

October 3, 2024

New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Re: Closure Request Boone State 160 CTB

Incident Number NAPP2422763744

Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of COG Operating, LLC (COG), has prepared the following *Closure Request* to document excavation and soil sampling activities completed to address impacted soil at the Boone State 160 CTB (Site). Soil was impacted on the surface of the well pad as the result of a flare fire. Based on excavation activities and analytical results from the soil sampling events, COG is submitting this *Closure Request*, describing remediation that has occurred and requesting closure for Incident Number NAPP2422763744.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit O, Section 16, Township 21 South, Range 33 East, in Lea County, New Mexico (32.47350833°, -103.57539444°) and is associated with oil and gas exploration and production operations on private land.

On August 14, 2024, equipment failure of a pump caused the release of oil to the flare, which resulted in a fire and the release of approximately 1 barrel (bbls) of crude oil. COG reported the release to the New Mexico Oil Conservation Division (NMOCD) via email on August 14, 2024, and submitted a Form C-141 Application (C-141) on August 19, 2024. The release was assigned Incident Number NAPP2422763744.

SITE CHARATERIZATION AND CLOSURE CRITERIA

The Site was characterized according to Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential Site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The nearest groundwater well is New Mexico Office of the State Engineer (NMOSE) soil boring CP-01880 POD 1, located approximately 1.25 miles southwest of the Site. On October 8, 2021, the soil boring was drilled utilizing a hollow-stemmed augur to determine regional depth of groundwater in the area. The soil boring was advanced to a total depth of 105 feet bgs. A field geologist logged and descibed soil continuously. No moisture or groundwater was encountered during drilling activities. The borehole was left open for over 72 hours to allow for the potential slow infill

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 601 N Marienfield St. Suite #400 | Midland, TX 78209 | ensolum.com

COG Operating, LLC Closure Request Boone State 160 CTB



of groundwater. After the 72-hour waiting period without observing groundwater, it was confirmed groundwater in the area is greater than 105 feet bgs. The borehole was properly abandoned with drill cuttings and hydrated bentonite chips. All wells used for depth to water determination are depicted on Figure 1 and the referenced well record is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a dry wash approximately 662 feet east 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 AND SAMPLING ACTIVITIES

On August 28, 2024, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Six preliminary soil samples (SS01, SS02, and DS01 through DS04) were collected within and around the release extent at a depth of 0.5 feet bgs to assess the extent of the release. The preliminary soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride utilizing Hach® chloride QuanTab® test strips. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included in Appendix B.

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

Laboratory analytical results for preliminary soil samples SS02, collected within the release extent, indicated the chloride concentration exceeded the Closure Criteria. Laboratory analytical results for preliminary soil samples SS01 and DS01 through DS04, collected in and around the release extent, indicated all COC concentrations were compliant with the strictest Table I Closure Criteria, and confirmed the lateral extent of the release. Laboratory analytical results are summarized on Table 1 and the complete laboratory analytical reports are included in Appendix C. Based on the laboratory analytical results, additional remediation activities were warranted.

COG Operating, LLC Closure Request Boone State 160 CTB



EXCAVATION SOIL SAMPLING ACTIVITIES AND ANALYTICAL RESULTS

On September 16, 2024, Ensolum personnel returned to the Site to oversee excavation activities. Impacted soil was excavated from the release area as indicated by visible staining and laboratory analytical results for the preliminary soil samples. Excavation activities were performed using a backhoe and transport vehicle. To direct excavation activities, soil was screened for VOCs and chloride. The excavation was completed to a depth of 1-foot bgs. Photographic documentation of the excavation activities is included in Appendix B.

Following removal of impacted soil, 5-point composite soil samples were collected at least 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 CS01 through CS04 were collected from the floor of the excavation at a depth of 1-foot bgs. Confirmation soil samples SW01 and SW02 were collected from the sidewalls of the excavation at depths ranging from ground surface to 1-foot bgs. The confirmation soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 3.

The excavation area measured approximately 797 square feet. A total of approximately 30 cubic yards of impacted soil were removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Landfill Disposal Facility in Hobbs, New Mexico. The excavated area was secured with fencing and will be backfilled with locally sourced material and recontoured to match surrounding grade.

Laboratory analytical results for excavation floor samples CS01 through CS04, SW01 and SW02 indicated all COC concentrations were compliant with the Closure Criteria and no further remediation was required. The laboratory analytical results are summarized on Table 1 and the complete laboratory analytical reports are included in Appendix C.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the August 2024 flare fire. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated all COC concentrations were compliant with the Site Closure Criteria. Based on the soil sample laboratory analytical results, no further remediation is required. COG believe remedial actions completed at the Site have been protective of human health, the environmental, and groundwater. As such, COG respectfully requests closure for Incident Number NAPP2422763744.

If you have any questions or comments, please contact Mr. Daniel Moir at (303) 887-2946 or dmoir@ensolum.com.

Sincerely,

Ensolum, LLC

David A. McInnis Project Geologist Daniel R. Moir, PG (licensed in WY & TX)
Senior Managing Geologist

cc: Jacob Laird

COG Operating, LLC Closure Request Boone State 160 CTB



Appendices:

Figure 1 Site Receptor Map

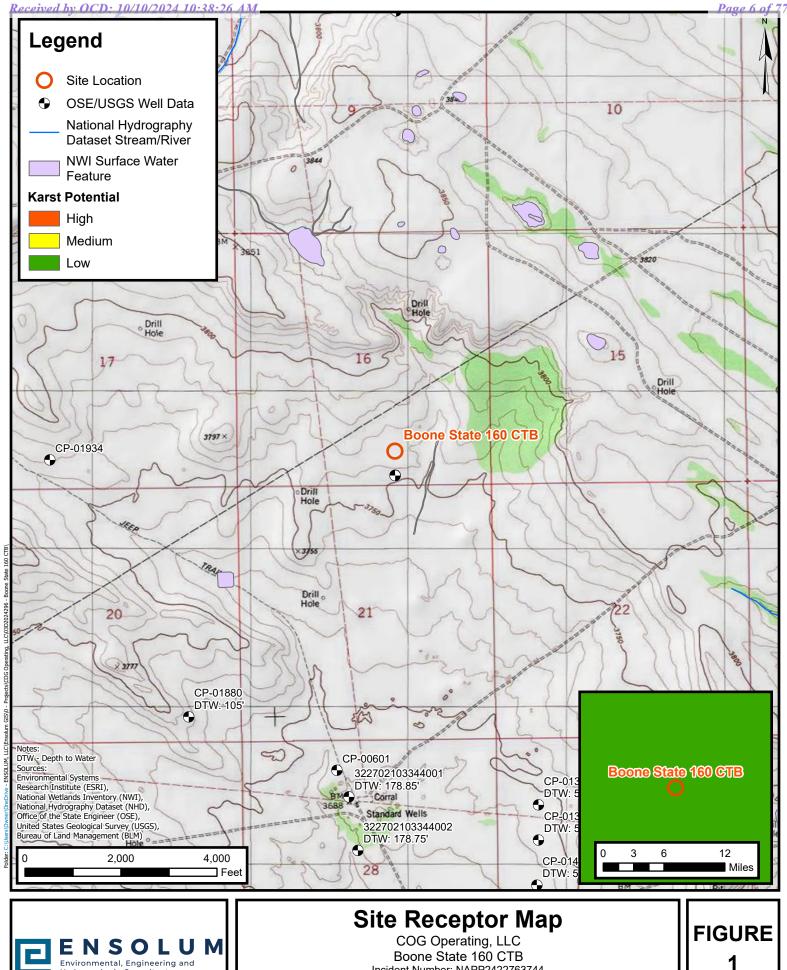
Figure 2 Preliminary Soil Sample Locations
Figure 3 Excavation Soil Sample Locations
Table 1 Soil Sample Analytical Results
Appendix A Referenced Well Records

Appendix B Photographic Log

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



FIGURES





Incident Number: NAPP2422763744 Unit O, Sec 16, T21S, R33E Lea County, New Mexico

Released to Imaging: 11/7/2024 8:51:08 AM





Preliminary Soil Sample Locations COG Operating, LLC Boone State 160 CTB Incident Number: NAPP2422763744

Unit O, Sec 16, T21S, R33E Lea County, New Mexico

FIGURE 2

Released to Imaging: 11/7/2024 8:51:08 AM





Excavation Soil Sample Locations COG Operating, LLC Boone State 160 CTB Incident Number: NAPP2422763744

Unit O, Sec 16, T21S, R33E Lea County, New Mexico

FIGURE 3



TABLES



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Boone State 160 CTB COG Operating, LLC Lea County, New Mexico

