



August 29, 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
Aircobra 12 State 002H
Incident Number NAPP2317133599
Lea County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of COG Operating, LLC (COG), has prepared this *Closure Request* to document assessment, excavation, and soil sampling activities performed at the Aircobra 12 State 002H (Site). The purpose of the Site assessment, excavation, and soil sampling activities was to address impacts to soil following a crude oil release and flare fire at the Site. Based on field observations, excavation activities, and soil sample laboratory analytical results, COG is submitting this *Closure Request*, describing remediation that has occurred and requesting closure for Incident Number NAPP2317133599.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit B, Section 12, Township 19 South, Range 34 East, in Lea County, New Mexico (32.6803°, -103.5115°) and is associated with oil and gas exploration and production operations on State Land managed by the New Mexico State Land Office (NMSLO).

On June 11, 2023, an equipment malfunction caused approximately 0.1558 barrels (bbls) of crude oil to be sent to the flare. The 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 and submitted a Release Notification Form C-141 (Form C-141) on June 20, 2023. The release was assigned Incident Number NAPP2317133599.

Since the release remained on the active well pad, an assessment of cultural properties had already been completed prior to the construction of the well pad and as such, the Cultural Properties Protection Rule (CPP) has been followed. No additional cultural resource surveys were completed in connection with this release. The release area is not expected to be reclaimed until the oil and gas well is plugged and abandoned and the well pad is reclaimed. The Reclamation Plan for this release will default to the NMSLO-approved Reclamation Plan for the well pad per 19.2.100.67 of the New Mexico Administrative Code (NMAC).

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the NMAC. Results from the characterization

Aircobra 12 State 002H
Closure Request
COG Operating, LLC



desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential Site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be between 51 and 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) L-06731, located approximately 0.2 miles southeast of the Site. The groundwater well has a reported depth to groundwater of 80 feet bgs and a total depth of 120 feet bgs. All wells used for depth to groundwater determination are presented on Figure 1. The associated well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is located approximately 231 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): 100 mg/kg
- Chloride: 600 mg/kg

SITE ASSESSMENT ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On June 22, 2023, Ensolum personnel were at the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Assessment soil samples SS01 through SS04 were collected around the release area at a depth of 0.5 feet bgs to confirm the lateral extent of the release. Assessment soil samples SS05 through SS08 were collected within the release area at an approximate depth of 0.5 feet bgs to assess for the presence or absence of impacted soil resulting from the crude oil flare fire. The soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. Photographic documentation was completed during the Site visit and a photographic log is included as Appendix B.

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

Laboratory analytical results for assessment soil samples SS01 and SS02, collected around the estimated release extent, indicated TPH concentrations exceeded the Site Closure Criteria. Laboratory analytical results for assessment soil samples SS03 and SS04, collected around the release extent, indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria and successfully defined the lateral extent of the release to the south and east. Laboratory analytical results for assessment soil samples SS05 through SS08, collected within the release extent, indicated chloride

Aircobra 12 State 002H
Closure Request
COG Operating, LLC



and/or TPH concentrations exceeded the Site Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix C.

EXCAVATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On July 14, 2023, Ensolum personnel were on Site to oversee excavation activities based on visible staining in the release area and laboratory analytical results for assessment soil samples SS01, SS02, and SS05 through SS08. 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 depths ranging from 0.5 feet to 1-foot bgs. Photographic documentation of the excavation activities is included in Appendix B.

Following removal of impacted soil, 5-point composite soil samples were collected every 200 square feet from the floor of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS17 were collected from the floor of the excavation at depths ranging from 0.5 feet to 1-foot bgs. Due to the shallow depth of the excavation, the sidewalls were incorporated into the floor samples. Additionally, assessment soil samples SS01A and SS02A were collected at a depth of 0.5 feet bgs outside of the release extent to confirm the lateral extent of the release to the north and west. The assessment soil sample locations are presented on Figure 2. The excavation extent and excavation soil sample locations are presented on Figure 3. The soil samples were handled and analyzed following the same procedures as described above.

Laboratory analytical results for excavation soil samples FS03 through FS11, FS15, and FS16 indicated all COC concentrations were compliant with the Site Closure Criteria. Laboratory analytical results for excavation soil samples FS01, FS02, FS12 through FS14, and FS17 and assessment soil samples SS01A and SS02A indicated TPH concentrations exceeded the Site Closure Criteria and additional excavation was required.

On August 8, 2023, Ensolum personnel were onsite to oversee the removal of additional soil in the vicinity of assessment soil samples SS01A and SS02A and floor samples FS01, FS02, FS12 through FS14, and FS17. Subsequent assessment soil samples SS01B and SS02B were collected around the release extent at a depth of 0.5 feet to confirm the lateral extent of the release to the north and west. The assessment soil sample locations are presented on Figure 2. Subsequent soil samples FS01A, FS02A, FS12A through FS14A, FS17A, and FS18 were collected from the floor of the excavation at a depth of 1.5 feet bgs. The excavation extent and excavation soil sample locations are presented on Figure 3.

Laboratory analytical results for assessment samples SS01B and SS02B, collected around the release extent, indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria and successfully defined the lateral extent of the release to the north and west. Laboratory analytical results for excavation floor samples FS01A, FS02A, FS12A through FS14A, FS17A, and FS18 indicated all COC concentrations were compliant with the Site Closure Criteria. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included as Appendix C.

The excavation area measured approximately 3,277 square feet. A total of 180 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

Aircobra 12 State 002H
Closure Request
COG Operating, LLC



CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the June 11, 2023, crude oil flare fire. Laboratory analytical results for the excavation soil samples collected from the final excavation extent, indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria. Additionally, the release was laterally delineated to the most stringent Table I Closure Criteria. Based on soil sample analytical results, no further remediation is required.

COG believes the remedial actions completed are protective of human health, the environment, and groundwater. As such, COG respectfully requests closure for Incident Number NAPP2317133599. The NMOCD notifications are included in Appendix D and the Form C-141 is included in Appendix E.

If you have any questions or comments, please contact Ms. Hadlie Green at (432) 557-8895 or hgreen@ensolum.com.

Sincerely,
Ensolum, LLC

A handwritten signature in black ink that reads "Hadlie Green".

Hadlie Green
Project Geologist

A handwritten signature in black ink that reads "Aimee Cole".

Aimee Cole
Senior Managing Scientist

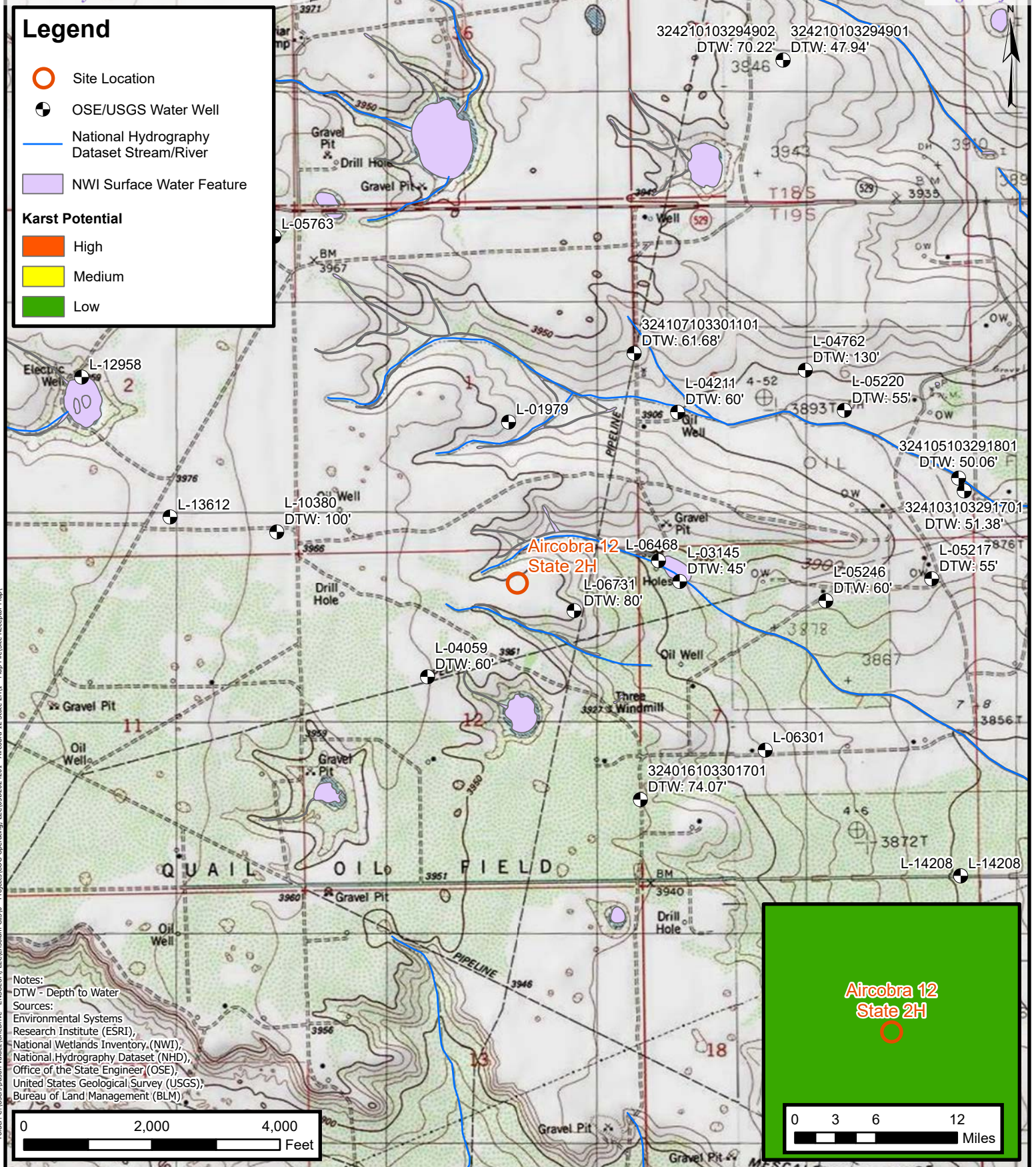
cc: Jacob Laird, COG Operating, LLC
New Mexico State Land Office

Appendices:

Figure 1	Site Receptor Map
Figure 2	Assessment Soil Sample Locations
Figure 3	Excavation Soil Sample Locations
Table 1	Soil Sample Analytical Results
Appendix A	Referenced Well Records
Appendix B	Photographic Log
Appendix C	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix D	NMOCD Notifications
Appendix E	Final C-141



FIGURES

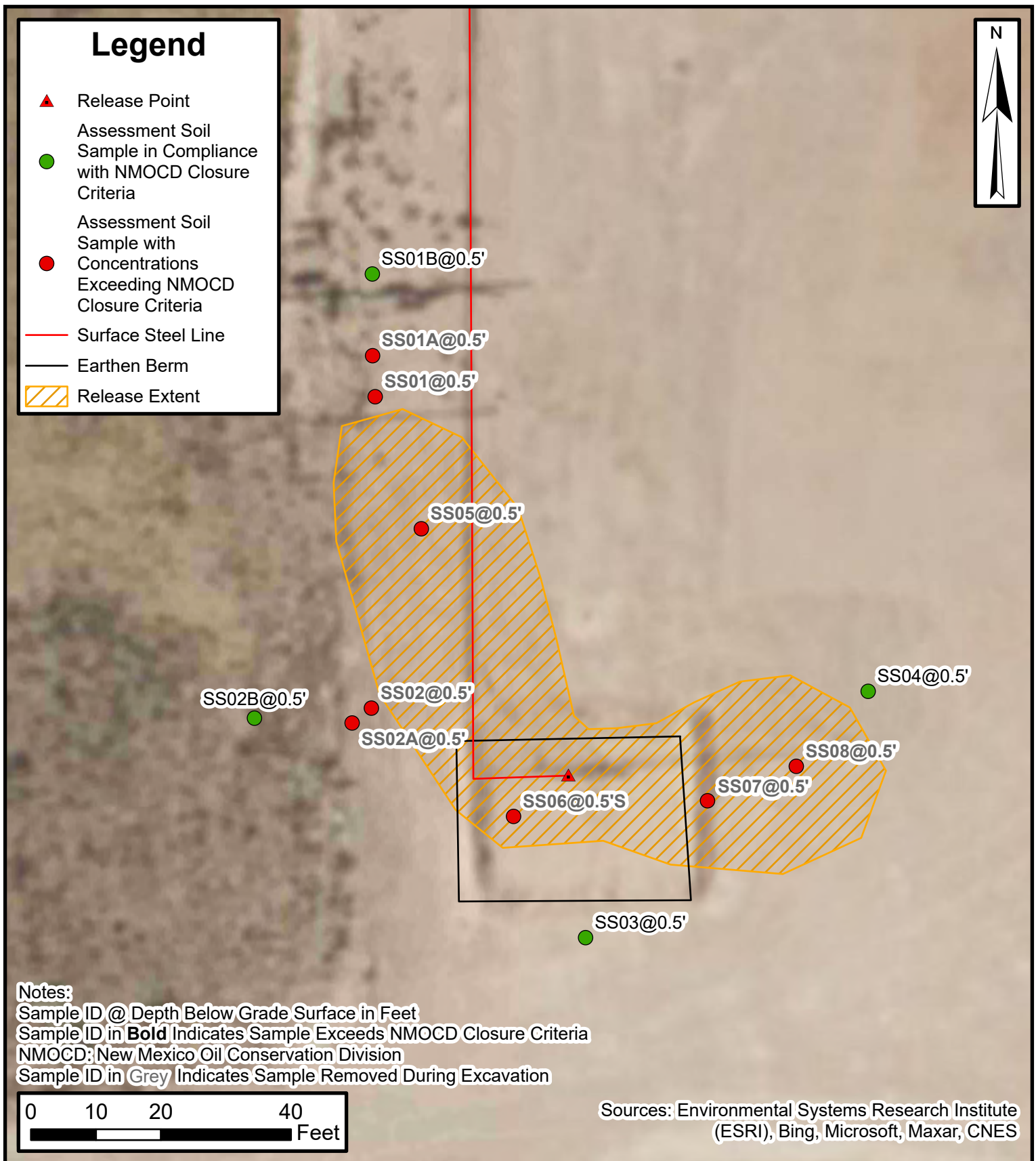


Site Receptor Map

COG Operating, LLC
Aircobra 12 State 002H
Incident Number: NAPP2317133599
Unit B, Sec 12, T19S, R34E
Lea County, New Mexico

FIGURE

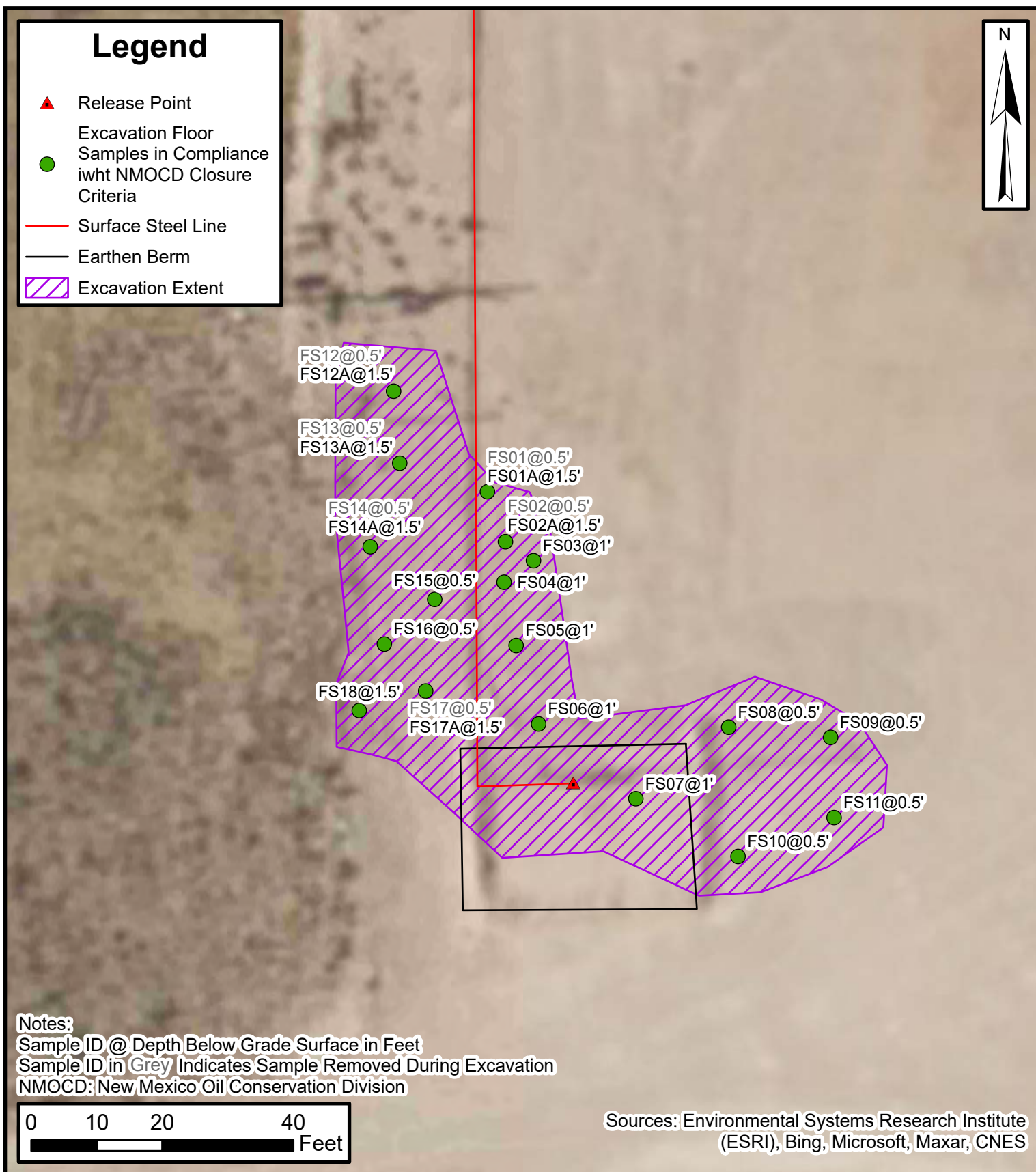
1



Assessment Soil Sample Locations

Aircobra 12 State 002H
 COG Operating, LLC
 Incident Number: NAPP2317133599
 Unit B, Sec 12, T19S, R34E
 Lea County, New Mexico

FIGURE
2



Excavation Soil Sample Locations

Aircobra 12 State 002H
 COG Operating, LLC
 Incident Number: NAPP2317133599
 Unit B, Sec 12, T19S, R34E
 Lea County, New Mexico

FIGURE
3





TABLES



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Aircobra 12 State 002H COG Operating, LLC Lea County, New Mexico										
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Assessment Soil Samples										
SS01	06/22/2023	0.5	<0.00200	0.00516	<50.0	811	<50.0	811	811	29.0
SS01A	07/13/2023	0.5	<0.00202	0.0194	<50.3	608	<50.3	608	608	67.9
SS01B	08/08/2023	0.5	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	49.8
SS02	06/22/2023	0.5	<0.00200	<0.00401	<50.0	2,110	<50.0	2,110	2,110	171
SS02A	07/13/2023	0.5	<0.00202	<0.00403	<50.2	<50.2	<50.2	<50.2	<50.2	814
SS02B	08/08/2023	0.5	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	32.8
SS03	06/22/2023	0.5	<0.00199	<0.00398	<49.8	84.6	<49.8	84.6	84.6	511
SS04	06/22/2023	0.5	<0.00198	0.0136	<49.9	<49.9	<49.9	<49.9	<49.9	31.8
SS05	06/22/2023	0.5	<0.00202	<0.00403	<250	6,220	<250	6,220	6,220	24.5
SS06	06/22/2023	0.5	<0.00202	<0.00404	<50.0	455	<50.0	455	455	83.5
SS07	06/22/2023	0.5	0.00268	0.0730	940	3,330	<49.9	4,270	4,270	343
SS08	06/22/2023	0.5	<0.00200	<0.00400	<50.0	3,180	<50.0	3,180	3,180	1,080
Excavation Soil Samples										
FS01	07/14/2023	0.5	<0.00201	<0.00402	<50.4	272	<50.4	272	272	257
FS01A	08/08/2023	1.5	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	28.9
FS02	07/14/2023	1	<0.00200	<0.00401	<49.8	252	<49.8	252	252	47.4
FS02A	08/08/2023	1.5	<0.00202	<0.00403	<49.6	<49.6	<49.6	<49.6	<49.6	47.0
FS03	07/14/2023	1	<0.00198	<0.00396	<49.7	<49.7	<49.7	<49.7	<49.7	30.2
FS04	07/14/2023	1	<0.00198	<0.00397	<50.2	<50.2	<50.2	<50.2	<50.2	40.3
FS05	07/14/2023	1	<0.00202	<0.00404	<50.4	<50.4	<50.4	<50.4	<50.4	41.7
FS06	07/14/2023	1	<0.00201	<0.00402	<50.5	<50.5	<50.5	<50.5	<50.5	46.0
FS07	07/14/2023	1	<0.00199	<0.00398	<50.5	<50.5	<50.5	<50.5	<50.5	62.2
FS08	07/14/2023	0.5	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	<49.8	152



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Aircobra 12 State 002H COG Operating, LLC Lea County, New Mexico										
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
FS09	07/14/2023	0.5	<0.00200	<0.00400	<49.6	50.1	<49.6	50.1	50.1	169
FS10	07/14/2023	0.5	<0.00199	<0.00398	<50.3	<50.3	<50.3	<50.3	<50.3	40.2
FS11	07/14/2023	0.5	<0.00201	<0.00402	<50.4	<50.4	<50.4	<50.4	<50.4	153
FS12	07/14/2023	0.5	<0.00202	<0.00404	<49.9	253	<49.9	253	253	46.0
FS12A	08/08/2023	1.5	<0.00201	<0.00402	<50.3	<50.3	<50.3	<50.3	<50.3	25.8
FS13	07/14/2023	0.5	<0.00198	<0.00397	<49.7	641	<49.7	641	641	41.2
FS13A	08/08/2023	1.5	<0.00200	<0.00401	<50.4	<50.4	<50.4	<50.4	<50.4	25.5
FS14	07/14/2023	0.5	<0.00198	<0.00396	<49.6	409	<49.6	409	409	47.3
FS14A	08/08/2023	1.5	<0.00199	<0.00398	<50.4	<50.4	<50.4	<50.4	<50.4	48.1
FS15	07/14/2023	0.5	<0.00200	<0.00400	<50.0	90.3	<50.0	90.3	90.3	128
FS16	07/14/2023	0.5	<0.00199	<0.00398	<50.1	87.0	<50.1	87.0	87.0	117
FS17	07/14/2023	0.5	<0.00198	<0.00397	<50.4	330.0	<50.4	330	330	69.6
FS17A	08/08/2023	1.5	<0.00198	<0.00396	<50.1	<50.1	<50.1	<50.1	<50.1	55.3
FS18	08/08/2023	1.5	<0.00199	<0.00398	<50.1	<50.1	<50.1	<50.1	<50.1	45.5

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation standard where applicable.**Grey** text represents samples that have been excavated



APPENDIX A

Referenced Well Records



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
 (quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
L 06731		3	2	2	12	19S	34E	639844	3616727*

Driller License: 46

Driller Company: ABBOTT BROTHERS COMPANY

Driller Name:

Drill Start Date: 11/14/1970

Drill Finish Date: 11/15/1970

Plug Date:

Log File Date: 11/16/1970

PCW Rcv Date:

Source: Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size: 7.00

Depth Well: 120 feet

Depth Water: 80 feet

Water Bearing Stratifications:

Top Bottom Description

80 120 Sandstone/Gravel/Conglomerate

Casing Perforations:

Top Bottom

80 120

*UTM location was derived from PLSS - see Help

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

6/21/23 9:26 AM

Page 1 of 1

POD SUMMARY - L 06731



USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:
Groundwater

Geographic Area:
United States

GO

Click to hideNews Bulletins

- Explore the *NEW* [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
- [Full News](#) 

Groundwater levels for the Nation

 Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 324107103301101

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 324107103301101 19S.35E.06.133314

Lea County, New Mexico
Latitude 32°41'25", Longitude 103°30'17" NAD27
Land-surface elevation 3,922.00 feet above NGVD29
The depth of the well is 130 feet below land surface.
This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer.
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1961-03-09			D 62610		3860.19	NGVD29	1	Z		
1961-03-09			D 62611		3861.82	NAVD88	1	Z		
1961-03-09			D 72019	61.81			1	Z		
1966-02-08			D 62610		3859.94	NGVD29	1	Z		
1966-02-08			D 62611		3861.57	NAVD88	1	Z		
1966-02-08			D 72019	62.06			1	Z		
1971-01-26			D 62610		3860.28	NGVD29	P	Z		
1971-01-26			D 62611		3861.91	NAVD88	P	Z		
1971-01-26			D 72019	61.72			P	Z		
1976-02-12			D 62610		3861.34	NGVD29	1	Z		
1976-02-12			D 62611		3862.97	NAVD88	1	Z		
1976-02-12			D 72019	60.66			1	Z		
1981-01-28			D 62610		3860.73	NGVD29	1	Z		
1981-01-28			D 62611		3862.36	NAVD88	1	Z		
1981-01-28			D 72019	61.27			1	Z		
1986-02-04			D 62610		3860.60	NGVD29	1	Z		

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1986-02-04			D	62611	3862.23	NAVD88	1		Z	
1986-02-04			D	72019	61.40		1		Z	
1991-04-16			D	62610	3860.46	NGVD29	1		Z	
1991-04-16			D	62611	3862.09	NAVD88	1		Z	
1991-04-16			D	72019	61.54		1		Z	
1996-02-01			D	62610	3860.32	NGVD29	1		S	
1996-02-01			D	62611	3861.95	NAVD88	1		S	
1996-02-01			D	72019	61.68		1		S	

Explanation		
Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Status	P	Pumping
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	A	Approved for publication -- Processing and review completed.

