Site: White Falcon 16 State 001H SDG: 03D2024146

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

Lab Sample ID: LCSD 880-45269/2-A

Matrix: Solid Analysis Batch: 45230 Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 45269

Prep Batch: 45269

Spike LCSD LCSD %Rec **RPD** Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit D Toluene 0.100 0.09199 92 70 - 130 35 mg/Kg Ethylbenzene 0.100 0.08490 mg/Kg 85 70 - 130 35 0.200 0.1762 m-Xylene & p-Xylene mg/Kg 88 70 - 130 35 6 o-Xylene 0.100 0.08972 mg/Kg 90 70 - 130 35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 890-3925-A-1-D MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 45230

-	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	<0.00201	U	0.100	0.1089		mg/Kg		109	70 - 130
Toluene	<0.00201	U	0.100	0.09892		mg/Kg		99	70 - 130
Ethylbenzene	<0.00201	U	0.100	0.09440		mg/Kg		94	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1956		mg/Kg		98	70 - 130
o-Xylene	<0.00201	U	0.100	0.09982		mg/Kg		100	70 - 130

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	102	70 - 130
1,4-Difluorobenzene (Surr)	103	70 - 130

Lab Sample ID: 890-3925-A-1-E MSD

Matrix: Solid

Analysis Batch: 45230

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA Prep Batch: 45269

%Rec Spike MSD MSD RPD Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Benzene <0.00201 U 0.0990 0.1011 mg/Kg 102 70 - 130 35 Toluene <0.00201 U 0.0990 0.09416 mg/Kg 95 70 - 130 5 35 Ethylbenzene <0.00201 U 0.0990 0.09146 mg/Kg 92 70 - 130 35 <0.00402 U 0.198 0.1915 97 70 - 130 2 35 m-Xylene & p-Xylene mg/Kg <0.00201 U 0.0990 o-Xylene 0.09783 mg/Kg 70 - 130 35

MSD MSD

мв мв

<49.9 U

Result Qualifier

Surrogate	%Recovery	Quaimer	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

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

Lab Sample ID: MB 880-45246/1-A

Matrix: Solid

Analysis Batch: 45303

Gasoline Range Organics

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

Prepared

Prep Batch: 45246

02/02/23 10:56 02/03/23 20:00

(GRO)-C6-C10

Analyte

Eurofins Carlsbad

RL

49.9

Unit

mg/Kg

Lab Sample ID: LCS 880-45246/2-A

Lab Sample ID: LCSD 880-45246/3-A

Diesel Range Organics (Over

C10-C28)

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

70 - 130

13

20

95

Client: Ensolum Job ID: 890-3934-1 SDG: 03D2024146 Project/Site: White Falcon 16 State 001H

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

Lab Sample ID: MB 880-45246/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA Prep Batch: 45246 Analysis Batch: 45303

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/02/23 10:56	02/03/23 20:00	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/02/23 10:56	02/03/23 20:00	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130			02/02/23 10:56	02/03/23 20:00	1
o-Terphenyl	113		70 - 130			02/02/23 10:56	02/03/23 20:00	1

Matrix: Solid								Prep Tyr	oe: Total/NA
Analysis Batch: 45303								Prep B	atch: 45246
		Spike	LCS	LCS				%Rec	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics		999	939.7		mg/Kg		94	70 - 130	
(GRO)-C6-C10									
Diesel Range Organics (Over		999	1084		mg/Kg		108	70 - 130	
C10-C28)									
	LCS LCS								

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	90		70 - 130
o-Terpnenyi	90		70 - 130

Matrix: Solid Prep Type: Total/NA Analysis Batch: 45303 Prep Batch: 45246 Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit Gasoline Range Organics 999 740.5 *1 mg/Kg 74 70 - 130 20 (GRO)-C6-C10

953.5

mg/Kg

999

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	89		70 - 130
o-Terphenyl	86		70 - 130

Lab Sample ID: 890-3914-A Matrix: Solid Analysis Batch: 45303	-1-D MS							Client	Prep 1	: Matrix Spike Type: Total/NA Batch: 45246
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	1000	890.2		mg/Kg		89	70 - 130	
Diesel Range Organics (Over C10-C28)	58.1		1000	981.4		mg/Kg		92	70 - 130	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	87		70 - 130							
o-Terphenyl	78		70 - 130							

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Client: Ensolum Job ID: 890-3934-1 Project/Site: White Falcon 16 State 001H SDG: 03D2024146

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

Lab Sample ID: 890-3914-A-1-E MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Analysis Batch: 45303

Prep Type: Total/NA Prep Batch: 45246

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<50.0	U *1	998	893.0		mg/Kg		89	70 - 130	0	20
(GRO)-C6-C10											
Diesel Range Organics (Over	58.1		998	984.9		mg/Kg		93	70 - 130	0	20
C10-C28)											

MSD MSD

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	87	70 - 130
o-Terphenyl	78	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-44790/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 44922

мв мв

Analyte		alifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00 U	5.00	mg/Kg			01/27/23 21:21	1

Lab Sample ID: LCS 880-44790/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 44922

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	265.2		mg/Kg		106	90 - 110	

Lab Sample ID: LCSD 880-44790/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 44922

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	265.6		ma/Ka		106	90 110		20	

Lab Sample ID: 890-3922-A-2-B MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 44922

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	1380	F1	12/10	2810	F1	ma/Ka		116	90 110	

Lab Sample ID: 890-3922-A-2-C MSD

Client Sample ID: Matrix Spike Duplicate **Matrix: Solid**

Analysis Batch: 44922

Allalysis Datoli. 44322												
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	1380	F1	1240	2800	F1	mg/Kg		115	90 - 110	1	20	

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Prep Type: Soluble

QC Association Summary

Client: Ensolum Job ID: 890-3934-1
Project/Site: White Falcon 16 State 001H SDG: 03D2024146

GC VOA

Analysis Batch: 45230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3934-1	SS02	Total/NA	Solid	8021B	45269
MB 880-45239/5-A	Method Blank	Total/NA	Solid	8021B	45239
MB 880-45269/5-A	Method Blank	Total/NA	Solid	8021B	45269
LCS 880-45269/1-A	Lab Control Sample	Total/NA	Solid	8021B	45269
LCSD 880-45269/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	45269
890-3925-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	45269
890-3925-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	45269

Prep Batch: 45239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-45239/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 45269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3934-1	SS02	Total/NA	Solid	5035	_
MB 880-45269/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-45269/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-45269/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3925-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
890-3925-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 45315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3934-1	SS02	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 45246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3934-1	SS02	Total/NA	Solid	8015NM Prep	
MB 880-45246/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-45246/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-45246/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3914-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3914-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 45303

Lab Sample ID 890-3934-1	Client Sample ID SS02	Prep Type Total/NA	Matrix Solid	Method 8015B NM	Prep Batch 45246
MB 880-45246/1-A	Method Blank	Total/NA	Solid	8015B NM	45246
LCS 880-45246/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	45246
LCSD 880-45246/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	45246
890-3914-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	45246
890-3914-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	45246

Analysis Batch: 45450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3934-1	SS02	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Ensolum
Project/Site: White Falcon 16 State 001H
SDG: 03D2024146

HPLC/IC

Leach Batch: 44790

Lab Sample ID 890-3934-1	Client Sample ID SS02	Prep Type Soluble	Matrix Solid	Method DI Leach	Prep Batch
MB 880-44790/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-44790/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-44790/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3922-A-2-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-3922-A-2-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 44922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3934-1	SS02	Soluble	Solid	300.0	44790
MB 880-44790/1-A	Method Blank	Soluble	Solid	300.0	44790
LCS 880-44790/2-A	Lab Control Sample	Soluble	Solid	300.0	44790
LCSD 880-44790/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	44790
890-3922-A-2-B MS	Matrix Spike	Soluble	Solid	300.0	44790
890-3922-A-2-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	44790

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Lab Chronicle

Client: Ensolum

Project/Site: White Falcon 16 State 001H

SDG: 03D2024146

Client Sample ID: SS02 Lab Sample ID: 890-3934-1

Matrix: Solid

Date Collected: 01/20/23 14:35 Date Received: 01/23/23 16:24

	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	45269	02/02/23 13:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45230	02/03/23 01:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			45315	02/03/23 08:57	AJ	EET MID
Total/NA	Analysis	8015 NM		1			45450	02/04/23 09:40	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	45246	02/02/23 10:56	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45303	02/04/23 04:15	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	44790	01/26/23 08:29	СН	EET MID
Soluble	Analysis	300.0		1			44922	01/27/23 23:30	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: 890-3934-1 Project/Site: White Falcon 16 State 001H

SDG: 03D2024146

Laboratory: Eurofins Midland

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

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

Method Summary

Job ID: 890-3934-1 Client: Ensolum Project/Site: White Falcon 16 State 001H

SDG: 03D2024146

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

Sample Summary

Client: Ensolum

Project/Site: White Falcon 16 State 001H

Job ID: 890-3934-1

SDG: 03D2024146

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3934-1	SS02	Solid	01/20/23 14:35	01/23/23 16:24	0.2'

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nguished by (Signature)

Received by: (Signature)

1-23-23

Chain of Custody

Reinquished by (Signature)	Notice: Signature of this dof service. Eurofins Xencof Eurofins Xenco. A mini	Circle Method(s) an	Total 200.7 / 6010								Sample Identification	Total Containers:	Sample Custody Seals:	Cooler Custody Seals:	Samples Received Intact:	SAMPLE RECEIPT	PO#	Sampler's Name:	Project Location:	Project Number:	Project Name:		City, State ZIP:	Address:		Project Manager:				eurofins
(Signature)	ocument and relinquishme o will be liable only for the mum charge of \$85.00 will	Circle Method(s) and Metal(s) to be analyzed	10 200.8 / 6020:							2	tification Matrix			Ye	tact: (es) No	Temp Blank:	J	WILLIAMING FA	32,1366 -10	9111500NS	White Fallow	303-517-8437	Midland, TX 79701	601 N Marienfeld St Suite 400	Ensolum, LLC	Josh Adams		Xenco		
Received by: (Signature)	ent of samples constitutes cost of samples and shall be applied to each project	ilyzed TC	8RCRA							11/20/22 142	Date Sampled	Corrected Temperature:	-		Thermometer ID:	Tes No Wei	\vdash	空	5-3807 Due Date:		H100 draft? 9			Suite 400				0	Environment Testing	
(Signature)	a valid purchase order fro not assume any responsit t and a charge of \$5 for eac	TCLP / SPLP 6010: 8RCRA	13PPM Texas 11							5 21 0	Time Depth Grab/	ature: 20	ling: 2.2	-0.6	Tom por	Wet Ice: Tes No	the lab, if received by 4:30pm	TAT starts the day received by	Date:	☑ Routine ☐ Rush	∰ Turn Around	Email: kjennings@er	City, State ZIP:	Address:	Company Name:	Bill to: (if different)		ELP		
Date/Time	m client company to Eurofins bility for any losses or expensi h sample submitted to Eurofi	RCRA Sb As Ba Be	Al Sb As Ba Be							111	CHLOI TPH (8	3015)				nete	ırs			Code		kjennings@ensolum.com, jadams@ensolum.com	: Midland, TX 79701	601 N Marienfeld St Suite 400	e: Ensolum, LLC	nt) Kalei Jennings	1000S, NN (373) 392-7330, Calisbad, NW (373) 300-0133	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296	Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334	Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Relinquished by: (Sig	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 Eurofing Xenco. A minimum charge of \$85.00 will be enforced unless previously negotiated 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 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 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 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 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 to each project and a charge of \$5 for each sample submitted to Eurofins Xenco.	Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	B Cd Ca Cr Co Cu Fe											890-3934 Chain of Custody				-			ANALYSIS REQUEST	ensolum.com	01	St Suite 400			ISDAU, NIVI (272) 800-2199	bbock, TX (806) 794-1296	Antonio, TX (210) 509-3334	Dallas, TX (214) 902-0300
(Signature) Received	ntractors. It assigns standard terms and conditions h losses are due to circumstances beyond the control ese terms will be enforced unless previously negotiated	∧oNiSeAgTIU	Pb Mg Mn Mo Ni K Se										(Carrow)	Custody				-			REQUEST	Deliverables: EDD	Reporting: Level II L	State of Project:	Program: UST/PST		WW		Work	
Received by: (Signature) Da	nd conditions and the control cously negotiated.	Hg: 1631 / 245.1 / 7470 / 7471	Ag SiO ₂ Na Sr TI Sn U V						NAPPT3017		Sample Comments	NaOH+Ascorbic Acid: SAPC	Zn Acetate+NaOH: Zn	Na ₂ S ₂ O ₃ : NaSO ₃	NaHSO ₄ : NABIS	H₃PO₄: HP	H ₂ SO ₄ : H ₂		<u>~</u>	None: NO	Preservative Codes	ADaPT L Other:	Reporting: Level II Level III L PST/UST L TRRP]	Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐	Work Order Comments	www.xenco.com Page		Work Order No:	
Date/Time mag	ging: 5		Zn	23 11	1:54:	:01	AM		8698		Page			20)		NaOH: Na	HNO ₃ : HN	MeOH: Me	DI Water: H ₂ O	e Codes		Level IVLJ		Superfund [of			2/4

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-3934-1 SDG Number: 03D2024146

Login Number: 3934 List Source: Eurofins Carlsbad

List Number: 1

Creator: Stutzman, Amanda

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

Login Sample Receipt Checklist

 Client: Ensolum
 Job Number: 890-3934-1

 SDG Number: 03D2024146

List Source: Eurofins Midland List Creation: 01/25/23 12:13 PM

Creator: Rodriguez, Leticia

Login Number: 3934

List Number: 2

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

4

1

2

3

4

6

8

10

12

14

<6mm (1/4").

ANALYTICAL REPORT

PREPARED FOR

Attn: Josh Adams Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701 Generated 2/5/2023 9:32:00 AM

JOB DESCRIPTION

White Falcon 16 State 001H SDG NUMBER 03D2024146

JOB NUMBER

890-3935-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

Authorization

Generated 2/5/2023 9:32:00 AM

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

Companies

Client: Ensolum
Project/Site: White Falcon 16 State 001H

Laboratory Job ID: 890-3935-1 SDG: 03D2024146

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Definitions/Glossary

Job ID: 890-3935-1 Client: Ensolum Project/Site: White Falcon 16 State 001H SDG: 03D2024146

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier Qualifier Description

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

HPLC/IC

Qualifier **Qualifier Description**

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

DFR Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

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

Decision Level Concentration (Radiochemistry) DLC

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

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

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

NC Not Calculated

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

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

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Project/Site: White Falcon 16 State 001H

Job ID: 890-3935-1

SDG: 03D2024146

Job ID: 890-3935-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3935-1

Receipt

The sample was received on 1/23/2023 4:24 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: SS01 (890-3935-1).

GC VOA

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

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (MB 880-45268/1-A), (890-3928-A-1-E MS) and (890-3928-A-1-F MSD). Evidence of matrix interferences is not obvious.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-44790 and analytical batch 880-44922 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Matrix: Solid

Lab Sample ID: 890-3935-1

Client Sample Results

Client: Ensolum Job ID: 890-3935-1 Project/Site: White Falcon 16 State 001H SDG: 03D2024146

Date Collected: 01/20/23 14:30 Date Received: 01/23/23 16:24

Sample Depth: 0.2'

Client Sample ID: SS01

	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		02/02/23 13:52	02/03/23 04:22	
Toluene	<0.00198	U	0.00198	mg/Kg		02/02/23 13:52	02/03/23 04:22	,
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		02/02/23 13:52	02/03/23 04:22	
m-Xylene & p-Xylene	< 0.00396	U	0.00396	mg/Kg		02/02/23 13:52	02/03/23 04:22	
o-Xylene	<0.00198	U	0.00198	mg/Kg		02/02/23 13:52	02/03/23 04:22	,
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		02/02/23 13:52	02/03/23 04:22	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)			70 - 130			02/02/23 13:52	02/03/23 04:22	
1,4-Difluorobenzene (Surr)	102		70 - 130			02/02/23 13:52	02/03/23 04:22	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			02/03/23 08:57	-
Analyte		Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg				
				nig/kg			02/05/23 09:18	•
Method: SW846 8015B NM - Die	sel Range Orga	nics (DRO)	(GC)	IIIg/Ng			02/05/23 09:18	,
				Unit	D	Prepared		Dil Fac
Analyte		Qualifier	(GC) RL 50.0	Unit	<u>D</u>	Prepared 02/02/23 13:41	02/05/23 09:18 Analyzed 02/05/23 05:14	Dil Fac
Analyte Gasoline Range Organics	Result	Qualifier	RL		<u>D</u>		Analyzed	
Analyte Gasoline Range Organics (GRO)-C6-C10	Result	Qualifier U	RL	Unit	<u>D</u>		Analyzed	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0	Qualifier U	RL 50.0	Unit mg/Kg mg/Kg	<u>D</u>	02/02/23 13:41	Analyzed 02/05/23 05:14 02/05/23 05:14	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0	Qualifier U	RL 50.0	<mark>Unit</mark> mg/Kg	<u>D</u>	02/02/23 13:41	Analyzed 02/05/23 05:14	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier U U	RL 50.0	Unit mg/Kg mg/Kg	<u>D</u>	02/02/23 13:41	Analyzed 02/05/23 05:14 02/05/23 05:14	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier U U	FL 50.0 50.0 50.0	Unit mg/Kg mg/Kg	<u>D</u>	02/02/23 13:41 02/02/23 13:41 02/02/23 13:41	Analyzed 02/05/23 05:14 02/05/23 05:14 02/05/23 05:14	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U U	50.0 50.0 50.0 <i>Limits</i>	Unit mg/Kg mg/Kg	<u>D</u>	02/02/23 13:41 02/02/23 13:41 02/02/23 13:41 Prepared	Analyzed 02/05/23 05:14 02/05/23 05:14 02/05/23 05:14 Analyzed	Dil Fac
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 U Qualifier	RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	Unit mg/Kg mg/Kg	<u>D</u>	02/02/23 13:41 02/02/23 13:41 02/02/23 13:41 Prepared 02/02/23 13:41	Analyzed 02/05/23 05:14 02/05/23 05:14 02/05/23 05:14 Analyzed 02/05/23 05:14	Dil Fa
Oll Range Organics (Over C28-C36) Surrogate	Result	Qualifier U U Qualifier	RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	Unit mg/Kg mg/Kg	<u>D</u>	02/02/23 13:41 02/02/23 13:41 02/02/23 13:41 Prepared 02/02/23 13:41	Analyzed 02/05/23 05:14 02/05/23 05:14 02/05/23 05:14 Analyzed 02/05/23 05:14	Dil Fa

Surrogate Summary

Client: Ensolum Job ID: 890-3935-1
Project/Site: White Falcon 16 State 001H SDG: 03D2024146

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limit
		BFB1	DFBZ1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
0-3925-A-1-D MS	Matrix Spike	102	103	
0-3925-A-1-E MSD	Matrix Spike Duplicate	102	98	
90-3935-1	SS01	111	102	
CS 880-45269/1-A	Lab Control Sample	101	92	
CSD 880-45269/2-A	Lab Control Sample Dup	95	102	
IB 880-45239/5-A	Method Blank	89	92	
1B 880-45269/5-A	Method Blank	91	88	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Rec
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-3928-A-1-E MS	Matrix Spike	16 S1-	12 S1-	
890-3928-A-1-F MSD	Matrix Spike Duplicate	17 S1-	10 S1-	
890-3935-1	SS01	96	98	
LCS 880-45268/2-A	Lab Control Sample	90	94	
LCSD 880-45268/3-A	Lab Control Sample Dup	89	93	
MB 880-45268/1-A	Method Blank	124	138 S1+	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-3935-1 Project/Site: White Falcon 16 State 001H SDG: 03D2024146

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-45239/5-A

Lab Sample ID: MB 880-45269/5-A

Analysis Batch: 45230

Matrix: Solid

Matrix: Solid

Analysis Batch: 45230

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 45239

	MB	MB							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200	mg/Kg		02/02/23 09:32	02/02/23 11:44	1	
Toluene	<0.00200	U	0.00200	mg/Kg		02/02/23 09:32	02/02/23 11:44	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/02/23 09:32	02/02/23 11:44	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/02/23 09:32	02/02/23 11:44	1	
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/02/23 09:32	02/02/23 11:44	1	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/02/23 09:32	02/02/23 11:44	1	

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	02/02/23 09:32	02/02/23 11:44	1
1,4-Difluorobenzene (Surr)	92		70 - 130	02/02/23 09:32	02/02/23 11:44	1