				Lea	County, New Me							
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)		
NMOCD Table I	Closure Criteria	(NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	10,000		
	Preliminary Assessment Soil Samples											
SS01	8/28/2024	0.5	<0.00201	<0.00402	<49.7	81.6	<49.7	81.6	81.6	39.8		
SS02	8/28/2024	0.5	<0.00200	<0.00399	<49.9	338	<49.9	338	338	<5.00		
DS01	8/28/2024	0.5	<0.00199	<0.00396	<49.8	<49.8	<49.8	<49.8	<49.8	145		
DS02	8/28/2024	0.5	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	<4.95		
DS03	8/28/2024	0.5	<0.00201	<0.00402	<49.6	<49.6	<49.6	<49.6	<49.6	6.87		
DS04	8/28/2024	0.5	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	22.2		
				Exc	avation Soil Sam	ples						
CS01	9/16/2024	1	<0.00200	0.00480	<49.9	<49.9	<49.9	<49.9	<49.9	23.2		
CS02	9/16/2024	1	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	<5.00		
CS03	9/16/2024	1	<0.00202	<0.00403	<49.7	<49.7	<49.7	<49.7	<49.7	<5.00		
CS04	9/16/2024	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	<4.97		
SW01	9/16/2024	0 - 1	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	<5.03		
SW02	9/16/2024	0 - 1	<0.00200	<0.00399	<49.8	70.7	<49.8	70.7	70.7	<4.99		

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

^{*} indicates sample was collected in area to be reclaimed after remediation is complete; reclamation standard in the top 4 feet is 600 mg/kg for chloride and 100 mg/kg for TPH.



APPENDIX A

Referenced Well Records



	OSE POD NO	•	VO.)			WELL	TAG ID NO.			OSE F	ILE NO(S).				
GENERAL AND WELL LOCATION	POD1 (T					n/a				CP-1						
'AT	WELL OWNE										E (OPTI					
ğ	Advanced 1	Energy	Partn	ers						832.6	72.470	10				
1	WELL OWNE									CITY			STAT	E		ZIP
VE	11490 Westheimer Rd. Stuit 950							Houston				TX		77077		
Į ė		i		DE	GREES	MIN	TUTES	SECOND	s							
¥	WELL LOCATIO	N .			32	:	27	30.43	N	• ACC	URACY	REQUIRED: ONE TEN	TH OF A	A SEC	OND	
KA	(FROM GP	s)	ATITU	•	103		35	22.44		* DAT	TUM RE	QUIRED: WGS 84				
NE	· ·	1	ONGI							<u> </u>						
5					STREET ADDI	RESS AN	D COMMON	LANDMAR	KS – PLS	SS (SECT	10N, TO	WNSHJIP, RANGE) WE	ERE A	/AIL	ABLE	
1	SE SE NE	Sec. 30	T21S	S R33E												
	LICENSE NO	· · · · · · · · · · · · · · · · · · ·	IN	AME OF LICENSED	DDII I ED		· · · · · · · · · · · · · · · · · · ·					NAME OF WELL DR	II I INC	COM	IDANV	
	124	-	"	AME OF LICENSED		Jackie i	D. Atkins					Atkins Eng				nc.
]	DRILLING ST	r a Darre	+	RILLING ENDED	DEPTH OF CO	N 4D1 1777	D WELL OF	~ lr	ORE HO	t to torma	TI (15T)	DEPTH WATER FIR				
	10/08/		٦	10/08/2021			ell materia		OKE HU	105	H(F1)	DEPIH WATER FIR		/a	ieked (Fi)	
į l											CM 4 571 C 331 4 575 D 1 57					
	COMPLETED WELL IS: ARTESIAN OF DRY HOLE SHALLOW (UNCONFIN							FINED)			STATIC WATER LE		COMI /a	PLETED WE	LL (FI)	
ON																
ATI	DRILLING FI	LUID:		AIR	☐ MUD		ADDITIV	ES – SPECIF	'Y:							
2. DRILLING & CASING INFORMATION	DRILLING METHOD: ROTARY				HAMMER CABLE TOOL OTHER - SPECIFY:			Hollow Stem Auger								
YFC	DEPTH (feet bgl) BORE HOLE			CASING MATERIAL AND/OR					CASING	Ta	CASING WALL					
l B	FROM TO		DIAM		GRA			CASING CONNECTION		1			S WALL KNESS	SLOT SIZE		
				(inches)			sing string, s of screen)		TYPE (add coupling diameter)			(inches)		(inc	hes)	(inches)
CA	0	105	+	±6.5	<u> </u>	Boring-			agg coup	ung cuan	neter)	+ -				
8	<u> </u>															!
Ž						·							+			<u></u>
			\dashv										1			
I G													┼			
7					-								ļ <u> </u>			
													 			
												a dula 100 all	11111	3777	O mail 173	
			\rightarrow		ļ							Ube Ull M	136	4.17.2	T 2/17)
					ļ											<u> </u>
								<u> </u>				<u> </u>	<u></u>			<u> </u>
	DEPTH	(feet bgl	T	BORE HOLE	Li	ST AN	NULAR SE	AL MAT	ERIAL	AND		AMOUNT			метно	D OF
¥	FROM	ТО		DIAM. (inches)	GRA	VEL P	ACK SIZE	RANGE E	Y INT	ERVAL		(cubic feet)			PLACEN	
RE														_		
ATI			_	<u> </u>												
ANNULAR MATERIAL			-		-											
🛂																
			-		 											
Б																
L			i		<u> </u>							l	i			
FOR	OSE INTER	NAL US									WR-2	0 WELL RECORD	& LO	<u> </u>	ersion 06/3	0/17)
FILE	NO.	<u> 1</u> μ-	· /&	580			POD NO		! 		TRN	NO. <i>(099)</i>	10	4		
LOC	ATION			215	. 33E	2	0. Y	43		WELL	TAG I	D NO.		,	PAGE	1 OF 2

PAGE 2 OF 2

WELL TAG ID NO.

	DEPTH (1	feet bgl)	THICKNESS (feet)	4	OR AND TYPE OF MAT			WATE BEARIN	₹G?	ESTIMATED YIELD FOR WATER-		
	FROM	10	(Icci)	(att	tach supplemental sheets	to fully describe a	ll units)	(YES/I	10)	BEARING ZONES (gpm)		
	0	9	9		Caliche, with fine-grain	ed sand, White/Ta	n	Y	√ N			
	9	19	10	Sand,	Fine-grained, poorly grade	d, with Caliche, 7	an/ Brown	Y	√ N			
:	19	105	86		Sand, Fine-grained, poorl	y graded, Tan/Bro	own	Y	√ N			
								Y	N			
			ļ.,					Y	N			
Ľ								Y	N			
WE								Y	N			
4. HYDROGEOLOGIC LOG OF WELL							····	Y	N			
10								Y	N			
CIC								Y	N			
OLO								Y	N			
CE								Y	N			
DRC								Y	N			
H.						·····		Y	N			
4							,	Y	N			
								Y	N			
						****		Y	N			
								Y	N			
]		, ,	· · · · · · · · · · · · · · · · · · ·		Y	N			
			<u>.</u>					Y	N			
	METHODI	SED TO E	TDAATE VIELD	OF WATER R	PARRIC STRATA.			OTAL ESTIMA				
	<u> </u>		O OF WATER-BEARING STRATA:				VELL YIELD (0.00			
	PUMP AIR LIFT			JBAILER	BAILER OTHER – SPECIFY:							
VISION	WELL TEST TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.											
TEST; RIG SUPERVI	MISCELLANEOUS INFORMATION: Temporary well materials removed and the soil boring backfilled using drill cuttings from total depth to ten feet below ground surface, then hydrated bentonite chips from ten feet below ground surface to surface.											
EST;	DDDETNAN	Æ(E) OF D	DILL DIC CIME	NACOD(C) TH	AT PROVIDED ONSITE S	TIDED VICION O				-		
5. TI			elo Trevino, Can		AT PROVIDED ONSITE S	SUPERVISION OF	WELL CONST	RUCTION OT	iek ir	IAN LICENSEE:		
ATURE	CORRECT	RECORD O	F THE ABOVE I	DESCRIBED H	THE BEST OF HIS OR I DLE AND THAT HE OR IR COMPLETION OF WE	SHE WILL FILE						
6. SIGNATURE	Jack K	1tkins			Jackie D. Atkins			10/29/2021				
-		SIGNAT	URE OF DRILLE	ER / PRINTS	PRINT SIGNEE NAME				DATE			
FΩI	R OSE INTER	NAL LISE					WR-20 WRIT	RECORD & L	OG (Ve	rsion 06/30/2017)		
	E NO	ناقال بيدد.			POD NO		TRN NO.	C. L.	(10			