[Questions or Comments](#)
[Automated retrievals](#)
[Help](#)
[Data Tips](#)
[Explanation of terms](#)
[Subscribe for system changes](#)
[News](#)

[Accessibility](#) [FOIA](#) [Privacy](#) [Policies and Notices](#)
[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)
Title: Groundwater for USA: Water Levels
URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>



Page Contact Information: [USGS Water Data Support Team](#)
Page Last Modified: 2023-06-21 11:16:05 EDT
0.29 0.26 nadww01



APPENDIX B

Photographic Log

**Photographic Log**

COG Operating, LLC

Aircobra 12 State 002H

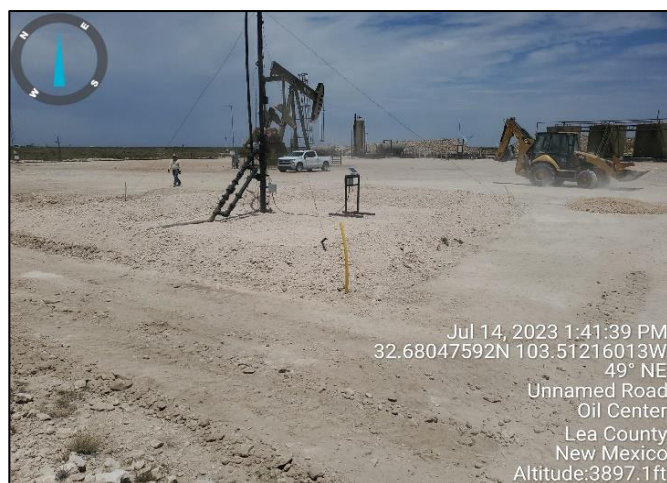
Incident Number NAPP2317133599



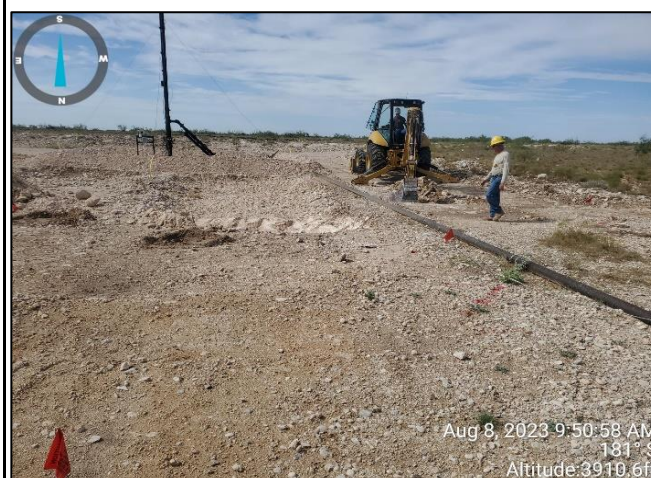
Photograph: 1 Date: 6/11/2023
Description: Initial release discovery
View: North



Photograph: 2 Date: 6/22/2023
Description: Soil staining in release footprint
View: Southeast



Photograph: 3 Date: 7/14/2023
Description: Excavation activities
View: Northeast



Photograph: 4 Date: 8/8/2023
Description: Excavation activities
View: South



APPENDIX C

Laboratory Analytical Reports & Chain of Custody Documentation



Environment Testing

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

ANALYTICAL REPORT

PREPARED FOR

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

Generated 6/30/2023 7:54:24 PM Revision 1

JOB DESCRIPTION

Aircobra 12 State 2H
SDG NUMBER 03D2024201

JOB NUMBER

890-4854-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220



Eurofins Carlsbad

Job Notes

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

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

Authorization



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

Generated
6/30/2023 7:54:24 PM
Revision 1

Client: Ensolum
Project/Site: Aircobra 12 State 2H

Laboratory Job ID: 890-4854-1
SDG: 03D2024201

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	13
QC Sample Results	14
QC Association Summary	21
Lab Chronicle	25
Certification Summary	28
Method Summary	29
Sample Summary	30
Chain of Custody	31
Receipt Checklists	32

1
2
3
4
5
6
7
8
9
10
11
12
13
14

Definitions/Glossary

Client: Ensolum
Project/Site: Aircobra 12 State 2H

Job ID: 890-4854-1
SDG: 03D2024201

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD 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.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Carlsbad

Case Narrative

Client: Ensolum
Project/Site: Aircobra 12 State 2H

Job ID: 890-4854-1
SDG: 03D2024201

Job ID: 890-4854-1

Laboratory: Eurofins Carlsbad

Narrative

**Job Narrative
890-4854-1**

REVISION

The report being provided is a revision of the original report sent on 6/29/2023. The report (revision 1) is being revised due to Per client email, requesting chloride re run on SS03.

Receipt

The samples were received on 6/22/2023 4:46 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C

GC VOA

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-56423 and analytical batch 880-56415 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.

GC Semi VOA

Method 8015MOD_NM: The method blank for preparation batch 880-56231 and analytical batch 880-56397 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SS07 (890-4854-7), (890-4854-A-7-B MS) and (890-4854-A-7-C MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-56292 and analytical batch 880-56450 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.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SS08 (890-4854-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-56658 and 880-56658 and analytical batch 880-56692 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.

Client Sample Results

Client: Ensolum
Project/Site: Aircobra 12 State 2H

Job ID: 890-4854-1
SDG: 03D2024201

Client Sample ID: SS01

Lab Sample ID: 890-4854-1

Date Collected: 06/22/23 13:15

Matrix: Solid

Date Received: 06/22/23 16:46

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *	0.00200	mg/Kg		06/27/23 15:45	06/28/23 04:56	1
Toluene	0.00516	+	0.00200	mg/Kg		06/27/23 15:45	06/28/23 04:56	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/27/23 15:45	06/28/23 04:56	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		06/27/23 15:45	06/28/23 04:56	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/27/23 15:45	06/28/23 04:56	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		06/27/23 15:45	06/28/23 04:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130	06/27/23 15:45	06/28/23 04:56	1
1,4-Difluorobenzene (Surr)	99		70 - 130	06/27/23 15:45	06/28/23 04:56	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00516		0.00399	mg/Kg			06/28/23 16:11	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	811		50.0	mg/Kg			06/28/23 09:27	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		06/23/23 16:22	06/27/23 20:51	1
Diesel Range Organics (Over C10-C28)	811		50.0	mg/Kg		06/23/23 16:22	06/27/23 20:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/23/23 16:22	06/27/23 20:51	1
Total TPH	811		50.0	mg/Kg		06/23/23 16:22	06/27/23 20:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130	06/23/23 16:22	06/27/23 20:51	1
o-Terphenyl	114		70 - 130	06/23/23 16:22	06/27/23 20:51	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29.0		4.96	mg/Kg			06/27/23 02:09	1

Client Sample ID: SS02

Lab Sample ID: 890-4854-2

Date Collected: 06/22/23 13:20

Matrix: Solid

Date Received: 06/22/23 16:46

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *	0.00200	mg/Kg		06/27/23 15:45	06/28/23 05:17	1
Toluene	<0.00200	U *	0.00200	mg/Kg		06/27/23 15:45	06/28/23 05:17	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/27/23 15:45	06/28/23 05:17	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		06/27/23 15:45	06/28/23 05:17	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/27/23 15:45	06/28/23 05:17	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		06/27/23 15:45	06/28/23 05:17	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Aircobra 12 State 2H

Job ID: 890-4854-1
SDG: 03D2024201

Client Sample ID: SS02

Lab Sample ID: 890-4854-2

Date Collected: 06/22/23 13:20

Matrix: Solid

Date Received: 06/22/23 16:46

Sample Depth: 0.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130	06/27/23 15:45	06/28/23 05:17	1
1,4-Difluorobenzene (Surr)	95		70 - 130	06/27/23 15:45	06/28/23 05:17	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			06/28/23 16:11	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2110		50.0	mg/Kg			06/28/23 09:27	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		06/23/23 16:22	06/27/23 22:45	1
Diesel Range Organics (Over C10-C28)	2110		50.0	mg/Kg		06/23/23 16:22	06/27/23 22:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/23/23 16:22	06/27/23 22:45	1
Total TPH	2110		50.0	mg/Kg		06/23/23 16:22	06/27/23 22:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	06/23/23 16:22	06/27/23 22:45	1
o-Terphenyl	97		70 - 130	06/23/23 16:22	06/27/23 22:45	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	171		4.98	mg/Kg			06/27/23 02:15	1

Client Sample ID: SS03

Lab Sample ID: 890-4854-3

Date Collected: 06/22/23 13:25

Matrix: Solid

Date Received: 06/22/23 16:46

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U **	0.00199	mg/Kg		06/27/23 15:45	06/28/23 05:37	1
Toluene	<0.00199	U **	0.00199	mg/Kg		06/27/23 15:45	06/28/23 05:37	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		06/27/23 15:45	06/28/23 05:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		06/27/23 15:45	06/28/23 05:37	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		06/27/23 15:45	06/28/23 05:37	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		06/27/23 15:45	06/28/23 05:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	06/27/23 15:45	06/28/23 05:37	1
1,4-Difluorobenzene (Surr)	92		70 - 130	06/27/23 15:45	06/28/23 05:37	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			06/28/23 16:11	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Aircobra 12 State 2H

Job ID: 890-4854-1
SDG: 03D2024201

Client Sample ID: SS03

Lab Sample ID: 890-4854-3

Date Collected: 06/22/23 13:25

Matrix: Solid

Date Received: 06/22/23 16:46

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	84.6		49.8	mg/Kg			06/28/23 09:27	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	<49.8	U	49.8	mg/Kg		06/23/23 16:22	06/27/23 21:14	1
Diesel Range Organics (Over C10-C28)	84.6		49.8	mg/Kg		06/23/23 16:22	06/27/23 21:14	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		06/23/23 16:22	06/27/23 21:14	1
Total TPH	84.6		49.8	mg/Kg		06/23/23 16:22	06/27/23 21:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130			06/23/23 16:22	06/27/23 21:14	1
o-Terphenyl	93		70 - 130			06/23/23 16:22	06/27/23 21:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	511	F1 F2	24.8	mg/Kg			06/30/23 11:44	5

Client Sample ID: SS04

Lab Sample ID: 890-4854-4

Date Collected: 06/22/23 13:30

Matrix: Solid

Date Received: 06/22/23 16:46

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U *+	0.00198	mg/Kg		06/27/23 15:45	06/28/23 08:29	1
Toluene	0.00570	*+	0.00198	mg/Kg		06/27/23 15:45	06/28/23 08:29	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		06/27/23 15:45	06/28/23 08:29	1
m-Xylene & p-Xylene	0.00545		0.00396	mg/Kg		06/27/23 15:45	06/28/23 08:29	1
o-Xylene	0.00247		0.00198	mg/Kg		06/27/23 15:45	06/28/23 08:29	1
Xylenes, Total	0.00792		0.00396	mg/Kg		06/27/23 15:45	06/28/23 08:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130			06/27/23 15:45	06/28/23 08:29	1
1,4-Difluorobenzene (Surr)	89		70 - 130			06/27/23 15:45	06/28/23 08:29	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0136		0.00396	mg/Kg			06/28/23 16:11	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			06/28/23 09:27	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		06/23/23 16:22	06/27/23 21:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		06/23/23 16:22	06/27/23 21:36	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/23/23 16:22	06/27/23 21:36	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Aircobra 12 State 2H

Job ID: 890-4854-1
SDG: 03D2024201

Client Sample ID: SS04

Lab Sample ID: 890-4854-4

Date Collected: 06/22/23 13:30

Matrix: Solid

Date Received: 06/22/23 16:46

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg		06/23/23 16:22	06/27/23 21:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130			06/23/23 16:22	06/27/23 21:36	1
o-Terphenyl	103		70 - 130			06/23/23 16:22	06/27/23 21:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	31.8		4.99	mg/Kg			06/27/23 02:27	1

Client Sample ID: SS05

Lab Sample ID: 890-4854-5

Date Collected: 06/22/23 13:40

Matrix: Solid

Date Received: 06/22/23 16:46

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U **	0.00202	mg/Kg		06/27/23 15:45	06/28/23 08:49	1
Toluene	<0.00202	U **	0.00202	mg/Kg		06/27/23 15:45	06/28/23 08:49	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		06/27/23 15:45	06/28/23 08:49	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		06/27/23 15:45	06/28/23 08:49	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		06/27/23 15:45	06/28/23 08:49	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		06/27/23 15:45	06/28/23 08:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130			06/27/23 15:45	06/28/23 08:49	1
1,4-Difluorobenzene (Surr)	102		70 - 130			06/27/23 15:45	06/28/23 08:49	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			06/28/23 16:11	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	6220		250	mg/Kg			06/28/23 09:27	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	<250	U	250	mg/Kg		06/23/23 16:22	06/27/23 23:07	5
Diesel Range Organics (Over C10-C28)	6220		250	mg/Kg		06/23/23 16:22	06/27/23 23:07	5
Oil Range Organics (Over C28-C36)	<250	U	250	mg/Kg		06/23/23 16:22	06/27/23 23:07	5
Total TPH	6220		250	mg/Kg		06/23/23 16:22	06/27/23 23:07	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130			06/23/23 16:22	06/27/23 23:07	5
o-Terphenyl	119		70 - 130			06/23/23 16:22	06/27/23 23:07	5

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Aircobra 12 State 2H

Job ID: 890-4854-1
SDG: 03D2024201

Client Sample ID: SS05

Lab Sample ID: 890-4854-5

Date Collected: 06/22/23 13:40

Matrix: Solid

Date Received: 06/22/23 16:46

Sample Depth: 0.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24.5		5.02	mg/Kg			06/27/23 02:44	1

Client Sample ID: SS06

Lab Sample ID: 890-4854-6

Date Collected: 06/22/23 13:50

Matrix: Solid

Date Received: 06/22/23 16:46

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U *	0.00202	mg/Kg		06/27/23 15:45	06/28/23 11:13	1
Toluene	<0.00202	U *	0.00202	mg/Kg		06/27/23 15:45	06/28/23 11:13	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		06/27/23 15:45	06/28/23 11:13	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		06/27/23 15:45	06/28/23 11:13	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		06/27/23 15:45	06/28/23 11:13	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		06/27/23 15:45	06/28/23 11:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130			06/27/23 15:45	06/28/23 11:13	1
1,4-Difluorobenzene (Surr)	94		70 - 130			06/27/23 15:45	06/28/23 11:13	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			06/28/23 16:11	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	455		50.0	mg/Kg			06/28/23 09:27	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		06/23/23 16:22	06/27/23 21:59	1
Diesel Range Organics (Over C10-C28)	455		50.0	mg/Kg		06/23/23 16:22	06/27/23 21:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/23/23 16:22	06/27/23 21:59	1
Total TPH	455		50.0	mg/Kg		06/23/23 16:22	06/27/23 21:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130			06/23/23 16:22	06/27/23 21:59	1
o-Terphenyl	113		70 - 130			06/23/23 16:22	06/27/23 21:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	83.5		4.95	mg/Kg			06/27/23 02:50	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Aircobra 12 State 2H

Job ID: 890-4854-1
SDG: 03D2024201

Client Sample ID: SS07

Lab Sample ID: 890-4854-7

Date Collected: 06/22/23 14:00

Matrix: Solid

Date Received: 06/22/23 16:46

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00268	++	0.00200	mg/Kg		06/27/23 15:45	06/28/23 09:10	1
Toluene	0.0182	++	0.00200	mg/Kg		06/27/23 15:45	06/28/23 09:10	1
Ethylbenzene	0.0118		0.00200	mg/Kg		06/27/23 15:45	06/28/23 09:10	1
m-Xylene & p-Xylene	0.0258		0.00401	mg/Kg		06/27/23 15:45	06/28/23 09:10	1
o-Xylene	0.0145		0.00200	mg/Kg		06/27/23 15:45	06/28/23 09:10	1
Xylenes, Total	0.0403		0.00401	mg/Kg		06/27/23 15:45	06/28/23 09:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	06/27/23 15:45	06/28/23 09:10	1
1,4-Difluorobenzene (Surr)	91		70 - 130	06/27/23 15:45	06/28/23 09:10	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0730		0.00401	mg/Kg			06/28/23 16:11	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	4270		49.9	mg/Kg			06/28/23 09:27	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	940		49.9	mg/Kg		06/23/23 16:22	06/27/23 22:21	1
Diesel Range Organics (Over C10-C28)	3330		49.9	mg/Kg		06/23/23 16:22	06/27/23 22:21	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/23/23 16:22	06/27/23 22:21	1
Total TPH	4270		49.9	mg/Kg		06/23/23 16:22	06/27/23 22:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130	06/23/23 16:22	06/27/23 22:21	1
o-Terphenyl	105		70 - 130	06/23/23 16:22	06/27/23 22:21	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	343		25.2	mg/Kg			06/27/23 03:08	5

Client Sample ID: SS08

Lab Sample ID: 890-4854-8

Date Collected: 06/22/23 14:10

Matrix: Solid

Date Received: 06/22/23 16:46

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U ++	0.00200	mg/Kg		06/27/23 15:45	06/28/23 09:30	1
Toluene	<0.00200	U ++	0.00200	mg/Kg		06/27/23 15:45	06/28/23 09:30	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/27/23 15:45	06/28/23 09:30	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/27/23 15:45	06/28/23 09:30	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/27/23 15:45	06/28/23 09:30	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/27/23 15:45	06/28/23 09:30	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Aircobra 12 State 2H

Job ID: 890-4854-1
SDG: 03D2024201

Client Sample ID: SS08

Lab Sample ID: 890-4854-8

Date Collected: 06/22/23 14:10

Matrix: Solid

Date Received: 06/22/23 16:46

Sample Depth: 0.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	06/27/23 15:45	06/28/23 09:30	1
1,4-Difluorobenzene (Surr)	93		70 - 130	06/27/23 15:45	06/28/23 09:30	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			06/28/23 16:11	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	3180		50.0	mg/Kg			06/29/23 09:09	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		06/26/23 09:23	06/28/23 17:34	1
Diesel Range Organics (Over C10-C28)	3180		50.0	mg/Kg		06/26/23 09:23	06/28/23 17:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/26/23 09:23	06/28/23 17:34	1
Total TPH	3180		50.0	mg/Kg		06/26/23 09:23	06/28/23 17:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	159	S1+	70 - 130	06/26/23 09:23	06/28/23 17:34	1
o-Terphenyl	133	S1+	70 - 130	06/26/23 09:23	06/28/23 17:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1080		24.9	mg/Kg			06/27/23 03:13	5

Eurofins Carlsbad

Surrogate Summary

Client: Ensolum
Project/Site: Aircobra 12 State 2H

Job ID: 890-4854-1
SDG: 03D2024201

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-4853-A-1-E MS	Matrix Spike	109	96
890-4853-A-1-F MSD	Matrix Spike Duplicate	118	94
890-4854-1	SS01	82	99
890-4854-2	SS02	85	95
890-4854-3	SS03	100	92
890-4854-4	SS04	90	89
890-4854-5	SS05	86	102
890-4854-6	SS06	109	94
890-4854-7	SS07	106	91
890-4854-8	SS08	104	93
LCS 880-56423/1-A	Lab Control Sample	112	101
LCSD 880-56423/2-A	Lab Control Sample Dup	119	101
MB 880-56414/5-A	Method Blank	100	106
MB 880-56423/5-A	Method Blank	101	104

Surrogate Legend

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)

Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-29962-A-1-F MS	Matrix Spike	99	91
880-29962-A-1-G MSD	Matrix Spike Duplicate	98	90
890-4854-1	SS01	115	114
890-4854-2	SS02	99	97
890-4854-3	SS03	90	93
890-4854-4	SS04	102	103
890-4854-5	SS05	115	119
890-4854-6	SS06	111	113
890-4854-7	SS07	125	105
890-4854-7 MS	SS07	199 S1+	141 S1+
890-4854-7 MSD	SS07	204 S1+	141 S1+
890-4854-8	SS08	159 S1+	133 S1+
LCS 880-56231/2-A	Lab Control Sample	96	101
LCS 880-56292/2-A	Lab Control Sample	111	99
LCSD 880-56231/3-A	Lab Control Sample Dup	92	90
LCSD 880-56292/3-A	Lab Control Sample Dup	104	92
MB 880-56231/1-A	Method Blank	115	121
MB 880-56292/1-A	Method Blank	124	111

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
Project/Site: Aircobra 12 State 2H

Job ID: 890-4854-1
SDG: 03D2024201

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-56414/5-A

Matrix: Solid

Analysis Batch: 56415

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 56414

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/27/23 11:44	06/27/23 15:14	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/27/23 11:44	06/27/23 15:14	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/27/23 11:44	06/27/23 15:14	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/27/23 11:44	06/27/23 15:14	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/27/23 11:44	06/27/23 15:14	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/27/23 11:44	06/27/23 15:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	06/27/23 11:44	06/27/23 15:14	1
1,4-Difluorobenzene (Surr)	106		70 - 130	06/27/23 11:44	06/27/23 15:14	1

Lab Sample ID: MB 880-56423/5-A

Matrix: Solid

Analysis Batch: 56415

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 56423

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/27/23 15:45	06/28/23 03:05	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/27/23 15:45	06/28/23 03:05	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/27/23 15:45	06/28/23 03:05	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/27/23 15:45	06/28/23 03:05	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/27/23 15:45	06/28/23 03:05	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/27/23 15:45	06/28/23 03:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	06/27/23 15:45	06/28/23 03:05	1
1,4-Difluorobenzene (Surr)	104		70 - 130	06/27/23 15:45	06/28/23 03:05	1

Lab Sample ID: LCS 880-56423/1-A

Matrix: Solid

Analysis Batch: 56415

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 56423

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1434	*+	mg/Kg		143	70 - 130
Toluene	0.100	0.1396	*+	mg/Kg		140	70 - 130
Ethylbenzene	0.100	0.1228		mg/Kg		123	70 - 130
m-Xylene & p-Xylene	0.200	0.2416		mg/Kg		121	70 - 130
o-Xylene	0.100	0.1140		mg/Kg		114	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-56423/2-A