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

Prep Batch: 45269

	INID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200	mg/Kg		02/02/23 13:52	02/02/23 22:29	
Toluene	<0.00200	U	0.00200	mg/Kg		02/02/23 13:52	02/02/23 22:29	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/02/23 13:52	02/02/23 22:29	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/02/23 13:52	02/02/23 22:29	
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/02/23 13:52	02/02/23 22:29	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/02/23 13:52	02/02/23 22:29	

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	02/02/23 13:52	02/02/23 22:29	1
1,4-Difluorobenzene (Surr)	88		70 - 130	02/02/23 13:52	02/02/23 22:29	1

Lab Sample ID: LCS 880-45269/1-A

Matrix: Solid

Analysis Batch: 45230

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 45269

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09657		mg/Kg		97	70 - 130	
Toluene	0.100	0.09290		mg/Kg		93	70 - 130	
Ethylbenzene	0.100	0.08916		mg/Kg		89	70 - 130	
m-Xylene & p-Xylene	0.200	0.1874		mg/Kg		94	70 - 130	
o-Xylene	0.100	0.09608		mg/Kg		96	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	101	70 - 130
1.4-Difluorobenzene (Surr)	92	70 - 130

Lab Sample ID: LCSD 880-45269/2-A

Matrix: Solid

Analysis Batch: 45230

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

Prep Batch: 45269

	эріке	LCSD LC				%Rec		KPD
Analyte	Added	Result Qua	ıalifier Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09768	mg/Kg		98	70 - 130	1	35

Client: Ensolum Job ID: 890-3935-1 Project/Site: White Falcon 16 State 001H SDG: 03D2024146

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

Lab Sample ID: LCSD 880-45269/2-A

Matrix: Solid

Analysis Batch: 45230

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 45269

Spike LCSD LCSD %Rec **RPD** Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit D Toluene 0.100 0.09199 92 70 - 130 35 mg/Kg Ethylbenzene 0.100 0.08490 mg/Kg 85 70 - 130 5 35 0.200 0.1762 70 - 130 m-Xylene & p-Xylene mg/Kg 88 35 6 o-Xylene 0.100 0.08972 mg/Kg 90 70 - 130 35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 890-3925-A-1-D MS

Matrix: Solid

Analysis Batch: 45230

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 45269

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.100	0.1089		mg/Kg	_	109	70 - 130	
Toluene	<0.00201	U	0.100	0.09892		mg/Kg		99	70 - 130	
Ethylbenzene	<0.00201	U	0.100	0.09440		mg/Kg		94	70 - 130	
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1956		mg/Kg		98	70 - 130	
o-Xylene	<0.00201	U	0.100	0.09982		mg/Kg		100	70 - 130	

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	102	70 - 130
1,4-Difluorobenzene (Surr)	103	70 - 130

Lab Sample ID: 890-3925-A-1-E MSD

Matrix: Solid

Analysis Batch: 45230

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA Prep Batch: 45269

%Rec Spike MSD MSD RPD Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Benzene <0.00201 U 0.0990 0.1011 mg/Kg 102 70 - 130 35 Toluene <0.00201 U 0.0990 0.09416 mg/Kg 95 70 - 130 5 35 Ethylbenzene < 0.00201 0.0990 0.09146 mg/Kg 92 70 - 130 35 <0.00402 U 0.198 0.1915 97 70 - 130 2 35 m-Xylene & p-Xylene mg/Kg <0.00201 U 0.0990 o-Xylene 0.09783 mg/Kg 70 - 130 35

MSD MSD

мв мв

Qualifier

Result

<49.9 U

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

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

Lab Sample ID: MB 880-45268/1-A

Matrix: Solid

Analysis Batch: 45445

Gasoline Range Organics

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

Prepared

02/02/23 13:41

Prep Batch: 45268

Analyzed 02/04/23 20:13

(GRO)-C6-C10

Analyte

Eurofins Carlsbad

Page 9 of 20

RL

49.9

Unit

mg/Kg

2/5/2023

Client: Ensolum Job ID: 890-3935-1
Project/Site: White Falcon 16 State 001H SDG: 03D2024146

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

Lab Sample ID: MB 880-45268/1-A

Matrix: Solid

Analysis Batch: 45445

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 45268

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/02/23 13:41	02/04/23 20:13	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/02/23 13:41	02/04/23 20:13	1
	МВ	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130			02/02/23 13:41	02/04/23 20:13	1
o-Terphenyl	138	S1+	70 - 130			02/02/23 13:41	02/04/23 20:13	1

Lab Sample ID: LCS 880-45268/2-A Client Sample ID: Lab Control Sample **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 45445 Prep Batch: 45268 LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 999 869.5 87 70 - 130 mg/Kg (GRO)-C6-C10 999 892.5 Diesel Range Organics (Over mg/Kg 89 70 - 130 C10-C28) LCS LCS Qualifier Limits Surrogate %Recovery 1-Chlorooctane 70 - 130 90 o-Terphenyl 94 70 - 130

Lab Sample ID: LCSD 880-45268/3-A

Matrix: Solid

Analysis Batch: 45445

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 45268

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	999	837.4		mg/Kg		84	70 - 130	4	20
(GRO)-C6-C10									
Diesel Range Organics (Over	999	880.3		mg/Kg		88	70 - 130	1	20
C10-C28)									

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	89		70 - 130
o-Terphenyl	93		70 - 130

Lab Sample ID: 890-3928-A-1-E M Matrix: Solid Analysis Batch: 45445	IS							Client	Prep 1	: Matrix Spike Type: Total/NA Batch: 45268
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<50.0	U	1000	1051		mg/Kg		103	70 - 130	
(GRO)-C6-C10										

1	(GRO)-C6-C10								
١	Diesel Range Organics (Over	<50.0	U	1000	1120	mg/Kg	108	70 - 130	
	C10-C28)								
		MS	MS						
	Surrogate	%Recovery	Qualifier	Limits					
	1-Chlorooctane	16	S1-	70 - 130					
	o-Terphenyl	12	S1-	70 - 130					

Client: Ensolum Job ID: 890-3935-1 Project/Site: White Falcon 16 State 001H SDG: 03D2024146

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

Lab Sample ID: 890-3928-A-1-F MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 45445									Prep	Batch:	45268
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<50.0	U	998	994.5		mg/Kg		97	70 - 130	6	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<50.0	U	998	1097		mg/Kg		106	70 - 130	2	20

C10-C28)

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane		S1-	70 - 130
o-Terphenyl	10	S1-	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-44790/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 44922

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			01/27/23 21:21	1

Lab Sample ID: LCS 880-44790/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 44922

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	265.2		mg/Kg		106	90 - 110	 ·

Lab Sample ID: LCSD 880-44790/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 44922

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	265.6		mg/Kg	_	106	90 - 110	0	20	

Lab Sample ID: 890-3922-A-2-B MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 44922

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	1380	F1	1240	2819	F1	ma/Ka		116	90 110	

Lab Sample ID: 890-3922-A-2-C MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 44922

Analysis Daton. 44322											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	1380	F1	1240	2800	F1	mg/Kg		115	90 - 110	1	20

Eurofins Carlsbad

Prep Type: Soluble

QC Association Summary

Client: Ensolum Job ID: 890-3935-1
Project/Site: White Falcon 16 State 001H SDG: 03D2024146

GC VOA

A I		Datale.	45000
Allar	VSIS	Batch:	40200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3935-1	SS01	Total/NA	Solid	8021B	45269
MB 880-45239/5-A	Method Blank	Total/NA	Solid	8021B	45239
MB 880-45269/5-A	Method Blank	Total/NA	Solid	8021B	45269
LCS 880-45269/1-A	Lab Control Sample	Total/NA	Solid	8021B	45269
LCSD 880-45269/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	45269
890-3925-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	45269
890-3925-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	45269

Prep Batch: 45239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-45239/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 45269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3935-1	SS01	Total/NA	Solid	5035	
MB 880-45269/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-45269/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-45269/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3925-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
890-3925-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 45317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3935-1	SS01	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 45268

Lab Sample ID 890-3935-1	Client Sample ID SS01	Prep Type Total/NA	Matrix Solid	Method 8015NM Prep	Prep Batch
MB 880-45268/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-45268/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-45268/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3928-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3928-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 45445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3935-1	SS01	Total/NA	Solid	8015B NM	45268
MB 880-45268/1-A	Method Blank	Total/NA	Solid	8015B NM	45268
LCS 880-45268/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	45268
LCSD 880-45268/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	45268
890-3928-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	45268
890-3928-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	45268

Analysis Batch: 45494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3935-1	SS01	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum
Project/Site: White Falcon 16 State 001H
SDG: 03D2024146

HPLC/IC

Leach Batch: 44790

Lab Sample ID 890-3935-1	Client Sample ID SS01	Prep Type Soluble	Matrix Solid	Method DI Leach	Prep Batch
MB 880-44790/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-44790/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-44790/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3922-A-2-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-3922-A-2-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 44922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3935-1	SS01	Soluble	Solid	300.0	44790
MB 880-44790/1-A	Method Blank	Soluble	Solid	300.0	44790
LCS 880-44790/2-A	Lab Control Sample	Soluble	Solid	300.0	44790
LCSD 880-44790/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	44790
890-3922-A-2-B MS	Matrix Spike	Soluble	Solid	300.0	44790
890-3922-A-2-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	44790

Eurofins Carlsbad

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Date Received: 01/23/23 16:24

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Soluble

Soluble

Lab Chronicle

Client: Ensolum Job ID: 890-3935-1 Project/Site: White Falcon 16 State 001H SDG: 03D2024146

Client Sample ID: SS01 Lab Sample ID: 890-3935-1 Date Collected: 01/20/23 14:30

Matrix: Solid

01/27/23 23:35

СН

44922

Batch Batch Dil Initial Final Batch Prepared Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 45269 Prep 5.05 g 5 mL 02/02/23 13:52 MNR EET MID 8021B Analysis 1 5 mL 5 mL 45230 02/03/23 04:22 MNR **EET MID** Analysis Total BTEX 45317 02/03/23 08:57 ΑJ EET MID 1 8015 NM 45494 **EET MID** Analysis 1 02/05/23 09:18 ΑJ 8015NM Prep 45268 EET MID Prep 10.01 g 10 mL 02/02/23 13:41 DM Analysis 8015B NM 1 uL 1 uL 45445 02/05/23 05:14 ΑJ **EET MID** DI Leach 50 mL 44790 01/26/23 08:29 СН EET MID Leach 5 g

Laboratory References:

Analysis

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

300.0

Eurofins Carlsbad

EET MID

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-3935-1 Project/Site: White Falcon 16 State 001H

SDG: 03D2024146

Laboratory: Eurofins Midland

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

AuthorityProgramTexasNELAP		rogram	Identification Number	Expiration Date
		T104704400-22-25	06-30-23	
The following analytes the agency does not of	. ,	ut the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes fo
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	
Total BTEX		Solid	Total BTEX	

Method Summary

Client: Ensolum

Project/Site: White Falcon 16 State 001H

Method Description

Total BTEX Calculation

Volatile Organic Compounds (GC)

Diesel Range Organics (DRO) (GC)

Diesel Range Organics (DRO) (GC)

Deionized Water Leaching Procedure

Anions, Ion Chromatography

Closed System Purge and Trap

Job ID: 890-3935-1

SDG: 03D2024146

Protocol	Laboratory
SW846	EET MID
TAL SOP	EET MID
SW846	EET MID
SW846	EET MID
EPA	EET MID

EET MID

EET MID

EET MID

SW846

SW846

ASTM

Protocol References:

Method

Total BTEX

8015 NM

8015B NM

8015NM Prep

DI Leach

300.0

5035

8021B

ASTM = ASTM International

EPA = US Environmental Protection Agency

Microextraction

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum

Project/Site: White Falcon 16 State 001H

Job ID: 890-3935-1

SDG: 03D2024146

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3935-1	SS01	Solid	01/20/23 14:30	01/23/23 16:24	0.2'

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Chain of Custody

eurofins Project Manager: Josh Ad	fins Environment Testing Xenco	Bill to: (If	Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199 Kalei Jennings		W.xenco.com Page of Work Order Comments
	Ensolum, LLC	Company Name:	Ensolum, LLC	Program: UST/PST PRP	Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐ State of Project:
	601 N Marienfeld St Suite 400	Address:	Midland TX 79701	Reporting: Level III ☐ Level III ☐ PST/UST ☐ TRRP ☐	☐ PST/UST ☐ TRRP ☐ Level IV☐
Phone: 3	303-517-8437	Email: kjennings@ens	Email: kjennings@ensolum.com, jadams@ensolum.com	Deliverables: EDD	ADaPT Other:
Name:	White Prings I'm State WH	Turn Around	ANALYS	SIS REQUEST	Preservative Codes
Project Number:	N24146		Pres.		None: NO DI Water: H ₂ O
Project Location: Sampler's Name:	20 1567 - 108,3802 D	Due Date: TAT starts the day received by the lab if received by 4:30nm			Cool: Cool MeOH: Me HCL: HC HNO ₃ : HN H-SO ₂ : H ₂ NaOH: Na
SAMPLE RECEIPT Samples Received Intact:	Temp Blank: Yes No	Wet Ice: (Yes No	aramete(H ₃ PO ₄ : HP NaHSO ₄ : NABIS
Sample Custody Seals:	s: Yes No (N/A) Temperature Reading:	leading:	890-3935	Chain of Custody	Zn Acetate+NaOH: Zn
Sample Identification	Matrix Date Sampled	Depth Grab/	O # On Of		Sample Comments
5501	5 017023	130 .2' 0			NAPP2301735698
Total 200.7 / 6010 Circle Method(s) and I	Total 200.7 / 6010 200.8 / 6020: 8Ri Circle Method(s) and Metal(s) to be analyzed	8RCRA 13PPM Texas 11 AI TCLP / SPLP 6010: 8RCRA	AI Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni RA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U	Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Mn Mo Ni Se Ag Tl U Hg: 163	Ng SiO ₂ Na Sr Tl Sn U V Zn Hg: 1631 / 245.1 / 7470 / 7471
Notice: Signature of this do	ocument and relinquishment of samples constito will be liable only for the cost of samples and mum charge of \$85.00 will be applied to each pr	utes a valid purchase order from o shall not assume any responsibilit oject and a charge of \$5 for each s	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.	contractors. It assigns standard terms and condition losses are due to circumstances beyond the confinese terms will be enforced unless previously necesses.	tions ontrol gotiated.
Relinquistred by	(Signature) Received	Received by: (Signature)	Date/Time Relinquished by:	: (Signature) Received by: (Signature)	Signature) Date/Time
			6		

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3935-1

SDG Number: 03D2024146

Login Number: 3935 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: 890-3935-1

 SDG Number: 03D2024146

int Source: Furnitine Midland

List Source: Eurofins Midland
List Number: 2
List Creation: 01/25/23 12:13 PM

Creator: Rodriguez, Leticia

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

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<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 2/5/2023 9:32:31 AM

JOB DESCRIPTION

White Falcon 16 State 001H SDG NUMBER 03D2024146

JOB NUMBER

890-3936-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

Authorization

Generated 2/5/2023 9:32:31 AM

Authorized for release by Jessica Kramer, Project Manager <u>Jessica.Kramer@et.eurofinsus.com</u> (432)704-5440 1

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Client: Ensolum
Project/Site: White Falcon 16 State 001H

Laboratory Job ID: 890-3936-1 SDG: 03D2024146

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Definitions/Glossary

Job ID: 890-3936-1 Client: Ensolum Project/Site: White Falcon 16 State 001H SDG: 03D2024146

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

F2 MS/MSD RPD exceeds control limits

S1-Surrogate recovery exceeds control limits, low biased.

Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

F1 MS and/or MSD recovery exceeds control limits.

U Indicates the analyte was analyzed for but not detected.

Glossary

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 Contains No Free Liquid **CNF**

Duplicate Error Ratio (normalized absolute difference) DER

Dil Fac **Dilution Factor**

Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

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

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

MDL Method Detection Limit

ML Minimum Level (Dioxin) MPN Most Probable Number MOI Method Quantitation Limit

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

Practical Quantitation Limit PQL

PRES Presumptive **Quality Control** QC

Relative Error Ratio (Radiochemistry) **RER**

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Project/Site: White Falcon 16 State 001H

Job ID: 890-3936-1

SDG: 03D2024146

Job ID: 890-3936-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3936-1

Receipt

The sample was received on 1/23/2023 4:24 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: SS03 (890-3936-1).

GC VOA

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

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-45275 and analytical batch 880-45439 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: (890-3930-A-1-F MS) and (890-3930-A-1-G MSD). Evidence of matrix interferences is not obvious.

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

HPLC/IC

Method 300 ORGFM 28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-44791 and analytical batch 880-44924 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Matrix: Solid

Job ID: 890-3936-1

Lab Sample ID: 890-3936-1

Client: Ensolum Project/Site: White Falcon 16 State 001H SDG: 03D2024146

Client Sample ID: SS03

Date Collected: 01/20/23 14:40 Date Received: 01/23/23 16:24

Sample Depth: 0.2'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/02/23 13:52	02/03/23 04:43	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/02/23 13:52	02/03/23 04:43	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/02/23 13:52	02/03/23 04:43	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		02/02/23 13:52	02/03/23 04:43	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/02/23 13:52	02/03/23 04:43	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/02/23 13:52	02/03/23 04:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130			02/02/23 13:52	02/03/23 04:43	1
1,4-Difluorobenzene (Surr)	101		70 - 130			02/02/23 13:52	02/03/23 04:43	1
- Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/03/23 08:57	1
Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			02/05/23 09:57	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/02/23 14:55	02/05/23 00:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/02/23 14:55	02/05/23 00:34	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/02/23 14:55	02/05/23 00:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130			02/02/23 14:55	02/05/23 00:34	1
o-Terphenyl	83		70 - 130			02/02/23 14:55	02/05/23 00:34	1
Method: EPA 300.0 - Anions, Ion	• •	•						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.97	11	4.97	mg/Kg			01/27/23 18:28	1

Surrogate Summary

Client: Ensolum Job ID: 890-3936-1
Project/Site: White Falcon 16 State 001H SDG: 03D2024146

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Rec
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-3925-A-1-D MS	Matrix Spike	102	103	
890-3925-A-1-E MSD	Matrix Spike Duplicate	102	98	
890-3936-1	SS03	118	101	
LCS 880-45269/1-A	Lab Control Sample	101	92	
LCSD 880-45269/2-A	Lab Control Sample Dup	95	102	
MB 880-45239/5-A	Method Blank	89	92	
MB 880-45269/5-A	Method Blank	91	88	

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

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-3930-A-1-F MS	Matrix Spike	11 S1-	12 S1-	
890-3930-A-1-G MSD	Matrix Spike Duplicate	10 S1-	10 S1-	
890-3936-1	SS03	79	83	
LCS 880-45275/2-A	Lab Control Sample	74	78	
LCSD 880-45275/3-A	Lab Control Sample Dup	82	85	
MB 880-45275/1-A	Method Blank	87	95	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-3936-1 Project/Site: White Falcon 16 State 001H SDG: 03D2024146

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-45239/5-A

Analysis Batch: 45230

Matrix: Solid

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 45239

1

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/02/23 09:32	02/02/23 11:44	•
Toluene	<0.00200	U	0.00200	mg/Kg		02/02/23 09:32	02/02/23 11:44	,
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/02/23 09:32	02/02/23 11:44	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/02/23 09:32	02/02/23 11:44	
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/02/23 09:32	02/02/23 11:44	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/02/23 09:32	02/02/23 11:44	•

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	02/02/23 09:32	02/02/23 11:44	1
1,4-Difluorobenzene (Surr)	92		70 - 130	02/02/23 09:32	02/02/23 11:44	1

Lab Sample ID: MB 880-45269/5-A

Client Sample ID: Method Blank

245 Campio 121 1112 CCC 1020070 71	Choirt Campio is i motifica siant
Matrix: Solid	Prep Type: Total/NA
Analysis Batch: 45230	Prep Batch: 45269
MB MB	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/02/23 13:52	02/02/23 22:29	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/02/23 13:52	02/02/23 22:29	1
Ethylbenzene	< 0.00200	U	0.00200	mg/Kg		02/02/23 13:52	02/02/23 22:29	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/02/23 13:52	02/02/23 22:29	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/02/23 13:52	02/02/23 22:29	1
Xylenes, Total	< 0.00400	U	0.00400	mg/Kg		02/02/23 13:52	02/02/23 22:29	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Pro	epared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	02/02	2/23 13:52	02/02/23 22:29	1
1,4-Difluorobenzene (Surr)	88		70 - 130	02/02	2/23 13:52	02/02/23 22:29	1

Lab Sample ID: LCS 880-45269/1-A

Matrix: Solid

Analysis Batch: 45230

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 45269

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09657		mg/Kg		97	70 - 130	
Toluene	0.100	0.09290		mg/Kg		93	70 - 130	
Ethylbenzene	0.100	0.08916		mg/Kg		89	70 - 130	
m-Xylene & p-Xylene	0.200	0.1874		mg/Kg		94	70 - 130	
o-Xylene	0.100	0.09608		mg/Kg		96	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	101	70 - 130
1.4-Difluorobenzene (Surr)	92	70 - 130