LOCATION



APPENDIX B

Photographic Log

ENSOLUM

Photographic Log

COG Operating, LLC Boone State 160 CTB NAPP2422763744





Photograph: 1 Date: 8/19/2024

Description: Soil staining in release footprint

View: West

Photograph: 2 Date: 8/28/2024

Description: Soil staining in release footprint

View: West





Photograph: 3 Date: 9/16/2024

Description: Final excavation extent

View: Northeast

Photograph: 4 Date: 9/16/2024

Description: Final excavation extent

View: Southwest



APPENDIX C

Laboratory Analytical Reports & Chain of Custody Documentation

ANALYTICAL REPORT

PREPARED FOR

Attn: David Mcinnis Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701

Generated 9/4/2024 11:26:07 AM

JOB DESCRIPTION

Boone 160 State CTB Flow Fire

JOB NUMBER

880-47874-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

Eurofins Midland

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 9/4/2024 11:26:07 AM

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

4

6

0

9

11

4.0

Client: Ensolum Laboratory Job ID: 880-47874-1

Project/Site: Boone 160 State CTB Flow Fire

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	11
QC Sample Results	12
QC Association Summary	17
Lab Chronicle	20
Certification Summary	22
Method Summary	23
Sample Summary	24
Chain of Custody	25
Receipt Chacklists	26

-0

F

6

8

9

1 U

12

13

Definitions/Glossary

Client: Ensolum Job ID: 880-47874-1

Project/Site: Boone 160 State CTB Flow Fire

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

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

Eurofins Midland

1

3

1

5

7

8

3

Case Narrative

Client: Ensolum Job ID: 880-47874-1

Project: Boone 160 State CTB Flow Fire

Job ID: 880-47874-1 Eurofins Midland

Job Narrative 880-47874-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these
 situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise
 specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 8/29/2024 10:25 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.5°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS01 (880-47874-1), SS02 (880-47874-2), DS01 (880-47874-3), DS02 (880-47874-4), DS03 (880-47874-5) and DS04 (880-47874-6).

GC VOA

Method 8021B: The laboratory control sample duplicate (LCSD) for preparation batch 880-89702 and analytical batch 880-89649 recovered outside control limits for the following analytes: m-Xylene & p-Xylene. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

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

Diesel Range Organics

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

HPLC/IC

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

Eurofins Midland

K

_

6

Q Q

9

11

12

13

Matrix: Solid

Lab Sample ID: 880-47874-1

Client: Ensolum Job ID: 880-47874-1

Project/Site: Boone 160 State CTB Flow Fire

Client Sample ID: SS01

Date Collected: 08/28/24 09:10 Date Received: 08/29/24 10:25

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		08/29/24 14:16	08/29/24 23:03	1
Toluene	<0.00201	U	0.00201	mg/Kg		08/29/24 14:16	08/29/24 23:03	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		08/29/24 14:16	08/29/24 23:03	1
m-Xylene & p-Xylene	<0.00402	U *+	0.00402	mg/Kg		08/29/24 14:16	08/29/24 23:03	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		08/29/24 14:16	08/29/24 23:03	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		08/29/24 14:16	08/29/24 23:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130			08/29/24 14:16	08/29/24 23:03	1
1,4-Difluorobenzene (Surr)	90		70 - 130			08/29/24 14:16	08/29/24 23:03	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00402	U	0.00402	mg/Kg			08/29/24 23:03	1
				mg/Kg			08/29/24 23:03	1
: Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)					
Method: SW846 8015 NM - Diese Analyte	el Range Organ Result		GC)	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
: Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)		<u>D</u>	Prepared		
Method: SW846 8015 NM - Diese Analyte	el Range Organ Result 81.6	ics (DRO) ((Qualifier	RL 49.7	Unit	<u>D</u>	Prepared	Analyzed	
Method: SW846 8015 NM - Diese Analyte Total TPH	el Range Organ Result 81.6 sel Range Orga	ics (DRO) ((Qualifier	RL 49.7	Unit	<u>D</u>	Prepared Prepared	Analyzed	
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies	el Range Organ Result 81.6 sel Range Orga	Qualifier nics (DRO) Qualifier	RL 49.7	Unitmg/Kg		<u> </u>	Analyzed 08/29/24 18:53	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte	el Range Organ Result 81.6 sel Range Orga Result	Qualifier nics (DRO) Qualifier	(GC) RL RL	Unit mg/Kg		Prepared	Analyzed 08/29/24 18:53 Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	el Range Organ Result 81.6 sel Range Orga Result	Qualifier nics (DRO) Qualifier	(GC) RL RL	Unit mg/Kg		Prepared	Analyzed 08/29/24 18:53 Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	el Range Organ Result 81.6 sel Range Orga Result Result 49.7 81.6	ics (DRO) (Oualifier nics (DRO) Qualifier U	(GC) RL 49.7 (GC) RL 49.7 49.7	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 08/29/24 12:37 08/29/24 12:37	Analyzed 08/29/24 18:53 Analyzed 08/29/24 18:53 08/29/24 18:53	Dil Fac Dil Fac 1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	el Range Organ Result 81.6 sel Range Orga Result Result 49.7	ics (DRO) (Oualifier nics (DRO) Qualifier U	(GC) RL 49.7 (GC) RL 49.7	Unit mg/Kg Unit mg/Kg		Prepared 08/29/24 12:37	Analyzed 08/29/24 18:53 Analyzed 08/29/24 18:53	Dil Fac Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	el Range Organ Result 81.6 sel Range Orga Result Result 49.7 81.6	ics (DRO) (Oualifier nics (DRO) Qualifier U	(GC) RL 49.7 (GC) RL 49.7 49.7	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 08/29/24 12:37 08/29/24 12:37	Analyzed 08/29/24 18:53 Analyzed 08/29/24 18:53 08/29/24 18:53	Dil Fac Dil Fac 1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	el Range Organ Result 81.6 sel Range Orga Result <49.7 81.6 <49.7	ics (DRO) (Oualifier nics (DRO) Qualifier U	GC) RL 49.7 (GC) RL 49.7 49.7 49.7	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 08/29/24 12:37 08/29/24 12:37 08/29/24 12:37	Analyzed 08/29/24 18:53 Analyzed 08/29/24 18:53 08/29/24 18:53 08/29/24 18:53	Dil Fac Dil Fac 1 1 1

Client Sample ID: SS02

Date Collected: 08/28/24 09:15

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier

39.8

Date Received: 08/29/24 10:25

Sample Depth: 0.5'

Analyte

Chloride

Method: SW846 8021B - Volati	ile Organic Comp	ounds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/29/24 14:16	08/29/24 23:24	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/29/24 14:16	08/29/24 23:24	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/29/24 14:16	08/29/24 23:24	1
m-Xylene & p-Xylene	<0.00399	U *+	0.00399	mg/Kg		08/29/24 14:16	08/29/24 23:24	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/29/24 14:16	08/29/24 23:24	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		08/29/24 14:16	08/29/24 23:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130			08/29/24 14:16	08/29/24 23:24	1

RL

5.01

Unit

mg/Kg

D

Prepared

Eurofins Midland

Dil Fac

Matrix: Solid

Analyzed

08/30/24 15:36

Lab Sample ID: 880-47874-2

Project/Site: Boone 160 State CTB Flow Fire

Client Sample ID: SS02 Lab Sample ID: 880-47874-2 Matrix: Solid

Date Collected: 08/28/24 09:15 Date Received: 08/29/24 10:25

Sample Depth: 0.5'

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

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1 4-Difluorobenzene (Surr)	84	70 - 130	08/29/24 14:16	08/29/24 23:24	1

Method: TAI	SOP Total BTEX	- Total BTFX	Calculation
Mictilou. IAL	- OOI TOTAL DIEA	- IOIGI DIEA	Calculation

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399 U	0.00399	ma/Ka			08/29/24 23:24	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	338		49.9	mg/Kg			08/29/24 19:42	1

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

	rooti ranigo organico (200)							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/29/24 12:37	08/29/24 19:42	1
Diesel Range Organics (Over C10-C28)	338		49.9	mg/Kg		08/29/24 12:37	08/29/24 19:42	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/29/24 12:37	08/29/24 19:42	1
Surrogate	%Pacayany	Qualifier	l imite			Propared	Analyzod	Dil Eac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	109	70 - 130	08/29/24 12:37	08/29/24 19:42	1
o-Terphenyl	117	70 - 130	08/29/24 12:37	08/29/24 19:42	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			08/29/24 20:05	1