Matrix: Solid

Analysis Batch: 56415

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 56423

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1482	*+	mg/Kg		148	70 - 130	3	35

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
Project/Site: Aircobra 12 State 2H

Job ID: 890-4854-1
SDG: 03D2024201

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

Lab Sample ID: LCSD 880-56423/2-A

Matrix: Solid

Analysis Batch: 56415

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 56423

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.1362	*+	mg/Kg		136	70 - 130	2	35
Ethylbenzene	0.100	0.1251		mg/Kg		125	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2266		mg/Kg		113	70 - 130	6	35
o-Xylene	0.100	0.1101		mg/Kg		110	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 890-4853-A-1-E MS

Matrix: Solid

Analysis Batch: 56415

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 56423

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U *+	0.101	0.1218		mg/Kg		121	70 - 130
Toluene	<0.00201	U *+	0.101	0.1185		mg/Kg		118	70 - 130
Ethylbenzene	<0.00201	U	0.101	0.1040		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.202	0.2006		mg/Kg		100	70 - 130
o-Xylene	<0.00201	U	0.101	0.09584		mg/Kg		94	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 890-4853-A-1-F MSD

Matrix: Solid

Analysis Batch: 56415

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 56423

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U *+	0.100	0.1242		mg/Kg		124	70 - 130	2	35
Toluene	<0.00201	U *+	0.100	0.1230		mg/Kg		123	70 - 130	4	35
Ethylbenzene	<0.00201	U	0.100	0.1083		mg/Kg		108	70 - 130	4	35
m-Xylene & p-Xylene	<0.00402	U	0.200	0.2100		mg/Kg		105	70 - 130	5	35
o-Xylene	<0.00201	U	0.100	0.1011		mg/Kg		100	70 - 130	5	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

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

Lab Sample ID: MB 880-56231/1-A

Matrix: Solid

Analysis Batch: 56397

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 56231

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		06/23/23 16:22	06/27/23 11:03	1

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
Project/Site: Aircobra 12 State 2H

Job ID: 890-4854-1
SDG: 03D2024201

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

Lab Sample ID: MB 880-56231/1-A

Matrix: Solid

Analysis Batch: 56397

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 56231

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/23/23 16:22	06/27/23 11:03	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/23/23 16:22	06/27/23 11:03	1
Total TPH	<50.0	U	50.0	mg/Kg		06/23/23 16:22	06/27/23 11:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130	06/23/23 16:22	06/27/23 11:03	1
o-Terphenyl	121		70 - 130	06/23/23 16:22	06/27/23 11:03	1

Lab Sample ID: LCS 880-56231/2-A

Matrix: Solid

Analysis Batch: 56397

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 56231

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	883.5		mg/Kg		88	70 - 130
Diesel Range Organics (Over C10-C28)	1000	999.7		mg/Kg		100	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	96		70 - 130
o-Terphenyl	101		70 - 130

Lab Sample ID: LCSD 880-56231/3-A

Matrix: Solid

Analysis Batch: 56397

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 56231

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	911.5		mg/Kg		91	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	975.9		mg/Kg		98	70 - 130	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	92		70 - 130
o-Terphenyl	90		70 - 130

Lab Sample ID: 880-29962-A-1-F MS

Matrix: Solid

Analysis Batch: 56397

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 56231

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	1034		mg/Kg		104	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	998	1222		mg/Kg		120	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	99		70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
Project/Site: Aircobra 12 State 2H

Job ID: 890-4854-1
SDG: 03D2024201

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

Lab Sample ID: 880-29962-A-1-F MS

Matrix: Solid

Analysis Batch: 56397

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 56231

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl	91		70 - 130

Lab Sample ID: 880-29962-A-1-G MSD

Matrix: Solid

Analysis Batch: 56397

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 56231

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	1028		mg/Kg		103	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	998	1202		mg/Kg		118	70 - 130	2	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	98		70 - 130
<i>o</i> -Terphenyl	90		70 - 130

Lab Sample ID: MB 880-56292/1-A

Matrix: Solid

Analysis Batch: 56450

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 56292

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		06/26/23 09:23	06/28/23 08:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/26/23 09:23	06/28/23 08:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/26/23 09:23	06/28/23 08:41	1
Total TPH	<50.0	U	50.0	mg/Kg		06/26/23 09:23	06/28/23 08:41	1

	MB	MB		Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits			
1-Chlorooctane	124		70 - 130	06/26/23 09:23	06/28/23 08:41	1
<i>o</i> -Terphenyl	111		70 - 130	06/26/23 09:23	06/28/23 08:41	1

Lab Sample ID: LCS 880-56292/2-A

Matrix: Solid

Analysis Batch: 56450

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 56292

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	758.7		mg/Kg		76	70 - 130
Diesel Range Organics (Over C10-C28)	1000	911.4		mg/Kg		91	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	111		70 - 130
<i>o</i> -Terphenyl	99		70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
Project/Site: Aircobra 12 State 2H

Job ID: 890-4854-1
SDG: 03D2024201

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

Lab Sample ID: LCSD 880-56292/3-A

Matrix: Solid

Analysis Batch: 56450

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 56292

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	806.4		mg/Kg		81	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	1000	931.5		mg/Kg		93	70 - 130	2	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	104		70 - 130						
o-Terphenyl	92		70 - 130						

Lab Sample ID: 890-4854-7 MS

Matrix: Solid

Analysis Batch: 56450

Client Sample ID: SS07

Prep Type: Total/NA

Prep Batch: 56292

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	998	3026	F1	mg/Kg		303	70 - 130		
Diesel Range Organics (Over C10-C28)	379	F1	998	3554	F1	mg/Kg		318	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	199	S1+	70 - 130								
o-Terphenyl	141	S1+	70 - 130								

Lab Sample ID: 890-4854-7 MSD

Matrix: Solid

Analysis Batch: 56450

Client Sample ID: SS07

Prep Type: Total/NA

Prep Batch: 56292

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	997	2891	F1	mg/Kg		290	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	379	F1	997	3583	F1	mg/Kg		321	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	204	S1+	70 - 130								
o-Terphenyl	141	S1+	70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-56336/1-A

Matrix: Solid

Analysis Batch: 56372

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			06/27/23 00:48	1

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
Project/Site: Aircobra 12 State 2H

Job ID: 890-4854-1
SDG: 03D2024201

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-56336/2-A

Matrix: Solid

Analysis Batch: 56372

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	250.5		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-56336/3-A

Matrix: Solid

Analysis Batch: 56372

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	249.3		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 890-4854-4 MS

Matrix: Solid

Analysis Batch: 56372

Client Sample ID: SS04

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	31.8		250	280.7		mg/Kg		100	90 - 110

Lab Sample ID: 890-4854-4 MSD

Matrix: Solid

Analysis Batch: 56372

Client Sample ID: SS04

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	31.8		250	279.5		mg/Kg		99	90 - 110	0	20

Lab Sample ID: MB 880-56658/1-A

Matrix: Solid

Analysis Batch: 56692

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			06/30/23 11:29	1

Lab Sample ID: LCS 880-56658/2-A

Matrix: Solid

Analysis Batch: 56692

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	245.5		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-56658/3-A

Matrix: Solid

Analysis Batch: 56692

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	244.9		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 890-4854-3 MS

Matrix: Solid

Analysis Batch: 56692

Client Sample ID: SS03

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	511	F1 F2	1240	1748		mg/Kg		100	90 - 110

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
Project/Site: Aircobra 12 State 2H

Job ID: 890-4854-1
SDG: 03D2024201

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-4854-3 MSD							Client Sample ID: SS03					
Matrix: Solid							Prep Type: Soluble					
Analysis Batch: 56692												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	511	F1 F2	1240	1274	F1 F2	mg/Kg	-	62	90 - 110	31	20	

QC Association Summary

Client: Ensolum
Project/Site: Aircobra 12 State 2H

Job ID: 890-4854-1
SDG: 03D2024201

GC VOA

Prep Batch: 56414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-56414/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 56415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4854-1	SS01	Total/NA	Solid	8021B	56423
890-4854-2	SS02	Total/NA	Solid	8021B	56423
890-4854-3	SS03	Total/NA	Solid	8021B	56423
890-4854-4	SS04	Total/NA	Solid	8021B	56423
890-4854-5	SS05	Total/NA	Solid	8021B	56423
890-4854-6	SS06	Total/NA	Solid	8021B	56423
890-4854-7	SS07	Total/NA	Solid	8021B	56423
890-4854-8	SS08	Total/NA	Solid	8021B	56423
MB 880-56414/5-A	Method Blank	Total/NA	Solid	8021B	56414
MB 880-56423/5-A	Method Blank	Total/NA	Solid	8021B	56423
LCS 880-56423/1-A	Lab Control Sample	Total/NA	Solid	8021B	56423
LCSD 880-56423/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	56423
890-4853-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	56423
890-4853-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	56423

Prep Batch: 56423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4854-1	SS01	Total/NA	Solid	5035	
890-4854-2	SS02	Total/NA	Solid	5035	
890-4854-3	SS03	Total/NA	Solid	5035	
890-4854-4	SS04	Total/NA	Solid	5035	
890-4854-5	SS05	Total/NA	Solid	5035	
890-4854-6	SS06	Total/NA	Solid	5035	
890-4854-7	SS07	Total/NA	Solid	5035	
890-4854-8	SS08	Total/NA	Solid	5035	
MB 880-56423/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-56423/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-56423/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4853-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
890-4853-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 56515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4854-1	SS01	Total/NA	Solid	Total BTEX	
890-4854-2	SS02	Total/NA	Solid	Total BTEX	
890-4854-3	SS03	Total/NA	Solid	Total BTEX	
890-4854-4	SS04	Total/NA	Solid	Total BTEX	
890-4854-5	SS05	Total/NA	Solid	Total BTEX	
890-4854-6	SS06	Total/NA	Solid	Total BTEX	
890-4854-7	SS07	Total/NA	Solid	Total BTEX	
890-4854-8	SS08	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 56231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4854-1	SS01	Total/NA	Solid	8015NM Prep	

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: Aircobra 12 State 2H

Job ID: 890-4854-1
SDG: 03D2024201

GC Semi VOA (Continued)

Prep Batch: 56231 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4854-2	SS02	Total/NA	Solid	8015NM Prep	
890-4854-3	SS03	Total/NA	Solid	8015NM Prep	
890-4854-4	SS04	Total/NA	Solid	8015NM Prep	
890-4854-5	SS05	Total/NA	Solid	8015NM Prep	
890-4854-6	SS06	Total/NA	Solid	8015NM Prep	
890-4854-7	SS07	Total/NA	Solid	8015NM Prep	
MB 880-56231/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-56231/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-56231/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-29962-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-29962-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 56292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4854-8	SS08	Total/NA	Solid	8015NM Prep	
MB 880-56292/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-56292/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-56292/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4854-7 MS	SS07	Total/NA	Solid	8015NM Prep	
890-4854-7 MSD	SS07	Total/NA	Solid	8015NM Prep	

Analysis Batch: 56397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4854-1	SS01	Total/NA	Solid	8015B NM	56231
890-4854-2	SS02	Total/NA	Solid	8015B NM	56231
890-4854-3	SS03	Total/NA	Solid	8015B NM	56231
890-4854-4	SS04	Total/NA	Solid	8015B NM	56231
890-4854-5	SS05	Total/NA	Solid	8015B NM	56231
890-4854-6	SS06	Total/NA	Solid	8015B NM	56231
890-4854-7	SS07	Total/NA	Solid	8015B NM	56231
MB 880-56231/1-A	Method Blank	Total/NA	Solid	8015B NM	56231
LCS 880-56231/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	56231
LCSD 880-56231/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	56231
880-29962-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	56231
880-29962-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	56231

Analysis Batch: 56450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4854-8	SS08	Total/NA	Solid	8015B NM	56292
MB 880-56292/1-A	Method Blank	Total/NA	Solid	8015B NM	56292
LCS 880-56292/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	56292
LCSD 880-56292/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	56292
890-4854-7 MS	SS07	Total/NA	Solid	8015B NM	56292
890-4854-7 MSD	SS07	Total/NA	Solid	8015B NM	56292

Analysis Batch: 56477

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4854-1	SS01	Total/NA	Solid	8015 NM	
890-4854-2	SS02	Total/NA	Solid	8015 NM	
890-4854-3	SS03	Total/NA	Solid	8015 NM	
890-4854-4	SS04	Total/NA	Solid	8015 NM	

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: Aircobra 12 State 2H

Job ID: 890-4854-1
SDG: 03D2024201

GC Semi VOA (Continued)

Analysis Batch: 56477 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4854-5	SS05	Total/NA	Solid	8015 NM	
890-4854-6	SS06	Total/NA	Solid	8015 NM	
890-4854-7	SS07	Total/NA	Solid	8015 NM	
890-4854-8	SS08	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 56336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4854-1	SS01	Soluble	Solid	DI Leach	
890-4854-2	SS02	Soluble	Solid	DI Leach	
890-4854-4	SS04	Soluble	Solid	DI Leach	
890-4854-5	SS05	Soluble	Solid	DI Leach	
890-4854-6	SS06	Soluble	Solid	DI Leach	
890-4854-7	SS07	Soluble	Solid	DI Leach	
890-4854-8	SS08	Soluble	Solid	DI Leach	
MB 880-56336/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-56336/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-56336/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4854-4 MS	SS04	Soluble	Solid	DI Leach	
890-4854-4 MSD	SS04	Soluble	Solid	DI Leach	

Analysis Batch: 56372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4854-1	SS01	Soluble	Solid	300.0	56336
890-4854-2	SS02	Soluble	Solid	300.0	56336
890-4854-4	SS04	Soluble	Solid	300.0	56336
890-4854-5	SS05	Soluble	Solid	300.0	56336
890-4854-6	SS06	Soluble	Solid	300.0	56336
890-4854-7	SS07	Soluble	Solid	300.0	56336
890-4854-8	SS08	Soluble	Solid	300.0	56336
MB 880-56336/1-A	Method Blank	Soluble	Solid	300.0	56336
LCS 880-56336/2-A	Lab Control Sample	Soluble	Solid	300.0	56336
LCSD 880-56336/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	56336
890-4854-4 MS	SS04	Soluble	Solid	300.0	56336
890-4854-4 MSD	SS04	Soluble	Solid	300.0	56336

Leach Batch: 56658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4854-3	SS03	Soluble	Solid	DI Leach	
MB 880-56658/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-56658/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-56658/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4854-3 MS	SS03	Soluble	Solid	DI Leach	
890-4854-3 MSD	SS03	Soluble	Solid	DI Leach	

Analysis Batch: 56692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4854-3	SS03	Soluble	Solid	300.0	56658
MB 880-56658/1-A	Method Blank	Soluble	Solid	300.0	56658
LCS 880-56658/2-A	Lab Control Sample	Soluble	Solid	300.0	56658

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: Aircobra 12 State 2H

Job ID: 890-4854-1
SDG: 03D2024201

HPLC/IC (Continued)

Analysis Batch: 56692 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-56658/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	56658
890-4854-3 MS	SS03	Soluble	Solid	300.0	56658
890-4854-3 MSD	SS03	Soluble	Solid	300.0	56658

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Lab Chronicle

Client: Ensolum
Project/Site: Aircobra 12 State 2H

Job ID: 890-4854-1
SDG: 03D2024201

Client Sample ID: SS01**Date Collected: 06/22/23 13:15****Date Received: 06/22/23 16:46****Lab Sample ID: 890-4854-1****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	56423	06/27/23 15:45	SM	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56415	06/28/23 04:56	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56515	06/28/23 16:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			56477	06/28/23 09:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	56231	06/23/23 16:22	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56397	06/27/23 20:51	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	56336	06/26/23 10:29	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	56372	06/27/23 02:09	CH	EET MID

Client Sample ID: SS02**Date Collected: 06/22/23 13:20****Date Received: 06/22/23 16:46****Lab Sample ID: 890-4854-2****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	56423	06/27/23 15:45	SM	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56415	06/28/23 05:17	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56515	06/28/23 16:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			56477	06/28/23 09:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	56231	06/23/23 16:22	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56397	06/27/23 22:45	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	56336	06/26/23 10:29	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	56372	06/27/23 02:15	CH	EET MID

Client Sample ID: SS03**Date Collected: 06/22/23 13:25****Date Received: 06/22/23 16:46****Lab Sample ID: 890-4854-3****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	56423	06/27/23 15:45	SM	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56415	06/28/23 05:37	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56515	06/28/23 16:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			56477	06/28/23 09:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	56231	06/23/23 16:22	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56397	06/27/23 21:14	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	56658	06/30/23 09:22	KS	EET MID
Soluble	Analysis	300.0		5			56692	06/30/23 11:44	CH	EET MID

Client Sample ID: SS04**Date Collected: 06/22/23 13:30****Date Received: 06/22/23 16:46****Lab Sample ID: 890-4854-4****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	56423	06/27/23 15:45	SM	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56415	06/28/23 08:29	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56515	06/28/23 16:11	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: Aircobra 12 State 2H

Job ID: 890-4854-1
SDG: 03D2024201

Client Sample ID: SS04**Date Collected: 06/22/23 13:30****Date Received: 06/22/23 16:46****Lab Sample ID: 890-4854-4****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			56477	06/28/23 09:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	56231	06/23/23 16:22	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56397	06/27/23 21:36	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	56336	06/26/23 10:29	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	56372	06/27/23 02:27	CH	EET MID

Client Sample ID: SS05**Date Collected: 06/22/23 13:40****Date Received: 06/22/23 16:46****Lab Sample ID: 890-4854-5****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	56423	06/27/23 15:45	SM	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56415	06/28/23 08:49	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56515	06/28/23 16:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			56477	06/28/23 09:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	56231	06/23/23 16:22	AJ	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	56397	06/27/23 23:07	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	56336	06/26/23 10:29	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	56372	06/27/23 02:44	CH	EET MID

Client Sample ID: SS06**Date Collected: 06/22/23 13:50****Date Received: 06/22/23 16:46****Lab Sample ID: 890-4854-6****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	56423	06/27/23 15:45	SM	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56415	06/28/23 11:13	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56515	06/28/23 16:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			56477	06/28/23 09:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	56231	06/23/23 16:22	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56397	06/27/23 21:59	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	56336	06/26/23 10:29	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	56372	06/27/23 02:50	CH	EET MID

Client Sample ID: SS07**Date Collected: 06/22/23 14:00****Date Received: 06/22/23 16:46****Lab Sample ID: 890-4854-7****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	56423	06/27/23 15:45	SM	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56415	06/28/23 09:10	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56515	06/28/23 16:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			56477	06/28/23 09:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	56231	06/23/23 16:22	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56397	06/27/23 22:21	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: Aircobra 12 State 2H

Job ID: 890-4854-1
SDG: 03D2024201

Client Sample ID: SS07
Date Collected: 06/22/23 14:00
Date Received: 06/22/23 16:46

Lab Sample ID: 890-4854-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	56336	06/26/23 10:29	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	56372	06/27/23 03:08	CH	EET MID

Client Sample ID: SS08
Date Collected: 06/22/23 14:10
Date Received: 06/22/23 16:46

Lab Sample ID: 890-4854-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	56423	06/27/23 15:45	SM	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56415	06/28/23 09:30	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56515	06/28/23 16:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			56477	06/29/23 09:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	56292	06/26/23 09:23	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56450	06/28/23 17:34	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	56336	06/26/23 10:29	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	56372	06/27/23 03:13	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: Aircobra 12 State 2H

Job ID: 890-4854-1
SDG: 03D2024201

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: Aircobra 12 State 2H

Job ID: 890-4854-1
SDG: 03D2024201

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: Aircobra 12 State 2H

Job ID: 890-4854-1
SDG: 03D2024201

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4854-1	SS01	Solid	06/22/23 13:15	06/22/23 16:46	0.5
890-4854-2	SS02	Solid	06/22/23 13:20	06/22/23 16:46	0.5
890-4854-3	SS03	Solid	06/22/23 13:25	06/22/23 16:46	0.5
890-4854-4	SS04	Solid	06/22/23 13:30	06/22/23 16:46	0.5
890-4854-5	SS05	Solid	06/22/23 13:40	06/22/23 16:46	0.5
890-4854-6	SS06	Solid	06/22/23 13:50	06/22/23 16:46	0.5
890-4854-7	SS07	Solid	06/22/23 14:00	06/22/23 16:46	0.5
890-4854-8	SS08	Solid	06/22/23 14:10	06/22/23 16:46	0.5

1

2

3

4

5

6

7

8

9

10

11

12

13

14



Environment Testing
Xenco

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

Chain of Custody

Work Order No: _____

www.xenco.com

Page 1 of 1

Project Manager:	Hadlie Green	Bill to: (if different)	Kalei Jennings
Company Name:	Ensolum, LLC	Company Name:	Ensolum, LLC
Address:	601 N Marientfield St Suite 400	Address:	601 N Marientfield St Suite 400
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-557-8895	Email:	hgreen@ensolum.com, kjennings@ensolum.com

Program: ☒ UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADAPT ☐ Other: _____	

Project Name:	Aircobra 12 State 2H	Turn Around	☒ Routine ☐ Rush	Pres. Code		ANALYSIS REQUEST		Preservative Codes	
Project Number:	03D2024201	Due Date:						None: NO DI Water: H ₂ O	
Project Location:	32.6806, -103.5113	TAT starts the day received by the lab, if received by 4:30pm						Cool: Cool MeOH: Me	
Sampler's Name:	Peter Van Patten	Well Ice:	☒ Yes ☐ No					HCL: HC HNO ₃ : HN	
PO #:		Thermometer ID:	11111111					H ₂ SO ₄ : H ₂ NaOH: Na	
SAMPLE RECEIPT	Temp Blank:	Corrected Temp:	4.0					H ₃ PO ₄ : HP	
Samples Received Intact:	☒ Yes ☐ No	Correction Factor:	1.0					NaHSO ₄ : NABIS	
Cooler Custody Seals:	☒ Yes ☐ No	Temperature Reading:	4.2					Na ₂ S ₂ O ₃ : NaSO ₃	
Sample Custody Seals:	☒ Yes ☐ No	Corrected Temperature:	4.0					Zn Acetate+NaOH: Zn	
Total Containers:								NaOH+Ascorbic Acid: SANC	



Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)	Sample Comments
SS01	Soil	6/22/2023	1315	0.5 Comp	1	X	X	X		
SS02	Soil	6/22/2023	1320	0.5 Comp	1	X	X	X		
SS03	Soil	6/22/2023	1325	0.5 Comp	1	X	X	X		
SS04	Soil	6/22/2023	1330	0.5 Comp	1	X	X	X		
SS05	Soil	6/22/2023	1340	0.5 Comp	1	X	X	X		
SS06	Soil	6/22/2023	1350	0.5 Comp	1	X	X	X		
SS07	Soil	6/22/2023	1400	0.5 Comp	1	X	X	X		
SS08	Soil	6/22/2023	1410	0.5 Comp	1	X	X	X		

Total 200.7 / 6010 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 Ag SiO₂ Na Sr Ti Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP/SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>Peter Van Patten</i>	<i>Cloe Day</i>	6/22/23 1416	2		
3			4		
5			6		

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4854-1

SDG Number: 03D2024201

Login Number: 4854

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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: 890-4854-1

SDG Number: 03D2024201

Login Number: 4854

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 06/26/23 08:47 AM

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



Environment Testing

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701
Generated 8/1/2023 10:30:01 AM

JOB DESCRIPTION

Aircobra 12 State 002H
SDG NUMBER 03D2024201

JOB NUMBER

890-4952-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

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

Authorization



Generated
8/1/2023 10:30:01 AM

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

Client: Ensolum
Project/Site: Aircobra 12 State 002H

Laboratory Job ID: 890-4952-1
SDG: 03D2024201

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	22
QC Sample Results	24
QC Association Summary	29
Lab Chronicle	34
Certification Summary	40
Method Summary	41
Sample Summary	42
Chain of Custody	43
Receipt Checklists	45

1
2
3
4
5
6
7
8
9
10
11
12
13
14

Definitions/Glossary

Client: Ensolum
Project/Site: Aircobra 12 State 002H

Job ID: 890-4952-1
SDG: 03D2024201

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Case Narrative

Client: Ensolum
Project/Site: Aircobra 12 State 002H

Job ID: 890-4952-1
SDG: 03D2024201

Job ID: 890-4952-1**Laboratory: Eurofins Carlsbad****Narrative****Job Narrative
890-4952-1****Receipt**

The samples were received on 7/14/2023 3:27 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.2°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS01A (890-4952-1), SS02A (890-4952-2), FS01 (890-4952-3), FS02 (890-4952-4), FS03 (890-4952-5), FS04 (890-4952-6), FS05 (890-4952-7), FS06 (890-4952-8), FS07 (890-4952-9), FS08 (890-4952-10), FS09 (890-4952-11), FS10 (890-4952-12), FS11 (890-4952-13), FS12 (890-4952-14), FS13 (890-4952-15), FS14 (890-4952-16), FS15 (890-4952-17), FS16 (890-4952-18) and FS17 (890-4952-19).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-58055 and analytical batch 880-58258 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

GC Semi VOA

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-58486 and analytical batch 880-58813 was outside acceptance criteria for gasoline range hydrocarbons. 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 for gasoline range hydrocarbons and may be used to evaluate matrix performance.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS) recoveries for preparation batch 880-58486 and analytical batch 880-58813 were outside control limits for diesel range hydrocarbons. 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 for this analyte.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (MB 880-58486/1-A). 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.