Lab Sample ID: LCSD 880-45269/2-A

Matrix: Solid

Analysis Batch: 45230

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 45269

	Spike	LCSD LCSD				%Rec		RPD
Analyte	Added	Result Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09768	mg/Kg		98	70 - 130	1	35

Client: Ensolum Job ID: 890-3936-1 Project/Site: White Falcon 16 State 001H SDG: 03D2024146

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

Lab Sample ID: LCSD 880-45269/2-A

Matrix: Solid

Analysis Batch: 45230

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 45269

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.09199		mg/Kg		92	70 - 130	1	35
Ethylbenzene	0.100	0.08490		mg/Kg		85	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.1762		mg/Kg		88	70 - 130	6	35
o-Xylene	0.100	0.08972		mg/Kg		90	70 - 130	7	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 890-3925-A-1-D MS

Matrix: Solid

Analysis Batch: 45230

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 45269

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.100	0.1089		mg/Kg		109	70 - 130	
Toluene	<0.00201	U	0.100	0.09892		mg/Kg		99	70 - 130	
Ethylbenzene	<0.00201	U	0.100	0.09440		mg/Kg		94	70 - 130	
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1956		mg/Kg		98	70 - 130	
o-Xylene	<0.00201	U	0.100	0.09982		mg/Kg		100	70 - 130	

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	102	70 - 130
1,4-Difluorobenzene (Surr)	103	70 - 130

Lab Sample ID: 890-3925-A-1-E MSD

Matrix: Solid

Analysis Batch: 45230

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA Prep Batch: 45269

Spike MSD MSD RPD Sample Sample %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Benzene <0.00201 U 0.0990 0.1011 mg/Kg 102 70 - 130 35 Toluene <0.00201 U 0.0990 0.09416 mg/Kg 95 70 - 130 5 35 Ethylbenzene <0.00201 U 0.0990 0.09146 mg/Kg 92 70 - 130 35 <0.00402 U 0.198 0.1915 97 70 - 130 2 35 m-Xylene & p-Xylene mg/Kg <0.00201 U 0.0990 o-Xylene 0.09783 mq/Kq 70 - 130 35

MSD MSD

Surrogate	%Recovery	Quaimer	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

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

Lab Sample ID: MB 880-45275/1-A

Matrix: Solid

Analysis Batch: 45439

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

Prep Batch: 45275

мв мв Result Qualifier RL Unit Prepared Gasoline Range Organics <49.9 U 49.9 mg/Kg 02/02/23 14:55 02/04/23 20:30 (GRO)-C6-C10

Client: Ensolum Job ID: 890-3936-1 Project/Site: White Falcon 16 State 001H

SDG: 03D2024146

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

Client Sample ID: Method Blank Lab Sample ID: MB 880-45275/1-A **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 45439 Prep Batch: 45275 MR MR

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/02/23 14:55	02/04/23 20:30	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/02/23 14:55	02/04/23 20:30	1
	МВ	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130			02/02/23 14:55	02/04/23 20:30	1
o-Terphenyl	95		70 - 130			02/02/23 14:55	02/04/23 20:30	1

Lab Sample ID: LCS 880-45275/2-A Client Sample ID: Lab Control Sample **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 45439 Prep Batch: 45275 LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 999 746.0 75 70 - 130 mg/Kg (GRO)-C6-C10 999 837.9 Diesel Range Organics (Over mg/Kg 84 70 - 130C10-C28) LCS LCS Qualifier Limits Surrogate %Recovery 1-Chlorooctane 70 - 130 74 o-Terphenyl 78 70 - 130

Lab Sample ID: LCSD 880-45275/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 45439** Prep Batch: 45275

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier %Rec Limits RPD Limit Unit D Gasoline Range Organics 999 825.6 mg/Kg 83 70 - 130 20 (GRO)-C6-C10 Diesel Range Organics (Over 999 929.7 mg/Kg 93 70 - 130 10 20

LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 82 70 - 130 o-Terphenyl 85 70 - 130

Lab Sample ID: 890-3930-A-1-F MS Client Sample ID: Matrix Spike **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 45439 Prep Batch: 45275

	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1 F2	1000	1403	F1	mg/Kg		137	70 - 130
Diesel Range Organics (Over C10-C28)	138		1000	1195		mg/Kg		106	70 - 130

	MS	Me	
Surrogate	%Recovery		Limits
1-Chlorooctane		S1-	70 - 130
o-Terphenyl	12	S1-	70 - 130

Eurofins Carlsbad

C10-C28)

Client: Ensolum Job ID: 890-3936-1 Project/Site: White Falcon 16 State 001H

SDG: 03D2024146

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

Lab Sample ID: 890-3930-A-1-G MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 45439 Prep Batch: 45275

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<50.0	U F1 F2	998	902.8	F2	mg/Kg		87	70 - 130	43	20
(GRO)-C6-C10											
Diesel Range Organics (Over	138		998	1024		mg/Kg		89	70 - 130	15	20
C10-C28)											

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	10	S1-	70 - 130
o-Terphenyl	10	S1-	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-44791/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 44924

	MB	MR						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	ma/Ka			01/27/23 15:24	1

Lab Sample ID: LCS 880-44791/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 44924

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	262.3	-	mg/Kg		105	90 - 110	

Lab Sample ID: LCSD 880-44791/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 44924

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	271.7		mg/Kg	_	109	90 - 110	4	20	

Lab Sample ID: 890-3924-A-11-B MS Client Sample ID: Matrix Spike Matrix: Solid **Prep Type: Soluble**

Analysis Batch: 44924

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	393	F1	249	670.9	F1	ma/Ka		112	90 110	

Lab Sample ID: 890-3924-A-11-C MSD Client Sample ID: Matrix Spike Duplicate **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 44924

-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	393	F1	249	671.3	F1	mg/Kg		112	90 - 110	0	20

QC Association Summary

Client: Ensolum Project/Site: White Falcon 16 State 001H Job ID: 890-3936-1

SDG: 03D2024146

GC VOA

Analysis Batch: 45230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3936-1	SS03	Total/NA	Solid	8021B	45269
MB 880-45239/5-A	Method Blank	Total/NA	Solid	8021B	45239
MB 880-45269/5-A	Method Blank	Total/NA	Solid	8021B	45269
LCS 880-45269/1-A	Lab Control Sample	Total/NA	Solid	8021B	45269
LCSD 880-45269/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	45269
890-3925-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	45269
890-3925-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	45269

Prep Batch: 45239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-45239/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 45269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3936-1	SS03	Total/NA	Solid	5035	
MB 880-45269/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-45269/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-45269/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3925-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
890-3925-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 45318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3936-1	SS03	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 45275

Lab Sample ID 890-3936-1	Client Sample ID SS03	Prep Type Total/NA	Matrix Solid	Method 8015NM Prep	Prep Batch
MB 880-45275/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-45275/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-45275/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3930-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3930-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 45439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3936-1	SS03	Total/NA	Solid	8015B NM	45275
MB 880-45275/1-A	Method Blank	Total/NA	Solid	8015B NM	45275
LCS 880-45275/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	45275
LCSD 880-45275/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	45275
890-3930-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	45275
890-3930-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	45275

Analysis Batch: 45521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3936-1	SS03	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum Job ID: 890-3936-1 Project/Site: White Falcon 16 State 001H

SDG: 03D2024146

HPLC/IC

Leach Batch: 44791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3936-1	SS03	Soluble	Solid	DI Leach	
MB 880-44791/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-44791/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-44791/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3924-A-11-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-3924-A-11-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 44924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
890-3936-1	SS03	Soluble	Solid	300.0	44791	
MB 880-44791/1-A	Method Blank	Soluble	Solid	300.0	44791	
LCS 880-44791/2-A	Lab Control Sample	Soluble	Solid	300.0	44791	
LCSD 880-44791/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	44791	
890-3924-A-11-B MS	Matrix Spike	Soluble	Solid	300.0	44791	
890-3924-A-11-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	44791	

Lab Chronicle

Client: Ensolum Job ID: 890-3936-1 Project/Site: White Falcon 16 State 001H SDG: 03D2024146

Client Sample ID: SS03 Lab Sample ID: 890-3936-1 Date Collected: 01/20/23 14:40

Matrix: Solid

Date Received: 01/23/23 16:24

	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	45269	02/02/23 13:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45230	02/03/23 04:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			45318	02/03/23 08:57	AJ	EET MID
Total/NA	Analysis	8015 NM		1			45521	02/05/23 09:57	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	45275	02/02/23 14:55	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45439	02/05/23 00:34	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	44791	01/26/23 08:31	CH	EET MID
Soluble	Analysis	300.0		1			44924	01/27/23 18:28	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-3936-1 Project/Site: White Falcon 16 State 001H

SDG: 03D2024146

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	ied by the governing authority. This list ma	ay include analytes fo
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	

Method Summary

Client: Ensolum

Project/Site: White Falcon 16 State 001H

Job ID: 890-3936-1 SDG: 03D2024146

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum

Project/Site: White Falcon 16 State 001H

Job ID: 890-3936-1

SDG: 03D2024146

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3936-1	SS03	Solid	01/20/23 14:40	01/23/23 16:24	0.2'

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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.

Received by: (Signature)

-23 23

Date/Time

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Revised Date: 08/25/2020 Rev. 2020.2

Ensolum, LLC 601 N Marienfeld St Suite 400 Midland, TX 79701 Midland, TX 79701 Email:	eurofins Project Manager: Josh Ac	Fins Environment Testing Xenco Josh Adams	Bill to: (if	Chain of Custody Houston, Tx (281) 240-4200, Dallas, Tx (214) 902-0300 Midland, Tx (432) 704-5440, San Antonio, Tx (210) 509-3334 EL Paso, Tx (915) 585-3443, Lubbock, Tx (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199 Kalei Jennings	Work Order No:
Ensolum, LLC Company Name: Ensolum, LLC Ens		osh Adams	Bill to: (if different)	Kalei Jennings	Work Ord
Section Seals: 100 South 400 Address: 601 N Marienfeld St Suite 400 Address: 601 N Marienfeld St Suite 400		nsolum, LLC	Company Name:	Ensolum, LLC	Program: UST/PST PRP Brownfields RRC Superfund
Analysis Required Intacts: Midland, TX 79701 Email: kiennings@ensolum.com. Idagms@ensolum.com. Idagm		01 N Marienfeld St Suite 400	Address:	601 N Marienfeld St Suite 400	State of Project:
Deliverables: EDD		Aidland, TX 79701	City, State ZIP:	Midland, TX 79701	Reporting: Level II Level III
Name: MAR TATOM IN STORE MITH Turn Around Press. Location: 250.0 10 Store 10 Store		03-517-8437	Email: kjennings@enso	olum.com, jadams@ensolum.com	Deliverables: EDD ADaPT
All Accelion: Accelion:	Project Name:	3	701H Turn Around	ANALYSIS R	QUEST
Location: 2, 50, 70, 70, 70, 70, 70, 70, 70, 70, 70, 7	Project Number:		Rush		
PLE RECEIPT Temp Blank: (Cs) No Wet loe: Also in received by 4-30pm PLE RECEIPT Temp Blank: (Cs) No Wet loe: Also in received by 4-30pm PLE RECEIPT Temp Blank: (Cs) No Wet loe: Also in received by 4-30pm PLE RECEIPT Temp Blank: (Cs) No Wet loe: Also in received by 4-30pm PLE RECEIPT Temp Blank: (Cs) No Wet loe: Also in received by the lab. If received by 4-30pm In control	Project Location:	2018 1811- 0018, 25			
Temp Blank: Ces No Wet Ice: Res No Thermometer ID: Thirty FD Yes No MA Temperature Reading: 20 Corrected Temperature: 20 Date Time Sampled Sampled Comp Cont H. PT EXECUTED TO SAMPLED TO S	ler's Name:	Miound Palcone			
Correction Factor:	SAMPLE RECEIP	Temp Blank: Yes	Wet lce: Yes		
Ves No NGA Temperature Reading: 20 Broad Temperature: 20 Broad Sampled Sampled Sampled Comp Cont H.	Samples Received Inta	act: (Yes No	1700		
Corrected Temperature:	Sample Custody Seals	Yes No Nua	23	1	stody
200.8 / 6020: Date Time Sampled Sampled Sampled Comp Cont E/J E/J	Total Containers:		9.	(8021	-
200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se A	Sample Identii	Matrix	Time Depth Comp	CHLOF	
200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se A	5038	01/20	1440 2'		
200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se A					
200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se A					
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200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se A					
200.8 / 6020: 8RCRA 13PPM Texas 11 AI Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se A					
200.8 / 6020: 8RCRA 13PPM Texas 11 AI Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se A					
	Total 200.7 / 601	Ì	13PPM	Sb As Ba Be B Cd Ca Cr Co Cu Fe	ON K Se A
					the contract to the conditions

Login Sample Receipt Checklist

 Client: Ensolum
 Job Number: 890-3936-1

 SDG Number: 03D2024146

Login Number: 3936 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: 890-3936-1

SDG Number: 03D2024146

Login Number: 3936 **List Source: Eurofins Midland** List Number: 2

List Creation: 01/25/23 12:13 PM

Creator: Rodriguez, Leticia

<6mm (1/4").

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

Page 20 of 20

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 2/5/2023 9:32:49 AM

JOB DESCRIPTION

White Falcon 16 State 001H SDG NUMBER 03D2024146

JOB NUMBER

890-3937-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

Authorization

Generated 2/5/2023 9:32:49 AM

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

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

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Client: Ensolum
Project/Site: White Falcon 16 State 001H

Laboratory Job ID: 890-3937-1 SDG: 03D2024146

Table of Contents

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Definitions/Glossary

Job ID: 890-3937-1 Client: Ensolum Project/Site: White Falcon 16 State 001H

SDG: 03D2024146

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

alifier Description
l

F1 MS and/or MSD recovery exceeds control limits.

F2 MS/MSD RPD exceeds control limits

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

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

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

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

DFR Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

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

Decision Level Concentration (Radiochemistry) DLC

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

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

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

NC Not Calculated

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

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

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Project/Site: White Falcon 16 State 001H

Job ID: 890-3937-1

SDG: 03D2024146

Job ID: 890-3937-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3937-1

Receipt

The sample was received on 1/23/2023 4:24 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: SS05 (890-3937-1).

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-45275 and analytical batch 880-45439 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: (890-3930-A-1-F MS) and (890-3930-A-1-G MSD). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

Matrix: Solid

Lab Sample ID: 890-3937-1

Client Sample Results

Client: Ensolum Job ID: 890-3937-1
Project/Site: White Falcon 16 State 001H SDG: 03D2024146

Client Sample ID: SS05

Date Collected: 01/20/23 15:00 Date Received: 01/23/23 16:24

Sample Depth: 0.2'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/02/23 13:52	02/03/23 05:03	1
Toluene	< 0.00199	U	0.00199	mg/Kg		02/02/23 13:52	02/03/23 05:03	
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		02/02/23 13:52	02/03/23 05:03	
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		02/02/23 13:52	02/03/23 05:03	
o-Xylene	< 0.00199	U	0.00199	mg/Kg		02/02/23 13:52	02/03/23 05:03	,
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/02/23 13:52	02/03/23 05:03	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	115		70 - 130			02/02/23 13:52	02/03/23 05:03	1
1,4-Difluorobenzene (Surr)	110		70 - 130			02/02/23 13:52	02/03/23 05:03	
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/03/23 08:57	
Method: SW846 8015 NM - Dies	sel Range Organ	ics (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	3530		49.9	mg/Kg			02/05/23 09:57	1
Method: SW846 8015B NM - Did	esel Range Orga	nics (DRO)	(GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		02/02/23 14:55	02/04/23 22:30	1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	2970		49.9	mg/Kg		02/02/23 14:55	02/04/23 22:30	,
Oll Range Organics (Over C28-C36)	556		49.9	mg/Kg		02/02/23 14:55	02/04/23 22:30	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	88		70 - 130			02/02/23 14:55	02/04/23 22:30	7
o-Terphenyl	92		70 - 130			02/02/23 14:55	02/04/23 22:30	
Method: EPA 300.0 - Anions, lo	n Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Surrogate Summary

Job ID: 890-3937-1 Client: Ensolum Project/Site: White Falcon 16 State 001H SDG: 03D2024146

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-3925-A-1-D MS	Matrix Spike	102	103
890-3925-A-1-E MSD	Matrix Spike Duplicate	102	98
890-3937-1	SS05	115	110
LCS 880-45269/1-A	Lab Control Sample	101	92
LCSD 880-45269/2-A	Lab Control Sample Dup	95	102
MB 880-45239/5-A	Method Blank	89	92
MB 880-45269/5-A	Method Blank	91	88

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

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

		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-3930-A-1-F MS	Matrix Spike	11 S1-	12 S1-
890-3930-A-1-G MSD	Matrix Spike Duplicate	10 S1-	10 S1-
890-3937-1	SS05	88	92
LCS 880-45275/2-A	Lab Control Sample	74	78
LCSD 880-45275/3-A	Lab Control Sample Dup	82	85
MB 880-45275/1-A	Method Blank	87	95

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-3937-1 Project/Site: White Falcon 16 State 001H

SDG: 03D2024146

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-45239/5-A

Lab Sample ID: MB 880-45269/5-A

Matrix: Solid Analysis Batch: 45230

Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene

o-Xylene

Xylenes, Total

Matrix: Solid

Analysis Batch: 45230

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 45239

MB	MB						
Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
 <0.00200	U	0.00200	mg/Kg		02/02/23 09:32	02/02/23 11:44	1
<0.00200	U	0.00200	mg/Kg		02/02/23 09:32	02/02/23 11:44	1
<0.00200	U	0.00200	mg/Kg		02/02/23 09:32	02/02/23 11:44	1
<0.00400	U	0.00400	mg/Kg		02/02/23 09:32	02/02/23 11:44	1
<0.00200	U	0.00200	mg/Kg		02/02/23 09:32	02/02/23 11:44	1

mg/Kg

MB MB

<0.00400 U

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	02/02/23 09:32	02/02/23 11:44	1
1.4-Difluorobenzene (Surr)	92		70 - 130	02/02/23 09:32	02/02/23 11:44	1

0.00400

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

02/02/23 11:44

02/02/23 09:32

Prep Batch: 45269

MR MR

Analyte	Result C	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	J	0.00200	mg/Kg		02/02/23 13:52	02/02/23 22:29	1
Toluene	<0.00200 L	J	0.00200	mg/Kg		02/02/23 13:52	02/02/23 22:29	1
Ethylbenzene	<0.00200 L	J	0.00200	mg/Kg		02/02/23 13:52	02/02/23 22:29	1
m-Xylene & p-Xylene	<0.00400 L	J	0.00400	mg/Kg		02/02/23 13:52	02/02/23 22:29	1
o-Xylene	<0.00200 L	J	0.00200	mg/Kg		02/02/23 13:52	02/02/23 22:29	1
Xylenes, Total	<0.00400 L	J	0.00400	mg/Kg		02/02/23 13:52	02/02/23 22:29	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	02/02/23 13:52	02/02/23 22:29	1
1,4-Difluorobenzene (Surr)	88		70 - 130	02/02/23 13:52	02/02/23 22:29	1

Lab Sample ID: LCS 880-45269/1-A

Matrix: Solid

Analysis Batch: 45230

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 45269

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09657		mg/Kg		97	70 - 130	
Toluene	0.100	0.09290		mg/Kg		93	70 - 130	
Ethylbenzene	0.100	0.08916		mg/Kg		89	70 - 130	
m-Xylene & p-Xylene	0.200	0.1874		mg/Kg		94	70 - 130	
o-Xylene	0.100	0.09608		mg/Kg		96	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	101	70 - 130
1.4-Difluorobenzene (Surr)	92	70 - 130

Lab Sample ID: LCSD 880-45269/2-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 45230

Prep Type: Total/NA Prep Batch: 45269

Spike LCSD LCSD RPD %Rec Result Qualifier Analyte Added Unit %Rec Limits RPD Limit Benzene 0.100 0.09768 mg/Kg 98 70 - 130

QC Sample Results

Client: Ensolum Job ID: 890-3937-1 Project/Site: White Falcon 16 State 001H SDG: 03D2024146

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

Lab Sample ID: LCSD 880-45269/2-A

Matrix: Solid

Analysis Batch: 45230

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 45269

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Toluene 0.100 0.09199 92 70 - 130 35 mg/Kg Ethylbenzene 0.100 0.08490 mg/Kg 85 70 - 130 0.200 0.1762 70 - 130 m-Xylene & p-Xylene mg/Kg 88 6 35 o-Xylene 0.100 0.08972 mg/Kg 90 70 - 130