Client Sample ID: DS01 Lab Sample ID: 880-47874-3 Matrix: Solid

Date Collected: 08/28/24 08:55 Date Received: 08/29/24 10:25

Sample Depth: 0.5'

 Mathad.	CIMO 4C	0024D	Valatila Ossania	Compounds (GC)
viernoa:	SVVA4n	AUZID .	· voiatile Organic	: Compounds (GC)

			,					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		08/29/24 14:16	08/29/24 23:44	1
Toluene	< 0.00199	U	0.00199	mg/Kg		08/29/24 14:16	08/29/24 23:44	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		08/29/24 14:16	08/29/24 23:44	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398	mg/Kg		08/29/24 14:16	08/29/24 23:44	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		08/29/24 14:16	08/29/24 23:44	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/29/24 14:16	08/29/24 23:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130			08/29/24 14:16	08/29/24 23:44	1
1 1 Differenchemanne (Court)	96		70 120			09/20/24 14:16	09/20/24 22:44	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Anaiyzea	DII Fac
4-Bromofluorobenzene (Surr)	97	70 - 130	08/29/24 14:16	08/29/24 23:44	1
1,4-Difluorobenzene (Surr)	86	70 - 130	08/29/24 14:16	08/29/24 23:44	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			08/29/24 23:44	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			08/29/24 19:59	1

Project/Site: Boone 160 State CTB Flow Fire

Client Sample ID: DS01 Lab Sample ID: 880-47874-3

Date Collected: 08/28/24 08:55 Matrix: Solid Date Received: 08/29/24 10:25

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		08/29/24 12:37	08/29/24 19:59	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/29/24 12:37	08/29/24 19:59	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/29/24 12:37	08/29/24 19:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130			08/29/24 12:37	08/29/24 19:59	1
o-Terphenyl	109		70 - 130			08/29/24 12:37	08/29/24 19:59	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: DS02 Lab Sample ID: 880-47874-4 Date Collected: 08/28/24 09:00 **Matrix: Solid**

5.00

mg/Kg

145

Date Received: 08/29/24 10:25

Sample Depth: 0.5'

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		08/29/24 14:16	08/30/24 00:05	1
Toluene	<0.00201	U	0.00201	mg/Kg		08/29/24 14:16	08/30/24 00:05	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		08/29/24 14:16	08/30/24 00:05	1
m-Xylene & p-Xylene	<0.00402	U *+	0.00402	mg/Kg		08/29/24 14:16	08/30/24 00:05	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		08/29/24 14:16	08/30/24 00:05	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		08/29/24 14:16	08/30/24 00:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130			08/29/24 14:16	08/30/24 00:05	1
1,4-Difluorobenzene (Surr)	76		70 - 130			08/29/24 14:16	08/30/24 00:05	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			08/30/24 00:05	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			08/29/24 20:15	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		08/29/24 12:37	08/29/24 20:15	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/29/24 12:37	08/29/24 20:15	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/29/24 12:37	08/29/24 20:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane			70 - 130			08/29/24 12:37	08/29/24 20:15	1

Eurofins Midland

08/29/24 20:24

Matrix: Solid

Client: Ensolum Job ID: 880-47874-1

Project/Site: Boone 160 State CTB Flow Fire

Client Sample ID: DS02 Lab Sample ID: 880-47874-4

Date Collected: 08/28/24 09:00 Matrix: Solid

Date Received: 08/29/24 10:25 Sample Depth: 0.5'

Method: EPA 300.0 - Anions, Ion Ch	romatograp	hy - Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.95	U	4.95	mg/Kg			08/29/24 20:31	1

Client Sample ID: DS03 Lab Sample ID: 880-47874-5

Date Collected: 08/28/24 09:05 Date Received: 08/29/24 10:25

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		08/29/24 14:16	08/30/24 00:25	1
Toluene	<0.00201	U	0.00201	mg/Kg		08/29/24 14:16	08/30/24 00:25	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		08/29/24 14:16	08/30/24 00:25	1
m-Xylene & p-Xylene	<0.00402	U *+	0.00402	mg/Kg		08/29/24 14:16	08/30/24 00:25	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		08/29/24 14:16	08/30/24 00:25	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		08/29/24 14:16	08/30/24 00:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130			08/29/24 14:16	08/30/24 00:25	1
1,4-Difluorobenzene (Surr)	74		70 - 130			08/29/24 14:16	08/30/24 00:25	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg	_		08/30/24 00:25	1
Г., .,	_							

Method: 544846 8015 NM - Diesei I	Range Organi	ICS (DRU) (G	L)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6	mg/Kg			08/29/24 20:31	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6	mg/Kg		08/29/24 12:37	08/29/24 20:31	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6	mg/Kg		08/29/24 12:37	08/29/24 20:31	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		08/29/24 12:37	08/29/24 20:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130			08/29/24 12:37	08/29/24 20:31	1
o-Terphenyl	121		70 - 130			08/29/24 12:37	08/29/24 20:31	1

Method: EPA 300.0 - Anions, Ion Cl	hromatography - Soluble)					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.87	4.95	mg/Kg			08/29/24 20:38	1

Project/Site: Boone 160 State CTB Flow Fire

Client Sample ID: DS04

Date Collected: 08/28/24 08:50

Lab Sample ID: 880-47874-6

Matrix: Solid

Date Collected: 08/28/24 08:50
Date Received: 08/29/24 10:25

Sample Depth: 0.5'

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/29/24 14:16	08/30/24 00:46	
Toluene	<0.00200	U	0.00200	mg/Kg		08/29/24 14:16	08/30/24 00:46	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/29/24 14:16	08/30/24 00:46	1
m-Xylene & p-Xylene	<0.00399	U *+	0.00399	mg/Kg		08/29/24 14:16	08/30/24 00:46	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/29/24 14:16	08/30/24 00:46	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		08/29/24 14:16	08/30/24 00:46	,
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130			08/29/24 14:16	08/30/24 00:46	1
1,4-Difluorobenzene (Surr)	80		70 - 130			08/29/24 14:16	08/30/24 00:46	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			08/30/24 00:46	1
Method: SW846 8015 NM - Diese	al Range Organ	ice (DRO) ((3C)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg		<u> </u>	08/29/24 20:47	1
Method: SW846 8015B NM - Die	cal Panga Orga	nice (DBO)	(60)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		08/29/24 12:37	08/29/24 20:47	1
(GRO)-C6-C10 Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		08/29/24 12:37	08/29/24 20:47	1
C10-C28)	00.0		33.3	99		00/20/21 12:01	00/20/2 : 20: ::	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/29/24 12:37	08/29/24 20:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130			08/29/24 12:37	08/29/24 20:47	1
o-Terphenyl	122		70 - 130			08/29/24 12:37	08/29/24 20:47	1
Method: EPA 300.0 - Anions, Ion	Chromotogran	shy Solubl	_					
Method: EPA 300.0 - Anions. Ion	Ciliolilatourat	nia - Soinni	e					

5.02

mg/Kg

22.2

Eurofins Midland

08/29/24 20:44

Surrogate Summary

Client: Ensolum Job ID: 880-47874-1

Project/Site: Boone 160 State CTB Flow Fire

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-47874-1	SS01	91	90	
880-47874-1 MS	SS01	124	112	
880-47874-1 MSD	SS01	112	107	
880-47874-2	SS02	95	84	
880-47874-3	DS01	97	86	
880-47874-4	DS02	98	76	
880-47874-5	DS03	94	74	
880-47874-6	DS04	104	80	
LCS 880-89702/1-A	Lab Control Sample	114	110	
LCSD 880-89702/2-A	Lab Control Sample Dup	122	110	
MB 880-89672/5-A	Method Blank	83	89	
MB 880-89702/5-A	Method Blank	80	91	

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
30-47874-1	SS01	114	116	
80-47874-1 MS	SS01	109	120	
80-47874-1 MSD	SS01	107	119	
30-47874-2	SS02	109	117	
30-47874-3	DS01	111	109	
0-47874-4	DS02	117	122	
0-47874-5	DS03	111	121	
80-47874-6	DS04	121	122	
CS 880-89689/2-A	Lab Control Sample	97	105	
CSD 880-89689/3-A	Lab Control Sample Dup	96	105	
B 880-89689/1-A	Method Blank	101	104	

Surrogate Legend

1CO = 1-Chlorooctane OTPH = o-Terphenyl

Project/Site: Boone 160 State CTB Flow Fire

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-89672/5-A **Matrix: Solid**