Client Sample Results

Client: Ensolum
Project/Site: Aircobra 12 State 002H

Job ID: 890-4952-1
SDG: 03D2024201

Client Sample ID: SS01A

Lab Sample ID: 890-4952-1

Date Collected: 07/13/23 09:30

Matrix: Solid

Date Received: 07/14/23 15:27

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		07/19/23 15:04	07/23/23 18:25	1
Toluene	0.0194	F1	0.00202	mg/Kg		07/19/23 15:04	07/23/23 18:25	1
Ethylbenzene	<0.00202	U F1	0.00202	mg/Kg		07/19/23 15:04	07/23/23 18:25	1
m-Xylene & p-Xylene	<0.00404	U F1	0.00404	mg/Kg		07/19/23 15:04	07/23/23 18:25	1
o-Xylene	<0.00202	U F1	0.00202	mg/Kg		07/19/23 15:04	07/23/23 18:25	1
Xylenes, Total	<0.00404	U F1	0.00404	mg/Kg		07/19/23 15:04	07/23/23 18:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130	07/19/23 15:04	07/23/23 18:25	1
1,4-Difluorobenzene (Surr)	108		70 - 130	07/19/23 15:04	07/23/23 18:25	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0194		0.00404	mg/Kg			07/24/23 08:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	608		50.3	mg/Kg			08/01/23 10:34	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	<50.3	U *1	50.3	mg/Kg		07/25/23 14:23	07/31/23 20:57	1
Diesel Range Organics (Over C10-C28)	608	F1	50.3	mg/Kg		07/25/23 14:23	07/31/23 20:57	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3	mg/Kg		07/25/23 14:23	07/31/23 20:57	1
Total TPH	608	F1	50.3	mg/Kg		07/25/23 14:23	07/31/23 20:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130	07/25/23 14:23	07/31/23 20:57	1
o-Terphenyl	103		70 - 130	07/25/23 14:23	07/31/23 20:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	67.9		5.01	mg/Kg			07/19/23 13:11	1

Client Sample ID: SS02A

Lab Sample ID: 890-4952-2

Date Collected: 07/13/23 09:35

Matrix: Solid

Date Received: 07/14/23 15:27

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		07/19/23 15:04	07/23/23 18:46	1
Toluene	<0.00202	U	0.00202	mg/Kg		07/19/23 15:04	07/23/23 18:46	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		07/19/23 15:04	07/23/23 18:46	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		07/19/23 15:04	07/23/23 18:46	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		07/19/23 15:04	07/23/23 18:46	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		07/19/23 15:04	07/23/23 18:46	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Aircobra 12 State 002H

Job ID: 890-4952-1
SDG: 03D2024201

Client Sample ID: SS02A

Lab Sample ID: 890-4952-2

Date Collected: 07/13/23 09:35

Matrix: Solid

Date Received: 07/14/23 15:27

Sample Depth: 0.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	07/19/23 15:04	07/23/23 18:46	1
1,4-Difluorobenzene (Surr)	113		70 - 130	07/19/23 15:04	07/23/23 18:46	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			07/24/23 08:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2	mg/Kg			08/01/23 10:34	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	<50.2	U *- *1	50.2	mg/Kg		07/25/23 14:23	07/31/23 21:59	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2	mg/Kg		07/25/23 14:23	07/31/23 21:59	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2	mg/Kg		07/25/23 14:23	07/31/23 21:59	1
Total TPH	<50.2	U	50.2	mg/Kg		07/25/23 14:23	07/31/23 21:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130	07/25/23 14:23	07/31/23 21:59	1
o-Terphenyl	103		70 - 130	07/25/23 14:23	07/31/23 21:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	814		4.98	mg/Kg			07/19/23 13:29	1

Client Sample ID: FS01

Lab Sample ID: 890-4952-3

Date Collected: 07/14/23 10:30

Matrix: Solid

Date Received: 07/14/23 15:27

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		07/19/23 15:04	07/23/23 19:07	1
Toluene	<0.00201	U	0.00201	mg/Kg		07/19/23 15:04	07/23/23 19:07	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		07/19/23 15:04	07/23/23 19:07	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		07/19/23 15:04	07/23/23 19:07	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		07/19/23 15:04	07/23/23 19:07	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		07/19/23 15:04	07/23/23 19:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	07/19/23 15:04	07/23/23 19:07	1
1,4-Difluorobenzene (Surr)	111		70 - 130	07/19/23 15:04	07/23/23 19:07	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			07/24/23 08:47	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Aircobra 12 State 002H

Job ID: 890-4952-1
SDG: 03D2024201

Client Sample ID: FS01

Lab Sample ID: 890-4952-3

Date Collected: 07/14/23 10:30

Matrix: Solid

Date Received: 07/14/23 15:27

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	272		50.4	mg/Kg			08/01/23 10:34	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	<50.4	U *- *1	50.4	mg/Kg		07/25/23 14:23	07/31/23 22:20	1
Diesel Range Organics (Over C10-C28)	272		50.4	mg/Kg		07/25/23 14:23	07/31/23 22:20	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg		07/25/23 14:23	07/31/23 22:20	1
Total TPH	272		50.4	mg/Kg		07/25/23 14:23	07/31/23 22:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130			07/25/23 14:23	07/31/23 22:20	1
o-Terphenyl	103		70 - 130			07/25/23 14:23	07/31/23 22:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	257		4.97	mg/Kg			07/19/23 13:35	1

Client Sample ID: FS02

Lab Sample ID: 890-4952-4

Date Collected: 07/14/23 10:40

Matrix: Solid

Date Received: 07/14/23 15:27

Sample Depth: 1.0

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/19/23 15:04	07/23/23 19:27	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/19/23 15:04	07/23/23 19:27	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/19/23 15:04	07/23/23 19:27	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		07/19/23 15:04	07/23/23 19:27	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/19/23 15:04	07/23/23 19:27	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		07/19/23 15:04	07/23/23 19:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130			07/19/23 15:04	07/23/23 19:27	1
1,4-Difluorobenzene (Surr)	114		70 - 130			07/19/23 15:04	07/23/23 19:27	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			07/24/23 08:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	252		49.8	mg/Kg			08/01/23 10:34	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	<49.8	U *- *1	49.8	mg/Kg		07/25/23 14:23	07/31/23 22:41	1
Diesel Range Organics (Over C10-C28)	252		49.8	mg/Kg		07/25/23 14:23	07/31/23 22:41	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		07/25/23 14:23	07/31/23 22:41	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Aircobra 12 State 002H

Job ID: 890-4952-1
SDG: 03D2024201

Client Sample ID: FS02

Lab Sample ID: 890-4952-4

Date Collected: 07/14/23 10:40

Matrix: Solid

Date Received: 07/14/23 15:27

Sample Depth: 1.0

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	252		49.8	mg/Kg		07/25/23 14:23	07/31/23 22:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130			07/25/23 14:23	07/31/23 22:41	1
o-Terphenyl	102		70 - 130			07/25/23 14:23	07/31/23 22:41	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	47.4		5.02	mg/Kg			07/19/23 13:42	1

Client Sample ID: FS03

Lab Sample ID: 890-4952-5

Date Collected: 07/14/23 11:00

Matrix: Solid

Date Received: 07/14/23 15:27

Sample Depth: 1.0

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		07/19/23 15:04	07/23/23 19:48	1
Toluene	<0.00198	U	0.00198	mg/Kg		07/19/23 15:04	07/23/23 19:48	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		07/19/23 15:04	07/23/23 19:48	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		07/19/23 15:04	07/23/23 19:48	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		07/19/23 15:04	07/23/23 19:48	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		07/19/23 15:04	07/23/23 19:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130			07/19/23 15:04	07/23/23 19:48	1
1,4-Difluorobenzene (Surr)	105		70 - 130			07/19/23 15:04	07/23/23 19:48	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			07/24/23 08:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			08/01/23 10:34	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	<49.7	U *- *1	49.7	mg/Kg		07/25/23 14:23	07/31/23 23:02	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		07/25/23 14:23	07/31/23 23:02	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		07/25/23 14:23	07/31/23 23:02	1
Total TPH	<49.7	U	49.7	mg/Kg		07/25/23 14:23	07/31/23 23:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130			07/25/23 14:23	07/31/23 23:02	1
o-Terphenyl	106		70 - 130			07/25/23 14:23	07/31/23 23:02	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Aircobra 12 State 002H

Job ID: 890-4952-1
SDG: 03D2024201

Client Sample ID: FS03

Lab Sample ID: 890-4952-5

Date Collected: 07/14/23 11:00

Matrix: Solid

Date Received: 07/14/23 15:27

Sample Depth: 1.0

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	30.2		4.95	mg/Kg			07/19/23 13:48	1

Client Sample ID: FS04

Lab Sample ID: 890-4952-6

Date Collected: 07/14/23 11:05

Matrix: Solid

Date Received: 07/14/23 15:27

Sample Depth: 1.0

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		07/19/23 15:04	07/23/23 20:09	1
Toluene	<0.00198	U	0.00198	mg/Kg		07/19/23 15:04	07/23/23 20:09	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		07/19/23 15:04	07/23/23 20:09	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		07/19/23 15:04	07/23/23 20:09	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		07/19/23 15:04	07/23/23 20:09	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		07/19/23 15:04	07/23/23 20:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130			07/19/23 15:04	07/23/23 20:09	1
1,4-Difluorobenzene (Surr)	110		70 - 130			07/19/23 15:04	07/23/23 20:09	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			07/24/23 08:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2	mg/Kg			08/01/23 10:34	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	<50.2	U *- *1	50.2	mg/Kg		07/25/23 14:23	07/31/23 23:23	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2	mg/Kg		07/25/23 14:23	07/31/23 23:23	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2	mg/Kg		07/25/23 14:23	07/31/23 23:23	1
Total TPH	<50.2	U	50.2	mg/Kg		07/25/23 14:23	07/31/23 23:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130			07/25/23 14:23	07/31/23 23:23	1
o-Terphenyl	113		70 - 130			07/25/23 14:23	07/31/23 23:23	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	40.3		5.04	mg/Kg			07/19/23 14:06	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Aircobra 12 State 002H

Job ID: 890-4952-1
SDG: 03D2024201

Client Sample ID: FS05

Lab Sample ID: 890-4952-7

Date Collected: 07/14/23 11:10

Matrix: Solid

Date Received: 07/14/23 15:27

Sample Depth: 1.0

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		07/19/23 15:04	07/23/23 20:29	1
Toluene	<0.00202	U	0.00202	mg/Kg		07/19/23 15:04	07/23/23 20:29	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		07/19/23 15:04	07/23/23 20:29	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		07/19/23 15:04	07/23/23 20:29	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		07/19/23 15:04	07/23/23 20:29	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		07/19/23 15:04	07/23/23 20:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	07/19/23 15:04	07/23/23 20:29	1
1,4-Difluorobenzene (Surr)	115		70 - 130	07/19/23 15:04	07/23/23 20:29	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			07/24/23 08:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4	mg/Kg			08/01/23 10:34	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	<50.4	U *1	50.4	mg/Kg		07/25/23 14:23	07/31/23 23:43	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4	mg/Kg		07/25/23 14:23	07/31/23 23:43	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg		07/25/23 14:23	07/31/23 23:43	1
Total TPH	<50.4	U	50.4	mg/Kg		07/25/23 14:23	07/31/23 23:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130	07/25/23 14:23	07/31/23 23:43	1
o-Terphenyl	99		70 - 130	07/25/23 14:23	07/31/23 23:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	41.7		4.99	mg/Kg			07/19/23 14:12	1

Client Sample ID: FS06

Lab Sample ID: 890-4952-8

Date Collected: 07/14/23 11:15

Matrix: Solid

Date Received: 07/14/23 15:27

Sample Depth: 1.0

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		07/19/23 15:04	07/23/23 20:50	1
Toluene	<0.00201	U	0.00201	mg/Kg		07/19/23 15:04	07/23/23 20:50	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		07/19/23 15:04	07/23/23 20:50	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		07/19/23 15:04	07/23/23 20:50	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		07/19/23 15:04	07/23/23 20:50	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		07/19/23 15:04	07/23/23 20:50	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Aircobra 12 State 002H

Job ID: 890-4952-1
SDG: 03D2024201

Client Sample ID: FS06

Lab Sample ID: 890-4952-8

Date Collected: 07/14/23 11:15

Matrix: Solid

Date Received: 07/14/23 15:27

Sample Depth: 1.0

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	07/19/23 15:04	07/23/23 20:50	1
1,4-Difluorobenzene (Surr)	108		70 - 130	07/19/23 15:04	07/23/23 20:50	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			07/24/23 08:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5	mg/Kg			08/01/23 10:34	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	<50.5	U *- *1	50.5	mg/Kg		07/25/23 14:23	08/01/23 00:04	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5	mg/Kg		07/25/23 14:23	08/01/23 00:04	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		07/25/23 14:23	08/01/23 00:04	1
Total TPH	<50.5	U	50.5	mg/Kg		07/25/23 14:23	08/01/23 00:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130	07/25/23 14:23	08/01/23 00:04	1
o-Terphenyl	110		70 - 130	07/25/23 14:23	08/01/23 00:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	46.0		4.98	mg/Kg			07/19/23 14:18	1

Client Sample ID: FS07

Lab Sample ID: 890-4952-9

Date Collected: 07/14/23 11:20

Matrix: Solid

Date Received: 07/14/23 15:27

Sample Depth: 1.0

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		07/19/23 15:04	07/23/23 21:11	1
Toluene	<0.00199	U	0.00199	mg/Kg		07/19/23 15:04	07/23/23 21:11	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		07/19/23 15:04	07/23/23 21:11	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		07/19/23 15:04	07/23/23 21:11	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		07/19/23 15:04	07/23/23 21:11	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		07/19/23 15:04	07/23/23 21:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	07/19/23 15:04	07/23/23 21:11	1
1,4-Difluorobenzene (Surr)	112		70 - 130	07/19/23 15:04	07/23/23 21:11	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			07/24/23 08:47	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Aircobra 12 State 002H

Job ID: 890-4952-1
SDG: 03D2024201

Client Sample ID: FS07

Lab Sample ID: 890-4952-9

Date Collected: 07/14/23 11:20

Matrix: Solid

Date Received: 07/14/23 15:27

Sample Depth: 1.0

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5	mg/Kg			08/01/23 10:34	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	<50.5	U *- *1	50.5	mg/Kg		07/25/23 14:23	08/01/23 00:25	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5	mg/Kg		07/25/23 14:23	08/01/23 00:25	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		07/25/23 14:23	08/01/23 00:25	1
Total TPH	<50.5	U	50.5	mg/Kg		07/25/23 14:23	08/01/23 00:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130	07/25/23 14:23	08/01/23 00:25	1
o-Terphenyl	109		70 - 130	07/25/23 14:23	08/01/23 00:25	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	62.2		4.96	mg/Kg			07/19/23 14:24	1

Client Sample ID: FS08

Lab Sample ID: 890-4952-10

Date Collected: 07/14/23 12:45

Matrix: Solid

Date Received: 07/14/23 15:27

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		07/19/23 15:04	07/23/23 21:31	1
Toluene	<0.00198	U	0.00198	mg/Kg		07/19/23 15:04	07/23/23 21:31	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		07/19/23 15:04	07/23/23 21:31	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		07/19/23 15:04	07/23/23 21:31	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		07/19/23 15:04	07/23/23 21:31	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		07/19/23 15:04	07/23/23 21:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	07/19/23 15:04	07/23/23 21:31	1
1,4-Difluorobenzene (Surr)	112		70 - 130	07/19/23 15:04	07/23/23 21:31	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			07/24/23 08:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			08/01/23 10:34	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	<49.8	U *- *1	49.8	mg/Kg		07/25/23 14:23	08/01/23 00:46	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		07/25/23 14:23	08/01/23 00:46	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		07/25/23 14:23	08/01/23 00:46	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Aircobra 12 State 002H

Job ID: 890-4952-1
SDG: 03D2024201

Client Sample ID: FS08

Lab Sample ID: 890-4952-10

Date Collected: 07/14/23 12:45

Matrix: Solid

Date Received: 07/14/23 15:27

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg		07/25/23 14:23	08/01/23 00:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130			07/25/23 14:23	08/01/23 00:46	1
o-Terphenyl	101		70 - 130			07/25/23 14:23	08/01/23 00:46	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	152		5.02	mg/Kg			07/19/23 14:31	1

Client Sample ID: FS09

Lab Sample ID: 890-4952-11

Date Collected: 07/14/23 12:50

Matrix: Solid

Date Received: 07/14/23 15:27

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/19/23 15:04	07/23/23 22:54	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/19/23 15:04	07/23/23 22:54	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/19/23 15:04	07/23/23 22:54	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/19/23 15:04	07/23/23 22:54	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/19/23 15:04	07/23/23 22:54	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/19/23 15:04	07/23/23 22:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130			07/19/23 15:04	07/23/23 22:54	1
1,4-Difluorobenzene (Surr)	95		70 - 130			07/19/23 15:04	07/23/23 22:54	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			07/24/23 08:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	50.1		49.6	mg/Kg			08/01/23 10:34	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	<49.6	U *- *1	49.6	mg/Kg		07/25/23 14:23	08/01/23 01:28	1
Diesel Range Organics (Over C10-C28)	50.1		49.6	mg/Kg		07/25/23 14:23	08/01/23 01:28	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		07/25/23 14:23	08/01/23 01:28	1
Total TPH	50.1		49.6	mg/Kg		07/25/23 14:23	08/01/23 01:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	129		70 - 130			07/25/23 14:23	08/01/23 01:28	1
o-Terphenyl	112		70 - 130			07/25/23 14:23	08/01/23 01:28	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Aircobra 12 State 002H

Job ID: 890-4952-1
SDG: 03D2024201

Client Sample ID: FS09

Lab Sample ID: 890-4952-11

Date Collected: 07/14/23 12:50

Matrix: Solid

Date Received: 07/14/23 15:27

Sample Depth: 0.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	169		4.97	mg/Kg			07/19/23 14:37	1

Client Sample ID: FS10

Lab Sample ID: 890-4952-12

Date Collected: 07/14/23 12:55

Matrix: Solid

Date Received: 07/14/23 15:27

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		07/19/23 15:04	07/23/23 23:15	1
Toluene	<0.00199	U	0.00199	mg/Kg		07/19/23 15:04	07/23/23 23:15	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		07/19/23 15:04	07/23/23 23:15	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		07/19/23 15:04	07/23/23 23:15	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		07/19/23 15:04	07/23/23 23:15	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		07/19/23 15:04	07/23/23 23:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130			07/19/23 15:04	07/23/23 23:15	1
1,4-Difluorobenzene (Surr)	111		70 - 130			07/19/23 15:04	07/23/23 23:15	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			07/24/23 08:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3	mg/Kg			08/01/23 10:34	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	<50.3	U *- *1	50.3	mg/Kg		07/25/23 14:23	08/01/23 01:49	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3	mg/Kg		07/25/23 14:23	08/01/23 01:49	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3	mg/Kg		07/25/23 14:23	08/01/23 01:49	1
Total TPH	<50.3	U	50.3	mg/Kg		07/25/23 14:23	08/01/23 01:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	129		70 - 130			07/25/23 14:23	08/01/23 01:49	1
o-Terphenyl	117		70 - 130			07/25/23 14:23	08/01/23 01:49	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	40.2		5.00	mg/Kg			07/19/23 14:55	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Aircobra 12 State 002H

Job ID: 890-4952-1
SDG: 03D2024201

Client Sample ID: FS11

Lab Sample ID: 890-4952-13

Date Collected: 07/14/23 13:00

Matrix: Solid

Date Received: 07/14/23 15:27

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		07/19/23 15:04	07/23/23 23:35	1
Toluene	<0.00201	U	0.00201	mg/Kg		07/19/23 15:04	07/23/23 23:35	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		07/19/23 15:04	07/23/23 23:35	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		07/19/23 15:04	07/23/23 23:35	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		07/19/23 15:04	07/23/23 23:35	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		07/19/23 15:04	07/23/23 23:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	07/19/23 15:04	07/23/23 23:35	1
1,4-Difluorobenzene (Surr)	114		70 - 130	07/19/23 15:04	07/23/23 23:35	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			07/24/23 08:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4	mg/Kg			08/01/23 10:34	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	<50.4	U *1	50.4	mg/Kg		07/25/23 14:23	08/01/23 02:10	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4	mg/Kg		07/25/23 14:23	08/01/23 02:10	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg		07/25/23 14:23	08/01/23 02:10	1
Total TPH	<50.4	U	50.4	mg/Kg		07/25/23 14:23	08/01/23 02:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130	07/25/23 14:23	08/01/23 02:10	1
o-Terphenyl	102		70 - 130	07/25/23 14:23	08/01/23 02:10	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	153		4.99	mg/Kg			07/19/23 15:01	1

Client Sample ID: FS12

Lab Sample ID: 890-4952-14

Date Collected: 07/14/23 13:05

Matrix: Solid

Date Received: 07/14/23 15:27

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		07/19/23 15:04	07/23/23 23:56	1
Toluene	<0.00202	U	0.00202	mg/Kg		07/19/23 15:04	07/23/23 23:56	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		07/19/23 15:04	07/23/23 23:56	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		07/19/23 15:04	07/23/23 23:56	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		07/19/23 15:04	07/23/23 23:56	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		07/19/23 15:04	07/23/23 23:56	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Aircobra 12 State 002H

Job ID: 890-4952-1
SDG: 03D2024201

Client Sample ID: FS12

Lab Sample ID: 890-4952-14

Date Collected: 07/14/23 13:05

Matrix: Solid

Date Received: 07/14/23 15:27

Sample Depth: 0.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	07/19/23 15:04	07/23/23 23:56	1
1,4-Difluorobenzene (Surr)	110		70 - 130	07/19/23 15:04	07/23/23 23:56	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			07/24/23 08:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	253		49.9	mg/Kg			08/01/23 10:34	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 *- *1	49.9	mg/Kg		07/25/23 14:23	08/01/23 02:52	1
Diesel Range Organics (Over C10-C28)	253		49.9	mg/Kg		07/25/23 14:23	08/01/23 02:52	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/25/23 14:23	08/01/23 02:52	1
Total TPH	253		49.9	mg/Kg		07/25/23 14:23	08/01/23 02:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130	07/25/23 14:23	08/01/23 02:52	1
o-Terphenyl	99		70 - 130	07/25/23 14:23	08/01/23 02:52	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	46.0		5.01	mg/Kg			07/19/23 15:20	1