LCSD LCSD

Surrogate	%Recovery Q	ualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 890-3925-A-1-D MS

Matrix: Solid

Analysis Batch: 45230

Client	Sample	ID: I	Matrix	Spike
	_	_		

Prep Type: Total/NA

Prep Batch: 45269

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.100	0.1089		mg/Kg		109	70 - 130	
Toluene	<0.00201	U	0.100	0.09892		mg/Kg		99	70 - 130	
Ethylbenzene	<0.00201	U	0.100	0.09440		mg/Kg		94	70 - 130	
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1956		mg/Kg		98	70 - 130	
o-Xylene	<0.00201	U	0.100	0.09982		mg/Kg		100	70 - 130	

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	102	70 - 130
1,4-Difluorobenzene (Surr)	103	70 - 130

Lab Sample ID: 890-3925-A-1-E MSD

Matrix: Solid

Analysis Batch: 45230

Client	Sample	ID: M	atrix S	nike	Duplicate

Prep Type: Total/NA

Prep Batch: 45269

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U	0.0990	0.1011		mg/Kg		102	70 - 130	7	35
Toluene	<0.00201	U	0.0990	0.09416		mg/Kg		95	70 - 130	5	35
Ethylbenzene	<0.00201	U	0.0990	0.09146		mg/Kg		92	70 - 130	3	35
m-Xylene & p-Xylene	<0.00402	U	0.198	0.1915		mg/Kg		97	70 - 130	2	35
o-Xylene	<0.00201	U	0.0990	0.09783		mg/Kg		99	70 - 130	2	35

MSD MSD

Surrogate	%Recovery	Quaimer	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

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

Lab Sample ID: MB 880-45275/1-A

Matrix: Solid

Analysis Batch: 45439

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

Prep Batch: 45275

мв мв Result Qualifier RL Unit Prepared <49.9 U 49.9 mg/Kg 02/02/23 14:55 02/04/23 20:30 Gasoline Range Organics

(GRO)-C6-C10

Client: Ensolum Job ID: 890-3937-1 Project/Site: White Falcon 16 State 001H

SDG: 03D2024146

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

Lab Sample ID: MB 880-45275/1-A **Matrix: Solid**

Lab Sample ID: LCS 880-45275/2-A

Matrix: Solid

Analysis Batch: 45439

Analysis Batch: 45439

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 45275

ı		IVID	IVID						
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		02/02/23 14:55	02/04/23 20:30	1
	C10-C28) Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/02/23 14:55	02/04/23 20:30	1
	,				3 0				

MB MB

MR MR

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	02/02/23 14:55	02/04/23 20:30	1
o-Terphenyl	95		70 - 130	02/02/23 14:55	02/04/23 20:30	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 45275

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 999 746.0 75 70 - 130 mg/Kg (GRO)-C6-C10 999 837.9 Diesel Range Organics (Over mg/Kg 84 70 - 130C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	74		70 - 130
o-Terphenyl	78		70 - 130

Lab Sample ID: LCSD 880-45275/3-A

Matrix: Solid Analysis Batch: 45439 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Prep Batch: 45275

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier %Rec Limits RPD Limit Unit D Gasoline Range Organics 999 825.6 mg/Kg 83 70 - 130 20 (GRO)-C6-C10 Diesel Range Organics (Over 999 929.7 mg/Kg 93 70 - 130 10 20 C10-C28)

LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 82 70 - 130 o-Terphenyl 85 70 - 130

Lab Sample ID: 890-3930-A-1-F MS

Matrix: Solid

Analysis Batch: 45439

Client Sample ID: Matrix Spike

Prep Type: Total/NA Prep Batch: 45275

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1 F2	1000	1403	F1	mg/Kg		137	70 - 130	
Diesel Range Organics (Over	138		1000	1195		mg/Kg		106	70 - 130	

C10-C28)

	IVIS	IVIS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	11	S1-	70 - 130
o-Terphenyl	12	S1-	70 - 130

Job ID: 890-3937-1

Client: Ensolum Project/Site: White Falcon 16 State 001H SDG: 03D2024146

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

Client Sample ID: Matrix Spike Duplicate

Lab Sample ID: 890-3930-A-1-G MSD Prep Type: Total/NA Analysis Batch: 45439 Prep Batch: 45275

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<50.0	U F1 F2	998	902.8	F2	mg/Kg		87	70 - 130	43	20
(GRO)-C6-C10											
Diesel Range Organics (Over	138		998	1024		mg/Kg		89	70 - 130	15	20

C10-C28)

Matrix: Solid

MSD MSD %Recovery Qualifier Limits Surrogate 1-Chlorooctane 10 S1-70 - 130 o-Terphenyl 10 S1-70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-44792/1-A Client Sample ID: Method Blank

Matrix: Solid Prep Type: Soluble

Analysis Batch: 44926

мв мв Result Qualifier RL Unit Analyte Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 mg/Kg 01/27/23 19:00

Lab Sample ID: LCS 880-44792/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 44926

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	266.0		mg/Kg		106	90 - 110	

Lab Sample ID: LCSD 880-44792/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 44926

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	265.4		mg/Kg		106	90 - 110	0	20	

Lab Sample ID: 890-3924-A-20-B MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 44926

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	13.2		248	274.4		mg/Kg		105	90 - 110	

Lab Sample ID: 890-3924-A-20-C MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Analysis Batch: 44926

Sample Sample Spike MSD MSD %Rec RPD Result Qualifier Added Result Qualifier Analyte %Rec Limits RPD Limit Unit D 248 275.0 106 Chloride 13.2 90 - 110 mg/Kg

Eurofins Carlsbad

Prep Type: Soluble

QC Association Summary

Client: Ensolum
Project/Site: White Falcon 16 State 001H

Job ID: 890-3937-1 SDG: 03D2024146

GC VOA

Analysis Batch: 45230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3937-1	SS05	Total/NA	Solid	8021B	45269
MB 880-45239/5-A	Method Blank	Total/NA	Solid	8021B	45239
MB 880-45269/5-A	Method Blank	Total/NA	Solid	8021B	45269
LCS 880-45269/1-A	Lab Control Sample	Total/NA	Solid	8021B	45269
LCSD 880-45269/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	45269
890-3925-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	45269
890-3925-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	45269

Prep Batch: 45239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-45239/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 45269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3937-1	SS05	Total/NA	Solid	5035	
MB 880-45269/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-45269/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-45269/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3925-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
890-3925-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 45319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3937-1	SS05	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 45275

Lab Sample ID 890-3937-1	Client Sample ID SS05	Prep Type Total/NA	Matrix Solid	Method 8015NM Prep	Prep Batch
MB 880-45275/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-45275/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-45275/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3930-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3930-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 45439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3937-1	SS05	Total/NA	Solid	8015B NM	45275
MB 880-45275/1-A	Method Blank	Total/NA	Solid	8015B NM	45275
LCS 880-45275/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	45275
LCSD 880-45275/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	45275
890-3930-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	45275
890-3930-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	45275

Analysis Batch: 45520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3937-1	SS05	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum
Project/Site: White Falcon 16 State 001H
SDG: 03D2024146

HPLC/IC

Leach Batch: 44792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3937-1	SS05	Soluble	Solid	DI Leach	
MB 880-44792/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-44792/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-44792/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3924-A-20-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-3924-A-20-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 44926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3937-1	SS05	Soluble	Solid	300.0	44792
MB 880-44792/1-A	Method Blank	Soluble	Solid	300.0	44792
LCS 880-44792/2-A	Lab Control Sample	Soluble	Solid	300.0	44792
LCSD 880-44792/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	44792
890-3924-A-20-B MS	Matrix Spike	Soluble	Solid	300.0	44792
890-3924-A-20-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	44792

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Lab Chronicle

Client: Ensolum Job ID: 890-3937-1
Project/Site: White Falcon 16 State 001H SDG: 03D2024146

Client Sample ID: SS05 Lab Sample ID: 890-3937-1

Matrix: Solid

Date Collected: 01/20/23 15:00 Date Received: 01/23/23 16:24

	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	45269	02/02/23 13:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45230	02/03/23 05:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			45319	02/03/23 08:57	AJ	EET MID
Total/NA	Analysis	8015 NM		1			45520	02/05/23 09:57	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	45275	02/02/23 14:55	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45439	02/04/23 22:30	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	44792	01/26/23 08:32	CH	EET MID
Soluble	Analysis	300.0		1			44926	01/27/23 21:46	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-3937-1 Project/Site: White Falcon 16 State 001H

SDG: 03D2024146

Laboratory: Eurofins Midland

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

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

Method Summary

Client: Ensolum Project/Site: White Falcon 16 State 001H

Job ID: 890-3937-1 SDG: 03D2

J2024146	

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum

Project/Site: White Falcon 16 State 001H

Job ID: 890-3937-1 SDG: 03D2024146

 Lab Sample ID
 Client Sample ID
 Matrix
 Collected
 Received
 Depth

 890-3937-1
 SS05
 Solid
 01/20/23 15:00
 01/23/23 16:24
 0.2'

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Chain of Custody

Eurofins Xenco. A minimum charge of the Relin of his head by: (Signature)	Notice: Signature of this d	Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed		0508	Sample Identification	Sample Custody Seals: Total Containers:	Cooler Custody Seals:	Samples Received Intact:	SAMPLE RECEIP	Project Location: Sampler's Name: PO #:	Project Number:	Project Name:		City, State ZIP:	Address:		Project Manager:	
mum charge of \$85.00 (Signature)	ocument and relinquist	10 200.8 / 6020: d Metal(s) to be an:		()		Yes No	Yes No		Temp Blank:	32 13 No.	15 MAN 20 20	San Period	303-517-8437	Midland, TX 79701	601 N Marienfeld St Suite 400	Ensolum, LLC	Josh Adams	
will be applied to each Received	hment of samples cons the cost of samples an			01/201/23	Matrix Date Sampled	N/A Temperature Reading: Corrected Temperature:	Correction Factor:	o Thermometer ID:	nk: Yes No	To ROO	0	HAN HANSO			St Suite 400			Xenco
Received by: (Signature)	stitutes a valid purch d shall not assume a	8RCRA 13PPM TCLP/SPLP		1500	Time De	Reading:		T	Wet ice:	Due Date: LAT starts the day received by the lab, if received by 4:30pm	☑ Routine □	Turn Around	Email: kjer	City	Add	Con	Bill I	8
of \$6 for each samp	ase order from client	Texas 11 6010 : 8RC		2 0.	Depth Grab/ # of Cont	10.E	Ü	No. 807	No nete	L	Rush Code		nings@ensolur	City, State ZIP:	Address:	Company Name:	Bill to: (if different)	Midland, TX (EL Paso, T) Hobbs, NM
Date/Time	t company to Eurofins	Al Sb As Ba Be I RA Sb As Ba Be		V V V			EPA:	300).0)				Email: kjennings@ensolum.com, jadams@ensolum.com	Midland, TX 79701	601 N Marienfeld St Suite 400	Ensolum, LLC	Kalei Jennings	(432) 704-5440, San <i>i</i> X (915) 585-3443, Lut (575) 392-7550, Carl
s Xenco, but not analyzed. These terms will Relinquished by: (Signature)	Xenco, its affiliates and subcontract	Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U				890-3937 Chain of C						ANALYSIS R	ensolum.com)1	St Suite 400			Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199
of Eurofins Xenco. A minimum charge of \$55.00 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. Received by: (Signature) Received by: (Signature) Received 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 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	K Se A				of Custody						IS REQUEST	Deliverables: EDD L	Reporting: Level II Level	State of Project:	Program: UST/PST PRP Brownfields RRC	Work	www.xenco.com
: (Signature) Date/Time	nditions e control	ug SiO ₂ Na Sr Tl Sn U V Zn Hg: 1631/245.1/7470/7471		SPASLINECORN	Sample Comments	NaOH+Ascorbic Acid: SAPC	Na ₂ V ₂ C ₃ : Na ₂ CC ₃	NaHSO4: NABIS	H ₃ PO ₄ : HP	HCL: HC HNO ₃ : HN H ₂ SO ₄ : H ₂ NaOH: Na		ervativ	ADaPT U Other:			P Brownfields RRC Superfund	Work Order Comments	www.xenco.com Page of

Revised Date: 08/25/2020 Rev. 2020 2

Login Sample Receipt Checklist

 Client: Ensolum
 Job Number: 890-3937-1

 SDG Number: 03D2024146

Login Number: 3937 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: 890-3937-1

 SDG Number: 03D2024146

List Source: Eurofins Midland List Creation: 01/25/23 12:13 PM

List Number: 2 Creator: Rodriguez, Leticia

Login Number: 3937

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	

N/A

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<6mm (1/4").

Containers requiring zero headspace have no headspace or bubble is

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Josh Adams Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701 Generated 2/5/2023 9:33:05 AM

JOB DESCRIPTION

White Falcon 16 State 001H SDG NUMBER 03D2024146

JOB NUMBER

890-3938-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

Authorization

Generated 2/5/2023 9:33:05 AM

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

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies 2/5/2023

Client: Ensolum Project/Site: White Falcon 16 State 001H Laboratory Job ID: 890-3938-1 SDG: 03D2024146

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Definitions/Glossary

Job ID: 890-3938-1 Client: Ensolum Project/Site: White Falcon 16 State 001H

SDG: 03D2024146

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Quaimer	Qualifier Description

F1 MS and/or MSD recovery exceeds control limits.

F2 MS/MSD RPD exceeds control limits

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

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

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

%R Percent Recovery CFL Contains Free Liquid

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

DFR Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

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

Decision Level Concentration (Radiochemistry) DLC

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

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

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

NC Not Calculated

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

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

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Job ID: 890-3938-1 Project/Site: White Falcon 16 State 001H SDG: 03D2024146

Job ID: 890-3938-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3938-1

Receipt

The sample was received on 1/23/2023 4:24 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: SS04 (890-3938-1).

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-45275 and analytical batch 880-45439 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: (890-3930-A-1-F MS) and (890-3930-A-1-G MSD). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

Job ID: 890-3938-1

Client: Ensolum Project/Site: White Falcon 16 State 001H SDG: 03D2024146

Client Sample ID: SS04 Lab Sample ID: 890-3938-1 Date Collected: 01/20/23 14:45

Matrix: Solid Date Received: 01/23/23 16:24

Sample Depth: 0.2'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200	mg/Kg		02/02/23 13:52	02/03/23 05:24	
Toluene	<0.00200	U	0.00200	mg/Kg		02/02/23 13:52	02/03/23 05:24	
Ethylbenzene	0.00463		0.00200	mg/Kg		02/02/23 13:52	02/03/23 05:24	
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		02/02/23 13:52	02/03/23 05:24	
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/02/23 13:52	02/03/23 05:24	
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		02/02/23 13:52	02/03/23 05:24	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	105		70 - 130			02/02/23 13:52	02/03/23 05:24	
1,4-Difluorobenzene (Surr)	103		70 - 130			02/02/23 13:52	02/03/23 05:24	
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	0.00463		0.00399	mg/Kg			02/03/23 08:57	
Method: SW846 8015 NM - Diese Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fa
Total TPH			49.9					
				mg/Kg			02/05/23 09:57	
				mg/kg			02/05/23 09:57	
Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fa
Analyte Gasoline Range Organics		Qualifier			<u>D</u>	Prepared 02/02/23 14:55		Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9	Qualifier U	RL 49.9	<mark>Unit</mark> mg/Kg	<u>D</u>	02/02/23 14:55	Analyzed 02/05/23 00:54	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U	RL	Unit	<u>D</u>	<u>·</u>	Analyzed	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U	RL 49.9	<mark>Unit</mark> mg/Kg	<u> </u>	02/02/23 14:55	Analyzed 02/05/23 00:54	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9 <49.9	Qualifier U U U	RL 49.9	<mark>Unit</mark> mg/Kg mg/Kg	<u> </u>	02/02/23 14:55	Analyzed 02/05/23 00:54 02/05/23 00:54	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)	Result <49.9 <49.9 <49.9	Qualifier U U U	RL 49.9 49.9 49.9	<mark>Unit</mark> mg/Kg mg/Kg	<u> </u>	02/02/23 14:55 02/02/23 14:55 02/02/23 14:55	Analyzed 02/05/23 00:54 02/05/23 00:54 02/05/23 00:54	
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 <49.9 <49.9 <49.9 %Recovery	Qualifier U U U	RL 49.9 49.9 49.9 <i>Limits</i>	<mark>Unit</mark> mg/Kg mg/Kg	<u>D</u>	02/02/23 14:55 02/02/23 14:55 02/02/23 14:55 Prepared	Analyzed 02/05/23 00:54 02/05/23 00:54 02/05/23 00:54 Analyzed	Dil Fa
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 <49.9 <49.9 <49.9 <49.9 <90.9 <90.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96.0 <96	Qualifier U U Qualifier	RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	<mark>Unit</mark> mg/Kg mg/Kg	<u> </u>	02/02/23 14:55 02/02/23 14:55 02/02/23 14:55 Prepared 02/02/23 14:55	Analyzed 02/05/23 00:54 02/05/23 00:54 02/05/23 00:54 Analyzed 02/05/23 00:54	Dil Fa
Oll Range Organics (Over C28-C36) Surrogate	Result	Qualifier U U Qualifier	RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	<mark>Unit</mark> mg/Kg mg/Kg	<u>D</u>	02/02/23 14:55 02/02/23 14:55 02/02/23 14:55 Prepared 02/02/23 14:55	Analyzed 02/05/23 00:54 02/05/23 00:54 02/05/23 00:54 Analyzed 02/05/23 00:54	Dil Fa

Surrogate Summary

Client: Ensolum Job ID: 890-3938-1
Project/Site: White Falcon 16 State 001H SDG: 03D2024146

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Re
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-3925-A-1-D MS	Matrix Spike	102	103	
890-3925-A-1-E MSD	Matrix Spike Duplicate	102	98	
890-3938-1	SS04	105	103	
LCS 880-45269/1-A	Lab Control Sample	101	92	
LCSD 880-45269/2-A	Lab Control Sample Dup	95	102	
MB 880-45239/5-A	Method Blank	89	92	
MB 880-45269/5-A	Method Blank	91	88	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Rec
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-3930-A-1-F MS	Matrix Spike	11 S1-	12 S1-	
890-3930-A-1-G MSD	Matrix Spike Duplicate	10 S1-	10 S1-	
890-3938-1	SS04	90	96	
LCS 880-45275/2-A	Lab Control Sample	74	78	
LCSD 880-45275/3-A	Lab Control Sample Dup	82	85	
MB 880-45275/1-A	Method Blank	87	95	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum

Job ID: 890-3938-1 SDG: 03D2024146

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-45239/5-A

Lab Sample ID: MB 880-45269/5-A

Project/Site: White Falcon 16 State 001H

Matrix: Solid

Analysis Batch: 45230

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 45239

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/02/23 09:32	02/02/23 11:44	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/02/23 09:32	02/02/23 11:44	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/02/23 09:32	02/02/23 11:44	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/02/23 09:32	02/02/23 11:44	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/02/23 09:32	02/02/23 11:44	1
Xylenes, Total	< 0.00400	U	0.00400	mg/Kg		02/02/23 09:32	02/02/23 11:44	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prep	ared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	02/02/2	3 09:32	02/02/23 11:44	1
1,4-Difluorobenzene (Surr)	92		70 - 130	02/02/2	3 09:32	02/02/23 11:44	1

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 45269

Analysis Batch: 45230 мв мв

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/02/23 13:52	02/02/23 22:29	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/02/23 13:52	02/02/23 22:29	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/02/23 13:52	02/02/23 22:29	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/02/23 13:52	02/02/23 22:29	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/02/23 13:52	02/02/23 22:29	1
Xylenes, Total	< 0.00400	U	0.00400	mg/Kg		02/02/23 13:52	02/02/23 22:29	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	02/02/23 13:52	02/02/23 22:29	1
1,4-Difluorobenzene (Surr)	88		70 - 130	02/02/23 13:52	02/02/23 22:29	1

Lab Sample ID: LCS 880-45269/1-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 45230

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 45269

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09657		mg/Kg		97	70 - 130	
Toluene	0.100	0.09290		mg/Kg		93	70 - 130	
Ethylbenzene	0.100	0.08916		mg/Kg		89	70 - 130	
m-Xylene & p-Xylene	0.200	0.1874		mg/Kg		94	70 - 130	
o-Xylene	0.100	0.09608		mg/Kg		96	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	101	70 - 130
1.4-Difluorobenzene (Surr)	92	70 - 130