Analysis Batch: 89649

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 89672

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/29/24 09:47	08/29/24 11:57	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/29/24 09:47	08/29/24 11:57	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/29/24 09:47	08/29/24 11:57	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/29/24 09:47	08/29/24 11:57	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/29/24 09:47	08/29/24 11:57	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/29/24 09:47	08/29/24 11:57	1

MB MB

MR MR

Result Qualifier

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130	08/29/24 09:47	08/29/24 11:57	1
1,4-Difluorobenzene (Surr)	89		70 - 130	08/29/24 09:47	08/29/24 11:57	1

Lab Sample ID: MB 880-89702/5-A

Matrix: Solid

Analyte

Analysis Batch: 89649

Client Sample ID: Method Blank

Analyzed

Prepared

Prep Type: Total/NA

Prep Batch: 89702

Dil Fac

Benzene <0.00200 U 0.00200 mg/Kg 08/29/24 14:16 08/29/24 22:41 Toluene <0.00200 U 0.00200 mg/Kg 08/29/24 14:16 08/29/24 22:41 Ethylbenzene <0.00200 U 0.00200 mg/Kg 08/29/24 14:16 08/29/24 22:41 0.00400 08/29/24 14:16 m-Xylene & p-Xylene <0.00400 U mg/Kg 08/29/24 22:41 <0.00200 U 0.00200 o-Xylene mg/Kg 08/29/24 14:16 08/29/24 22:41 08/29/24 14:16 Xylenes, Total <0.00400 U 0.00400 mg/Kg 08/29/24 22:41

RL

Unit

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130	08/29/24 14.	16 08/29/24 22:41	1
1,4-Difluorobenzene (Surr)	91		70 - 130	08/29/24 14.	16 08/29/24 22:41	1

Lab Sample ID: LCS 880-89702/1-A

Matrix: Solid

Analysis Batch: 89649

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 89702

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09944		mg/Kg		99	70 - 130	
Toluene	0.100	0.09692		mg/Kg		97	70 - 130	
Ethylbenzene	0.100	0.09974		mg/Kg		100	70 - 130	
m-Xylene & p-Xylene	0.200	0.2368		mg/Kg		118	70 - 130	
o-Xylene	0.100	0.1107		mg/Kg		111	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	114	70 _ 130
1.4-Difluorobenzene (Surr)	110	70 - 130

Lab Sample ID: LCSD 880-89702/2-A

Matrix: Solid

Analysis Batch: 89649

Client Sample ID:	: Lab Control Sample Dup)
	Dean Time, Tetal/N/	

Prep Type: Total/NA

Prep Batch: 89702

	Spike	LCSD LCSD				%Rec		RPD
Analyte	Added	Result Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1101	mg/Kg		110	70 - 130	10	35

Project/Site: Boone 160 State CTB Flow Fire

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

Lab Sample ID: LCSD 880-89702/2-A **Matrix: Solid**

Analysis Batch: 89649

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

Prep Batch: 89702

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.1062		mg/Kg		106	70 - 130	9	35
Ethylbenzene	0.100	0.1301		mg/Kg		130	70 - 130	26	35
m-Xylene & p-Xylene	0.200	0.2624	*+	mg/Kg		131	70 - 130	10	35
o-Xylene	0.100	0.1232		mg/Kg		123	70 - 130	11	35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	122	70 - 130
1,4-Difluorobenzene (Surr)	110	70 - 130

Lab Sample ID: 880-47874-1 MS

Matrix: Solid

Analysis Batch: 89649

Client Sample ID: SS01 Prep Type: Total/NA

Prep Batch: 89702

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.100	0.09364		mg/Kg		94	70 - 130	
Toluene	<0.00201	U	0.100	0.08940		mg/Kg		89	70 - 130	
Ethylbenzene	<0.00201	U	0.100	0.08661		mg/Kg		87	70 - 130	
m-Xylene & p-Xylene	<0.00402	U *+	0.200	0.2126		mg/Kg		106	70 - 130	
o-Xylene	<0.00201	U	0.100	0.09913		mg/Kg		99	70 - 130	

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	124	70 - 130
1,4-Difluorobenzene (Surr)	112	70 - 130

Lab Sample ID: 880-47874-1 MSD

Matrix: Solid

Analysis Batch: 89649

Client Sample ID: SS01

Prep Type: Total/NA Prep Batch: 89702

7 many one Battern over 10											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U	0.100	0.08881		mg/Kg		89	70 - 130	5	35
Toluene	<0.00201	U	0.100	0.08367		mg/Kg		84	70 - 130	7	35
Ethylbenzene	<0.00201	U	0.100	0.09418		mg/Kg		94	70 - 130	8	35
m-Xylene & p-Xylene	<0.00402	U *+	0.200	0.1886		mg/Kg		94	70 - 130	12	35
o-Xylene	<0.00201	U	0.100	0.09102		mg/Kg		91	70 - 130	9	35
I .											

MSD MSD

Surrogate	%Recovery	Quaimer	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

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

Lab Sample ID: MB 880-89689/1-A

Matrix: Solid

Analysis Batch: 89551

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

Prep Batch: 89689

Analyzed

мв мв Result Qualifier Unit Prepared Gasoline Range Organics <50.0 U 50.0 mg/Kg 08/29/24 12:36 08/29/24 18:02 (GRO)-C6-C10

Project/Site: Boone 160 State CTB Flow Fire

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

Lab Sample ID: MB 880-89689/1-A **Matrix: Solid**

Lab Sample ID: LCS 880-89689/2-A

Matrix: Solid

Analysis Batch: 89551

Analysis Batch: 89551

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 89689

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		08/29/24 12:36	08/29/24 18:02	1
C10-C28)								
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/29/24 12:36	08/29/24 18:02	1

MB MB

MR MR

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	08/29/24 12:36	08/29/24 18:02	1
o-Terphenyl	104		70 - 130	08/29/24 12:36	08/29/24 18:02	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 89689

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	1000	837.5		mg/Kg		84	70 - 130	
Diesel Range Organics (Over	1000	794.9		mg/Kg		79	70 - 130	
C10-C28)								

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	105		70 - 130

Lab Sample ID: LCSD 880-89689/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 89551

Prep Type: Total/NA Prep Batch: 89689

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	837.7		mg/Kg		84	70 - 130	0	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	796.6		mg/Kg		80	70 - 130	0	20
C10-C28)									

LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 96 70 - 130 o-Terphenyl 105 70 - 130

Lab Sample ID: 880-47874-1 MS Client Sample ID: SS01 **Matrix: Solid**

Analysis Batch: 89551

Prep Type: Total/NA Prep Batch: 89689

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.7	U	996	845.6		mg/Kg		85	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	81.6		996	1031		mg/Kg		95	70 - 130	
C10-C28)										

	IVIS	IVIS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	109		70 - 130
o-Terphenyl	120		70 - 130

Job ID: 880-47874-1 Client: Ensolum

Project/Site: Boone 160 State CTB Flow Fire

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

Lab Sample ID: 880-47874-1 MSD

Matrix: Solid

Client Sample ID: SS01 Prep Type: Total/NA

Analysis Batch: 89551

Prep Batch: 89689

Sample Sample Spike MSD MSD RPD Result Qualifier Limit Analyte Added Result Qualifier Unit %Rec Limits RPD Gasoline Range Organics <49.7 U 996 834.7 mg/Kg 84 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 996 1010 mg/Kg 93 70 - 13081.6 2 20

20

C10-C28)

MSD MSD

Qualifier Limits Surrogate %Recovery 1-Chlorooctane 70 - 130 107 o-Terphenyl 119 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-89686/1-A

Client Sample ID: Method Blank

Prep Type: Soluble

Matrix: Solid

Analysis Batch: 89692

мв мв

Result Qualifier RL Unit Analyte Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 mg/Kg 08/30/24 10:57

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Matrix: Solid

Analysis Batch: 89692

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	242.7		mg/Kg		97	90 - 110	

Lab Sample ID: LCSD 880-89686/3-A

Matrix: Solid

Lab Sample ID: LCS 880-89686/2-A

Analysis Batch: 89692

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	241.0		mg/Kg		96	90 - 110	1	20

Lab Sample ID: MB 880-89719/1-A

Client Sample ID: Method Blank

Prep Type: Soluble

Prep Type: Soluble

Analysis Batch: 89724

Matrix: Solid

Matrix: Solid

мв мв

Analyte Result Qualifier RL Unit Dil Fac D Analyzed Prepared Chloride <5.00 U 5.00 mg/Kg 08/29/24 19:45