Client Sample ID: FS13

Lab Sample ID: 890-4952-15

Date Collected: 07/14/23 13:10

Matrix: Solid

Date Received: 07/14/23 15:27

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		07/19/23 15:04	07/24/23 00:17	1
Toluene	<0.00198	U	0.00198	mg/Kg		07/19/23 15:04	07/24/23 00:17	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		07/19/23 15:04	07/24/23 00:17	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		07/19/23 15:04	07/24/23 00:17	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		07/19/23 15:04	07/24/23 00:17	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		07/19/23 15:04	07/24/23 00:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	07/19/23 15:04	07/24/23 00:17	1
1,4-Difluorobenzene (Surr)	111		70 - 130	07/19/23 15:04	07/24/23 00:17	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			07/24/23 08:47	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Aircobra 12 State 002H

Job ID: 890-4952-1
SDG: 03D2024201

Client Sample ID: FS13

Lab Sample ID: 890-4952-15

Date Collected: 07/14/23 13:10

Matrix: Solid

Date Received: 07/14/23 15:27

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	641		49.7	mg/Kg			08/01/23 10:34	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	<49.7	U *- *1	49.7	mg/Kg		07/25/23 14:23	08/01/23 03:13	1
Diesel Range Organics (Over C10-C28)	641		49.7	mg/Kg		07/25/23 14:23	08/01/23 03:13	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		07/25/23 14:23	08/01/23 03:13	1
Total TPH	641		49.7	mg/Kg		07/25/23 14:23	08/01/23 03:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130			07/25/23 14:23	08/01/23 03:13	1
o-Terphenyl	106		70 - 130			07/25/23 14:23	08/01/23 03:13	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	41.2		5.03	mg/Kg			07/19/23 15:26	1

Client Sample ID: FS14

Lab Sample ID: 890-4952-16

Date Collected: 07/14/23 13:15

Matrix: Solid

Date Received: 07/14/23 15:27

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		07/19/23 15:04	07/24/23 00:37	1
Toluene	<0.00198	U	0.00198	mg/Kg		07/19/23 15:04	07/24/23 00:37	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		07/19/23 15:04	07/24/23 00:37	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		07/19/23 15:04	07/24/23 00:37	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		07/19/23 15:04	07/24/23 00:37	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		07/19/23 15:04	07/24/23 00:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130			07/19/23 15:04	07/24/23 00:37	1
1,4-Difluorobenzene (Surr)	107		70 - 130			07/19/23 15:04	07/24/23 00:37	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			07/24/23 08:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	409		49.6	mg/Kg			08/01/23 10:34	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	<49.6	U *- *1	49.6	mg/Kg		07/25/23 14:23	08/01/23 03:34	1
Diesel Range Organics (Over C10-C28)	409		49.6	mg/Kg		07/25/23 14:23	08/01/23 03:34	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		07/25/23 14:23	08/01/23 03:34	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Aircobra 12 State 002H

Job ID: 890-4952-1
SDG: 03D2024201

Client Sample ID: FS14

Lab Sample ID: 890-4952-16

Date Collected: 07/14/23 13:15

Matrix: Solid

Date Received: 07/14/23 15:27

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	409		49.6	mg/Kg		07/25/23 14:23	08/01/23 03:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130			07/25/23 14:23	08/01/23 03:34	1
o-Terphenyl	96		70 - 130			07/25/23 14:23	08/01/23 03:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	47.3		5.00	mg/Kg			07/19/23 15:32	1

Client Sample ID: FS15

Lab Sample ID: 890-4952-17

Date Collected: 07/14/23 13:20

Matrix: Solid

Date Received: 07/14/23 15:27

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/19/23 15:04	07/24/23 00:58	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/19/23 15:04	07/24/23 00:58	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/19/23 15:04	07/24/23 00:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/19/23 15:04	07/24/23 00:58	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/19/23 15:04	07/24/23 00:58	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/19/23 15:04	07/24/23 00:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130			07/19/23 15:04	07/24/23 00:58	1
1,4-Difluorobenzene (Surr)	108		70 - 130			07/19/23 15:04	07/24/23 00:58	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			07/24/23 08:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	90.3		50.0	mg/Kg			08/01/23 10:34	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 *- *1	50.0	mg/Kg		07/25/23 14:23	08/01/23 04:16	1
Diesel Range Organics (Over C10-C28)	90.3		50.0	mg/Kg		07/25/23 14:23	08/01/23 04:16	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/25/23 14:23	08/01/23 04:16	1
Total TPH	90.3		50.0	mg/Kg		07/25/23 14:23	08/01/23 04:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130			07/25/23 14:23	08/01/23 04:16	1
o-Terphenyl	102		70 - 130			07/25/23 14:23	08/01/23 04:16	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Aircobra 12 State 002H

Job ID: 890-4952-1
SDG: 03D2024201

Client Sample ID: FS15

Lab Sample ID: 890-4952-17

Date Collected: 07/14/23 13:20

Matrix: Solid

Date Received: 07/14/23 15:27

Sample Depth: 0.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	128		5.01	mg/Kg			07/19/23 15:38	1

Client Sample ID: FS16

Lab Sample ID: 890-4952-18

Date Collected: 07/14/23 13:25

Matrix: Solid

Date Received: 07/14/23 15:27

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		07/19/23 15:04	07/24/23 01:19	1
Toluene	<0.00199	U	0.00199	mg/Kg		07/19/23 15:04	07/24/23 01:19	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		07/19/23 15:04	07/24/23 01:19	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		07/19/23 15:04	07/24/23 01:19	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		07/19/23 15:04	07/24/23 01:19	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		07/19/23 15:04	07/24/23 01:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			07/19/23 15:04	07/24/23 01:19	1
1,4-Difluorobenzene (Surr)	106		70 - 130			07/19/23 15:04	07/24/23 01:19	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			07/24/23 08:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	87.0		50.1	mg/Kg			08/01/23 10:34	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	<50.1	U *- *1	50.1	mg/Kg		07/25/23 14:23	08/01/23 04:37	1
Diesel Range Organics (Over C10-C28)	87.0		50.1	mg/Kg		07/25/23 14:23	08/01/23 04:37	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		07/25/23 14:23	08/01/23 04:37	1
Total TPH	87.0		50.1	mg/Kg		07/25/23 14:23	08/01/23 04:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130			07/25/23 14:23	08/01/23 04:37	1
o-Terphenyl	100		70 - 130			07/25/23 14:23	08/01/23 04:37	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	117		4.99	mg/Kg			07/19/23 15:44	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Aircobra 12 State 002H

Job ID: 890-4952-1
SDG: 03D2024201

Client Sample ID: FS17

Lab Sample ID: 890-4952-19

Date Collected: 07/14/23 13:30

Matrix: Solid

Date Received: 07/14/23 15:27

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		07/19/23 15:04	07/24/23 01:39	1
Toluene	<0.00198	U	0.00198	mg/Kg		07/19/23 15:04	07/24/23 01:39	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		07/19/23 15:04	07/24/23 01:39	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		07/19/23 15:04	07/24/23 01:39	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		07/19/23 15:04	07/24/23 01:39	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		07/19/23 15:04	07/24/23 01:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	07/19/23 15:04	07/24/23 01:39	1
1,4-Difluorobenzene (Surr)	108		70 - 130	07/19/23 15:04	07/24/23 01:39	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			07/24/23 08:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	330		50.4	mg/Kg			08/01/23 10:34	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	<50.4	U *- *1	50.4	mg/Kg		07/25/23 14:23	08/01/23 03:55	1
Diesel Range Organics (Over C10-C28)	330		50.4	mg/Kg		07/25/23 14:23	08/01/23 03:55	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg		07/25/23 14:23	08/01/23 03:55	1
Total TPH	330		50.4	mg/Kg		07/25/23 14:23	08/01/23 03:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	07/25/23 14:23	08/01/23 03:55	1
o-Terphenyl	94		70 - 130	07/25/23 14:23	08/01/23 03:55	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	69.6		4.99	mg/Kg			07/19/23 15:50	1

Eurofins Carlsbad

Surrogate Summary

Client: Ensolum
Project/Site: Aircobra 12 State 002H

Job ID: 890-4952-1
SDG: 03D2024201

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-4952-1	SS01A	85	108
890-4952-1 MS	SS01A	99	110
890-4952-1 MSD	SS01A	91	107
890-4952-2	SS02A	91	113
890-4952-3	FS01	96	111
890-4952-4	FS02	100	114
890-4952-5	FS03	95	105
890-4952-6	FS04	93	110
890-4952-7	FS05	99	115
890-4952-8	FS06	93	108
890-4952-9	FS07	94	112
890-4952-10	FS08	92	112
890-4952-11	FS09	94	95
890-4952-12	FS10	96	111
890-4952-13	FS11	97	114
890-4952-14	FS12	99	110
890-4952-15	FS13	93	111
890-4952-16	FS14	96	107
890-4952-17	FS15	95	108
890-4952-18	FS16	102	106
890-4952-19	FS17	101	108
LCS 880-58055/1-A	Lab Control Sample	107	105
LCSD 880-58055/2-A	Lab Control Sample Dup	96	102
MB 880-57843/5-A	Method Blank	89	90
MB 880-58055/5-A	Method Blank	82	94
Surrogate Legend			
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)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-4952-1	SS01A	114	103
890-4952-1 MS	SS01A	100	80
890-4952-1 MSD	SS01A	103	83
890-4952-2	SS02A	115	103
890-4952-3	FS01	115	103
890-4952-4	FS02	117	102
890-4952-5	FS03	118	106
890-4952-6	FS04	125	113
890-4952-7	FS05	111	99
890-4952-8	FS06	122	110
890-4952-9	FS07	124	109
890-4952-10	FS08	116	101
890-4952-11	FS09	129	112
890-4952-12	FS10	129	117

Eurofins Carlsbad

Surrogate Summary

Client: Ensolum
Project/Site: Aircobra 12 State 002H

Job ID: 890-4952-1
SDG: 03D2024201

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-4952-13	FS11	114	102
890-4952-14	FS12	111	99
890-4952-15	FS13	122	106
890-4952-16	FS14	112	96
890-4952-17	FS15	114	102
890-4952-18	FS16	116	100
890-4952-19	FS17	107	94
LCS 880-58486/2-A	Lab Control Sample	95	100
LCSD 880-58486/3-A	Lab Control Sample Dup	112	110
MB 880-58486/1-A	Method Blank	156 S1+	143 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum
Project/Site: Aircobra 12 State 002H

Job ID: 890-4952-1
SDG: 03D2024201

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-57843/5-A

Matrix: Solid

Analysis Batch: 58258

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 57843

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/17/23 13:25	07/23/23 07:21	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/17/23 13:25	07/23/23 07:21	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/17/23 13:25	07/23/23 07:21	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/17/23 13:25	07/23/23 07:21	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/17/23 13:25	07/23/23 07:21	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/17/23 13:25	07/23/23 07:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	07/17/23 13:25	07/23/23 07:21	1
1,4-Difluorobenzene (Surr)	90		70 - 130	07/17/23 13:25	07/23/23 07:21	1

Lab Sample ID: MB 880-58055/5-A

Matrix: Solid

Analysis Batch: 58258

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 58055

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/19/23 15:04	07/23/23 18:03	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/19/23 15:04	07/23/23 18:03	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/19/23 15:04	07/23/23 18:03	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/19/23 15:04	07/23/23 18:03	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/19/23 15:04	07/23/23 18:03	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/19/23 15:04	07/23/23 18:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130	07/19/23 15:04	07/23/23 18:03	1
1,4-Difluorobenzene (Surr)	94		70 - 130	07/19/23 15:04	07/23/23 18:03	1

Lab Sample ID: LCS 880-58055/1-A

Matrix: Solid

Analysis Batch: 58258

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 58055

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1017		mg/Kg		102	70 - 130
Toluene	0.100	0.1106		mg/Kg		111	70 - 130
Ethylbenzene	0.100	0.1038		mg/Kg		104	70 - 130
m-Xylene & p-Xylene	0.200	0.2019		mg/Kg		101	70 - 130
o-Xylene	0.100	0.1024		mg/Kg		102	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: LCSD 880-58055/2-A

Matrix: Solid

Analysis Batch: 58258

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 58055

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09718		mg/Kg		97	70 - 130	5	35

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
Project/Site: Aircobra 12 State 002H

Job ID: 890-4952-1
SDG: 03D2024201

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

Lab Sample ID: LCSD 880-58055/2-A

Matrix: Solid

Analysis Batch: 58258

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 58055

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.1019		mg/Kg		102	70 - 130	8	35
Ethylbenzene	0.100	0.09294		mg/Kg		93	70 - 130	11	35
m-Xylene & p-Xylene	0.200	0.1797		mg/Kg		90	70 - 130	12	35
o-Xylene	0.100	0.09024		mg/Kg		90	70 - 130	13	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 890-4952-1 MS

Matrix: Solid

Analysis Batch: 58258

Client Sample ID: SS01A

Prep Type: Total/NA

Prep Batch: 58055

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00202	U	0.0994	0.08493		mg/Kg		85	70 - 130
Toluene	0.0194	F1	0.0994	0.08694	F1	mg/Kg		68	70 - 130
Ethylbenzene	<0.00202	U F1	0.0994	0.06355	F1	mg/Kg		64	70 - 130
m-Xylene & p-Xylene	<0.00404	U F1	0.199	0.1211	F1	mg/Kg		61	70 - 130
o-Xylene	<0.00202	U F1	0.0994	0.06146	F1	mg/Kg		61	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	110		70 - 130

Lab Sample ID: 890-4952-1 MSD

Matrix: Solid

Analysis Batch: 58258

Client Sample ID: SS01A

Prep Type: Total/NA

Prep Batch: 58055

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.0998	0.08019		mg/Kg		80	70 - 130	6	35
Toluene	0.0194	F1	0.0998	0.08089	F1	mg/Kg		62	70 - 130	7	35
Ethylbenzene	<0.00202	U F1	0.0998	0.06012	F1	mg/Kg		60	70 - 130	6	35
m-Xylene & p-Xylene	<0.00404	U F1	0.200	0.1133	F1	mg/Kg		57	70 - 130	7	35
o-Xylene	<0.00202	U F1	0.0998	0.05718	F1	mg/Kg		57	70 - 130	7	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

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

Lab Sample ID: MB 880-58486/1-A

Matrix: Solid

Analysis Batch: 58813

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 58486

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/25/23 14:23	07/31/23 19:53	1

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
Project/Site: Aircobra 12 State 002H

Job ID: 890-4952-1
SDG: 03D2024201

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

Lab Sample ID: MB 880-58486/1-A

Matrix: Solid

Analysis Batch: 58813

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 58486

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/25/23 14:23	07/31/23 19:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/25/23 14:23	07/31/23 19:53	1
Total TPH	<50.0	U	50.0	mg/Kg		07/25/23 14:23	07/31/23 19:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	156	S1+	70 - 130	07/25/23 14:23	07/31/23 19:53	1
o-Terphenyl	143	S1+	70 - 130	07/25/23 14:23	07/31/23 19:53	1

Lab Sample ID: LCS 880-58486/2-A

Matrix: Solid

Analysis Batch: 58813

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 58486

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	519.3	*-	mg/Kg		52	70 - 130
Diesel Range Organics (Over C10-C28)	1000	883.1		mg/Kg		88	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	100		70 - 130

Lab Sample ID: LCSD 880-58486/3-A

Matrix: Solid

Analysis Batch: 58813

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 58486

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	678.2	*- *1	mg/Kg		68	70 - 130	27	20
Diesel Range Organics (Over C10-C28)	1000	1050		mg/Kg		105	70 - 130	17	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	112		70 - 130
o-Terphenyl	110		70 - 130

Lab Sample ID: 890-4952-1 MS

Matrix: Solid

Analysis Batch: 58813

Client Sample ID: SS01A

Prep Type: Total/NA

Prep Batch: 58486

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.3	U *- *1	998	728.0		mg/Kg		73	70 - 130
Diesel Range Organics (Over C10-C28)	608	F1	998	1258	F1	mg/Kg		65	70 - 130

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

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
Project/Site: Aircobra 12 State 002H

Job ID: 890-4952-1
SDG: 03D2024201

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

Lab Sample ID: 890-4952-1 MS

Matrix: Solid

Analysis Batch: 58813

Client Sample ID: SS01A

Prep Type: Total/NA

Prep Batch: 58486

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl	80		70 - 130

Lab Sample ID: 890-4952-1 MSD

Matrix: Solid

Analysis Batch: 58813

Client Sample ID: SS01A

Prep Type: Total/NA

Prep Batch: 58486

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<50.3	U *- *1	998	741.8		mg/Kg		74	70 - 130	2	20	
Diesel Range Organics (Over C10-C28)	608	F1	998	1304		mg/Kg		70	70 - 130	4	20	

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	103		70 - 130
<i>o</i> -Terphenyl	83		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-57877/1-A

Matrix: Solid

Analysis Batch: 58041

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	<5.00	U	5.00	mg/Kg			07/19/23 12:52	1		

Lab Sample ID: LCS 880-57877/2-A

Matrix: Solid

Analysis Batch: 58041

Client Sample ID: Lab Control Sample

Prep Type: Soluble

	Spike	LCS	LCS				%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	250	242.0		mg/Kg		97	90 - 110		

Lab Sample ID: LCSD 880-57877/3-A

Matrix: Solid

Analysis Batch: 58041

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	242.5		mg/Kg		97	90 - 110	0	20	

Lab Sample ID: 890-4952-1 MS

Matrix: Solid

Analysis Batch: 58041

Client Sample ID: SS01A

Prep Type: Soluble

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	67.9		251	312.6		mg/Kg		98	90 - 110		

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
Project/Site: Aircobra 12 State 002H

Job ID: 890-4952-1
SDG: 03D2024201

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-4952-1 MSD Matrix: Solid Analysis Batch: 58041										Client Sample ID: SS01A Prep Type: Soluble		
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	67.9		251	312.9		mg/Kg		98	90 - 110	0	20	

Lab Sample ID: 890-4952-11 MS Matrix: Solid Analysis Batch: 58041										Client Sample ID: FS09 Prep Type: Soluble		
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits			
Chloride	169		249	394.1		mg/Kg		91	90 - 110			

Lab Sample ID: 890-4952-11 MSD Matrix: Solid Analysis Batch: 58041										Client Sample ID: FS09 Prep Type: Soluble		
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	169		249	393.5		mg/Kg		90	90 - 110	0	20	

QC Association Summary

Client: Ensolum
Project/Site: Aircobra 12 State 002H

Job ID: 890-4952-1
SDG: 03D2024201

GC VOA

Prep Batch: 57843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-57843/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 58055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4952-1	SS01A	Total/NA	Solid	5035	
890-4952-2	SS02A	Total/NA	Solid	5035	
890-4952-3	FS01	Total/NA	Solid	5035	
890-4952-4	FS02	Total/NA	Solid	5035	
890-4952-5	FS03	Total/NA	Solid	5035	
890-4952-6	FS04	Total/NA	Solid	5035	
890-4952-7	FS05	Total/NA	Solid	5035	
890-4952-8	FS06	Total/NA	Solid	5035	
890-4952-9	FS07	Total/NA	Solid	5035	
890-4952-10	FS08	Total/NA	Solid	5035	
890-4952-11	FS09	Total/NA	Solid	5035	
890-4952-12	FS10	Total/NA	Solid	5035	
890-4952-13	FS11	Total/NA	Solid	5035	
890-4952-14	FS12	Total/NA	Solid	5035	
890-4952-15	FS13	Total/NA	Solid	5035	
890-4952-16	FS14	Total/NA	Solid	5035	
890-4952-17	FS15	Total/NA	Solid	5035	
890-4952-18	FS16	Total/NA	Solid	5035	
890-4952-19	FS17	Total/NA	Solid	5035	
MB 880-58055/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-58055/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-58055/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4952-1 MS	SS01A	Total/NA	Solid	5035	
890-4952-1 MSD	SS01A	Total/NA	Solid	5035	

Analysis Batch: 58258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4952-1	SS01A	Total/NA	Solid	8021B	58055
890-4952-2	SS02A	Total/NA	Solid	8021B	58055
890-4952-3	FS01	Total/NA	Solid	8021B	58055
890-4952-4	FS02	Total/NA	Solid	8021B	58055
890-4952-5	FS03	Total/NA	Solid	8021B	58055
890-4952-6	FS04	Total/NA	Solid	8021B	58055
890-4952-7	FS05	Total/NA	Solid	8021B	58055
890-4952-8	FS06	Total/NA	Solid	8021B	58055
890-4952-9	FS07	Total/NA	Solid	8021B	58055
890-4952-10	FS08	Total/NA	Solid	8021B	58055
890-4952-11	FS09	Total/NA	Solid	8021B	58055
890-4952-12	FS10	Total/NA	Solid	8021B	58055
890-4952-13	FS11	Total/NA	Solid	8021B	58055
890-4952-14	FS12	Total/NA	Solid	8021B	58055
890-4952-15	FS13	Total/NA	Solid	8021B	58055
890-4952-16	FS14	Total/NA	Solid	8021B	58055
890-4952-17	FS15	Total/NA	Solid	8021B	58055
890-4952-18	FS16	Total/NA	Solid	8021B	58055
890-4952-19	FS17	Total/NA	Solid	8021B	58055
MB 880-57843/5-A	Method Blank	Total/NA	Solid	8021B	57843

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: Aircobra 12 State 002H

Job ID: 890-4952-1
SDG: 03D2024201

GC VOA (Continued)

Analysis Batch: 58258 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-58055/5-A	Method Blank	Total/NA	Solid	8021B	58055
LCS 880-58055/1-A	Lab Control Sample	Total/NA	Solid	8021B	58055
LCSD 880-58055/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	58055
890-4952-1 MS	SS01A	Total/NA	Solid	8021B	58055
890-4952-1 MSD	SS01A	Total/NA	Solid	8021B	58055

Analysis Batch: 58301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4952-1	SS01A	Total/NA	Solid	Total BTEX	
890-4952-2	SS02A	Total/NA	Solid	Total BTEX	
890-4952-3	FS01	Total/NA	Solid	Total BTEX	
890-4952-4	FS02	Total/NA	Solid	Total BTEX	
890-4952-5	FS03	Total/NA	Solid	Total BTEX	
890-4952-6	FS04	Total/NA	Solid	Total BTEX	
890-4952-7	FS05	Total/NA	Solid	Total BTEX	
890-4952-8	FS06	Total/NA	Solid	Total BTEX	
890-4952-9	FS07	Total/NA	Solid	Total BTEX	
890-4952-10	FS08	Total/NA	Solid	Total BTEX	
890-4952-11	FS09	Total/NA	Solid	Total BTEX	
890-4952-12	FS10	Total/NA	Solid	Total BTEX	
890-4952-13	FS11	Total/NA	Solid	Total BTEX	
890-4952-14	FS12	Total/NA	Solid	Total BTEX	
890-4952-15	FS13	Total/NA	Solid	Total BTEX	
890-4952-16	FS14	Total/NA	Solid	Total BTEX	
890-4952-17	FS15	Total/NA	Solid	Total BTEX	
890-4952-18	FS16	Total/NA	Solid	Total BTEX	
890-4952-19	FS17	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 58486