Lab Sample ID: LCSD 880-45269/2-A

Matrix: Solid

Analysis Batch: 45230

(Client Sample ID: Lat	b Control Sample Dup	
		Drop Types Total/NA	

Prep Type: Total/NA

Prep Batch: 45269

	Бріке	LCSD LCSD				%Rec		RPD
Analyte	Added	Result Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09768	mg/Kg		98	70 - 130	1	35

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QC Sample Results

Client: Ensolum Job ID: 890-3938-1 Project/Site: White Falcon 16 State 001H SDG: 03D2024146

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

Lab Sample ID: LCSD 880-45269/2-A

Matrix: Solid

Analysis Batch: 45230

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 45269

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.09199		mg/Kg		92	70 - 130	1	35
Ethylbenzene	0.100	0.08490		mg/Kg		85	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.1762		mg/Kg		88	70 - 130	6	35
o-Xylene	0.100	0.08972		mg/Kg		90	70 - 130	7	35

LCSD LCSD

Surrogate	%Recovery Q	ualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 890-3925-A-1-D MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 45230

Prep Type: Total/NA

Prep Batch: 45269

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.100	0.1089		mg/Kg	_	109	70 - 130	
Toluene	<0.00201	U	0.100	0.09892		mg/Kg		99	70 - 130	
Ethylbenzene	<0.00201	U	0.100	0.09440		mg/Kg		94	70 - 130	
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1956		mg/Kg		98	70 - 130	
o-Xylene	<0.00201	U	0.100	0.09982		mg/Kg		100	70 - 130	

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	102	70 - 130
1,4-Difluorobenzene (Surr)	103	70 - 130

Lab Sample ID: 890-3925-A-1-E MSD

Matrix: Solid

Analysis Batch: 45230

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 45269

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U	0.0990	0.1011		mg/Kg		102	70 - 130	7	35
Toluene	<0.00201	U	0.0990	0.09416		mg/Kg		95	70 - 130	5	35
Ethylbenzene	<0.00201	U	0.0990	0.09146		mg/Kg		92	70 - 130	3	35
m-Xylene & p-Xylene	<0.00402	U	0.198	0.1915		mg/Kg		97	70 - 130	2	35
o-Xylene	<0.00201	U	0.0990	0.09783		mg/Kg		99	70 - 130	2	35

MSD MSD

Surrogate	%Recovery	Quaimer	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

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

Lab Sample ID: MB 880-45275/1-A

Matrix: Solid

Analysis Batch: 45439

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

Prep Batch: 45275

мв мв Result Qualifier Unit Prepared <49.9 U 49.9 mg/Kg 02/02/23 14:55 02/04/23 20:30 Gasoline Range Organics (GRO)-C6-C10

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2/5/2023

QC Sample Results

Client: Ensolum Job ID: 890-3938-1 Project/Site: White Falcon 16 State 001H SDG: 03D2024146

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

Lab Sample ID: MB 880-45275/1-A **Matrix: Solid**

Lab Sample ID: LCS 880-45275/2-A

Analysis Batch: 45439

Matrix: Solid

Analysis Batch: 45439

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 45275

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		02/02/23 14:55	02/04/23 20:30	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/02/23 14:55	02/04/23 20:30	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	02/02/23 14:55	02/04/23 20:30	1
o-Terphenyl	95		70 - 130	02/02/23 14:55	02/04/23 20:30	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 45275

	Spi	ke LCS	LCS			%Rec	
Analyte	Add	ed Result	Qualifier L	Jnit D	%Rec	Limits	
Gasoline Range Organics	99	746.0	n	mg/Kg	75	70 - 130	
(GRO)-C6-C10							
Diesel Range Organics (Over	91	99 837.9	n	mg/Kg	84	70 - 130	
C10-C28)							

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	74		70 - 130
o-Terphenyl	78		70 - 130

Lab Sample ID: LCSD 880-45275/3-A

Matrix: Solid

Analysis Batch: 45439

Control Sample Dup	Client Sample ID: Lab
Prep Type: Total/NA	
Down Databa 45075	

Prep Batch: 45275

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	999	825.6		mg/Kg		83	70 - 130	10	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	999	929.7		mg/Kg		93	70 - 130	10	20	
C10-C28)										

LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 82 70 - 130 o-Terphenyl 85 70 - 130

Lab Sample ID: 890-3930-A-1-F MS

Matrix: Solid

Analysis Batch: 45439

Client Sample ID: Matrix Spike

Prep Type: Total/NA Prep Batch: 45275

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits <50.0 U F1 F2 1000 1403 F1 70 - 130 Gasoline Range Organics 137 mg/Kg (GRO)-C6-C10 1000 1195 70 - 130 Diesel Range Organics (Over 138 mg/Kg 106

C10-C28)

	IVIS	IVIS			
Surrogate	%Recovery	Qualifier	Limits		
1-Chlorooctane	11	S1-	70 - 130		
o-Terphenyl	12	S1-	70 - 130		

Client: Ensolum Job ID: 890-3938-1 Project/Site: White Falcon 16 State 001H SDG: 03D2024146

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

Lab Sample ID: 890-3930-A-1-G MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Analysis Batch: 45439 Prep Type: Total/NA Prep Batch: 45275

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<50.0	U F1 F2	998	902.8	F2	mg/Kg		87	70 - 130	43	20
(GRO)-C6-C10											
Diesel Range Organics (Over	138		998	1024		mg/Kg		89	70 - 130	15	20
C10-C28)											

MSD MSD %Recovery Qualifier Surrogate Limits 1-Chlorooctane 10 S1-70 - 130 o-Terphenyl 10 S1-70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-44792/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 44926

мв мв

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			01/27/23 19:00	1

Lab Sample ID: LCS 880-44792/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 44926

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	266.0		mg/Kg		106	90 - 110	 -

Lab Sample ID: LCSD 880-44792/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 44926

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	265.4		mg/Kg		106	90 - 110	0	20	

Lab Sample ID: 890-3924-A-20-B MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 44926

	Sample	Sample	Spike	IVIS	IVIS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	13.2		248	274.4		mg/Kg		105	90 - 110	

Lab Sample ID: 890-3924-A-20-C MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Ratch: 44926

Alialysis Dalcii. 44320											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	13.2		248	275.0		mg/Kg		106	90 - 110	0	20

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Prep Type: Soluble

2/5/2023

Client: Ensolum

Project/Site: White Falcon 16 State 001H

SDG: 03D2024146

GC VOA

Analysis Batch: 45230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3938-1	SS04	Total/NA	Solid	8021B	45269
MB 880-45239/5-A	Method Blank	Total/NA	Solid	8021B	45239
MB 880-45269/5-A	Method Blank	Total/NA	Solid	8021B	45269
LCS 880-45269/1-A	Lab Control Sample	Total/NA	Solid	8021B	45269
LCSD 880-45269/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	45269
890-3925-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	45269
890-3925-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	45269

Prep Batch: 45239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-45239/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 45269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3938-1	SS04	Total/NA	Solid	5035	
MB 880-45269/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-45269/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-45269/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3925-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
890-3925-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 45320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3938-1	SS04	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 45275

Lab Sample ID 890-3938-1	Client Sample ID SS04	Prep Type Total/NA	Matrix Solid	Method 8015NM Prep	Prep Batch
MB 880-45275/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-45275/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-45275/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3930-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3930-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 45439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3938-1	SS04	Total/NA	Solid	8015B NM	45275
MB 880-45275/1-A	Method Blank	Total/NA	Solid	8015B NM	45275
LCS 880-45275/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	45275
LCSD 880-45275/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	45275
890-3930-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	45275
890-3930-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	45275

Analysis Batch: 45522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3938-1	SS04	Total/NA	Solid	8015 NM	

Client: Ensolum Job ID: 890-3938-1 Project/Site: White Falcon 16 State 001H

SDG: 03D2024146

HPLC/IC

Leach Batch: 44792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3938-1	SS04	Soluble	Solid	DI Leach	
MB 880-44792/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-44792/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-44792/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3924-A-20-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-3924-A-20-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 44926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3938-1	SS04	Soluble	Solid	300.0	44792
MB 880-44792/1-A	Method Blank	Soluble	Solid	300.0	44792
LCS 880-44792/2-A	Lab Control Sample	Soluble	Solid	300.0	44792
LCSD 880-44792/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	44792
890-3924-A-20-B MS	Matrix Spike	Soluble	Solid	300.0	44792
890-3924-A-20-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	44792

Lab Chronicle

Client: Ensolum Job ID: 890-3938-1 Project/Site: White Falcon 16 State 001H SDG: 03D2024146

Client Sample ID: SS04 Lab Sample ID: 890-3938-1 Date Collected: 01/20/23 14:45

Matrix: Solid

Date Received: 01/23/23 16:24

	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	45269	02/02/23 13:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45230	02/03/23 05:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			45320	02/03/23 08:57	AJ	EET MID
Total/NA	Analysis	8015 NM		1			45522	02/05/23 09:57	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	45275	02/02/23 14:55	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45439	02/05/23 00:54	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	44792	01/26/23 08:32	СН	EET MID
Soluble	Analysis	300.0		1			44926	01/27/23 21:52	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: White Falcon 16 State 001H
SDG: 03D2024146

Laboratory: Eurofins Midland

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

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

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Method Summary

Job ID: 890-3938-1 Client: Ensolum Project/Site: White Falcon 16 State 001H SDG: 03D2024146

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum

Project/Site: White Falcon 16 State 001H

Job ID: 890-3938-1

SDG: 03D2024146

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3938-1	SS04	Solid	01/20/23 14:45	01/23/23 16:24	0.2'

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bs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199
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Project Manager: Jo Company Name: En Address: 60 City, State ZIP: Mi Project Name: 30 Project Number: (Y	Josh Adams Ensolum, LLC 601 N Marienfeld St Suite 400 Midland, TX 79701 303-517-8437 JOHN Falon lo Jare) 08 DOUZHUG	Xenco C C nfield St Suite 40 79701 37	OT TO ROOM	Turn tine	Midland, 1X (4 EL Paso, TX Hobbs, NM (Hobbs, NM (Company Name: Address: City, State ZIP: kiennings@ensolum Around Pres. Pres.	Midland, TX (432) 704-5440, San Antono, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carisbad, NM (575) 988-3199 Mifferent) Kalei Jennings Ensolum, LLC 601 N Marienfeld St Suite 400 e ZIP: Midland, TX 79701 S@ensolum.com_iadams@ensolum.com ANALY: Pres. ANALY:	(915) 585-3443, Lubbock, TX (806 (915) 585-3443, Lubbock, TX (806 (915) 392-7550, Carlsbad, NM (575 Kalei Jennings Ensolum, LLC 601 N Marienfeld St Suite 400 Midland, TX 79701 .com, jadams@ensolum.co		94-1296 88-3199 Programmer Report Rep	am: UST/PST [of Project: ring: Level II [] prables: EDD [www.xenco.com Page	age of perturbation of state o
)3-517-8437			Email: kjennin	gs@ensolu	m.com, jad	ams@ens		IAI VOIC DE	Deliverables. EDD L		ervative Codes
	STATE TO THE	1 la take	THE STATE OF THE S	i A					VALYSIS RE	QUEST	None: NO	ervati
	2 18/0/4 41	R 2020									Cool: Cool	
Sampler's Name:	House	Talaska	1	TAT starts the day received by the lab, if received by 4:30pm	1			_			H ₂ S0 ₄ : H ₂	NaOH: Na
SAMPLE RECEIPT			Nes No Wet Ice:	Ice: Ves	No note	0.0)					H ₃ PO ₄ : HP	
Samples Received Intact:	Ve	No Therr	Thermometer ID:	TANK.	Para	: 300					Natso4: NASis	NASO,
Sample Custody Seals:	Yes No	N/A Temp	No (N/A) Correction Factor.	INC.	999	(EP		890-3938 Chain o		Custody	Zn Acetate	Zn Acetate+NaOH: Zn
Total Containers:		_	Corrected Temperature:	ature:	0.0			-	-	-	NaOH+As	NaOH+Ascorbic Acid: SAPC
Sample Identification		Matrix San	Date Time Sampled Sampled	Time Depth	Grab/ # of Comp Cont	CHLOR	BTEX (Sam	Sample Comments
SS 04		Salz	120/23 144	15.2'	0						MAPS:	3801755698
Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed) 200.8 / 6020: Metal(s) to be an	20: analyzed	8RCRA TCL	13PPM P/SPLP (Texas 11 Al 3010: 8RCRA		a Be B C 3a Be Cd	Sb As Ba Be B Cd Ca Cr Co Cu Fe Sb As Ba Be Cd Cr Co Cu Pb Mn	o Cu Fe Pb Pb Mn Mo	Mg Mn Mo Ni K Se Ni Se Ag TI U	Ag SiO ₂ Na Sr Tl Sn U V Zr Hg: 1631/245.1/7470/7471	Sn U V Zn 7470 /7471
Signature of this doc ice. Eurofins Xenco w fins Xenco. A minimu	ument and relinqui will be liable only fo um charge of \$85.0	shment of sam or the cost of sa 0 will be applied	ples constitutes imples and shall d to each project	a valid purchase not assume any rand a charge of \$	order from clie esponsibility fo 5 for each sam	nt company to I or any losses or ple submitted t	Eurofins Xenc expenses inc to Eurofins Xe	o, its affiliates an curred by the clie enco, but not ana	nd subcontracto int if such losse: lyzed. These ten	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.	conditions the control sly negotlated.	
Relinquished by: (Signature)	Signature)	R	Received by: (Signature)	(Signature)		Date/Time	ne	Relinquish	Relinquished by: (Signature)	ature) Received t	Received by: (Signature)	Date/Time
ALLO VIEW		Amado	to a	stut	15	-23-23	16242					
							6				Rev	Revised Date: 08/25/2020 Rev. 2020 2

Login Sample Receipt Checklist

 Client: Ensolum
 Job Number: 890-3938-1

 SDG Number: 03D2024146

Login Number: 3938 List Source: Eurofins Carlsbad

List Number: 1

Creator: Stutzman, Amanda

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

Login Sample Receipt Checklist

 Client: Ensolum
 Job Number: 890-3938-1

 SDG Number: 03D2024146

List Source: Eurofins Midland List Creation: 01/25/23 12:13 PM

Creator: Rodriguez, Leticia

Login Number: 3938

List Number: 2

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

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<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701

Generated 2/28/2023 2:40:16 PM

JOB DESCRIPTION

White Falcon 16 State 001H SDG NUMBER 03D2024164

JOB NUMBER

890-4160-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

Authorization

Generated 2/28/2023 2:40:16 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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Laboratory Job ID: 890-4160-1 Client: Ensolum Project/Site: White Falcon 16 State 001H

SDG: 03D2024164

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Definitions/Glossary

Job ID: 890-4160-1 Client: Ensolum Project/Site: White Falcon 16 State 001H

SDG: 03D2024164

Qualifiers

GC VOA

Qualifier **Qualifier Description**

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

GC Semi VOA

Qualifier **Qualifier Description**

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

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

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

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

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

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

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

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

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Project/Site: White Falcon 16 State 001H

Job ID: 890-4160-1

SDG: 03D2024164

Job ID: 890-4160-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4160-1

Receipt

The samples were received on 2/20/2023 3:42 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 2.4°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS06 (890-4160-1), SS07 (890-4160-2), SS08 (890-4160-3), FS01 (890-4160-4), FS02 (890-4160-5), SS06A (890-4160-6), SS07A (890-4160-7) and SS08A (890-4160-8).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-47216/5-A). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-47310 and analytical batch 880-47287 was outside the control limits.

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-47146 and analytical batch 880-47130 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.

Lab Sample ID: 890-4160-1

Client Sample Results

Client: Ensolum Job ID: 890-4160-1
Project/Site: White Falcon 16 State 001H SDG: 03D2024164

Client Sample ID: SS06

Date Collected: 02/20/23 13:00 Date Received: 02/20/23 15:42

Sample Depth: 0.2'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/24/23 16:54	02/28/23 04:10	1
Toluene	< 0.00199	U	0.00199	mg/Kg		02/24/23 16:54	02/28/23 04:10	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		02/24/23 16:54	02/28/23 04:10	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		02/24/23 16:54	02/28/23 04:10	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		02/24/23 16:54	02/28/23 04:10	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/24/23 16:54	02/28/23 04:10	,
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130			02/24/23 16:54	02/28/23 04:10	1
1,4-Difluorobenzene (Surr)	98		70 - 130			02/24/23 16:54	02/28/23 04:10	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cal	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/28/23 12:13	1
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			02/27/23 12:20	-
Method: SW846 8015B NM - Dies							02/21/23 12.20	1
moundar offort ou lob Mill - Dies	sel Range Orga	nics (DRO)	(GC)				02/27/23 12.20	1
		nics (DRO) Qualifier	(GC)	Unit	D	Prepared	Analyzed	
Analyte		Qualifier	• •	<mark>Unit</mark> mg/Kg	<u>D</u>	Prepared 02/24/23 09:54		Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U	RL		<u>D</u>	<u>·</u>	Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result < 50.0	Qualifier U	RL 50.0	mg/Kg	<u> </u>	02/24/23 09:54	Analyzed 02/24/23 17:38	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0	Qualifier U U U	RL 50.0	mg/Kg	<u>D</u>	02/24/23 09:54	Analyzed 02/24/23 17:38 02/24/23 17:38	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0 <50.0 <50.0	Qualifier U U U	RL 50.0 50.0 50.0	mg/Kg	<u>D</u>	02/24/23 09:54 02/24/23 09:54 02/24/23 09:54	Analyzed 02/24/23 17:38 02/24/23 17:38 02/24/23 17:38	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate	Result	Qualifier U U U	50.0 50.0 50.0 <i>Limits</i>	mg/Kg	<u>D</u>	02/24/23 09:54 02/24/23 09:54 02/24/23 09:54 Prepared	Analyzed 02/24/23 17:38 02/24/23 17:38 02/24/23 17:38 Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U U Qualifier	RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	mg/Kg	<u>D</u>	02/24/23 09:54 02/24/23 09:54 02/24/23 09:54 Prepared 02/24/23 09:54	Analyzed 02/24/23 17:38 02/24/23 17:38 02/24/23 17:38 Analyzed 02/24/23 17:38	Dil Fac
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 U Qualifier	RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	mg/Kg	<u>D</u>	02/24/23 09:54 02/24/23 09:54 02/24/23 09:54 Prepared 02/24/23 09:54	Analyzed 02/24/23 17:38 02/24/23 17:38 02/24/23 17:38 Analyzed 02/24/23 17:38	Dil Face

Client Sample ID: SS07

Date Collected: 02/20/23 13:05 Date Received: 02/20/23 15:42

Sample Depth: 0.2'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/24/23 16:54	02/28/23 04:36	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/24/23 16:54	02/28/23 04:36	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/24/23 16:54	02/28/23 04:36	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		02/24/23 16:54	02/28/23 04:36	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/24/23 16:54	02/28/23 04:36	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/24/23 16:54	02/28/23 04:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			02/24/23 16:54	02/28/23 04:36	-

Eurofins Carlsbad

Lab Sample ID: 890-4160-2

Matrix: Solid

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no odnobad

Lab Sample ID: 890-4160-2

Client: Ensolum

Job ID: 890-4160-1

Project/Site: White Falcon 16 State 001H SDG: 03D2024164

Client Sample ID: SS07

Date Collected: 02/20/23 13:05 Date Received: 02/20/23 15:42

Sample Depth: 0.2'

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

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	104	70 - 130	02/24/23 16:54	02/28/23 04:36	1

Method: TAL SOP	Total RTFX - Total	RTFX Calculation
Mictiliou. IAL OOI	TOTAL DIEX - TOTAL	DIEA Galcalation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/28/23 12:13	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			02/27/23 12:20	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		02/24/23 09:54	02/24/23 18:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/24/23 09:54	02/24/23 18:11	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/24/23 09:54	02/24/23 18:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	117	70 - 130	02/24/23 09:54	02/24/23 18:11	1
o-Terphenyl	111	70 - 130	02/24/23 09:54	02/24/23 18:11	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.8		4.98	mg/Kg			02/27/23 00:10	1

Client Sample ID: SS08 Lab Sample ID: 890-4160-3

Date Collected: 02/20/23 13:10 Date Received: 02/20/23 15:42

Sample Depth: 0.5'

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

Method: Swo46 6021B - Volat	ethod: 5W646 6021B - Volatile Organic Compounds (GC)							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/24/23 16:54	02/28/23 05:01	1
Toluene	< 0.00199	U	0.00199	mg/Kg		02/24/23 16:54	02/28/23 05:01	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		02/24/23 16:54	02/28/23 05:01	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		02/24/23 16:54	02/28/23 05:01	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		02/24/23 16:54	02/28/23 05:01	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/24/23 16:54	02/28/23 05:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			02/24/23 16:54	02/28/23 05:01	