Lab Sample ID: LCS 880-89719/2-A

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analysis Batch: 89724

Spike LCS LCS %Rec Added Qualifier Analyte Result %Rec Limits Unit D 250 233.7 93 Chloride 90 - 110 mg/Kg

QC Sample Results

Client: Ensolum Job ID: 880-47874-1

Project/Site: Boone 160 State CTB Flow Fire

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-89719/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 89724

Spike LCSD LCSD %Rec RPD Result Qualifier Added RPD Limit Analyte Unit %Rec Limits Chloride 250 232.1 mg/Kg 93 90 - 110

Lab Sample ID: 880-47874-2 MS **Client Sample ID: SS02 Matrix: Solid Prep Type: Soluble**

Analysis Batch: 89724

	Sample Sample	Sample Sample Spik	· Ms	S MS				%Rec	
Analyte	Result Qualifier		Resul	t Qualifier	Unit	D	%Rec	Limits	
Chloride	<5.00 U	<5.00 U 25	234.	3	mg/Kg		92	90 - 110	

Lab Sample ID: 880-47874-2 MSD Client Sample ID: SS02 **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 89724

Sample Sample MSD MSD %Rec RPD Spike Result Qualifier Added Limit Analyte Result Qualifier Unit Limits **RPD** Chloride <5.00 U 250 233.1 90 - 110 20 mg/Kg

QC Association Summary

Client: Ensolum Job ID: 880-47874-1

Project/Site: Boone 160 State CTB Flow Fire

GC VOA

Analysis Batch: 89649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47874-1	SS01	Total/NA	Solid	8021B	89702
880-47874-2	SS02	Total/NA	Solid	8021B	89702
880-47874-3	DS01	Total/NA	Solid	8021B	89702
880-47874-4	DS02	Total/NA	Solid	8021B	89702
880-47874-5	DS03	Total/NA	Solid	8021B	89702
880-47874-6	DS04	Total/NA	Solid	8021B	89702
MB 880-89672/5-A	Method Blank	Total/NA	Solid	8021B	89672
MB 880-89702/5-A	Method Blank	Total/NA	Solid	8021B	89702
LCS 880-89702/1-A	Lab Control Sample	Total/NA	Solid	8021B	89702
LCSD 880-89702/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	89702
880-47874-1 MS	SS01	Total/NA	Solid	8021B	89702
880-47874-1 MSD	SS01	Total/NA	Solid	8021B	89702

Prep Batch: 89672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-89672/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 89702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47874-1	SS01	Total/NA	Solid	5035	
880-47874-2	SS02	Total/NA	Solid	5035	
880-47874-3	DS01	Total/NA	Solid	5035	
880-47874-4	DS02	Total/NA	Solid	5035	
880-47874-5	DS03	Total/NA	Solid	5035	
880-47874-6	DS04	Total/NA	Solid	5035	
MB 880-89702/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-89702/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-89702/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-47874-1 MS	SS01	Total/NA	Solid	5035	
880-47874-1 MSD	SS01	Total/NA	Solid	5035	

Analysis Batch: 89760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47874-1	SS01	Total/NA	Solid	Total BTEX	-
880-47874-2	SS02	Total/NA	Solid	Total BTEX	
880-47874-3	DS01	Total/NA	Solid	Total BTEX	
880-47874-4	DS02	Total/NA	Solid	Total BTEX	
880-47874-5	DS03	Total/NA	Solid	Total BTEX	
880-47874-6	DS04	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 89551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47874-1	SS01	Total/NA	Solid	8015B NM	89689
880-47874-2	SS02	Total/NA	Solid	8015B NM	89689
880-47874-3	DS01	Total/NA	Solid	8015B NM	89689
880-47874-4	DS02	Total/NA	Solid	8015B NM	89689
880-47874-5	DS03	Total/NA	Solid	8015B NM	89689
880-47874-6	DS04	Total/NA	Solid	8015B NM	89689
MB 880-89689/1-A	Method Blank	Total/NA	Solid	8015B NM	89689

Eurofins Midland

3

4

6

8

9

11

13

QC Association Summary

Client: Ensolum Job ID: 880-47874-1

Project/Site: Boone 160 State CTB Flow Fire

GC Semi VOA (Continued)

Analysis Batch: 89551 (Continued)

Lab Sample ID LCS 880-89689/2-A	Client Sample ID Lab Control Sample	Prep Type Total/NA	Matrix Solid	Method 8015B NM	Prep Batch 89689
LCSD 880-89689/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	89689
880-47874-1 MS	SS01	Total/NA	Solid	8015B NM	89689
880-47874-1 MSD	SS01	Total/NA	Solid	8015B NM	89689

Prep Batch: 89689

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47874-1	SS01	Total/NA	Solid	8015NM Prep	
880-47874-2	SS02	Total/NA	Solid	8015NM Prep	
880-47874-3	DS01	Total/NA	Solid	8015NM Prep	
880-47874-4	DS02	Total/NA	Solid	8015NM Prep	
880-47874-5	DS03	Total/NA	Solid	8015NM Prep	
880-47874-6	DS04	Total/NA	Solid	8015NM Prep	
MB 880-89689/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-89689/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-89689/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-47874-1 MS	SS01	Total/NA	Solid	8015NM Prep	
880-47874-1 MSD	SS01	Total/NA	Solid	8015NM Prep	

Analysis Batch: 89833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47874-1	SS01	Total/NA	Solid	8015 NM	
880-47874-2	SS02	Total/NA	Solid	8015 NM	
880-47874-3	DS01	Total/NA	Solid	8015 NM	
880-47874-4	DS02	Total/NA	Solid	8015 NM	
880-47874-5	DS03	Total/NA	Solid	8015 NM	
880-47874-6	DS04	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 89686

Lab Sample ID 880-47874-1	Client Sample ID SS01	Prep Type Soluble	Solid	Method DI Leach	Prep Batch
MB 880-89686/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-89686/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-89686/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 89692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47874-1	SS01	Soluble	Solid	300.0	89686
MB 880-89686/1-A	Method Blank	Soluble	Solid	300.0	89686
LCS 880-89686/2-A	Lab Control Sample	Soluble	Solid	300.0	89686
LCSD 880-89686/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	89686

Leach Batch: 89719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47874-2	SS02	Soluble	Solid	DI Leach	
880-47874-3	DS01	Soluble	Solid	DI Leach	
880-47874-4	DS02	Soluble	Solid	DI Leach	
880-47874-5	DS03	Soluble	Solid	DI Leach	
880-47874-6	DS04	Soluble	Solid	DLI each	

Eurofins Midland

Released to Imaging: 11/7/2024 8:51:08 AM

QC Association Summary

Client: Ensolum Job ID: 880-47874-1

Project/Site: Boone 160 State CTB Flow Fire

HPLC/IC (Continued)

Leach Batch: 89719 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-89719/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-89719/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-89719/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-47874-2 MS	SS02	Soluble	Solid	DI Leach	
880-47874-2 MSD	SS02	Soluble	Solid	DI Leach	

Analysis Batch: 89724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47874-2	SS02	Soluble	Solid	300.0	89719
880-47874-3	DS01	Soluble	Solid	300.0	89719
880-47874-4	DS02	Soluble	Solid	300.0	89719
880-47874-5	DS03	Soluble	Solid	300.0	89719
880-47874-6	DS04	Soluble	Solid	300.0	89719
MB 880-89719/1-A	Method Blank	Soluble	Solid	300.0	89719
LCS 880-89719/2-A	Lab Control Sample	Soluble	Solid	300.0	89719
LCSD 880-89719/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	89719
880-47874-2 MS	SS02	Soluble	Solid	300.0	89719
880-47874-2 MSD	SS02	Soluble	Solid	300.0	89719

2

4

8

9

1 1

12

13

1/

Client Sample ID: SS01

Client: Ensolum

Lab Sample ID: 880-47874-1

Matrix: Solid

Date Collected: 08/28/24 09:10 Date Received: 08/29/24 10:25

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			89702	MNR	EET MID	08/29/24 14:16
Total/NA	Analysis	8021B		1	89649	AJ	EET MID	08/29/24 23:03
Total/NA	Analysis	Total BTEX		1	89760	AJ	EET MID	08/29/24 23:03
Total/NA	Analysis	8015 NM		1	89833	SM	EET MID	08/29/24 18:53
Total/NA	Prep	8015NM Prep			89689	EL	EET MID	08/29/24 12:37
Total/NA	Analysis	8015B NM		1	89551	TKC	EET MID	08/29/24 18:53
Soluble	Leach	DI Leach			89686	SA	EET MID	08/29/24 11:58
Soluble	Analysis	300.0		1	89692	SI	EET MID	08/30/24 15:36