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4952-1	SS01A	Total/NA	Solid	8015NM Prep	
890-4952-2	SS02A	Total/NA	Solid	8015NM Prep	
890-4952-3	FS01	Total/NA	Solid	8015NM Prep	
890-4952-4	FS02	Total/NA	Solid	8015NM Prep	
890-4952-5	FS03	Total/NA	Solid	8015NM Prep	
890-4952-6	FS04	Total/NA	Solid	8015NM Prep	
890-4952-7	FS05	Total/NA	Solid	8015NM Prep	
890-4952-8	FS06	Total/NA	Solid	8015NM Prep	
890-4952-9	FS07	Total/NA	Solid	8015NM Prep	
890-4952-10	FS08	Total/NA	Solid	8015NM Prep	
890-4952-11	FS09	Total/NA	Solid	8015NM Prep	
890-4952-12	FS10	Total/NA	Solid	8015NM Prep	
890-4952-13	FS11	Total/NA	Solid	8015NM Prep	
890-4952-14	FS12	Total/NA	Solid	8015NM Prep	
890-4952-15	FS13	Total/NA	Solid	8015NM Prep	
890-4952-16	FS14	Total/NA	Solid	8015NM Prep	
890-4952-17	FS15	Total/NA	Solid	8015NM Prep	
890-4952-18	FS16	Total/NA	Solid	8015NM Prep	
890-4952-19	FS17	Total/NA	Solid	8015NM Prep	

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: Aircobra 12 State 002H

Job ID: 890-4952-1
SDG: 03D2024201

GC Semi VOA (Continued)

Prep Batch: 58486 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-58486/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-58486/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-58486/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4952-1 MS	SS01A	Total/NA	Solid	8015NM Prep	
890-4952-1 MSD	SS01A	Total/NA	Solid	8015NM Prep	

Analysis Batch: 58813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4952-1	SS01A	Total/NA	Solid	8015B NM	58486
890-4952-2	SS02A	Total/NA	Solid	8015B NM	58486
890-4952-3	FS01	Total/NA	Solid	8015B NM	58486
890-4952-4	FS02	Total/NA	Solid	8015B NM	58486
890-4952-5	FS03	Total/NA	Solid	8015B NM	58486
890-4952-6	FS04	Total/NA	Solid	8015B NM	58486
890-4952-7	FS05	Total/NA	Solid	8015B NM	58486
890-4952-8	FS06	Total/NA	Solid	8015B NM	58486
890-4952-9	FS07	Total/NA	Solid	8015B NM	58486
890-4952-10	FS08	Total/NA	Solid	8015B NM	58486
890-4952-11	FS09	Total/NA	Solid	8015B NM	58486
890-4952-12	FS10	Total/NA	Solid	8015B NM	58486
890-4952-13	FS11	Total/NA	Solid	8015B NM	58486
890-4952-14	FS12	Total/NA	Solid	8015B NM	58486
890-4952-15	FS13	Total/NA	Solid	8015B NM	58486
890-4952-16	FS14	Total/NA	Solid	8015B NM	58486
890-4952-17	FS15	Total/NA	Solid	8015B NM	58486
890-4952-18	FS16	Total/NA	Solid	8015B NM	58486
890-4952-19	FS17	Total/NA	Solid	8015B NM	58486
MB 880-58486/1-A	Method Blank	Total/NA	Solid	8015B NM	58486
LCS 880-58486/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	58486
LCSD 880-58486/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	58486
890-4952-1 MS	SS01A	Total/NA	Solid	8015B NM	58486
890-4952-1 MSD	SS01A	Total/NA	Solid	8015B NM	58486

Analysis Batch: 58993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4952-1	SS01A	Total/NA	Solid	8015 NM	
890-4952-2	SS02A	Total/NA	Solid	8015 NM	
890-4952-3	FS01	Total/NA	Solid	8015 NM	
890-4952-4	FS02	Total/NA	Solid	8015 NM	
890-4952-5	FS03	Total/NA	Solid	8015 NM	
890-4952-6	FS04	Total/NA	Solid	8015 NM	
890-4952-7	FS05	Total/NA	Solid	8015 NM	
890-4952-8	FS06	Total/NA	Solid	8015 NM	
890-4952-9	FS07	Total/NA	Solid	8015 NM	
890-4952-10	FS08	Total/NA	Solid	8015 NM	
890-4952-11	FS09	Total/NA	Solid	8015 NM	
890-4952-12	FS10	Total/NA	Solid	8015 NM	
890-4952-13	FS11	Total/NA	Solid	8015 NM	
890-4952-14	FS12	Total/NA	Solid	8015 NM	
890-4952-15	FS13	Total/NA	Solid	8015 NM	
890-4952-16	FS14	Total/NA	Solid	8015 NM	

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: Aircobra 12 State 002H

Job ID: 890-4952-1
SDG: 03D2024201

GC Semi VOA (Continued)

Analysis Batch: 58993 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4952-17	FS15	Total/NA	Solid	8015 NM	
890-4952-18	FS16	Total/NA	Solid	8015 NM	
890-4952-19	FS17	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 57877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4952-1	SS01A	Soluble	Solid	DI Leach	
890-4952-2	SS02A	Soluble	Solid	DI Leach	
890-4952-3	FS01	Soluble	Solid	DI Leach	
890-4952-4	FS02	Soluble	Solid	DI Leach	
890-4952-5	FS03	Soluble	Solid	DI Leach	
890-4952-6	FS04	Soluble	Solid	DI Leach	
890-4952-7	FS05	Soluble	Solid	DI Leach	
890-4952-8	FS06	Soluble	Solid	DI Leach	
890-4952-9	FS07	Soluble	Solid	DI Leach	
890-4952-10	FS08	Soluble	Solid	DI Leach	
890-4952-11	FS09	Soluble	Solid	DI Leach	
890-4952-12	FS10	Soluble	Solid	DI Leach	
890-4952-13	FS11	Soluble	Solid	DI Leach	
890-4952-14	FS12	Soluble	Solid	DI Leach	
890-4952-15	FS13	Soluble	Solid	DI Leach	
890-4952-16	FS14	Soluble	Solid	DI Leach	
890-4952-17	FS15	Soluble	Solid	DI Leach	
890-4952-18	FS16	Soluble	Solid	DI Leach	
890-4952-19	FS17	Soluble	Solid	DI Leach	
MB 880-57877/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-57877/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-57877/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4952-1 MS	SS01A	Soluble	Solid	DI Leach	
890-4952-1 MSD	SS01A	Soluble	Solid	DI Leach	
890-4952-11 MS	FS09	Soluble	Solid	DI Leach	
890-4952-11 MSD	FS09	Soluble	Solid	DI Leach	

Analysis Batch: 58041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4952-1	SS01A	Soluble	Solid	300.0	57877
890-4952-2	SS02A	Soluble	Solid	300.0	57877
890-4952-3	FS01	Soluble	Solid	300.0	57877
890-4952-4	FS02	Soluble	Solid	300.0	57877
890-4952-5	FS03	Soluble	Solid	300.0	57877
890-4952-6	FS04	Soluble	Solid	300.0	57877
890-4952-7	FS05	Soluble	Solid	300.0	57877
890-4952-8	FS06	Soluble	Solid	300.0	57877
890-4952-9	FS07	Soluble	Solid	300.0	57877
890-4952-10	FS08	Soluble	Solid	300.0	57877
890-4952-11	FS09	Soluble	Solid	300.0	57877
890-4952-12	FS10	Soluble	Solid	300.0	57877
890-4952-13	FS11	Soluble	Solid	300.0	57877
890-4952-14	FS12	Soluble	Solid	300.0	57877

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: Aircobra 12 State 002H

Job ID: 890-4952-1
SDG: 03D2024201

HPLC/IC (Continued)

Analysis Batch: 58041 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4952-15	FS13	Soluble	Solid	300.0	57877
890-4952-16	FS14	Soluble	Solid	300.0	57877
890-4952-17	FS15	Soluble	Solid	300.0	57877
890-4952-18	FS16	Soluble	Solid	300.0	57877
890-4952-19	FS17	Soluble	Solid	300.0	57877
MB 880-57877/1-A	Method Blank	Soluble	Solid	300.0	57877
LCS 880-57877/2-A	Lab Control Sample	Soluble	Solid	300.0	57877
LCSD 880-57877/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	57877
890-4952-1 MS	SS01A	Soluble	Solid	300.0	57877
890-4952-1 MSD	SS01A	Soluble	Solid	300.0	57877
890-4952-11 MS	FS09	Soluble	Solid	300.0	57877
890-4952-11 MSD	FS09	Soluble	Solid	300.0	57877

Lab Chronicle

Client: Ensolum
Project/Site: Aircobra 12 State 002H

Job ID: 890-4952-1
SDG: 03D2024201

Client Sample ID: SS01A

Lab Sample ID: 890-4952-1

Date Collected: 07/13/23 09:30

Matrix: Solid

Date Received: 07/14/23 15:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	58055	07/19/23 15:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58258	07/23/23 18:25	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58301	07/24/23 08:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			58993	08/01/23 10:34	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	58486	07/25/23 14:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58813	07/31/23 20:57	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	57877	07/17/23 15:04	KS	EET MID
Soluble	Analysis	300.0		1			58041	07/19/23 13:11	CH	EET MID

Client Sample ID: SS02A

Lab Sample ID: 890-4952-2

Date Collected: 07/13/23 09:35

Matrix: Solid

Date Received: 07/14/23 15:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	58055	07/19/23 15:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58258	07/23/23 18:46	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58301	07/24/23 08:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			58993	08/01/23 10:34	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	58486	07/25/23 14:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58813	07/31/23 21:59	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	57877	07/17/23 15:04	KS	EET MID
Soluble	Analysis	300.0		1			58041	07/19/23 13:29	CH	EET MID

Client Sample ID: FS01

Lab Sample ID: 890-4952-3

Date Collected: 07/14/23 10:30

Matrix: Solid

Date Received: 07/14/23 15:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	58055	07/19/23 15:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58258	07/23/23 19:07	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58301	07/24/23 08:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			58993	08/01/23 10:34	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	58486	07/25/23 14:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58813	07/31/23 22:20	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	57877	07/17/23 15:04	KS	EET MID
Soluble	Analysis	300.0		1			58041	07/19/23 13:35	CH	EET MID

Client Sample ID: FS02

Lab Sample ID: 890-4952-4

Date Collected: 07/14/23 10:40

Matrix: Solid

Date Received: 07/14/23 15:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	58055	07/19/23 15:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58258	07/23/23 19:27	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58301	07/24/23 08:47	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: Aircobra 12 State 002H

Job ID: 890-4952-1
SDG: 03D2024201

Client Sample ID: FS02

Lab Sample ID: 890-4952-4

Date Collected: 07/14/23 10:40

Matrix: Solid

Date Received: 07/14/23 15:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			58993	08/01/23 10:34	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	58486	07/25/23 14:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58813	07/31/23 22:41	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	57877	07/17/23 15:04	KS	EET MID
Soluble	Analysis	300.0		1			58041	07/19/23 13:42	CH	EET MID

Client Sample ID: FS03

Lab Sample ID: 890-4952-5

Date Collected: 07/14/23 11:00

Matrix: Solid

Date Received: 07/14/23 15:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	58055	07/19/23 15:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58258	07/23/23 19:48	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58301	07/24/23 08:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			58993	08/01/23 10:34	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	58486	07/25/23 14:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58813	07/31/23 23:02	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	57877	07/17/23 15:04	KS	EET MID
Soluble	Analysis	300.0		1			58041	07/19/23 13:48	CH	EET MID

Client Sample ID: FS04

Lab Sample ID: 890-4952-6

Date Collected: 07/14/23 11:05

Matrix: Solid

Date Received: 07/14/23 15:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	58055	07/19/23 15:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58258	07/23/23 20:09	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58301	07/24/23 08:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			58993	08/01/23 10:34	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	58486	07/25/23 14:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58813	07/31/23 23:23	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	57877	07/17/23 15:04	KS	EET MID
Soluble	Analysis	300.0		1			58041	07/19/23 14:06	CH	EET MID

Client Sample ID: FS05

Lab Sample ID: 890-4952-7

Date Collected: 07/14/23 11:10

Matrix: Solid

Date Received: 07/14/23 15:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	58055	07/19/23 15:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58258	07/23/23 20:29	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58301	07/24/23 08:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			58993	08/01/23 10:34	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	58486	07/25/23 14:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58813	07/31/23 23:43	AJ	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: Aircobra 12 State 002H

Job ID: 890-4952-1
SDG: 03D2024201

Client Sample ID: FS05
Date Collected: 07/14/23 11:10
Date Received: 07/14/23 15:27

Lab Sample ID: 890-4952-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	57877	07/17/23 15:04	KS	EET MID
Soluble	Analysis	300.0		1			58041	07/19/23 14:12	CH	EET MID

Client Sample ID: FS06
Date Collected: 07/14/23 11:15
Date Received: 07/14/23 15:27

Lab Sample ID: 890-4952-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	58055	07/19/23 15:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58258	07/23/23 20:50	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58301	07/24/23 08:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			58993	08/01/23 10:34	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	58486	07/25/23 14:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58813	08/01/23 00:04	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	57877	07/17/23 15:04	KS	EET MID
Soluble	Analysis	300.0		1			58041	07/19/23 14:18	CH	EET MID

Client Sample ID: FS07
Date Collected: 07/14/23 11:20
Date Received: 07/14/23 15:27

Lab Sample ID: 890-4952-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	58055	07/19/23 15:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58258	07/23/23 21:11	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58301	07/24/23 08:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			58993	08/01/23 10:34	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	58486	07/25/23 14:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58813	08/01/23 00:25	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	57877	07/17/23 15:04	KS	EET MID
Soluble	Analysis	300.0		1			58041	07/19/23 14:24	CH	EET MID

Client Sample ID: FS08
Date Collected: 07/14/23 12:45
Date Received: 07/14/23 15:27

Lab Sample ID: 890-4952-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	58055	07/19/23 15:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58258	07/23/23 21:31	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58301	07/24/23 08:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			58993	08/01/23 10:34	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	58486	07/25/23 14:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58813	08/01/23 00:46	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	57877	07/17/23 15:04	KS	EET MID
Soluble	Analysis	300.0		1			58041	07/19/23 14:31	CH	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Aircobra 12 State 002H

Job ID: 890-4952-1
SDG: 03D2024201

Client Sample ID: FS09
Date Collected: 07/14/23 12:50
Date Received: 07/14/23 15:27

Lab Sample ID: 890-4952-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	58055	07/19/23 15:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58258	07/23/23 22:54	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58301	07/24/23 08:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			58993	08/01/23 10:34	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	58486	07/25/23 14:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58813	08/01/23 01:28	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	57877	07/17/23 15:04	KS	EET MID
Soluble	Analysis	300.0		1			58041	07/19/23 14:37	CH	EET MID

Client Sample ID: FS10
Date Collected: 07/14/23 12:55
Date Received: 07/14/23 15:27

Lab Sample ID: 890-4952-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	58055	07/19/23 15:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58258	07/23/23 23:15	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58301	07/24/23 08:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			58993	08/01/23 10:34	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	58486	07/25/23 14:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58813	08/01/23 01:49	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	57877	07/17/23 15:04	KS	EET MID
Soluble	Analysis	300.0		1			58041	07/19/23 14:55	CH	EET MID

Client Sample ID: FS11
Date Collected: 07/14/23 13:00
Date Received: 07/14/23 15:27

Lab Sample ID: 890-4952-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	58055	07/19/23 15:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58258	07/23/23 23:35	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58301	07/24/23 08:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			58993	08/01/23 10:34	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	58486	07/25/23 14:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58813	08/01/23 02:10	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	57877	07/17/23 15:04	KS	EET MID
Soluble	Analysis	300.0		1			58041	07/19/23 15:01	CH	EET MID

Client Sample ID: FS12
Date Collected: 07/14/23 13:05
Date Received: 07/14/23 15:27

Lab Sample ID: 890-4952-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	58055	07/19/23 15:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58258	07/23/23 23:56	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58301	07/24/23 08:47	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: Aircobra 12 State 002H

Job ID: 890-4952-1
SDG: 03D2024201

Client Sample ID: FS12
Date Collected: 07/14/23 13:05
Date Received: 07/14/23 15:27

Lab Sample ID: 890-4952-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			58993	08/01/23 10:34	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	58486	07/25/23 14:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58813	08/01/23 02:52	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	57877	07/17/23 15:04	KS	EET MID
Soluble	Analysis	300.0		1			58041	07/19/23 15:20	CH	EET MID

Client Sample ID: FS13
Date Collected: 07/14/23 13:10
Date Received: 07/14/23 15:27

Lab Sample ID: 890-4952-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	58055	07/19/23 15:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58258	07/24/23 00:17	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58301	07/24/23 08:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			58993	08/01/23 10:34	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	58486	07/25/23 14:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58813	08/01/23 03:13	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	57877	07/17/23 15:04	KS	EET MID
Soluble	Analysis	300.0		1			58041	07/19/23 15:26	CH	EET MID

Client Sample ID: FS14
Date Collected: 07/14/23 13:15
Date Received: 07/14/23 15:27

Lab Sample ID: 890-4952-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	58055	07/19/23 15:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58258	07/24/23 00:37	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58301	07/24/23 08:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			58993	08/01/23 10:34	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	58486	07/25/23 14:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58813	08/01/23 03:34	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	57877	07/17/23 15:04	KS	EET MID
Soluble	Analysis	300.0		1			58041	07/19/23 15:32	CH	EET MID

Client Sample ID: FS15
Date Collected: 07/14/23 13:20
Date Received: 07/14/23 15:27

Lab Sample ID: 890-4952-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	58055	07/19/23 15:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58258	07/24/23 00:58	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58301	07/24/23 08:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			58993	08/01/23 10:34	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	58486	07/25/23 14:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58813	08/01/23 04:16	AJ	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: Aircobra 12 State 002H

Job ID: 890-4952-1
SDG: 03D2024201

Client Sample ID: FS15

Lab Sample ID: 890-4952-17

Date Collected: 07/14/23 13:20

Matrix: Solid

Date Received: 07/14/23 15:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	57877	07/17/23 15:04	KS	EET MID
Soluble	Analysis	300.0		1			58041	07/19/23 15:38	CH	EET MID

Client Sample ID: FS16

Lab Sample ID: 890-4952-18

Date Collected: 07/14/23 13:25

Matrix: Solid

Date Received: 07/14/23 15:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	58055	07/19/23 15:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58258	07/24/23 01:19	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58301	07/24/23 08:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			58993	08/01/23 10:34	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	58486	07/25/23 14:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58813	08/01/23 04:37	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	57877	07/17/23 15:04	KS	EET MID
Soluble	Analysis	300.0		1			58041	07/19/23 15:44	CH	EET MID

Client Sample ID: FS17

Lab Sample ID: 890-4952-19

Date Collected: 07/14/23 13:30

Matrix: Solid

Date Received: 07/14/23 15:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	58055	07/19/23 15:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58258	07/24/23 01:39	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58301	07/24/23 08:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			58993	08/01/23 10:34	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	58486	07/25/23 14:23	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58813	08/01/23 03:55	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	57877	07/17/23 15:04	KS	EET MID
Soluble	Analysis	300.0		1			58041	07/19/23 15:50	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: Aircobra 12 State 002H

Job ID: 890-4952-1
SDG: 03D2024201

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: Aircobra 12 State 002H

Job ID: 890-4952-1
SDG: 03D2024201

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: Aircobra 12 State 002H

Job ID: 890-4952-1
SDG: 03D2024201

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4952-1	SS01A	Solid	07/13/23 09:30	07/14/23 15:27	0.5
890-4952-2	SS02A	Solid	07/13/23 09:35	07/14/23 15:27	0.5
890-4952-3	FS01	Solid	07/14/23 10:30	07/14/23 15:27	0.5
890-4952-4	FS02	Solid	07/14/23 10:40	07/14/23 15:27	1.0
890-4952-5	FS03	Solid	07/14/23 11:00	07/14/23 15:27	1.0
890-4952-6	FS04	Solid	07/14/23 11:05	07/14/23 15:27	1.0
890-4952-7	FS05	Solid	07/14/23 11:10	07/14/23 15:27	1.0
890-4952-8	FS06	Solid	07/14/23 11:15	07/14/23 15:27	1.0
890-4952-9	FS07	Solid	07/14/23 11:20	07/14/23 15:27	1.0
890-4952-10	FS08	Solid	07/14/23 12:45	07/14/23 15:27	0.5
890-4952-11	FS09	Solid	07/14/23 12:50	07/14/23 15:27	0.5
890-4952-12	FS10	Solid	07/14/23 12:55	07/14/23 15:27	0.5
890-4952-13	FS11	Solid	07/14/23 13:00	07/14/23 15:27	0.5
890-4952-14	FS12	Solid	07/14/23 13:05	07/14/23 15:27	0.5
890-4952-15	FS13	Solid	07/14/23 13:10	07/14/23 15:27	0.5
890-4952-16	FS14	Solid	07/14/23 13:15	07/14/23 15:27	0.5
890-4952-17	FS15	Solid	07/14/23 13:20	07/14/23 15:27	0.5
890-4952-18	FS16	Solid	07/14/23 13:25	07/14/23 15:27	0.5
890-4952-19	FS17	Solid	07/14/23 13:30	07/14/23 15:27	0.5



Environment Testing
Xenco

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

Chain of Custody

Work Order No: _____

www.xenco.com Page 1 of 2

Project Manager:	Hadlie Green	Bill to: (if different)	Kalei Jennings
Company Name:	Ensolum, LLC	Company Name:	Ensolum, LLC
Address:	601 N Marientfield St Suite 400	Address:	601 N Marientfield St Suite 400
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-557-8895	Email:	hgreen@ensolum.com, kjennings@ensolum.com

Program: ☐ UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	Deliverables: EDD ☐ ADAPT ☐ Other: _____

Project Name:	Aircobra 12 State 002H	Turn Around	☒ Routine ☐ Rush	Pres. Code	
Project Number:	03D2024201	Due Date:			
Project Location:	32.6803, -103.51125	TAT starts the day received by the lab, if received by 4:30pm			
Sampler's Name:	Peter Van Patten				
PO #:					
SAMPLE RECEIPT	Temp Blank: ☒ Yes ☒ No	Wet Ice: ☒ Yes ☒ No			
Samples Received In tact:	☒ Yes ☒ No	Thermometer ID: <u>15W003</u>			
Cooler Custody Seals:	☒ Yes ☒ No	Correction Factor: <u>-0.2</u>			
Sample Custody Seals:	☒ Yes ☒ No	Temperature Reading: <u>3.4</u>			
Total Containers:		Corrected Temperature: <u>3.2</u>			

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)	ANALYSIS REQUEST	Preservative Codes	Sample Comments
SS01A	Soil	7/13/2023	930	0.5'	Comp	1	X	X	X		None: NO Cool: Cool HCL: HC H ₂ SO ₄ : H ₂ H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC	
SS02A	Soil	7/13/2023	935	0.5'	Comp	1	X	X	X			
FS01	Soil	7/14/2023	1030	0.5'	Comp	1	X	X	X			
FS02	Soil	7/14/2023	1040	1.0'	Comp	1	X	X	X			
FS03	Soil	7/14/2023	1100	1.0'	Comp	1	X	X	X			
FS04	Soil	7/14/2023	1105	1.0'	Comp	1	X	X	X			
FS05	Soil	7/14/2023	1110	1.0'	Comp	1	X	X	X			
FS06	Soil	7/14/2023	1115	1.0'	Comp	1	X	X	X			
FS07	Soil	7/14/2023	1120	1.0'	Comp	1	X	X	X			
FS08	Soil	7/14/2023	1245	0.5'	Comp	1	X	X	X			

Total 200.7 / 6010 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 Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<u>Peter Van Patten</u>	<u>Joe Wip</u>	7.14.23 1537			



Environment Testing
Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 968-3199

Work Order No:

www.xenco.com

Page 2 of 2

Project Manager:	Hadlie Green	Bill to: (if different)	Katei Jennings
Company Name:	Ensolum, LLC	Company Name:	Ensolum, LLC
Address:	601 N Marienfeld St Suite 400	Address:	601 N Marienfeld St Suite 400
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-557-8895	Email:	hgreen@ensolum.com, kjennings@ensolum.com

Work Order Comments			
Program:	UST/PST ☐	PRP ☐	Brownfields ☐ RRC ☐ Superfund ☐
State of Project:			
Reporting: Level II	☐	Level III	☐
		PST/UST	☐
		TRRP	☐
Level IV	☐		
Deliverables: EDD	☐	ADAPT	☐
		Other:	

Project Name:		Aircobra 12 State 002H		Turn Around		ANALYSIS REQUEST										Preservative Codes					
Project Number:		03D2024201		☒ Routine ☐ Rush												None: NO DI Water: H ₂ O					
Project Location:		32.6893, -103.51125		Due Date:												Cool: Cool MeOH: Me HCL: HC HNO ₃ : HN H ₂ SO ₄ : H ₂ NaOH: Na					
Sampler's Name:		Peter Van Patten		TAT starts the day received by the lab, if received by 4:30pm																	
PO #:																					
SAMPLE RECEIPT		Temp Blank:		Yes No		WetRe:		Yes No													
Samples Received Intact:		Yes No		Thermometer ID:																H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NaSO ₃	
Cooler Custody Seals:		Yes No		Correction Factor:																Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SACP	
Sample Custody Seals:		Yes No		N/A		Temperature Reading:															
Total Containers:						Corrected Temperature:															

[illegible]

Total 200.7 / 6010	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 Ag SiO ₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client. (Such losses are due to circumstances beyond the control 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.