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	DII Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	02/24/23 16:54	02/28/23 05:01	1
1,4-Difluorobenzene (Surr)	98		70 - 130	02/24/23 16:54	02/28/23 05:01	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			02/28/23 12:13	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			02/27/23 12:20	1

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9

3

4

6

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4.0

13

14

Matrix: Solid

Lab Sample ID: 890-4160-3

02/27/23 00:16

Job ID: 890-4160-1

Client: Ensolum Project/Site: White Falcon 16 State 001H SDG: 03D2024164

Client Sample ID: SS08 Date Collected: 02/20/23 13:10 Date Received: 02/20/23 15:42

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		02/24/23 09:54	02/24/23 18:33	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		02/24/23 09:54	02/24/23 18:33	1
C10-C28)								
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/24/23 09:54	02/24/23 18:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130			02/24/23 09:54	02/24/23 18:33	1
o-Terphenyl -	98		70 - 130			02/24/23 09:54	02/24/23 18:33	1
- Method: EPA 300.0 - Anions, Ion	Chromatogran	hy - Solubl	e					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: FS01 Lab Sample ID: 890-4160-4 Date Collected: 02/20/23 13:15 **Matrix: Solid**

26.3

5.00

mg/Kg

Date Received: 02/20/23 15:42

Sample Depth: 0.5'

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/24/23 16:54	02/28/23 05:27	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/24/23 16:54	02/28/23 05:27	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/24/23 16:54	02/28/23 05:27	1
m-Xylene & p-Xylene	< 0.00399	U	0.00399	mg/Kg		02/24/23 16:54	02/28/23 05:27	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/24/23 16:54	02/28/23 05:27	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		02/24/23 16:54	02/28/23 05:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130			02/24/23 16:54	02/28/23 05:27	1
1,4-Difluorobenzene (Surr)	116		70 - 130			02/24/23 16:54	02/28/23 05:27	1
Method: TAL SOP Total BTEX - T Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			02/28/23 12:13	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	156		49.8	mg/Kg			02/27/23 12:20	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		02/24/23 09:54	02/24/23 18:55	1
Diesel Range Organics (Over C10-C28)	156		49.8	mg/Kg		02/24/23 09:54	02/24/23 18:55	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		02/24/23 09:54	02/24/23 18:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130			02/24/23 09:54	02/24/23 18:55	1

Job ID: 890-4160-1

Lab Sample ID: 890-4160-4

Client: Ensolum Project/Site: White Falcon 16 State 001H SDG: 03D2024164

Client Sample ID: FS01

Date Collected: 02/20/23 13:15 Date Received: 02/20/23 15:42

Sample Depth: 0.5'

Method: EPA 300.0 - Anions, Ion C	Chromatography - Soluble						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.1	4.95	ma/Ka			02/27/23 00:21	1

Client Sample ID: FS02 Lab Sample ID: 890-4160-5 Matrix: Solid

Date Collected: 02/20/23 13:20 Date Received: 02/20/23 15:42

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		02/24/23 16:54	02/28/23 05:53	1
Toluene	<0.00201	U	0.00201	mg/Kg		02/24/23 16:54	02/28/23 05:53	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		02/24/23 16:54	02/28/23 05:53	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		02/24/23 16:54	02/28/23 05:53	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		02/24/23 16:54	02/28/23 05:53	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		02/24/23 16:54	02/28/23 05:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130			02/24/23 16:54	02/28/23 05:53	1
1,4-Difluorobenzene (Surr)	108		70 - 130			02/24/23 16:54	02/28/23 05:53	1

	Analyte	Result	Qualifier	KL	Unit	D	Prepared	Anaiyzed	DII Fac
	Total BTEX	<0.00402	U	0.00402	mg/Kg	_		02/28/23 12:13	1
ı	_								
	Method: SW846 8015 NM - Diesel R	Range Organ	ics (DRO) (0	GC)					

Analyte	_	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			02/27/23 12:20	1
Method: SW846 8015B NM - Diesel Ran	ge Orga	nics (DRO) (GC)						

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/24/23 09:54	02/24/23 19:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/24/23 09:54	02/24/23 19:17	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/24/23 09:54	02/24/23 19:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130			02/24/23 09:54	02/24/23 19:17	1
o-Terphenyl	108		70 - 130			02/24/23 09:54	02/24/23 19:17	1

Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Soluble	•					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	193		5.01	mg/Kg			02/27/23 00:27	1

Lab Sample ID: 890-4160-6

Job ID: 890-4160-1

Client: Ensolum Project/Site: White Falcon 16 State 001H SDG: 03D2024164

Client Sample ID: SS06A Date Collected: 02/20/23 14:10

Date Received: 02/20/23 15:42

Sample Depth: 1'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/24/23 16:54	02/28/23 06:20	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/24/23 16:54	02/28/23 06:20	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/24/23 16:54	02/28/23 06:20	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		02/24/23 16:54	02/28/23 06:20	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/24/23 16:54	02/28/23 06:20	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		02/24/23 16:54	02/28/23 06:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130			02/24/23 16:54	02/28/23 06:20	1
1,4-Difluorobenzene (Surr)	106		70 - 130			02/24/23 16:54	02/28/23 06:20	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			02/28/23 12:13	1
Method: SW846 8015 NM - Diese	•		•					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	
Method: SW846 8015 NM - Diese Analyte Total TPH	•	Qualifier	•	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 02/27/23 12:20	
Analyte Total TPH	Result <49.9	Qualifier U	49.9		<u>D</u>	Prepared		
Analyte Total TPH Method: SW846 8015B NM - Dies	Result <49.9 sel Range Orga	Qualifier U	49.9		<u>D</u>	Prepared Prepared		1
Analyte	Result <49.9 sel Range Orga	Qualifier Unics (DRO) Qualifier	RL 49.9	mg/Kg		<u> </u>	02/27/23 12:20	1 Dil Fac
Analyte 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	02/27/23 12:20 Analyzed	1 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 02/24/23 09:54	02/27/23 12:20 Analyzed 02/24/23 19:39	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	Qualifier U nics (DRO) Qualifier U U	RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/24/23 09:54 02/24/23 09:54	02/27/23 12:20 Analyzed 02/24/23 19:39 02/24/23 19:39	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	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/24/23 09:54 02/24/23 09:54 02/24/23 09:54	02/27/23 12:20 Analyzed 02/24/23 19:39 02/24/23 19:39	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <49.9	Qualifier U nics (DRO) Qualifier U U	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/24/23 09:54 02/24/23 09:54 02/24/23 09:54 Prepared	Analyzed 02/24/23 19:39 02/24/23 19:39 02/24/23 19:39 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	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 02/24/23 09:54 02/24/23 09:54 02/24/23 09:54 Prepared 02/24/23 09:54	02/27/23 12:20 Analyzed 02/24/23 19:39 02/24/23 19:39 Analyzed 02/24/23 19:39	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result <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 02/24/23 09:54 02/24/23 09:54 02/24/23 09:54 Prepared 02/24/23 09:54	02/27/23 12:20 Analyzed 02/24/23 19:39 02/24/23 19:39 Analyzed 02/24/23 19:39	·

Client Sample ID: SS07A Lab Sample ID: 890-4160-7 Date Collected: 02/20/23 14:15 Matrix: Solid

Date Received: 02/20/23 15:42

Sample Depth: 1'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/24/23 16:54	02/28/23 06:47	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/24/23 16:54	02/28/23 06:47	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/24/23 16:54	02/28/23 06:47	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		02/24/23 16:54	02/28/23 06:47	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/24/23 16:54	02/28/23 06:47	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/24/23 16:54	02/28/23 06:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130			02/24/23 16:54	02/28/23 06:47	

Lab Sample ID: 890-4160-7

Job ID: 890-4160-1

Client: Ensolum Project/Site: White Falcon 16 State 001H SDG: 03D2024164

Client Sample ID: SS07A

Date Collected: 02/20/23 14:15 Date Received: 02/20/23 15:42

Sample Depth: 1'

Method: SW846 8021B	- Volatile Organic	Compounds	(GC) (Continued)
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Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	99	70 - 130	02/24/23 16:54	02/28/23 06:47	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/28/23 12:13	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			02/27/23 12:20	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	<49.9	U	49.9	mg/Kg		02/24/23 09:54	02/24/23 20:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/24/23 09:54	02/24/23 20:02	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/24/23 09:54	02/24/23 20:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	113	70 - 130	02/24/23 09:54	02/24/23 20:02	1
o-Terphenyl	98	70 - 130	02/24/23 09:54	02/24/23 20:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	37.5		4.97	mg/Kg			02/27/23 00:50	1

Lab Sample ID: 890-4160-8 Client Sample ID: SS08A **Matrix: Solid**

Date Collected: 02/20/23 14:20 Date Received: 02/20/23 15:42

Sample Depth: 1'

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

Welliou. Syvo46 6021B - Volat	ne Organic Comp	ounus (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/24/23 16:54	02/28/23 07:14	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/24/23 16:54	02/28/23 07:14	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/24/23 16:54	02/28/23 07:14	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		02/24/23 16:54	02/28/23 07:14	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/24/23 16:54	02/28/23 07:14	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/24/23 16:54	02/28/23 07:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130			02/24/23 16:54	02/28/23 07:14	1

1,4-Difluorobenzene (Surr)	111	70 - 130	02/24/23 16:54	02/28/23 07:14
Method: TAL SOP Total BTEX - Total BTEX	K Calculation			

mothodi irtz oor rotal bilar	. Ottal B I Ext Gale	- D I EX Galodiation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/28/23 12:13	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			02/27/23 12:20	1

Lab Sample ID: 890-4160-8

02/27/23 00:55

Client Sample Results

Client: Ensolum Job ID: 890-4160-1
Project/Site: White Falcon 16 State 001H SDG: 03D2024164

Client Sample ID: SS08A

Date Collected: 02/20/23 14:20 Date Received: 02/20/23 15:42

Sample Depth: 1'

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8	mg/Kg		02/24/23 09:54	02/24/23 20:24	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.8	U	49.8	mg/Kg		02/24/23 09:54	02/24/23 20:24	1
C10-C28)								
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		02/24/23 09:54	02/24/23 20:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130			02/24/23 09:54	02/24/23 20:24	1
o-Terphenyl	85		70 - 130			02/24/23 09:54	02/24/23 20:24	1
o-Terphenyl Method: EPA 300.0 - Anions, Ion		shy - Salubl				02/24/23 09:54	02/24/23 20:24	

4.99

21.0

mg/Kg

9

10

Surrogate Summary

Client: Ensolum Job ID: 890-4160-1
Project/Site: White Falcon 16 State 001H SDG: 03D2024164

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

Lab Sample ID				Percent Surrogate Recovery (Acceptance Limits)
l ah Sample ID		BFB1	DFBZ1	
Lab Gampio ib	Client Sample ID	(70-130)	(70-130)	
890-4160-1	SS06	95	98	
390-4160-1 MS	SS06	110	119	
390-4160-1 MSD	SS06	110	97	
390-4160-2	SS07	113	104	
390-4160-3	SS08	113	98	
390-4160-4	FS01	115	116	
390-4160-5	FS02	118	108	
390-4160-6	SS06A	109	106	
390-4160-7	SS07A	103	99	
90-4160-8	SS08A	113	111	
.CS 880-47216/1-A	Lab Control Sample	116	116	
CSD 880-47216/2-A	Lab Control Sample Dup	111	103	
/IB 880-47216/5-A	Method Blank	65 S1-	92	
MB 880-47310/5-A	Method Blank	67 S1-	93	
Surrogate Legend				
BFB = 4-Bromofluoroben	zene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-4147-A-1-G MS	Matrix Spike	118	99	
890-4147-A-1-H MSD	Matrix Spike Duplicate	115	99	
890-4160-1	SS06	97	97	
890-4160-2	SS07	117	111	
890-4160-3	SS08	101	98	
890-4160-4	FS01	98	95	
890-4160-5	FS02	119	108	
890-4160-6	SS06A	93	87	
890-4160-7	SS07A	113	98	
890-4160-8	SS08A	89	85	
LCS 880-47146/2-A	Lab Control Sample	111	99	
LCSD 880-47146/3-A	Lab Control Sample Dup	114	104	
MB 880-47146/1-A	Method Blank	139 S1+	134 S1+	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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QC Sample Results

Client: Ensolum Job ID: 890-4160-1 Project/Site: White Falcon 16 State 001H SDG: 03D2024164

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-47216/5-A

Lab Sample ID: LCS 880-47216/1-A

Matrix: Solid Analysis Batch: 47287 Client Sample ID: Method Blank

'	Prep Type: Total/NA
	Prep Batch: 47216

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/24/23 16:54	02/28/23 03:44	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/24/23 16:54	02/28/23 03:44	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/24/23 16:54	02/28/23 03:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/24/23 16:54	02/28/23 03:44	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/24/23 16:54	02/28/23 03:44	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/24/23 16:54	02/28/23 03:44	1

MB MB

MD MD

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	65	S1-	70 - 130	02/24/23 16:54	02/28/23 03:44	1
1,4-Difluorobenzene (Surr)	92		70 - 130	02/24/23 16:54	02/28/23 03:44	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 47216

Analysis Batch: 47287 LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1165 mg/Kg 117 70 - 130 Toluene 0.100 0.1136 mg/Kg 114 70 - 130 0.100 0.1062 106 Ethylbenzene mg/Kg 70 - 130 0.200 0.2169 108 70 - 130 m-Xylene & p-Xylene mg/Kg

0.1199

mg/Kg

0.100

LCS LCS

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

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Matrix: Solid

o-Xylene

Analysis Batch: 47287

Lab Sample ID: LCSD 880-47216/2-A

Prep Type: Total/NA Prep Batch: 47216

70 - 130

120

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1091		mg/Kg		109	70 - 130	7	35
Toluene	0.100	0.1066		mg/Kg		107	70 - 130	6	35
Ethylbenzene	0.100	0.1070		mg/Kg		107	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2171		mg/Kg		109	70 - 130	0	35
o-Xylene	0.100	0.1159		mg/Kg		116	70 - 130	3	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 890-4160-1 MS

Matrix: Solid

Analysis Batch: 47287

Client Sample ID: SS06 Prep Type: Total/NA

Prep Batch: 47216

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.101	0.1158		mg/Kg		115	70 - 130	
Toluene	<0.00199	U	0.101	0.08584		mg/Kg		85	70 - 130	

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QC Sample Results

Client: Ensolum Job ID: 890-4160-1 SDG: 03D2024164 Project/Site: White Falcon 16 State 001H

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

Lab Sample ID: 890-4160-1 MS **Matrix: Solid**

Analysis Batch: 47287

Client Sample ID: SS06 Prep Type: Total/NA

Prep Batch: 47216

	Sample	Sample	Бріке	IVIS	IVIS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00199	U	0.101	0.08169		mg/Kg		81	70 - 130	
m-Xylene & p-Xylene	<0.00398	U	0.201	0.1723		mg/Kg		86	70 - 130	
o-Xylene	<0.00199	U	0.101	0.09895		mg/Kg		98	70 - 130	

MS MS

Surrogate	%Recovery (Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	119		70 - 130

Lab Sample ID: 890-4160-1 MSD

Matrix: Solid

Analysis Batch: 47287

Client Sample ID: SS06 Prep Type: Total/NA

Prep Batch: 47216

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U	0.0990	0.09305		mg/Kg		94	70 - 130	22	35
Toluene	<0.00199	U	0.0990	0.08183		mg/Kg		83	70 - 130	5	35
Ethylbenzene	<0.00199	U	0.0990	0.07808		mg/Kg		79	70 - 130	5	35
m-Xylene & p-Xylene	<0.00398	U	0.198	0.1650		mg/Kg		83	70 - 130	4	35
o-Xylene	< 0.00199	U	0.0990	0.09597		mg/Kg		97	70 - 130	3	35

MSD MSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	110	70 - 130
1,4-Difluorobenzene (Surr)	97	70 - 130

Lab Sample ID: MB 880-47310/5-A

Matrix: Solid

Analysis Batch: 47287

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

Prep Batch: 47310

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/27/23 12:05	02/27/23 14:21	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/27/23 12:05	02/27/23 14:21	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/27/23 12:05	02/27/23 14:21	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/27/23 12:05	02/27/23 14:21	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/27/23 12:05	02/27/23 14:21	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/27/23 12:05	02/27/23 14:21	1

MB MB %Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 70 - 130 02/27/23 12:05 67 S1-02/27/23 14:21 70 - 130 02/27/23 12:05 02/27/23 14:21 1,4-Difluorobenzene (Surr)

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

Lab Sample ID: MB 880-47146/1-A

Released to Imaging: 5/10/2023 11:54:01 AM

Matrix: Solid

Analysis Batch: 47130

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

Prep Batch: 47146

мв мв Result Qualifier Unit Prepared <50.0 U 50.0 mg/Kg 02/24/23 08:14 02/24/23 08:40 Gasoline Range Organics (GRO)-C6-C10

Project/Site: White Falcon 16 State 001H

o-Terphenyl

Client: Ensolum

Job ID: 890-4160-1 SDG: 03D2024164

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

Lab Sample ID: MB 880-47146/1-A

Matrix: Solid

Analysis Batch: 47130

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 47146

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/24/23 08:14	02/24/23 08:40	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/24/23 08:14	02/24/23 08:40	1
	МВ	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	139	S1+	70 - 130			02/24/23 08:14	02/24/23 08:40	1
o-Terphenyl	134	S1+	70 - 130			02/24/23 08:14	02/24/23 08:40	1

Lab Sample ID: LCS 880-47146/2-A Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Total/NA Analysis Batch: 47130 Prep Batch: 47146 LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 915.9 92 70 - 130 mg/Kg (GRO)-C6-C10 1000 925.7 Diesel Range Organics (Over mg/Kg 93 70 - 130 C10-C28) LCS LCS Qualifier Limits Surrogate %Recovery 1-Chlorooctane 70 - 130 111

Lab Sample ID: LCSD 880-47146/3-A

Matrix: Solid

Analysis Batch: 47130

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 47140

70 - 130

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	972.6		mg/Kg		97	70 - 130	6	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	957.1		mg/Kg		96	70 - 130	3	20
C10-C28)									

	LCSD LC	CSD	
Surrogate	%Recovery Q	ualifier	Limits
1-Chlorooctane	114		70 - 130
o-Terphenyl	104		70 - 130

99

99

Lab Sample ID: 890-4147-A-1-G MS

Matrix: Solid

Analysis Batch: 47130

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 47146

Allalysis Datcil. 41 130									Lieb	Datcii. 47 140
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	1106		mg/Kg		111	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.9	U	997	942.9		mg/Kg		92	70 - 130	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	118		70 _ 130							

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70 - 130

o-Terphenyl

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QC Sample Results

Client: Ensolum Job ID: 890-4160-1 Project/Site: White Falcon 16 State 001H SDG: 03D2024164

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

Lab Sample ID: 890-4147-A-1-H MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Prep Type: Total/NA Analysis Batch: 47130 Prep Batch: 47146

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<49.9	U	999	1077		mg/Kg		108	70 - 130	3	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<49.9	U	999	938.5		mg/Kg		92	70 - 130	0	20
C10-C28)											

MSD MSD %Recovery Qualifier Limits Surrogate 1-Chlorooctane 70 - 130 115 o-Terphenyl 99 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-47101/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 47257

мв мв

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 mg/Kg 02/26/23 23:36

Lab Sample ID: LCS 880-47101/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 47257

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	 250	253.6		mg/Kg		101	90 - 110	

Lab Sample ID: LCSD 880-47101/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 47257

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	257.0		mg/Kg	_	103	90 - 110	1	20	

Lab Sample ID: 890-4160-1 MS **Client Sample ID: SS06 Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 47257

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	37.0		251	266.7		ma/Ka		01	90 110	

Lab Sample ID: 890-4160-1 MSD **Client Sample ID: SS06 Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 47257

Allalysis Datcil. 41231												
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	37.9		251	269.9		mg/Kg		92	90 - 110	1	20	

Client: Ensolum

Project/Site: White Falcon 16 State 001H

SDG: 03D2024164

GC VOA

Prep Batch: 47216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4160-1	SS06	Total/NA	Solid	5035	
890-4160-2	SS07	Total/NA	Solid	5035	
890-4160-3	SS08	Total/NA	Solid	5035	
890-4160-4	FS01	Total/NA	Solid	5035	
890-4160-5	FS02	Total/NA	Solid	5035	
890-4160-6	SS06A	Total/NA	Solid	5035	
890-4160-7	SS07A	Total/NA	Solid	5035	
890-4160-8	SS08A	Total/NA	Solid	5035	
MB 880-47216/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-47216/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-47216/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4160-1 MS	SS06	Total/NA	Solid	5035	
890-4160-1 MSD	SS06	Total/NA	Solid	5035	