Client Sample ID: SS02 Lab Sample ID: 880-47874-2

Date Collected: 08/28/24 09:15 Matrix: Solid Date Received: 08/29/24 10:25

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			89702	MNR	EET MID	08/29/24 14:16
Total/NA	Analysis	8021B		1	89649	AJ	EET MID	08/29/24 23:24
Total/NA	Analysis	Total BTEX		1	89760	AJ	EET MID	08/29/24 23:24
Total/NA	Analysis	8015 NM		1	89833	SM	EET MID	08/29/24 19:42
Total/NA	Prep	8015NM Prep			89689	EL	EET MID	08/29/24 12:37
Total/NA	Analysis	8015B NM		1	89551	TKC	EET MID	08/29/24 19:42
Soluble	Leach	DI Leach			89719	SA	EET MID	08/29/24 15:14
Soluble	Analysis	300.0		1	89724	SI	EET MID	08/29/24 20:05

Client Sample ID: DS01 Lab Sample ID: 880-47874-3

Date Collected: 08/28/24 08:55 **Matrix: Solid** Date Received: 08/29/24 10:25

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			89702	MNR	EET MID	08/29/24 14:16
Total/NA	Analysis	8021B		1	89649	AJ	EET MID	08/29/24 23:44
Total/NA	Analysis	Total BTEX		1	89760	AJ	EET MID	08/29/24 23:44
Total/NA	Analysis	8015 NM		1	89833	SM	EET MID	08/29/24 19:59
Total/NA	Prep	8015NM Prep			89689	EL	EET MID	08/29/24 12:37
Total/NA	Analysis	8015B NM		1	89551	TKC	EET MID	08/29/24 19:59
Soluble	Leach	DI Leach			89719	SA	EET MID	08/29/24 15:14
Soluble	Analysis	300.0		1	89724	SI	EET MID	08/29/24 20:24

Client Sample ID: DS02 Lab Sample ID: 880-47874-4 Date Collected: 08/28/24 09:00 **Matrix: Solid**

Date Received: 08/29/24 10:25

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			89702	MNR	EET MID	08/29/24 14:16
Total/NA	Analysis	8021B		1	89649	AJ	EET MID	08/30/24 00:05
Total/NA	Analysis	Total BTEX		1	89760	AJ	EET MID	08/30/24 00:05

Job ID: 880-47874-1

Project/Site: Boone 160 State CTB Flow Fire

Client Sample ID: DS02

Client: Ensolum

Lab Sample ID: 880-47874-4

Matrix: Solid

Date Collected: 08/28/24 09:00 Date Received: 08/29/24 10:25

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8015 NM		1	89833	SM	EET MID	08/29/24 20:15
Total/NA	Prep	8015NM Prep			89689	EL	EET MID	08/29/24 12:37
Total/NA	Analysis	8015B NM		1	89551	TKC	EET MID	08/29/24 20:15
Soluble	Leach	DI Leach			89719	SA	EET MID	08/29/24 15:14
Soluble	Analysis	300.0		1	89724	SI	EET MID	08/29/24 20:31

Client Sample ID: DS03 Lab Sample ID: 880-47874-5

Date Collected: 08/28/24 09:05 **Matrix: Solid**

Date Received: 08/29/24 10:25

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			89702	MNR	EET MID	08/29/24 14:16
Total/NA	Analysis	8021B		1	89649	AJ	EET MID	08/30/24 00:25
Total/NA	Analysis	Total BTEX		1	89760	AJ	EET MID	08/30/24 00:25
Total/NA	Analysis	8015 NM		1	89833	SM	EET MID	08/29/24 20:31
Total/NA	Prep	8015NM Prep			89689	EL	EET MID	08/29/24 12:37
Total/NA	Analysis	8015B NM		1	89551	TKC	EET MID	08/29/24 20:31
Soluble	Leach	DI Leach			89719	SA	EET MID	08/29/24 15:14
Soluble	Analysis	300.0		1	89724	SI	EET MID	08/29/24 20:38

Client Sample ID: DS04 Lab Sample ID: 880-47874-6

Date Collected: 08/28/24 08:50

Date Received: 08/29/24 10:25

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			89702	MNR	EET MID	08/29/24 14:16
Total/NA	Analysis	8021B		1	89649	AJ	EET MID	08/30/24 00:46
Total/NA	Analysis	Total BTEX		1	89760	AJ	EET MID	08/30/24 00:46
Total/NA	Analysis	8015 NM		1	89833	SM	EET MID	08/29/24 20:47
Total/NA	Prep	8015NM Prep			89689	EL	EET MID	08/29/24 12:37
Total/NA	Analysis	8015B NM		1	89551	TKC	EET MID	08/29/24 20:47
Soluble	Leach	DI Leach			89719	SA	EET MID	08/29/24 15:14
Soluble	Analysis	300.0		1	89724	SI	EET MID	08/29/24 20:44

Laboratory References:

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

Eurofins Midland

Matrix: Solid

Released to Imaging: 11/7/2024 8:51:08 AM

Accreditation/Certification Summary

Client: Ensolum Job ID: 880-47874-1

Project/Site: Boone 160 State CTB Flow Fire

Laboratory: Eurofins Midland

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

Authority	Progra	am	Identification Number	Expiration Date
Texas	NELA	Р	T104704400	06-30-25
• ,	are included in this report, bu	it the laboratory is not certif	fied by the governing authority. This lis	t may include analytes
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	
Total BTEX		Solid	Total BTEX	

А

5

7

Q

10

12

4 /

Method Summary

Client: Ensolum Job ID: 88

Project/Site: Boone 160 State CTB Flow Fire

Job ID: 880-47874-1

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Midland

1

5

7

0

1 0

11

4.0

14

Sample Summary

Client: Ensolum Job

Project/Site: Boone 160 State CTB Flow Fire

Job ID:	880-47874-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-47874-1	SS01	Solid	08/28/24 09:10	08/29/24 10:25	0.5'
880-47874-2	SS02	Solid	08/28/24 09:15	08/29/24 10:25	0.5'
880-47874-3	DS01	Solid	08/28/24 08:55	08/29/24 10:25	0.5'
880-47874-4	DS02	Solid	08/28/24 09:00	08/29/24 10:25	0.5'
880-47874-5	DS03	Solid	08/28/24 09:05	08/29/24 10:25	0.5'
880-47874-6	DS04	Solid	08/28/24 08:50	08/29/24 10:25	0.5'

4

6

0

9

10

12

13

14

Revised Date: 08/25/2020 Rev. 2020.2

13 14

1025

3

3/20

Superfund DI Water: H₂O Level IV HNO 3: HN MeOH: Me NaOH: Na NaOH+Ascorbic Acid: SAPC Sample Comments Preservative Codes Date/Time Zn Acetate+NaOH: Zn TRRP 880-47874 Chain of Custody UST/PST | PRP | Brownfields | RRC | Na 25 203: Na SO 3 Other: Z NaHSO 4: NABIS Hg: 1631 / 245.1 / 7470 / 7471 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Tl Sn U V H3PO 4: HP Reporting: Level III | PST/UST | None: NO H2SO4: H2 Cool: Cool Work Order Comments HCL: HC ADaPT Received by: (Signature) www.xenco.com EDD State of Project: of Eurofins Xenco. A minimum charge of \$85.00 will be expiled 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. Deliverables: TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Program: Votce: 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 senter. 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 ANALYSIS REQUEST Relinquished by: (Signature) A MONTO CARLINGEN Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199 Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Chain of Custody Property. dmoimisophraum, com Date/Time Cont Pres. # of Parameters Bill to: (if different) Company Name: Grab/ Comp City, State ZIP: TAT starts the day received by the lab, if received by 4:30pm Se No Rush Address: Depth Hall Flum Around Received by: (Signature) Email: Routine Due Date: Corrected Temperature: 200 Wet Ice: Sampled Time Temperature Reading **Environment Testing** Correction Factor: Thermometer ID: Weer/Azuer Loben Yes No Sampled (TB Date 1389 Circle Method(s) and Metal(s) to be analyzed 160 state Matrix Xenco Yes No AMA S Z Temp Blank: 52 trac 200.8 / 6020: Yes No 124200 Yes No Relinquished by: (Signature) BOOM Noch : eurofins 787 Sample Identification Samples Received Intact: Total 200.7 / 6010 200000 Sample Custody Seals: Cooler Custody Seals: 199 SAMPLE RECEIPT 9 Project Manager: Project Number: Total Containers: sampler's Name: Company Name: Project Location: Project Name: City, State ZIP: Address: Phone: PO #:

9/4/2024

Login Sample Receipt Checklist

Client: Ensolum Job Number: 880-47874-1

Login Number: 47874 List Source: Eurofins Midland

List Number: 1

Creator: Vasquez, Julisa

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

ANALYTICAL REPORT

PREPARED FOR

Attn: David Mcinnis Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701

Generated 9/30/2024 10:53:11 AM Revision 1

JOB DESCRIPTION

Boone State 160 CTB 32.473369, -103.5754411

JOB NUMBER

880-48521-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

Eurofins Midland

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 9/30/2024 10:53:11 AM Revision 1

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

3

4

10

11

. .