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	<i>[Signature]</i>	<i>[Signature]</i>	7.14.23 1527			
2						
3						
4						
5						
6						

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4952-1

SDG Number: 03D2024201

Login Number: 4952

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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: 890-4952-1

SDG Number: 03D2024201

Login Number: 4952

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 07/18/23 11:21 AM

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



Environment Testing

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701
Generated 8/21/2023 2:35:18 PM

JOB DESCRIPTION

Aircobra 12 State 002h
SDG NUMBER 03D2024201

JOB NUMBER

890-5055-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

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

Authorization



Generated
8/21/2023 2:35:18 PM

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

Client: Ensolum
Project/Site: Aircobra 12 State 002h

Laboratory Job ID: 890-5055-1
SDG: 03D2024201

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	14
QC Sample Results	15
QC Association Summary	19
Lab Chronicle	22
Certification Summary	25
Method Summary	26
Sample Summary	27
Chain of Custody	28
Receipt Checklists	30

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Definitions/Glossary

Client: Ensolum
Project/Site: Aircobra 12 State 002h

Job ID: 890-5055-1
SDG: 03D2024201

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
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: Aircobra 12 State 002h

Job ID: 890-5055-1
SDG: 03D2024201

Job ID: 890-5055-1**Laboratory: Eurofins Carlsbad****Narrative****Job Narrative
890-5055-1****Receipt**

The samples were received on 8/8/2023 3:30 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 1.4°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: FS01A (890-5055-1), FS02A (890-5055-2), FS12A (890-5055-3), FS13A (890-5055-4), FS14A (890-5055-5), FS17A (890-5055-6), SS01B (890-5055-7), SS02B (890-5055-8) and FS18 (890-5055-9).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-60361/5-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following samples were outside control limits: FS01A (890-5055-1), FS12A (890-5055-3), FS14A (890-5055-5), FS17A (890-5055-6), SS01B (890-5055-7), SS02B (890-5055-8) and FS18 (890-5055-9). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-60389 and analytical batch 880-60609 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-60609/21), (CCV 880-60609/32), (CCV 880-60609/6) and (LCS 880-60389/2-A). 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.

Client Sample Results

Client: Ensolum
Project/Site: Aircobra 12 State 002h

Job ID: 890-5055-1
SDG: 03D2024201

Client Sample ID: FS01A

Lab Sample ID: 890-5055-1

Date Collected: 08/08/23 09:30

Matrix: Solid

Date Received: 08/08/23 15:30

Sample Depth: 1.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/16/23 13:49	08/16/23 23:41	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/16/23 13:49	08/16/23 23:41	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/16/23 13:49	08/16/23 23:41	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		08/16/23 13:49	08/16/23 23:41	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/16/23 13:49	08/16/23 23:41	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		08/16/23 13:49	08/16/23 23:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	08/16/23 13:49	08/16/23 23:41	1
1,4-Difluorobenzene (Surr)	59	S1-	70 - 130	08/16/23 13:49	08/16/23 23:41	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			08/17/23 09:48	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			08/21/23 11:32	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	<49.8	U	49.8	mg/Kg		08/16/23 14:53	08/19/23 13:10	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/16/23 14:53	08/19/23 13:10	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/16/23 14:53	08/19/23 13:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130	08/16/23 14:53	08/19/23 13:10	1
o-Terphenyl	103		70 - 130	08/16/23 14:53	08/19/23 13:10	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.9		5.02	mg/Kg			08/10/23 20:04	1

Client Sample ID: FS02A

Lab Sample ID: 890-5055-2

Date Collected: 08/08/23 09:40

Matrix: Solid

Date Received: 08/08/23 15:30

Sample Depth: 1.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		08/16/23 13:49	08/17/23 00:01	1
Toluene	<0.00202	U	0.00202	mg/Kg		08/16/23 13:49	08/17/23 00:01	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		08/16/23 13:49	08/17/23 00:01	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		08/16/23 13:49	08/17/23 00:01	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		08/16/23 13:49	08/17/23 00:01	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		08/16/23 13:49	08/17/23 00:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	08/16/23 13:49	08/17/23 00:01	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Aircobra 12 State 002h

Job ID: 890-5055-1
SDG: 03D2024201

Client Sample ID: FS02A

Lab Sample ID: 890-5055-2

Date Collected: 08/08/23 09:40

Matrix: Solid

Date Received: 08/08/23 15:30

Sample Depth: 1.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	79		70 - 130	08/16/23 13:49	08/17/23 00:01	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			08/17/23 09:48	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6	mg/Kg			08/21/23 11:32	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	<49.6	U	49.6	mg/Kg		08/16/23 14:53	08/19/23 13:32	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6	mg/Kg		08/16/23 14:53	08/19/23 13:32	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		08/16/23 14:53	08/19/23 13:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130			08/16/23 14:53	08/19/23 13:32	1
o-Terphenyl	105		70 - 130			08/16/23 14:53	08/19/23 13:32	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	47.0		5.00	mg/Kg			08/10/23 20:10	1

Client Sample ID: FS12A

Lab Sample ID: 890-5055-3

Date Collected: 08/08/23 10:20

Matrix: Solid

Date Received: 08/08/23 15:30

Sample Depth: 1.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		08/16/23 13:49	08/17/23 00:21	1
Toluene	<0.00201	U	0.00201	mg/Kg		08/16/23 13:49	08/17/23 00:21	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		08/16/23 13:49	08/17/23 00:21	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		08/16/23 13:49	08/17/23 00:21	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		08/16/23 13:49	08/17/23 00:21	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		08/16/23 13:49	08/17/23 00:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	08/16/23 13:49	08/17/23 00:21	1
1,4-Difluorobenzene (Surr)	55	S1-	70 - 130	08/16/23 13:49	08/17/23 00:21	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			08/17/23 09:48	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3	mg/Kg			08/21/23 11:32	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Aircobra 12 State 002h

Job ID: 890-5055-1
SDG: 03D2024201

Client Sample ID: FS12A

Lab Sample ID: 890-5055-3

Date Collected: 08/08/23 10:20

Matrix: Solid

Date Received: 08/08/23 15:30

Sample Depth: 1.5

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	<50.3	U	50.3	mg/Kg		08/16/23 14:53	08/19/23 13:54	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3	mg/Kg		08/16/23 14:53	08/19/23 13:54	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3	mg/Kg		08/16/23 14:53	08/19/23 13:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130			08/16/23 14:53	08/19/23 13:54	1
o-Terphenyl	101		70 - 130			08/16/23 14:53	08/19/23 13:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	25.8		4.97	mg/Kg			08/10/23 20:27	1

Client Sample ID: FS13A

Lab Sample ID: 890-5055-4

Date Collected: 08/08/23 11:00

Matrix: Solid

Date Received: 08/08/23 15:30

Sample Depth: 1.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/16/23 13:49	08/17/23 00:42	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/16/23 13:49	08/17/23 00:42	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/16/23 13:49	08/17/23 00:42	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		08/16/23 13:49	08/17/23 00:42	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/16/23 13:49	08/17/23 00:42	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		08/16/23 13:49	08/17/23 00:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130			08/16/23 13:49	08/17/23 00:42	1
1,4-Difluorobenzene (Surr)	77		70 - 130			08/16/23 13:49	08/17/23 00:42	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			08/17/23 09:48	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4	mg/Kg			08/21/23 11:32	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	<50.4	U	50.4	mg/Kg		08/16/23 14:53	08/19/23 14:15	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4	mg/Kg		08/16/23 14:53	08/19/23 14:15	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg		08/16/23 14:53	08/19/23 14:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130			08/16/23 14:53	08/19/23 14:15	1
o-Terphenyl	101		70 - 130			08/16/23 14:53	08/19/23 14:15	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Aircobra 12 State 002h

Job ID: 890-5055-1
SDG: 03D2024201

Client Sample ID: FS13A

Lab Sample ID: 890-5055-4

Date Collected: 08/08/23 11:00

Matrix: Solid

Date Received: 08/08/23 15:30

Sample Depth: 1.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	25.5		5.02	mg/Kg			08/10/23 20:33	1

Client Sample ID: FS14A

Lab Sample ID: 890-5055-5

Date Collected: 08/08/23 12:10

Matrix: Solid

Date Received: 08/08/23 15:30

Sample Depth: 1.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		08/16/23 13:49	08/17/23 01:02	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/16/23 13:49	08/17/23 01:02	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/16/23 13:49	08/17/23 01:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/16/23 13:49	08/17/23 01:02	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/16/23 13:49	08/17/23 01:02	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/16/23 13:49	08/17/23 01:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130			08/16/23 13:49	08/17/23 01:02	1
1,4-Difluorobenzene (Surr)	53	S1-	70 - 130			08/16/23 13:49	08/17/23 01:02	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			08/17/23 09:48	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4	mg/Kg			08/21/23 11:32	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	<50.4	U	50.4	mg/Kg		08/16/23 14:53	08/19/23 14:37	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4	mg/Kg		08/16/23 14:53	08/19/23 14:37	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg		08/16/23 14:53	08/19/23 14:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130			08/16/23 14:53	08/19/23 14:37	1
o-Terphenyl	100		70 - 130			08/16/23 14:53	08/19/23 14:37	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	48.1		5.02	mg/Kg			08/10/23 20:50	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Aircobra 12 State 002h

Job ID: 890-5055-1
SDG: 03D2024201

Client Sample ID: FS17A

Lab Sample ID: 890-5055-6

Date Collected: 08/08/23 12:30

Matrix: Solid

Date Received: 08/08/23 15:30

Sample Depth: 1.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		08/16/23 13:49	08/17/23 01:23	1
Toluene	<0.00198	U	0.00198	mg/Kg		08/16/23 13:49	08/17/23 01:23	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		08/16/23 13:49	08/17/23 01:23	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		08/16/23 13:49	08/17/23 01:23	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		08/16/23 13:49	08/17/23 01:23	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		08/16/23 13:49	08/17/23 01:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	08/16/23 13:49	08/17/23 01:23	1
1,4-Difluorobenzene (Surr)	58	S1-	70 - 130	08/16/23 13:49	08/17/23 01:23	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			08/17/23 09:48	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg			08/21/23 11:32	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	<50.1	U	50.1	mg/Kg		08/16/23 14:53	08/19/23 15:20	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1	mg/Kg		08/16/23 14:53	08/19/23 15:20	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		08/16/23 14:53	08/19/23 15:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130	08/16/23 14:53	08/19/23 15:20	1
o-Terphenyl	101		70 - 130	08/16/23 14:53	08/19/23 15:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	55.3		4.99	mg/Kg			08/10/23 20:55	1

Client Sample ID: SS01B

Lab Sample ID: 890-5055-7

Date Collected: 08/08/23 09:50

Matrix: Solid

Date Received: 08/08/23 15:30

Sample Depth: 1.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		08/16/23 13:49	08/17/23 01:43	1
Toluene	<0.00201	U	0.00201	mg/Kg		08/16/23 13:49	08/17/23 01:43	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		08/16/23 13:49	08/17/23 01:43	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		08/16/23 13:49	08/17/23 01:43	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		08/16/23 13:49	08/17/23 01:43	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		08/16/23 13:49	08/17/23 01:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	08/16/23 13:49	08/17/23 01:43	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Aircobra 12 State 002h

Job ID: 890-5055-1
SDG: 03D2024201

Client Sample ID: SS01B

Lab Sample ID: 890-5055-7

Date Collected: 08/08/23 09:50

Matrix: Solid

Date Received: 08/08/23 15:30

Sample Depth: 1.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	62	S1-	70 - 130	08/16/23 13:49	08/17/23 01:43	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			08/17/23 09:48	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			08/21/23 11:32	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	<49.8	U	49.8	mg/Kg		08/16/23 14:53	08/19/23 15:42	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/16/23 14:53	08/19/23 15:42	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/16/23 14:53	08/19/23 15:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130			08/16/23 14:53	08/19/23 15:42	1
o-Terphenyl	103		70 - 130			08/16/23 14:53	08/19/23 15:42	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	49.8		5.01	mg/Kg			08/10/23 21:01	1

Client Sample ID: SS02B

Lab Sample ID: 890-5055-8

Date Collected: 08/08/23 10:00

Matrix: Solid

Date Received: 08/08/23 15:30

Sample Depth: 1.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		08/16/23 13:49	08/17/23 02:03	1
Toluene	<0.00202	U	0.00202	mg/Kg		08/16/23 13:49	08/17/23 02:03	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		08/16/23 13:49	08/17/23 02:03	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		08/16/23 13:49	08/17/23 02:03	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		08/16/23 13:49	08/17/23 02:03	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		08/16/23 13:49	08/17/23 02:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	08/16/23 13:49	08/17/23 02:03	1
1,4-Difluorobenzene (Surr)	58	S1-	70 - 130	08/16/23 13:49	08/17/23 02:03	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			08/17/23 09:48	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			08/21/23 11:32	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Aircobra 12 State 002h

Job ID: 890-5055-1
SDG: 03D2024201

Client Sample ID: SS02B

Lab Sample ID: 890-5055-8

Date Collected: 08/08/23 10:00

Matrix: Solid

Date Received: 08/08/23 15:30

Sample Depth: 1.5

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		08/16/23 14:53	08/19/23 16:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/16/23 14:53	08/19/23 16:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/16/23 14:53	08/19/23 16:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130			08/16/23 14:53	08/19/23 16:03	1
o-Terphenyl	101		70 - 130			08/16/23 14:53	08/19/23 16:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	32.8		5.04	mg/Kg			08/10/23 21:07	1

Client Sample ID: FS18

Lab Sample ID: 890-5055-9

Date Collected: 08/08/23 12:45

Matrix: Solid

Date Received: 08/08/23 15:30

Sample Depth: 1.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		08/16/23 13:49	08/17/23 02:24	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/16/23 13:49	08/17/23 02:24	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/16/23 13:49	08/17/23 02:24	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/16/23 13:49	08/17/23 02:24	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/16/23 13:49	08/17/23 02:24	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/16/23 13:49	08/17/23 02:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130			08/16/23 13:49	08/17/23 02:24	1
1,4-Difluorobenzene (Surr)	63	S1-	70 - 130			08/16/23 13:49	08/17/23 02:24	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			08/17/23 09:48	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg			08/21/23 11:32	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	<50.1	U	50.1	mg/Kg		08/16/23 14:53	08/19/23 16:25	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1	mg/Kg		08/16/23 14:53	08/19/23 16:25	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		08/16/23 14:53	08/19/23 16:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130			08/16/23 14:53	08/19/23 16:25	1
o-Terphenyl	105		70 - 130			08/16/23 14:53	08/19/23 16:25	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Aircobra 12 State 002h

Job ID: 890-5055-1
SDG: 03D2024201

Client Sample ID: FS18
Date Collected: 08/08/23 12:45
Date Received: 08/08/23 15:30
Sample Depth: 1.5

Lab Sample ID: 890-5055-9
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	45.5		4.99	mg/Kg			08/10/23 21:12	1	

Surrogate Summary

Client: Ensolum
Project/Site: Aircobra 12 State 002h

Job ID: 890-5055-1
SDG: 03D2024201

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-5055-1	FS01A	90	59 S1-
890-5055-1 MS	FS01A	118	120
890-5055-1 MSD	FS01A	121	113
890-5055-2	FS02A	91	79
890-5055-3	FS12A	92	55 S1-
890-5055-4	FS13A	94	77
890-5055-5	FS14A	97	53 S1-
890-5055-6	FS17A	94	58 S1-
890-5055-7	SS01B	86	62 S1-
890-5055-8	SS02B	92	58 S1-
890-5055-9	FS18	94	63 S1-
LCS 880-60388/1-A	Lab Control Sample	120	119
LCSD 880-60388/2-A	Lab Control Sample Dup	120	121
MB 880-60361/5-A	Method Blank	68 S1-	101
MB 880-60388/5-A	Method Blank	74	79
Surrogate Legend			
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)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-31775-A-1-D MS	Matrix Spike	104	79
880-31775-A-1-E MSD	Matrix Spike Duplicate	105	78
890-5055-1	FS01A	117	103
890-5055-2	FS02A	122	105
890-5055-3	FS12A	116	101
890-5055-4	FS13A	116	101
890-5055-5	FS14A	115	100
890-5055-6	FS17A	117	101
890-5055-7	SS01B	117	103
890-5055-8	SS02B	115	101
890-5055-9	FS18	115	105
LCS 880-60389/2-A	Lab Control Sample	131 S1+	120
LCSD 880-60389/3-A	Lab Control Sample Dup	130	113
MB 880-60389/1-A	Method Blank	156 S1+	145 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
Project/Site: Aircobra 12 State 002h

Job ID: 890-5055-1
SDG: 03D2024201

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-60361/5-A

Matrix: Solid

Analysis Batch: 60349

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 60361

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/16/23 09:42	08/16/23 12:09	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/16/23 09:42	08/16/23 12:09	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/16/23 09:42	08/16/23 12:09	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/16/23 09:42	08/16/23 12:09	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/16/23 09:42	08/16/23 12:09	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/16/23 09:42	08/16/23 12:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	68	S1-	70 - 130	08/16/23 09:42	08/16/23 12:09	1
1,4-Difluorobenzene (Surr)	101		70 - 130	08/16/23 09:42	08/16/23 12:09	1

Lab Sample ID: MB 880-60388/5-A

Matrix: Solid

Analysis Batch: 60349

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 60388

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/16/23 13:49	08/16/23 23:19	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/16/23 13:49	08/16/23 23:19	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/16/23 13:49	08/16/23 23:19	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/16/23 13:49	08/16/23 23:19	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/16/23 13:49	08/16/23 23:19	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/16/23 13:49	08/16/23 23:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	74		70 - 130	08/16/23 13:49	08/16/23 23:19	1
1,4-Difluorobenzene (Surr)	79		70 - 130	08/16/23 13:49	08/16/23 23:19	1

Lab Sample ID: LCS 880-60388/1-A

Matrix: Solid

Analysis Batch: 60349

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 60388

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08780		mg/Kg		88	70 - 130
Toluene	0.100	0.1032		mg/Kg		103	70 - 130
Ethylbenzene	0.100	0.1099		mg/Kg		110	70 - 130
m-Xylene & p-Xylene	0.200	0.2397		mg/Kg		120	70 - 130
o-Xylene	0.100	0.1197		mg/Kg		120	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	119		70 - 130

Lab Sample ID: LCSD 880-60388/2-A

Matrix: Solid

Analysis Batch: 60349

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 60388

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08780		mg/Kg		88	70 - 130	0	35

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
Project/Site: Aircobra 12 State 002h

Job ID: 890-5055-1
SDG: 03D2024201

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

Lab Sample ID: LCSD 880-60388/2-A

Matrix: Solid

Analysis Batch: 60349

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 60388

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.1030		mg/Kg		103	70 - 130	0	35
Ethylbenzene	0.100	0.1065		mg/Kg		106	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2341		mg/Kg		117	70 - 130	2	35
o-Xylene	0.100	0.1166		mg/Kg		117	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	121		70 - 130

Lab Sample ID: 890-5055-1 MS

Matrix: Solid

Analysis Batch: 60349

Client Sample ID: FS01A

Prep Type: Total/NA

Prep Batch: 60388

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0996	0.08461		mg/Kg		85	70 - 130
Toluene	<0.00200	U	0.0996	0.09797		mg/Kg		98	70 - 130
Ethylbenzene	<0.00200	U	0.0996	0.1046		mg/Kg		105	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.199	0.2282		mg/Kg		115	70 - 130
o-Xylene	<0.00200	U	0.0996	0.1113		mg/Kg		112	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	120		70 - 130

Lab Sample ID: 890-5055-1 MSD

Matrix: Solid

Analysis Batch: 60349

Client Sample ID: FS01A

Prep Type: Total/NA

Prep Batch: 60388

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.07909		mg/Kg		79	70 - 130	7	35
Toluene	<0.00200	U	0.100	0.09708		mg/Kg		97	70 - 130	1	35
Ethylbenzene	<0.00200	U	0.100	0.1034		mg/Kg		103	70 - 130	1	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2262		mg/Kg		113	70 - 130	1	35
o-Xylene	<0.00200	U	0.100	0.1112		mg/Kg		111	70 - 130	0	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	121		70 - 130
1,4-Difluorobenzene (Surr)	113		70 - 130

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

Lab Sample ID: MB 880-60389/1-A

Matrix: Solid

Analysis Batch: 60609

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 60389

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/16/23 14:52	08/19/23 07:38	1

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
Project/Site: Aircobra 12 State 002h

Job ID: 890-5055-1
SDG: 03D2024201

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

Lab Sample ID: MB 880-60389/1-A

Matrix: Solid

Analysis Batch: 60609

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 60389

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/16/23 14:52	08/19/23 07:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/16/23 14:52	08/19/23 07:38	1
Surrogate	MB	MB	Limits			Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
1-Chlorooctane	156	S1+	70 - 130			08/16/23 14:52	08/19/23 07:38	1
o-Terphenyl	145	S1+	70 - 130			08/16/23 14:52	08/19/23 07:38	1

Lab Sample ID: LCS 880-60389/2-A

Matrix: Solid

Analysis Batch: 60609

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 60389

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Gasoline Range Organics (GRO)-C6-C10	1000	1041		mg/Kg		104	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	1099		mg/Kg		110	70 - 130	
Surrogate	LCS	LCS	Limits					
1-Chlorooctane	131	S1+	70 - 130					
o-Terphenyl	120		70 - 130					

Lab Sample ID: LCSD 880-60389/3-A

Matrix: Solid

Analysis Batch: 60609

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 60389

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	962.4		mg/Kg		96	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	1000	953.3		mg/Kg		95	70 - 130	14	20
Surrogate	LCSD	LCSD	Limits						
1-Chlorooctane	130		70 - 130						
o-Terphenyl	113		70 - 130						

Lab Sample ID: 880-31775-A-1-D MS

Matrix: Solid

Analysis Batch: 60609

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 60389

Analyte	Sample	Sample	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	
	Result	Qualifier								
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	998	1166		mg/Kg		113	70 - 130	
Diesel Range Organics (Over C10-C28)	<50.2	U	998	968.0		mg/Kg		97	70 - 130	
Surrogate	MS	MS	Limits							
	%Recovery	Qualifier								
1-Chlorooctane	104		70 - 130							
o-Terphenyl	79		70 - 130							

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
Project/Site: Aircobra 12 State 002h

Job ID: 890-5055-1
SDG: 03D2024201

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

Lab Sample ID: 880-31775-A-1-E MSD

Matrix: Solid

Analysis Batch: 60609

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 60389

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	998	1174		mg/Kg		113	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.2	U	998	956.5		mg/Kg		96	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	105		70 - 130								
o-Terphenyl	78		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-59732/1-A

Matrix: Solid

Analysis Batch: 59886

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			08/10/23 18:34	1

Lab Sample ID: LCS 880-59732/2-A

Matrix: Solid

Analysis Batch: 59886

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	228.7		mg/Kg		91	90 - 110

Lab Sample ID: LCSD 880-59732/3-A

Matrix: Solid

Analysis Batch: 59886

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	225.4		mg/Kg		90	90 - 110	1	20