Analysis Batch: 47287

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4160-1	SS06	Total/NA	Solid	8021B	47216
890-4160-2	SS07	Total/NA	Solid	8021B	47216
890-4160-3	SS08	Total/NA	Solid	8021B	47216
890-4160-4	FS01	Total/NA	Solid	8021B	47216
890-4160-5	FS02	Total/NA	Solid	8021B	47216
890-4160-6	SS06A	Total/NA	Solid	8021B	47216
890-4160-7	SS07A	Total/NA	Solid	8021B	47216
890-4160-8	SS08A	Total/NA	Solid	8021B	47216
MB 880-47216/5-A	Method Blank	Total/NA	Solid	8021B	47216
MB 880-47310/5-A	Method Blank	Total/NA	Solid	8021B	47310
LCS 880-47216/1-A	Lab Control Sample	Total/NA	Solid	8021B	47216
LCSD 880-47216/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	47216
890-4160-1 MS	SS06	Total/NA	Solid	8021B	47216
890-4160-1 MSD	SS06	Total/NA	Solid	8021B	47216

Prep Batch: 47310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-47310/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 47457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4160-1	SS06	Total/NA	Solid	Total BTEX	
890-4160-2	SS07	Total/NA	Solid	Total BTEX	
890-4160-3	SS08	Total/NA	Solid	Total BTEX	
890-4160-4	FS01	Total/NA	Solid	Total BTEX	
890-4160-5	FS02	Total/NA	Solid	Total BTEX	
890-4160-6	SS06A	Total/NA	Solid	Total BTEX	
890-4160-7	SS07A	Total/NA	Solid	Total BTEX	
890-4160-8	SS08A	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 47130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4160-1	SS06	Total/NA	Solid	8015B NM	47146

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Client: Ensolum Job ID: 890-4160-1 Project/Site: White Falcon 16 State 001H SDG: 03D2024164

GC Semi VOA (Continued)

Analysis Batch: 47130 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4160-2	SS07	Total/NA	Solid	8015B NM	47146
890-4160-3	SS08	Total/NA	Solid	8015B NM	47146
890-4160-4	FS01	Total/NA	Solid	8015B NM	47146
890-4160-5	FS02	Total/NA	Solid	8015B NM	47146
890-4160-6	SS06A	Total/NA	Solid	8015B NM	47146
890-4160-7	SS07A	Total/NA	Solid	8015B NM	47146
890-4160-8	SS08A	Total/NA	Solid	8015B NM	47146
MB 880-47146/1-A	Method Blank	Total/NA	Solid	8015B NM	47146
LCS 880-47146/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	47146
LCSD 880-47146/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	47146
890-4147-A-1-G MS	Matrix Spike	Total/NA	Solid	8015B NM	47146
890-4147-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	47146

Prep Batch: 47146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4160-1	SS06	Total/NA	Solid	8015NM Prep	
890-4160-2	SS07	Total/NA	Solid	8015NM Prep	
890-4160-3	SS08	Total/NA	Solid	8015NM Prep	
890-4160-4	FS01	Total/NA	Solid	8015NM Prep	
890-4160-5	FS02	Total/NA	Solid	8015NM Prep	
890-4160-6	SS06A	Total/NA	Solid	8015NM Prep	
890-4160-7	SS07A	Total/NA	Solid	8015NM Prep	
890-4160-8	SS08A	Total/NA	Solid	8015NM Prep	
MB 880-47146/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-47146/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-47146/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4147-A-1-G MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4147-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 47318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4160-1	SS06	Total/NA	Solid	8015 NM	
890-4160-2	SS07	Total/NA	Solid	8015 NM	
890-4160-3	SS08	Total/NA	Solid	8015 NM	
890-4160-4	FS01	Total/NA	Solid	8015 NM	
890-4160-5	FS02	Total/NA	Solid	8015 NM	
890-4160-6	SS06A	Total/NA	Solid	8015 NM	
890-4160-7	SS07A	Total/NA	Solid	8015 NM	
890-4160-8	SS08A	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 47101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4160-1	SS06	Soluble	Solid	DI Leach	
890-4160-2	SS07	Soluble	Solid	DI Leach	
890-4160-3	SS08	Soluble	Solid	DI Leach	
890-4160-4	FS01	Soluble	Solid	DI Leach	
890-4160-5	FS02	Soluble	Solid	DI Leach	
890-4160-6	SS06A	Soluble	Solid	DI Leach	
890-4160-7	SS07A	Soluble	Solid	DI Leach	

Client: Ensolum
Project/Site: White Falcon 16 State 001H
SDG: 03D2024164

HPLC/IC (Continued)

Leach Batch: 47101 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4160-8	SS08A	Soluble	Solid	DI Leach	
MB 880-47101/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-47101/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-47101/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4160-1 MS	SS06	Soluble	Solid	DI Leach	
890-4160-1 MSD	SS06	Soluble	Solid	DI Leach	

Analysis Batch: 47257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4160-1	SS06	Soluble	Solid	300.0	47101
890-4160-2	SS07	Soluble	Solid	300.0	47101
890-4160-3	SS08	Soluble	Solid	300.0	47101
890-4160-4	FS01	Soluble	Solid	300.0	47101
890-4160-5	FS02	Soluble	Solid	300.0	47101
890-4160-6	SS06A	Soluble	Solid	300.0	47101
890-4160-7	SS07A	Soluble	Solid	300.0	47101
890-4160-8	SS08A	Soluble	Solid	300.0	47101
MB 880-47101/1-A	Method Blank	Soluble	Solid	300.0	47101
LCS 880-47101/2-A	Lab Control Sample	Soluble	Solid	300.0	47101
LCSD 880-47101/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	47101
890-4160-1 MS	SS06	Soluble	Solid	300.0	47101
890-4160-1 MSD	SS06	Soluble	Solid	300.0	47101

Eurofins Carlsbad

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Job ID: 890-4160-1

SDG: 03D2024164

Client Sample ID: SS06

Lab Sample ID: 890-4160-1

Date Collected: 02/20/23 13:00 Date Received: 02/20/23 15:42

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	47216	02/24/23 16:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47287	02/28/23 04:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47457	02/28/23 12:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			47318	02/27/23 12:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	47146	02/24/23 09:54	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47130	02/24/23 17:38	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	47101	02/23/23 15:20	KS	EET MID
Soluble	Analysis	300.0		1			47257	02/26/23 23:53	CH	EET MID

Lab Sample ID: 890-4160-2

Matrix: Solid

Date Collected: 02/20/23 13:05 Date Received: 02/20/23 15:42

Client Sample ID: SS07

	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	47216	02/24/23 16:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47287	02/28/23 04:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47457	02/28/23 12:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			47318	02/27/23 12:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47146	02/24/23 09:54	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47130	02/24/23 18:11	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	47101	02/23/23 15:20	KS	EET MID
Soluble	Analysis	300.0		1			47257	02/27/23 00:10	CH	EET MID

Lab Sample ID: 890-4160-3

Matrix: Solid

Date Collected: 02/20/23 13:10 Date Received: 02/20/23 15:42

Client Sample ID: SS08

Dil Final Batch Batch Initial Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA Prep 5035 5.02 g 5 mL 47216 02/24/23 16:54 MNR EET MID Total/NA Analysis 8021B 5 mL 5 mL 47287 02/28/23 05:01 MNR **EET MID** Total/NA Analysis Total BTEX 47457 02/28/23 12:13 SM EET MID 1 Total/NA Analysis 8015 NM 47318 02/27/23 12:20 SM **EET MID** Total/NA Prep 8015NM Prep 10.03 g 10 mL 47146 02/24/23 09:54 AM **EET MID** Total/NA Analysis 8015B NM 1 uL 1 uL 47130 02/24/23 18:33 SM EET MID Soluble Leach DI Leach 5 g 50 mL 47101 02/23/23 15:20 KS EET MID Soluble Analysis 300.0 47257 02/27/23 00:16 СН **EET MID**

Client Sample ID: FS01

Lab Sample ID: 890-4160-4

Date Collected: 02/20/23 13:15 Date Received: 02/20/23 15:42

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	47216	02/24/23 16:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47287	02/28/23 05:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47457	02/28/23 12:13	SM	EET MID

Project/Site: White Falcon 16 State 001H

Client Sample ID: FS01

Client: Ensolum

Date Collected: 02/20/23 13:15 Date Received: 02/20/23 15:42 Lab Sample ID: 890-4160-4

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			47318	02/27/23 12:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	47146	02/24/23 09:54	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47130	02/24/23 18:55	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	47101	02/23/23 15:20	KS	EET MID
Soluble	Analysis	300.0		1			47257	02/27/23 00:21	СН	EET MID

Client Sample ID: FS02 Lab Sample ID: 890-4160-5

Date Collected: 02/20/23 13:20 Date Received: 02/20/23 15:42

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			4.97 g	5 mL	47216	02/24/23 16:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47287	02/28/23 05:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47457	02/28/23 12:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			47318	02/27/23 12:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	47146	02/24/23 09:54	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47130	02/24/23 19:17	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	47101	02/23/23 15:20	KS	EET MID
Soluble	Analysis	300.0		1			47257	02/27/23 00:27	CH	EET MID

Client Sample ID: SS06A Lab Sample ID: 890-4160-6

Date Collected: 02/20/23 14:10 Date Received: 02/20/23 15:42 **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	47216	02/24/23 16:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47287	02/28/23 06:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47457	02/28/23 12:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			47318	02/27/23 12:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47146	02/24/23 09:54	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47130	02/24/23 19:39	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	47101	02/23/23 15:20	KS	EET MID
Soluble	Analysis	300.0		1			47257	02/27/23 00:44	CH	EET MID

Client Sample ID: SS07A Lab Sample ID: 890-4160-7

Date Collected: 02/20/23 14:15 Date Received: 02/20/23 15:42

	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	47216	02/24/23 16:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47287	02/28/23 06:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47457	02/28/23 12:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			47318	02/27/23 12:20	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.03 g 1 uL	10 mL 1 uL	47146 47130	02/24/23 09:54 02/24/23 20:02	AM SM	EET MID EET MID

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Matrix: Solid

Client: Ensolum Job ID: 890-4160-1
Project/Site: White Falcon 16 State 001H SDG: 03D2024164

Client Sample ID: SS07A Lab Sample ID: 890-4160-7

Date Collected: 02/20/23 14:15
Date Received: 02/20/23 15:42

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Method Prep Type Туре Run Factor Amount Amount Number or Analyzed Analyst Lab Soluble DI Leach 5.03 g 47101 KS Leach 50 mL 02/23/23 15:20 **EET MID** 300.0 02/27/23 00:50 Soluble Analysis 1 47257 СН **EET MID**

Client Sample ID: SS08A Lab Sample ID: 890-4160-8

Date Collected: 02/20/23 14:20 Matrix: Solid

Date Received: 02/20/23 15:42

	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	47216	02/24/23 16:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47287	02/28/23 07:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47457	02/28/23 12:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			47318	02/27/23 12:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	47146	02/24/23 09:54	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47130	02/24/23 20:24	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	47101	02/23/23 15:20	KS	EET MID
Soluble	Analysis	300.0		1			47257	02/27/23 00:55	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: 890-4160-1
Project/Site: White Falcon 16 State 001H SDG: 03D2024164

Laboratory: Eurofins Midland

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

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

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Method Summary

Client: Ensolum

Project/Site: White Falcon 16 State 001H

Job ID: 890-4160-1 SDG: 03D2024164

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum

Project/Site: White Falcon 16 State 001H

Job ID: 890-4160-1

SDG: 03D2024164

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4160-1	SS06	Solid	02/20/23 13:00	02/20/23 15:42	0.2'
890-4160-2	SS07	Solid	02/20/23 13:05	02/20/23 15:42	0.2'
890-4160-3	SS08	Solid	02/20/23 13:10	02/20/23 15:42	0.5'
890-4160-4	FS01	Solid	02/20/23 13:15	02/20/23 15:42	0.5'
890-4160-5	FS02	Solid	02/20/23 13:20	02/20/23 15:42	0.5'
890-4160-6	SS06A	Solid	02/20/23 14:10	02/20/23 15:42	1'
890-4160-7	SS07A	Solid	02/20/23 14:15	02/20/23 15:42	1'
890-4160-8	SS08A	Solid	02/20/23 14:20	02/20/23 15:42	1'

Chain of Custody

	Xenco	Xenco		Midland, TX (432) 704-3401, San Aritonio, TX (210) 309-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	bbock, TX (806) 794-1296 sbad, NM (575) 988-3199	www.xenco.com	o.com Page	of
Project Manager:	Hadlie Green		Bill to: (if different)	ent) Kalei Jennings		Work	r Con	
	Ensolum, LLC		Company Name:			Program: UST/PST PRP Brownfields	□RC	uperfund
	3122 Nat'l Parks Highway	ghway	Address:		Highway	State of Project: NM	1	
te ZIP:	Carlsbad, NM 88220	0	City, State ZIP:	Carlsbad, NM 88220	220	Reporting: Level III Level III PST/UST TRRP	PST/UST TRRP	Level IV
	432-557-8895		Email: hgreen@ensolum.com		kjennings@ensolum.com	Deliverables: EDD	ADaPT Other:	
Project Name:	No to to to	100 stano	Turn Around		ANALYSIS RE	REQUEST	Preservative Codes	ve Codes
Project Number:	10	Ø	Rou	Code			None: NO	DI Water: H ₂ O
	Stole	24/22 DI	Due Date:				Cool: Cool N	MeOH: Me
Sampler's Name:	ಪ		TAT starts the day received by	y				HNO ₃ : HN
PO#:			the lab, if received by 4:30pm	_				NaCH: Na
SAMPLE RECEIPT	Temp Blank	(Kes No	Wet los: Yes No	nete			H₃PO₄: HP	
Samples Received Intact:	tact: (Yes) No	Thermometer ID:	O. Theres	aran			NaHSO, NABIS	
Cooler Custody Seals:	Yes No	Correction Factor:	0-0	1′_			Na ₂ S ₂ U ₃ : NaSU ₃	7,
Sample Custody Seals:	Yes No	VIA Temperature Reading	eading: 2.10	ES	o90-4160 Chain of C	of Custody	NaOH+Ascorbic Acid: SAPC	SAPC
Sample Identification	tification Matrix	Date Sampled	Time Depth Grab/	CO # OF BTEX TPH CHLORI			Sample Comments	omments
3506	()		2'					
200	(2)		305 .7' 0					
202	()	\(\frac{1}{2}\)	510 51 0					
1027	S		0					
が202		→	320 S'C					
65010A	(J)		410 20 0					
5507A	S		42 7 0					
S508A	2	K	420 7 C					
Total 200.7 / 6010	10 200.8 / 6020:		8RCRA 13PPM Texas 11	s 11 Al Sb As Ba Be	B Cd Ca Cr Co Cu Fe	K Se	SiO ₂ Na Sr Ti Sn U	V Zn
Circle Method(s) an	Circle Method(s) and Metal(s) to be analyzed	alyzed	TCLP / SPLP 6010: 8RCRA	RCRA Sb As Ba Be	Cd Cr Co Cu Pb Mn Mo	Mo Ni Se Ag Ti U Hg:	Hg: 1631 / 245.1 / 7470 / 7471	71
Notice: Signature of this d of service. Eurofins Xence of Burofins Xence. A mini	document and relinquishm o will be liable only for the	ent of samples constituent of samples constituent of samples and set of samples and set of samples are described.	utes a valid purchase order fi hall not assume any respons	om client company to Eurofins ibility for any losses or expensa ach sample submitted to Eurofi	Xenco, its affiliates and subcontractors is incurred by the client if such losses is Xenco, but not analyzed. These term	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from cilent company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of gervice. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the cilent if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85,00 will be applied to each project and a charge of \$8 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	ons ntrol potiated.	
Relinquished by: (Signatur	(Signature)	Received b	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	ture) Received by: (Signature)	ature)	Date/Time
	A MONTH	andro	la Stit	-2-20-23 I	Sya			
5			4		55 4			
2							Revised D	Revised Date 08/25/2020 Rev. 2020 2

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4160-1 SDG Number: 03D2024164

Login Number: 4160 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	

N/A

<6mm (1/4").

Containers requiring zero headspace have no headspace or bubble is

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4160-1

SDG Number: 03D2024164

List Source: Eurofins Midland

Creator: Rodriguez, Leticia

Login Number: 4160

List Number: 2

List Creation: 02/22/23 12:07 PM

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	

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Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kalei Jennings Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701

Generated 4/3/2023 1:37:48 PM

JOB DESCRIPTION

White Falcon 16 State 001H SDG NUMBER 03D2024146

JOB NUMBER

880-26513-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

Eurofins Midland

Job Notes

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

Authorization

Generated 4/3/2023 1:37:48 PM

Authorized for release by Jessica Kramer, Project Manager Jessica.Kramer@et.eurofinsus.com (432)704-5440 9

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Client: Ensolum Project/Site: White Falcon 16 State 001H Laboratory Job ID: 880-26513-1

SDG: 03D2024146

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Definitions/Glossary

Job ID: 880-26513-1 Client: Ensolum Project/Site: White Falcon 16 State 001H

SDG: 03D2024146

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

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

HPLC/IC

Qualifier **Qualifier Description**

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

DFR Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

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

Decision Level Concentration (Radiochemistry) DLC

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

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

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

NC Not Calculated

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

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

PRES Presumptive

QC **Quality Control** RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Project/Site: White Falcon 16 State 001H

Job ID: 880-26513-1

SDG: 03D2024146

Job ID: 880-26513-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-26513-1

Receipt

The sample was received on 3/27/2023 4:49 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-26413-A-1-E). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-49995/5), (LCS 880-49932/2-A) and (LCSD 880-49932/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD NM: Surrogate recovery for the following sample was outside control limits: (880-26347-A-4-A). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: The method blank for preparation batch 880-49932 and analytical batch 880-49995 contained Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD NM: The laboratory control sample (LCS) associated with preparation batch 880-49932 and analytical batch 880-49995 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

HPLC/IC

Method 300 ORGFM 28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-49866 and analytical batch 880-49867 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Client Sample Results

Client: Ensolum

Project/Site: White Falcon 16 State 001H

SDG: 03D2024146

Client Sample ID: FS01A

Date Collected: 03/27/23 10:40 Date Received: 03/27/23 16:49 Lab Sample ID: 880-26513-1

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		03/29/23 15:00	03/30/23 13:33	1
Toluene	<0.00198	U	0.00198	mg/Kg		03/29/23 15:00	03/30/23 13:33	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		03/29/23 15:00	03/30/23 13:33	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		03/29/23 15:00	03/30/23 13:33	1
o-Xylene	0.00219		0.00198	mg/Kg		03/29/23 15:00	03/30/23 13:33	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		03/29/23 15:00	03/30/23 13:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130			03/29/23 15:00	03/30/23 13:33	1
1,4-Difluorobenzene (Surr)	96		70 - 130			03/29/23 15:00	03/30/23 13:33	1
Method: TAL SOP Total BTEX - T Analyte Total BTEX		Qualifier		Unit mg/Kg	<u>D</u>	Prepared	Analyzed 03/30/23 15:18	Dil Fac
Method: SW846 8015 NM - Diese Analyte	•	ics (DRO) (GC)	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			04/03/23 14:09	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
		nics (DRO) Qualifier	(GC)	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Gasoline Range Organics		Qualifier		Unit mg/Kg	<u>D</u>	Prepared 03/30/23 12:21	Analyzed 03/31/23 15:39	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9	Qualifier U *+	RL 49.9	mg/Kg	<u>D</u>	03/30/23 12:21	03/31/23 15:39	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U *+	RL		<u>D</u>			Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U *+ U *+	RL 49.9	mg/Kg	<u>D</u>	03/30/23 12:21	03/31/23 15:39	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9	Qualifier U *+ U *+	49.9 49.9	mg/Kg	<u> </u>	03/30/23 12:21	03/31/23 15:39	1 1
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <49.9 <49.9	Qualifier U *+ U *+	RL 49.9 49.9 49.9	mg/Kg	<u>D</u>	03/30/23 12:21 03/30/23 12:21 03/30/23 12:21	03/31/23 15:39 03/31/23 15:39 03/31/23 15:39	•

RL

5.02

Unit

mg/Kg

D

Prepared

Analyzed

03/29/23 16:16

Dil Fac

Eurofins Midland

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier

133 F1

Analyte

Chloride

Surrogate Summary

Client: Ensolum

Project/Site: White Falcon 16 State 001H

SDG: 03D2024146

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

•				Percent Surrogate Rec
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-26513-1	FS01A	97	96	
LCS 880-49806/1-A	Lab Control Sample	90	114	
LCSD 880-49806/2-A	Lab Control Sample Dup	92	114	
MB 880-49806/5-A	Method Blank	72	97	
Surrogate Legend				
BFB = 4-Bromofluorober	nzene (Surr)			
DFBZ = 1,4-Difluorobenz	zene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-26513-1	FS01A	100	121	
LCS 880-49932/2-A	Lab Control Sample	139 S1+	159 S1+	
LCSD 880-49932/3-A	Lab Control Sample Dup	167 S1+	187 S1+	
MB 880-49932/1-A	Method Blank	104	130	
Surrogate Legend				

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum Job ID: 880-26513-1 Project/Site: White Falcon 16 State 001H SDG: 03D2024146

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-49806/5-A

Matrix: Solid

Analysis Batch: 49916

Client Sample ID: Method Blank

Prep Type: Total/NA
Pren Batch: 49806

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/29/23 10:15	03/30/23 10:47	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/29/23 10:15	03/30/23 10:47	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/29/23 10:15	03/30/23 10:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/29/23 10:15	03/30/23 10:47	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/29/23 10:15	03/30/23 10:47	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/29/23 10:15	03/30/23 10:47	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72	70 - 130	03/29/23 10:15	03/30/23 10:47	1
1.4-Difluorobenzene (Surr)	97	70 - 130	03/29/23 10:15	03/30/23 10:47	1

Lab Sample ID: LCS 880-49806/1-A

Matrix: Solid

Analysis Batch: 49916

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 49806

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1279		mg/Kg		128	70 - 130	
Toluene	0.100	0.1063		mg/Kg		106	70 - 130	
Ethylbenzene	0.100	0.09803		mg/Kg		98	70 - 130	
m-Xylene & p-Xylene	0.200	0.2012		mg/Kg		101	70 - 130	
o-Xylene	0.100	0.1006		mg/Kg		101	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		70 - 130
1,4-Difluorobenzene (Surr)	114		70 - 130

Lab Sample ID: LCSD 880-49806/2-A

Matrix: Solid

Analysis Batch: 49916

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 49806

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1170		mg/Kg		117	70 - 130	9	35
Toluene	0.100	0.09934		mg/Kg		99	70 - 130	7	35
Ethylbenzene	0.100	0.09051		mg/Kg		91	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.1833		mg/Kg		92	70 - 130	9	35
o-Xylene	0.100	0.09201		mg/Kg		92	70 - 130	9	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
1.4-Difluorobenzene (Surr)	114		70 - 130

QC Sample Results

Client: Ensolum Job ID: 880-26513-1 Project/Site: White Falcon 16 State 001H SDG: 03D2024146

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

Lab Sample ID: MB 880-49932/1-A

Analysis Batch: 49995

Matrix: Solid

Lab Sample ID: LCS 880-49932/2-A

Matrix: Solid

Analysis Batch: 49995

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 49932

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		03/30/23 12:21	03/31/23 09:25	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		03/30/23 12:21	03/31/23 09:25	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/30/23 12:21	03/31/23 09:25	1

MB MB

MD MD

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	03/30/23 12:21	03/31/23 09:25	1
o-Terphenyl	130		70 - 130	03/30/23 12:21	03/31/23 09:25	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 49932

LCS LCS Spike Added Analyte Result Qualifier Unit D %Rec Limits Gasoline Range Organics 1000 1204 120 70 - 130 mg/Kg (GRO)-C6-C10 1000 1703 *+ Diesel Range Organics (Over mg/Kg 170 70 - 130C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	139	S1+	70 - 130
o-Terphenyl	159	S1+	70 - 130

Lab Sample ID: LCSD 880-49932/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 49995

Prep Type: Total/NA

Prep Batch: 49932

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	1476	*+	mg/Kg		148	70 - 130	20	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	2050	*+	mg/Kg		205	70 - 130	18	20
C10-C28)									

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	167	S1+	70 - 130
o-Terphenyl	187	S1+	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-49866/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 49867

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			03/29/23 16:01	1

QC Sample Results

Client: Ensolum

Job ID: 880-26513-1

Project/Site: White Falcon 16 State 001H

SDG: 03D2024146

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-49866/2-A

Client Sample ID: Lab Control Sample
Matrix: Solid

Prep Type: Soluble

Analysis Batch: 49867

 Analyte
 Added Chloride
 Result 250
 Qualifier Mg/Kg
 Unit Mg/Kg
 D MRec Limits Mg/Kg
 Limits Mg/Kg
 102
 90 - 110

Lab Sample ID: LCSD 880-49866/3-A

Client Sample ID: Lab Control Sample Dup
Matrix: Solid

Prep Type: Soluble

Analysis Batch: 49867

Spike LCSD LCSD %Rec RPD Added Result Qualifier RPD Limit Analyte Unit D %Rec Limits Chloride 250 255.6 mg/Kg 102 0

Lab Sample ID: 880-26513-1 MS

Matrix: Solid

Client Sample ID: FS01A

Prep Type: Soluble

Analysis Batch: 49867

MS MS %Rec Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 133 F1 251 415.8 F1 113 90 - 110 mg/Kg

Lab Sample ID: 880-26513-1 MSD

Matrix: Solid

Analysis Batch: 49867

MSD MSD Spike RPD Sample Sample %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec RPD Limit Limits 411.2 F1 Chloride 133 F1 251 111 90 - 110 20 mg/Kg

Eurofins Midland

Client Sample ID: FS01A

Prep Type: Soluble

QC Association Summary

Client: Ensolum

Project/Site: White Falcon 16 State 001H

Job ID: 880-26513-1

SDG: 03D2024146

GC VOA

Prep Batch: 49806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26513-1	FS01A	Total/NA	Solid	5035	
MB 880-49806/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-49806/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-49806/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 49916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26513-1	FS01A	Total/NA	Solid	8021B	49806
MB 880-49806/5-A	Method Blank	Total/NA	Solid	8021B	49806
LCS 880-49806/1-A	Lab Control Sample	Total/NA	Solid	8021B	49806
LCSD 880-49806/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	49806

Analysis Batch: 49977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26513-1	FS01A	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 49932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26513-1	FS01A	Total/NA	Solid	8015NM Prep	
MB 880-49932/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-49932/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-49932/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 49995

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26513-1	FS01A	Total/NA	Solid	8015B NM	49932
MB 880-49932/1-A	Method Blank	Total/NA	Solid	8015B NM	49932
LCS 880-49932/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	49932
LCSD 880-49932/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	49932

Analysis Batch: 50202

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26513-1	FS01A	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 49866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26513-1	FS01A	Soluble	Solid	DI Leach	
MB 880-49866/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-49866/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-49866/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-26513-1 MS	FS01A	Soluble	Solid	DI Leach	
880-26513-1 MSD	FS01A	Soluble	Solid	DI Leach	

Analysis Batch: 49867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26513-1	FS01A	Soluble	Solid	300.0	49866
MB 880-49866/1-A	Method Blank	Soluble	Solid	300.0	49866
LCS 880-49866/2-A	Lab Control Sample	Soluble	Solid	300.0	49866

QC Association Summary

Client: Ensolum Job ID: 880-26513-1 Project/Site: White Falcon 16 State 001H

SDG: 03D2024146

HPLC/IC (Continued)

Analysis Batch: 49867 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-49866/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	49866
880-26513-1 MS	FS01A	Soluble	Solid	300.0	49866
880-26513-1 MSD	FS01A	Soluble	Solid	300.0	49866

Lab Chronicle

Client: Ensolum

Project/Site: White Falcon 16 State 001H

SDG: 03D2024146

Client Sample ID: FS01A

Date Collected: 03/27/23 10:40 Date Received: 03/27/23 16:49 Lab Sample ID: 880-26513-1

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			49806	MNR	EET MID	03/29/23 15:00
Total/NA	Analysis	8021B		1	49916	MNR	EET MID	03/30/23 13:33
Total/NA	Analysis	Total BTEX		1	49977	SM	EET MID	03/30/23 15:18
Total/NA	Analysis	8015 NM		1	50202	SM	EET MID	04/03/23 14:09
Total/NA	Prep	8015NM Prep			49932	AJ	EET MID	03/30/23 12:21
Total/NA	Analysis	8015B NM		1	49995	SM	EET MID	03/31/23 15:39
Soluble	Leach	DI Leach			49866	KS	EET MID	03/29/23 15:17
Soluble	Analysis	300.0		1	49867	SMC	EET MID	03/29/23 16:16

Laboratory References:

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

Eurofins Midland

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Accreditation/Certification Summary

Client: Ensolum

Job ID: 880-26513-1

Project/Site: White Falcon 16 State 001H

SDG: 03D2024146

Laboratory: Eurofins Midland

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

Authority	Pr	ogram	Identification Number	Expiration Date
Texas		ELAP	T104704400-22-25	06-30-23
The following analytes	are included in this report, but	it the laboratory is not certific	ed by the governing authority. This list ma	av include analytes fo
the agency does not of	• •	ic and laboratory to flot corum	bu by the governing authority. This list his	ay include analytes to
,	• •	Matrix	Analyte	ay molude analytes to
the agency does not of	fer certification.	,	, , ,	

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Method Summary

Client: Ensolum

Project/Site: White Falcon 16 State 001H

Job ID: 880-26513-1

SDG: 03D2024146

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 Midland

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Sample Summary

Client: Ensolum

Project/Site: White Falcon 16 State 001H

Job ID: 880-26513-1

SDG: 03D2024146

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-26513-1	FS01A	Solid	03/27/23 10:40	03/27/23 16:49

City, State ZIP

3/22 National Parks Hay

02288 WIN,

Company Name: Bill to. (if different)

Jennings

Program: State of Project:

UST/PST PRP Brownfields

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Superfund []

Work Order Comments

www.xenco.com

Ensolve とてつ

Project Manager Company Name:

Hadlie

Xenco

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Chain of Custody

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

Work Order No: 36513

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(Signature) Date/Time	ture) Received by: (Signature)	Relinquished by (Signati	Date/Time	Signature)	Received by: (Signature)	Signature)	Relinquished by (Signature)
	ns and conditions yond the control is previously negotiated.	Nexuce: 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 \$35.00 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.	to Eurofins Xenco, its affi r expenses incurred by the ted to Eurofins Xenco, bu	purchase order from client company ne any responsibility for any losses o charge of \$5 for each sample submit	ples constitutes a valid p ples and shall not assur to each project and a	nent and relinquishment of sam be liable only for the cost of sam charge of \$85.00 will be applied	ervice: signature of this docum service. Eurofins Xenco will I Eurofins Xenco. A minimum
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D ₂ Na Sr Tl Sn U V Zn	Vi K Se Ag	B Cd Ca Cr Co Cu Fe	Al Sb As Ba Be	13PPM lexas	8RCKA	Firstle Method(s) and Metal(s) to be applicated in the control of	ircle Method(s) ar
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880-26513 Chain of Custody	880-26513 CI						The state of the s
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		×	- × ×	040 0.75' G	3/27/23	5	FSOIA
Sample Comments		Cı		Sampled Depth Comp	Sampled	cation Matrix	Sample Identification
NaOH+Ascorbic Acid SAPC			PH TE		- lemp		Total Containers:
Zn Acetate+NaOH Zn				ading	Temperature Reading	Yes No N/A	Total Contributions Seass:
Na ₂ S ₂ O ₃ NaSO ₃			Pá	0,0	Correction Factor	Z N	Cooler Custody Seals.
NaHSO 4 NABIS			irami	 - -	Thermometer ID:	<u> </u>	Samples Received Intact:
			eters	Wet Ice: Yes No	(York NO V	Temp Blank.	SAMPLE RECEIPT
H ₂ SO ₄ . H ₂ NaOH Na				the lab, if received by 4.30pm		1	PO#
HCL HC HNO, HN				he day		Romi Hayes	
				Due Date: 24 M/S		32, 1366, -103, 3802	Project Location
None NO DI Water: H.O			Pres. Code	Routine KRush	Charles and the second	03B 202 4146	Project Number:
Preservative Codes	UEST	ANALYSIS REQU		Turn Around	12 CO14	White Follow 16 State COIH	Project Name
ADaPT Other	Deliverables. EDD	Om	harcenowensolum.com	Email harcona	8845	432-557-8845	Phone
el III PST/UST TRRP Level IV	Reporting Level II Level III	THE PARTY OF THE P		City, State ZIP:	W 200%	(A/1) PAC / NEV 20000	City, State ZIF.

Login Sample Receipt Checklist

Client: Ensolum Job Number: 880-26513-1 SDG Number: 03D2024146

List Source: Eurofins Midland

Login Number: 26513 List Number: 1

Creator: Kramer, Jessica

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	N/A	

<6mm (1/4").



APPENDIX D

Final C-141

Received by OCD: 1/17/2023 9:57:38 AM

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

State of New Mexico Energy Minerals and Natural Resources Department

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

MA 10:42:11 8202/01/2 :gnigam1 ot bestelent 4

Incident ID	NAPP2301735698
District RP	
Facility ID	fAPP2203459585
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)	NAPP2301735698
Contact mailing address	600 West Illinois Avenue, Midlar	nd, Texas 79701	

Location of Release Source							
Latitude	32.136	6		Longitude	-103.3	802	
Latitude			(NAD 83 in decim	al degrees to 5 decim	al places)		
Site Name		White Falco	n 16 State 00	1H Site Type	Tank	Battery	
Date Release Discovered January 8, 2023 API# (if ap.				API# (if appl	icable) 30-02	25-42757	
Unit Letter	Section	Township	Range	Count	ty		
D	16	25S	35E	Lea	E C		
Surface Own			Tibal Private (Nanna Nature and Nature and Nature and Nature and Nature and Nature Cal	Volume of F		volumes provided below)	
Crude O	i1	Volume Release	d (bbls) 0.0	074	Volume Reco	vered (bbls))
Produced	l Water	Volume Release	d (bbls)		Volume Reco	vered (bbls)	
Is the concentration of dissolved chloride in the produced water >10,000 mg/l?					Yes No	0	
Condens	ate	Volume Release	d (bbls)		Volume Recov	vered (bbls)	
☐ Natural (Jas	Volume Release	d (Mcf)		Volume Reco	vered (Mcf)	
Other (describe) Volume/Weight Released (provide units)					Volume/Weig	ht Recovered (provid	de units)

The release was caused by regulator malfunction sending oil to the flare resulting in a flare fire.

No fluid was recovered due to the fire burning off any standing fluid. The release resulted in a flare fire

Cause of Release

on the pad.

Received by OCD: 1/17/2023 9:57:38 AM
Form C-141 State of New Mexico
Page 2 Oil Conservation Division

 WV 10:†S:II & ECOT/OI/S : SuiSnut of passoal axid

 Incident ID
 NAPP2301735698

 District RP
 Facility ID

 Facility ID
 fAPP2203459585

 Application ID

Was this a major release as defined by	If YES, for what reason(s) does the resp The release involved a fire.	onsible party consider this a major release?
19.15.29.7(A) NMAC?	The foldage involved a line.	
■ Yes □ No		
If YES, was immediate no	Lotice given to the OCD? By whom? To v	whom? When and by what means (phone, email, etc)?
Immediate notice was state.nm.us.	as given by Charles Beauvais v	ia e-mail January 9, 2023 at 1:13 pm to ocd.enviro@
	Initial F	Response
The responsible p	party must undertake the following actions immedia	tely unless they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.	
	s been secured to protect human health an	d the environment.
Released materials ha	ave been contained via the use of berms or	dikes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed a	nd managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain	n why:
Per 19.15.29.8 B. (4) NM	AC the responsible party may commence	remediation immediately after discovery of a release. If remediation
		l efforts have been successfully completed or if the release occurred please attach all information needed for closure evaluation.
		e best of my knowledge and understand that pursuant to OCD rules and
public health or the environr	nent. The acceptance of a C-141 report by the	tifications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have
		reat to groundwater, surface water, human health or the environment. In of responsibility for compliance with any other federal, state, or local laws
and/or regulations.	N. E	F . (17 1
Printed Name. Brittar	ıy N. Esparza	Title: Environmental Technician
Signature: _ Paux	ny N. Esparza	
email: Brittany.Espar	za@ConocoPhillips.com	Date: 1/17/2023 Telephone: (432) 221-0398
OCD Only		
Received by:Joc	elyn Harimon	Date: 01/17/2023
1.000170d by		

n 1 11 000 10					Spil	Calculation - Subsurface S	Spill - Rectangle		NAPP2301735	398	Remediation	n Recommendation
Received by OCD: 1/1 Convert Irregular shape into a series of rectangles	Length (ft.)		Average Depth (in.)	On/Off Pad (dropdown)	Soil Spilled-Fluid Saturation (%.)	Estimated volume of each area (bbl.)	Total Estimated Volume of Spill (bbl.)	Percentage of Oil if Spilled Fluid is a Mixture (%.)		Total Estimated Volume of Spilled Liquid other than Oil (bbl.)	Total Estimated Contaminated Soil, uncompacted, 25% (yd³.)	Current Rule of Thumb - RMR Handover Volume, (yd ³ .)
Rectangle A	30.0	15.0	0.0	On-Pad~	10.50%	0.07	0.01		0.00	0.01	0.02	
Rectangle B	6.0	4.0	0.0	On-Pad~	10.50%	0.00	0.00		0.00	0.00	0.00	1
Rectangle C				~		0.00					0.00	
Rectangle D				~		0.00					0.00	
Rectangle E				~		0.00					0.00	750
Rectangle F				~		0.00					0.00	750
Rectangle G				~		0.00					0.00	1
Rectangle H				~		0.00					0.00	1
Rectangle I	7	1 0		~		0.00					0.00	
Released the Imaging:	1/17/202	3 3:07:0	1 PM	~	N	0.00					0.00	
					Total S	ubsurface Volume Released:	0.0074		0.0000	0.0074	0.02	BU

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

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

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

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

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

CONDITIONS

Action 176604

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
	Action Number:
Midland, TX 79701	176604
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Create		Condition Date
jharir	None	1/17/2023

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Incident ID NAPP2301735698
District RP
Facility ID fAPP2203459585
Application ID

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<100 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ⊠ No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	rtical extents of soil
Characterization Report Checklist: Each of the following items must be included in the report.	
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well Field data	ls.
☐ 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: 4/6/2023 8:35:23 PM Form C-141 State of New Mexico Page 4 Oil Conservation Division

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Incident ID	NAPP2301735698
District RP	
Facility ID	fAPP2203459585
Application ID	

regulations all operators are required to report and/or file certain release public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a	the best of my knowledge and understand that pursuant to OCD rules and notifications and perform corrective actions for releases which may endanger the OCD does not relieve the operator of liability should their operations have threat to groundwater, surface water, human health or the environment. In r of responsibility for compliance with any other federal, state, or local laws
Printed Name:Jacob Laird	Title: _Environmental Engineer
Signature: <u>Jacob Laird</u>	Date:4/6/2023
email:Jacob.Laird@conocophillips.com	Telephone:575-703-5482
OCD Only	
Received by: Jocelyn Harimon	Date: 04/07/2023

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Incident ID	NAPP2301735698
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Closure

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

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

Photographs of the remediated site prior to backfill or photomust be notified 2 days prior to liner inspection)	os of the liner integrity if applicable (Note: appropriate OCD District office	
☐ Laboratory analyses of final sampling (Note: appropriate OI	OC 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 certamay endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rehuman health or the environment. In addition, OCD acceptance of	lations. The responsible party acknowledges they must substantially conditions that existed prior to the release or their final land use in	
Printed Name:Jacob Laird	Title: _Environmental Engineer	
Signature: <u>Jacob Laird</u>	Date:4/6/2023	
email:Jacob.Laird@conocophillips.com	Telephone:575-703-5482	
OCD Only		
Received by: Jocelyn Harimon	Date: 04/07/2023	
	y of liability should their operations have failed to adequately investigate and e water, human health, or the environment nor does not relieve the responsible d/or regulations.	
Closure Approved by:	Date:05/10/2023	
Printed Name: Jennifer Nobui	Title:Environmental Specialist A	



APPENDIX E

NMOCD Notifications

From: Enviro, OCD, EMNRD
To: Kalei Jennings

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

Subject: RE: [EXTERNAL] ConocoPhillips Company- Sampling Notification (Week of 02/13/2023)

Date: Wednesday, February 8, 2023 4:30:13 PM

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

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

[**EXTERNAL EMAIL**]

Kalei,

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: Kalei Jennings < kjennings@ensolum.com> **Sent:** Wednesday, February 8, 2023 2:54 PM

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

Cc: Hadlie Green <hgreen@ensolum.com>

Subject: [EXTERNAL] ConocoPhillips Company- Sampling Notification (Week of 02/13/2023)

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

All,

ConocoPhillips Company (COP) plans to complete final sampling activities at the following sites the week of February 13, 2023.

- Gold Coast 26 Fed 1H/ NAPP2234636400
- Wilder CTB/ NAPP2300343271
- White Falcon 16 State 001H/ NAPP2301735698

Thank you,



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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 205067

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	205067
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	5/10/2023