Lab Sample ID: 890-5055-2 MS

Matrix: Solid

Analysis Batch: 59886

Client Sample ID: FS02A

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	47.0		250	277.9		mg/Kg		92	90 - 110

Lab Sample ID: 890-5055-2 MSD

Matrix: Solid

Analysis Batch: 59886

Client Sample ID: FS02A

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	47.0		250	274.9		mg/Kg		91	90 - 110	1	20

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: Aircobra 12 State 002h

Job ID: 890-5055-1
SDG: 03D2024201

GC VOA

Analysis Batch: 60349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5055-1	FS01A	Total/NA	Solid	8021B	60388
890-5055-2	FS02A	Total/NA	Solid	8021B	60388
890-5055-3	FS12A	Total/NA	Solid	8021B	60388
890-5055-4	FS13A	Total/NA	Solid	8021B	60388
890-5055-5	FS14A	Total/NA	Solid	8021B	60388
890-5055-6	FS17A	Total/NA	Solid	8021B	60388
890-5055-7	SS01B	Total/NA	Solid	8021B	60388
890-5055-8	SS02B	Total/NA	Solid	8021B	60388
890-5055-9	FS18	Total/NA	Solid	8021B	60388
MB 880-60361/5-A	Method Blank	Total/NA	Solid	8021B	60361
MB 880-60388/5-A	Method Blank	Total/NA	Solid	8021B	60388
LCS 880-60388/1-A	Lab Control Sample	Total/NA	Solid	8021B	60388
LCSD 880-60388/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	60388
890-5055-1 MS	FS01A	Total/NA	Solid	8021B	60388
890-5055-1 MSD	FS01A	Total/NA	Solid	8021B	60388

Prep Batch: 60361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-60361/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 60388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5055-1	FS01A	Total/NA	Solid	5035	
890-5055-2	FS02A	Total/NA	Solid	5035	
890-5055-3	FS12A	Total/NA	Solid	5035	
890-5055-4	FS13A	Total/NA	Solid	5035	
890-5055-5	FS14A	Total/NA	Solid	5035	
890-5055-6	FS17A	Total/NA	Solid	5035	
890-5055-7	SS01B	Total/NA	Solid	5035	
890-5055-8	SS02B	Total/NA	Solid	5035	
890-5055-9	FS18	Total/NA	Solid	5035	
MB 880-60388/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-60388/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-60388/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-5055-1 MS	FS01A	Total/NA	Solid	5035	
890-5055-1 MSD	FS01A	Total/NA	Solid	5035	

Analysis Batch: 60437

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5055-1	FS01A	Total/NA	Solid	Total BTEX	
890-5055-2	FS02A	Total/NA	Solid	Total BTEX	
890-5055-3	FS12A	Total/NA	Solid	Total BTEX	
890-5055-4	FS13A	Total/NA	Solid	Total BTEX	
890-5055-5	FS14A	Total/NA	Solid	Total BTEX	
890-5055-6	FS17A	Total/NA	Solid	Total BTEX	
890-5055-7	SS01B	Total/NA	Solid	Total BTEX	
890-5055-8	SS02B	Total/NA	Solid	Total BTEX	
890-5055-9	FS18	Total/NA	Solid	Total BTEX	

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: Aircobra 12 State 002h

Job ID: 890-5055-1
SDG: 03D2024201

GC Semi VOA

Prep Batch: 60389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5055-1	FS01A	Total/NA	Solid	8015NM Prep	
890-5055-2	FS02A	Total/NA	Solid	8015NM Prep	
890-5055-3	FS12A	Total/NA	Solid	8015NM Prep	
890-5055-4	FS13A	Total/NA	Solid	8015NM Prep	
890-5055-5	FS14A	Total/NA	Solid	8015NM Prep	
890-5055-6	FS17A	Total/NA	Solid	8015NM Prep	
890-5055-7	SS01B	Total/NA	Solid	8015NM Prep	
890-5055-8	SS02B	Total/NA	Solid	8015NM Prep	
890-5055-9	FS18	Total/NA	Solid	8015NM Prep	
MB 880-60389/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-60389/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-60389/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-31775-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-31775-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 60609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5055-1	FS01A	Total/NA	Solid	8015B NM	60389
890-5055-2	FS02A	Total/NA	Solid	8015B NM	60389
890-5055-3	FS12A	Total/NA	Solid	8015B NM	60389
890-5055-4	FS13A	Total/NA	Solid	8015B NM	60389
890-5055-5	FS14A	Total/NA	Solid	8015B NM	60389
890-5055-6	FS17A	Total/NA	Solid	8015B NM	60389
890-5055-7	SS01B	Total/NA	Solid	8015B NM	60389
890-5055-8	SS02B	Total/NA	Solid	8015B NM	60389
890-5055-9	FS18	Total/NA	Solid	8015B NM	60389
MB 880-60389/1-A	Method Blank	Total/NA	Solid	8015B NM	60389
LCS 880-60389/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	60389
LCSD 880-60389/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	60389
880-31775-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	60389
880-31775-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	60389

Analysis Batch: 60719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5055-1	FS01A	Total/NA	Solid	8015 NM	
890-5055-2	FS02A	Total/NA	Solid	8015 NM	
890-5055-3	FS12A	Total/NA	Solid	8015 NM	
890-5055-4	FS13A	Total/NA	Solid	8015 NM	
890-5055-5	FS14A	Total/NA	Solid	8015 NM	
890-5055-6	FS17A	Total/NA	Solid	8015 NM	
890-5055-7	SS01B	Total/NA	Solid	8015 NM	
890-5055-8	SS02B	Total/NA	Solid	8015 NM	
890-5055-9	FS18	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 59732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5055-1	FS01A	Soluble	Solid	DI Leach	
890-5055-2	FS02A	Soluble	Solid	DI Leach	
890-5055-3	FS12A	Soluble	Solid	DI Leach	

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: Aircobra 12 State 002h

Job ID: 890-5055-1
SDG: 03D2024201

HPLC/IC (Continued)

Leach Batch: 59732 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5055-4	FS13A	Soluble	Solid	DI Leach	
890-5055-5	FS14A	Soluble	Solid	DI Leach	
890-5055-6	FS17A	Soluble	Solid	DI Leach	
890-5055-7	SS01B	Soluble	Solid	DI Leach	
890-5055-8	SS02B	Soluble	Solid	DI Leach	
890-5055-9	FS18	Soluble	Solid	DI Leach	
MB 880-59732/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-59732/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-59732/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5055-2 MS	FS02A	Soluble	Solid	DI Leach	
890-5055-2 MSD	FS02A	Soluble	Solid	DI Leach	

Analysis Batch: 59886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5055-1	FS01A	Soluble	Solid	300.0	59732
890-5055-2	FS02A	Soluble	Solid	300.0	59732
890-5055-3	FS12A	Soluble	Solid	300.0	59732
890-5055-4	FS13A	Soluble	Solid	300.0	59732
890-5055-5	FS14A	Soluble	Solid	300.0	59732
890-5055-6	FS17A	Soluble	Solid	300.0	59732
890-5055-7	SS01B	Soluble	Solid	300.0	59732
890-5055-8	SS02B	Soluble	Solid	300.0	59732
890-5055-9	FS18	Soluble	Solid	300.0	59732
MB 880-59732/1-A	Method Blank	Soluble	Solid	300.0	59732
LCS 880-59732/2-A	Lab Control Sample	Soluble	Solid	300.0	59732
LCSD 880-59732/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	59732
890-5055-2 MS	FS02A	Soluble	Solid	300.0	59732
890-5055-2 MSD	FS02A	Soluble	Solid	300.0	59732

Lab Chronicle

Client: Ensolum
Project/Site: Aircobra 12 State 002h

Job ID: 890-5055-1
SDG: 03D2024201

Client Sample ID: FS01A

Date Collected: 08/08/23 09:30

Date Received: 08/08/23 15:30

Lab Sample ID: 890-5055-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	60388	08/16/23 13:49	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60349	08/16/23 23:41	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60437	08/17/23 09:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			60719	08/21/23 11:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	60389	08/16/23 14:53	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60609	08/19/23 13:10	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	59732	08/09/23 09:48	KS	EET MID
Soluble	Analysis	300.0		1			59886	08/10/23 20:04	CH	EET MID

Client Sample ID: FS02A

Date Collected: 08/08/23 09:40

Date Received: 08/08/23 15:30

Lab Sample ID: 890-5055-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	60388	08/16/23 13:49	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60349	08/17/23 00:01	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60437	08/17/23 09:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			60719	08/21/23 11:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	60389	08/16/23 14:53	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60609	08/19/23 13:32	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	59732	08/09/23 09:48	KS	EET MID
Soluble	Analysis	300.0		1			59886	08/10/23 20:10	CH	EET MID

Client Sample ID: FS12A

Date Collected: 08/08/23 10:20

Date Received: 08/08/23 15:30

Lab Sample ID: 890-5055-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	60388	08/16/23 13:49	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60349	08/17/23 00:21	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60437	08/17/23 09:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			60719	08/21/23 11:32	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	60389	08/16/23 14:53	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60609	08/19/23 13:54	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	59732	08/09/23 09:48	KS	EET MID
Soluble	Analysis	300.0		1			59886	08/10/23 20:27	CH	EET MID

Client Sample ID: FS13A

Date Collected: 08/08/23 11:00

Date Received: 08/08/23 15:30

Lab Sample ID: 890-5055-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	60388	08/16/23 13:49	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60349	08/17/23 00:42	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60437	08/17/23 09:48	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: Aircobra 12 State 002h

Job ID: 890-5055-1
SDG: 03D2024201

Client Sample ID: FS13A
Date Collected: 08/08/23 11:00
Date Received: 08/08/23 15:30

Lab Sample ID: 890-5055-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			60719	08/21/23 11:32	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	60389	08/16/23 14:53	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60609	08/19/23 14:15	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	59732	08/09/23 09:48	KS	EET MID
Soluble	Analysis	300.0		1			59886	08/10/23 20:33	CH	EET MID

Client Sample ID: FS14A
Date Collected: 08/08/23 12:10
Date Received: 08/08/23 15:30

Lab Sample ID: 890-5055-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	60388	08/16/23 13:49	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60349	08/17/23 01:02	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60437	08/17/23 09:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			60719	08/21/23 11:32	SM	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	60389	08/16/23 14:53	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60609	08/19/23 14:37	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	59732	08/09/23 09:48	KS	EET MID
Soluble	Analysis	300.0		1			59886	08/10/23 20:50	CH	EET MID

Client Sample ID: FS17A
Date Collected: 08/08/23 12:30
Date Received: 08/08/23 15:30

Lab Sample ID: 890-5055-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	60388	08/16/23 13:49	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60349	08/17/23 01:23	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60437	08/17/23 09:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			60719	08/21/23 11:32	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	60389	08/16/23 14:53	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60609	08/19/23 15:20	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	59732	08/09/23 09:48	KS	EET MID
Soluble	Analysis	300.0		1			59886	08/10/23 20:55	CH	EET MID

Client Sample ID: SS01B
Date Collected: 08/08/23 09:50
Date Received: 08/08/23 15:30

Lab Sample ID: 890-5055-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	60388	08/16/23 13:49	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60349	08/17/23 01:43	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60437	08/17/23 09:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			60719	08/21/23 11:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	60389	08/16/23 14:53	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60609	08/19/23 15:42	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: Aircobra 12 State 002h

Job ID: 890-5055-1
SDG: 03D2024201

Client Sample ID: SS01B
Date Collected: 08/08/23 09:50
Date Received: 08/08/23 15:30

Lab Sample ID: 890-5055-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	59732	08/09/23 09:48	KS	EET MID
Soluble	Analysis	300.0		1			59886	08/10/23 21:01	CH	EET MID

Client Sample ID: SS02B
Date Collected: 08/08/23 10:00
Date Received: 08/08/23 15:30

Lab Sample ID: 890-5055-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	60388	08/16/23 13:49	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60349	08/17/23 02:03	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60437	08/17/23 09:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			60719	08/21/23 11:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	60389	08/16/23 14:53	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60609	08/19/23 16:03	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	59732	08/09/23 09:48	KS	EET MID
Soluble	Analysis	300.0		1			59886	08/10/23 21:07	CH	EET MID

Client Sample ID: FS18
Date Collected: 08/08/23 12:45
Date Received: 08/08/23 15:30

Lab Sample ID: 890-5055-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	60388	08/16/23 13:49	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60349	08/17/23 02:24	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60437	08/17/23 09:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			60719	08/21/23 11:32	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	60389	08/16/23 14:53	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60609	08/19/23 16:25	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	59732	08/09/23 09:48	KS	EET MID
Soluble	Analysis	300.0		1			59886	08/10/23 21:12	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: Aircobra 12 State 002h

Job ID: 890-5055-1
SDG: 03D2024201

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: Ensolum
Project/Site: Aircobra 12 State 002h

Job ID: 890-5055-1
SDG: 03D2024201

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: Aircobra 12 State 002h

Job ID: 890-5055-1
SDG: 03D2024201

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-5055-1	FS01A	Solid	08/08/23 09:30	08/08/23 15:30	1.5
890-5055-2	FS02A	Solid	08/08/23 09:40	08/08/23 15:30	1.5
890-5055-3	FS12A	Solid	08/08/23 10:20	08/08/23 15:30	1.5
890-5055-4	FS13A	Solid	08/08/23 11:00	08/08/23 15:30	1.5
890-5055-5	FS14A	Solid	08/08/23 12:10	08/08/23 15:30	1.5
890-5055-6	FS17A	Solid	08/08/23 12:30	08/08/23 15:30	1.5
890-5055-7	SS01B	Solid	08/08/23 09:50	08/08/23 15:30	1.5
890-5055-8	SS02B	Solid	08/08/23 10:00	08/08/23 15:30	1.5
890-5055-9	FS18	Solid	08/08/23 12:45	08/08/23 15:30	1.5



Environment Testing
Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3343
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Chain of Custody

Work Order No: _____

Page _____ of _____
www.xenco.com

Project Manager:	Hadlie Green	Bill to: (if different)	Hadlie Green
Company Name:	Ensolum, LLC	Company Name:	Ensolum, LLC
Address:	601 N Marlenfield St Suite 400	Address:	601 N Marlenfield St Suite 400
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-557-8895	Email:	hgreen@ensolum.com

Work Order Comments	
Program: UST/PST	☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:	
Reporting: Level II	☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD	☐ ADaPT ☐ Other:

Project Name:		Aircobra 12 State 002H		Turn Around		Pres. Code	
Project Number:		03D2024201		☒ Routine ☐ Rush			
Project Location:		32.6803, -103.5115		Due Date:			
Sampler's Name:		Peter Van Patten		TAT starts the day received by the lab, if received by 4:30pm			
PO #:							
SAMPLE RECEIPT		Temp Blank:		Yes No		Wet Ice: Yes No	
Samples Received Intact:		(Yes) No		Thermometer ID: 7		100603	
Cooler Custody Seals:		Yes No		N/A		Correction Factor: -0.2	
Sample Custody Seals:		Yes No		N/A		Temperature Reading: 1.6	
Total Containers:				Corrected Temperature:		1.4	
Parameters							
RIDES (EPA: 300.0)							
015)							
8021)							
ANALYSIS REQUEST							
							
890-5055 Chain of Custody							
Preservative Codes							
None: NO		DI Water: H2O					
Cool: Cool		MeOH: Me					
HCL: HC		HNO3: HN					
H2SO4: H2		NaOH: Na					
H3PO4: HP							
NaHSO4: NABIS							
Na2S2O3: NaSO3							
Zn Acetate+NaOH: Zn							
NaOH+Ascorbic Acid: SAPC							

[illegible]

Total 200.7 / 6010	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	Ag	SiO ₂	Na	Sr	Ti	Sn	U	V	Zn
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010:	8RCRA	Sb	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Ag	Ti	U												
																								Hg: 163.1 / 245.1 / 7470 / 7471							

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xencro, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xencro will be liable only for the cost of samples and shall not assume any responsibility or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xencro. A minimum charge of \$35.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xencro, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>[Signature]</i>	<i>[Signature]</i>	5.8.23 1530			
2					
3					
4					
5					
6					

Resident Date: 08/05/2020 Row: 2020

Elitrofine Carlsbad

1089 N Canal St
Carlsbad, NM 88220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record



7-11-64

Client Information (Sub Contract Lab)										Sampler		Lab PM		Carrier Tracking No(s)		COC No															
Client Contact										Phone:		Kramer, Jessica				890-1419 1															
Shipping/Receiving										E-Mail		Jessica Kramer@et.eurofinsus.com		State of Origin		Page: 1 of 1															
Company										Eurofins Environment Testing South Cent		Accreditations Required (See note)		New Mexico		Page 1 of 1															
Address										1211 W Florida Ave		NE LAP - Texas				Job #:															
City										TAT Requested (days):						890-5055-1															
Midland																															
State, Zip																															
TX, 79701																															
Phone										PO #																					
Email										WOC #																					
Project Name										Project #																					
Aircobra 12 State 002h										89000145																					
Site										SSOW#																					
Sample Identification - Client ID (Lab ID)										Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=wastewater, B=titrim, A=air)		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Analysis Requested		Total Number of containers		Special Instructions/Note:					
FS01A (890-5055-1)										8/8/23		09 30		Solid				X		X		X		X		X		1			
FS02A (890-5055-2)										8/8/23		09 40		Solid				X		X		X		X		X		1			
FS12A (890-5055-3)										8/8/23		10 20		Solid				X		X		X		X		X		1			
FS13A (890-5055-4)										8/8/23		11 00		Solid				X		X		X		X		X		1			
FS14A (890-5055-5)										8/8/23		12 10		Solid				X		X		X		X		X		1			
FS17A (890-5055-6)										8/8/23		12 30		Solid				X		X		X		X		X		1			
SS01B (890-5055-7)										8/8/23		09 50		Solid				X		X		X		X		X		1			
SS02B (890-5055-8)										8/8/23		10 00		Solid				X		X		X		X		X		1			
FS18 (890-5055-9)										8/8/23		12 45		Solid				X		X		X		X		X		1			
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central LLC places the ownership of method analyze & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central LLC.																															
Possible Hazard Identification										Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)																					
Unconfirmed										☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months																					
Deliverable Requested I, II, III IV, Other (specify)										Primary Deliverable Rank 2										Special Instructions/QC Requirements											
Empty Kit Relinquished by										Date/Time:										Date/Time:											
Relinquished by										Date/Time:										Date/Time:											
Relinquished by										Date/Time:										Date/Time:											
Custody Seals Intact:										Custody Seal No										Cooler temperature(s) °C and Other Remarks											
Δ Yes Δ No																															

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-5055-1

SDG Number: 03D2024201

Login Number: 5055

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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: 890-5055-1

SDG Number: 03D2024201

Login Number: 5055

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 08/10/23 12:57 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	



APPENDIX D

NMOCD Notifications

From: [Wells, Shelly, EMNRD](#)
To: [Hadlie Green](#)
Cc: [Bratcher, Michael, EMNRD](#); [Velez, Nelson, EMNRD](#)
Subject: RE: [EXTERNAL] COP - Sampling Notification (Week of 8/7/2023)
Date: Thursday, August 3, 2023 2:49:29 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)

[**EXTERNAL EMAIL**]

Hi Hadlie,

The OCD has received your notification. 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.

Thank you,

Shelly

[Shelly Wells](#) * Environmental Specialist-Advanced
Administrative Permitting Program
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive | Santa Fe, NM 87505
(505)469-7520 | Shelly.Wells@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

From: Hadlie Green <hgreen@ensolum.com>
Sent: Thursday, August 3, 2023 1:38 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Laird, Jacob <Jacob.Laird@conocophillips.com>; Esparza, Brittany <brittany.esparza@conocophillips.com>; Peter Van Patten <pvanpatten@ensolum.com>
Subject: [EXTERNAL] COP - Sampling Notification (Week of 8/7/2023)

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

All,

ConocoPhillips Company (COP) plans to complete sampling activities at the following site the week of August 7, 2023.

- Aircobra 12 State 2H / NAPP2317133599
 - Sampling Date: 8/8/2023 @ 0900 MST

Thank you,



Hadlie Green

Project Geologist

432-557-8895

hgreen@ensolum.com

Ensolum, LLC





APPENDIX E

Final C-141

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	NAPP2317133599
District RP	
Facility ID	fAPP2202547670
Application ID	

Release Notification

Responsible Party

Responsible Party	COG Operating, LLC	OGRID	229137
Contact Name	Jacob Laird	Contact Telephone	(575) 703-5482
Contact email	Jacon.Laird@ConocoPhillips.com	Incident # (assigned by OCD)	NAPP2317133599
Contact mailing address	600 West Illinois Avenue, Midland, Texas 79701		

Location of Release Source

Latitude 32.6803 Longitude -103.5115
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Aircobra 12 State 002H	Site Type	Tank Battery
Date Release Discovered	June 11, 2023	API# (if applicable)	30-025-40035

Unit Letter	Section	Township	Range	County
B	12	19S	34E	Lea

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☒ Crude Oil	Volume Released (bbls) 0.1558	Volume Recovered (bbls) 0
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

The release was caused by an oil dump malfunction resulting in a fire on the pad.
No fluids were recovered due to the fire burning off any standing fluids.

Incident ID	NAPP2317133599
District RP	
Facility ID	fAPP2202547670
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? The release involved a fire.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? N/A	

Initial Response

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

☒ The source of the release has been stopped. ☒ The impacted area has been secured to protect human health and the environment. ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. ☒ All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: 	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: Brittany N. Esparza	Title: Environmental Technician
Signature: 	Date: 6/20/2023
email: Brittany.Esparza@ConocoPhillips.com	Telephone: (432) 221-0398
<u>OCD Only</u>	
Received by: Shelly Wells	Date: 6/21/2023

Spill Calculation - Subsurface Spill - Rectangle										Remediation Recommendation	
Convert irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Average Depth (in.)	On/Off Pad (dropdown)	Soil Spilled-Fluid Saturation (%)	Estimated volume of each area (bbl.)	Total Estimated Volume of Spill (bbl.)			Total Estimated Contaminated Soil, uncompacted, 25% (yd ³ .)	Current Rule of Thumb - RMR Handover Volume, (yd ³ .)
Rectangle A	40.0	25.0	0.1	On-Pad	10.50%	1.48	0.16			0.39	750
Rectangle B						0.00				0.00	
Rectangle C						0.00				0.00	
Rectangle D						0.00				0.00	
Rectangle E						0.00				0.00	
Rectangle F						0.00				0.00	
Rectangle G						0.00				0.00	
Rectangle H						0.00				0.00	
Rectangle I						0.00				0.00	
						0.00				0.00	
Total Subsurface Volume Released:							0.1558			0.39	BU

Received by OCD: 6/20/2023 9:22:50 AM

Page 3 of 4

Released to Imaging: 6/21/2023 2:52:24 PM

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 230578

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 230578
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	6/21/2023

Incident ID	NAP2317133599
District RP	
Facility ID	fAPP2202547670
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>51-100</u> (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☒ Yes ☐ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☒ No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ 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.

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	NAP2317133599
District RP	
Facility ID	fAPP2202547670
Application ID	

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

Printed Name: __Jacob Laird__

Title: __Environmental Engineer__

Signature: *Jacob Laird*

Date: __8/29/2023__

email: __Jacob.Laird@conocophillips.com__

Telephone: __575-703-5482__

OCD Only

Received by: Shelly Wells

Date: 9/7/2023

Incident ID	NAP2317133599
District RP	
Facility ID	fAPP2202547670
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: __Jacob Laird__ Title: __Environmental Engineer__

Signature: __*Jacob Laird*__ Date: __8/29/2023__

email: __Jacob.Laird@conocophillips.com__ Telephone: __575-703-5482__

OCD Only

Received by: __Shelly Wells__ Date: __9/7/2023__

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 262930

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 262930
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	12/29/2023