14

Client: Ensolum Project/Site: Boone State 160 CTB Laboratory Job ID: 880-48521-1 SDG: 32.473369, -103.5754411

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	7
Surrogate Summary	12
QC Sample Results	13
QC Association Summary	18
Lab Chronicle	21
Certification Summary	23
Method Summary	24
Sample Summary	25
Chain of Custody	26
Receint Checklists	27

Definitions/Glossary

Client: Ensolum Job ID: 880-48521-1 Project/Site: Boone State 160 CTB

SDG: 32.473369, -103.5754411

Qualifiers

GC VOA	
Qualifier	

	<u> </u>
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not
	applicable.
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.

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

Qualifier Description

GC Semi VOA

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

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

LOQ

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

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)

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

Limit of Quantitation (DoD/DOE)

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

PQL **Practical Quantitation Limit**

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum Job ID: 880-48521-1

Project: Boone State 160 CTB

Eurofins Midland Job ID: 880-48521-1

> Job Narrative 880-48521-1

REVISION

The report being provided is a revision of the original report sent on 9/19/2024. The report (revision 1) is being revised due to Per client email, requesting BTEX 8021.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 9/17/2024 8:50 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.6°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: CS01 (880-48521-1), CS02 (880-48521-2), CS03 (880-48521-3), CS04 (880-48521-4), SW01 (880-48521-5) and SW02 (880-48521-6).

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-91227 and analytical batch 880-91420 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: CS02 (880-48521-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-91311 and analytical batch 880-91420 was outside the upper control limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-91311 and analytical batch 880-91420 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 8021B: Surrogate recovery for the following samples were outside control limits: CS01 (880-48521-1) and CS02 (880-48521-2). 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.

Diesel Range Organics

Method 8015MOD NM: The method blank for preparation batch 880-91010 and analytical batch 880-91142 contained Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD NM: The surrogate recovery for the blank associated with preparation batch 880-91010 and analytical batch 880-91142 was outside the upper control limits.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: CS02 (880-48521-2), CS03 (880-48521-3) and (MB 880-91010/1-A). Evidence of matrix interferences is not obvious.

Case Narrative

Client: Ensolum Job ID: 880-48521-1

Project: Boone State 160 CTB

Job ID: 880-48521-1 (Continued)

Eurofins Midland

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.

4

5

9

10

12

13

12

Matrix: Solid

Lab Sample ID: 880-48521-1

Client: Ensolum

Job ID: 880-48521-1

Project/Site: Reaps State 160 CTR

SDC: 32.473369 103.5754411

Project/Site: Boone State 160 CTB SDG: 32.473369, -103.5754411

Client Sample ID: CS01
Date Collected: 09/16/24 13:10
Date Received: 09/17/24 08:50

Sample Depth: 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/23/24 09:50	09/23/24 17:13	1
Toluene	0.00260		0.00200		mg/Kg		09/23/24 09:50	09/23/24 17:13	1
Ethylbenzene	0.00220		0.00200		mg/Kg		09/23/24 09:50	09/23/24 17:13	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/23/24 09:50	09/23/24 17:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/23/24 09:50	09/23/24 17:13	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/23/24 09:50	09/23/24 17:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	55	S1-	70 - 130				09/23/24 09:50	09/23/24 17:13	1
1,4-Difluorobenzene (Surr)	85		70 - 130				09/23/24 09:50	09/23/24 17:13	1

IVIET	nod: TAL SUP Total BTEX -	lotal BIE	x Caiculatio	on						
Anal	/te	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total	BTEX	0.00480		0.00401		mg/Kg			09/23/24 17:13	1

Method: SW846 8015 NM -	Diesel Range Organics (D	RO) (GC)					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U	49.9	mg/Kg			09/18/24 20:37	1

Method: SW846 8015B NM - Die	esel Range	Organics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/17/24 13:28	09/18/24 20:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/17/24 13:28	09/18/24 20:37	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/17/24 13:28	09/18/24 20:37	1
Total TPH	<49.9	U	49.9		mg/Kg		09/17/24 13:28	09/18/24 20:37	1

Surrogate	%Recovery	Quaimer	Limits	Prepared	Analyzea	DII Fac
1-Chlorooctane	103		70 - 130	09/17/24 13:28	09/18/24 20:37	1
o-Terphenyl	87		70 - 130	09/17/24 13:28	09/18/24 20:37	1
_						

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble											
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	23.2		5.01		mg/Kg			09/17/24 18:37	1		

Client Sample ID: CS02

Date Collected: 09/16/24 13:12

Lab Sample ID: 880-48521-2

Matrix: Solid

Date Received: 09/17/24 08:50

Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)											
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Benzene	<0.00200	U	0.00200		mg/Kg		09/20/24 10:45	09/23/24 04:29	1		
Toluene	<0.00200	U	0.00200		mg/Kg		09/20/24 10:45	09/23/24 04:29	1		
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/20/24 10:45	09/23/24 04:29	1		
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/20/24 10:45	09/23/24 04:29	1		
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/20/24 10:45	09/23/24 04:29	1		
Xylenes, Total	< 0.00401	U	0.00401		mg/Kg		09/20/24 10:45	09/23/24 04:29	1		

Matrix: Solid

Client: Ensolum Job ID: 880-48521-1

Project/Site: Boone State 160 CTB SDG: 32.473369, -103.5754411

Client Sample ID: CS02 Lab Sample ID: 880-48521-2 Date Collected: 09/16/24 13:12

Date Received: 09/17/24 08:50 Sample Depth: 1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	338	S1+	70 - 130	09/20/24 10:45	09/23/24 04:29	1
1,4-Difluorobenzene (Surr)	66	S1-	70 - 130	09/20/24 10:45	09/23/24 04:29	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Total BTEX <0.00401 U 0.00401 mg/Kg 09/23/24 04:29

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

Result Qualifier D **MDL** Unit Prepared Analyzed Dil Fac Total TPH <49.8 U 49.8 09/18/24 20:53 mg/Kg

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

Result Qualifier **MDL** Unit D **Analyte** Prepared Analyzed Dil Fac Gasoline Range Organics <49.8 U 49.8 09/17/24 13:28 09/18/24 20:53 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.8 U 49.8 mg/Kg 09/17/24 13:28 09/18/24 20:53 C10-C28) Oil Range Organics (Over C28-C36) <49.8 U 49.8 mg/Kg 09/17/24 13:28 09/18/24 20:53 Total TPH <49.8 U 49.8 mg/Kg 09/17/24 13:28 09/18/24 20:53

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 86 70 - 130 09/17/24 13:28 09/18/24 20:53 67 S1-70 - 130 09/17/24 13:28 09/18/24 20:53 o-Terphenyl

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 09/17/24 18:46 mg/Kg

Client Sample ID: CS03 Lab Sample ID: 880-48521-3 Date Collected: 09/16/24 13:14 **Matrix: Solid**

Date Received: 09/17/24 08:50

Sample Depth: 1

Analyte

Total BTEX

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		09/20/24 10:45	09/23/24 04:50	1
Toluene	<0.00202	U	0.00202		mg/Kg		09/20/24 10:45	09/23/24 04:50	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		09/20/24 10:45	09/23/24 04:50	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		09/20/24 10:45	09/23/24 04:50	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		09/20/24 10:45	09/23/24 04:50	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		09/20/24 10:45	09/23/24 04:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				09/20/24 10:45	09/23/24 04:50	1
1.4-Difluorobenzene (Surr)	107		70 - 130				09/20/24 10:45	09/23/24 04:50	1

Result Qualifier

<0.00403 U

Eurofins Midland

Analyzed

09/23/24 04:50

RL

0.00403

MDL Unit

mg/Kg

Prepared

Dil Fac

Client: Ensolum Job ID: 880-48521-1

Project/Site: Boone State 160 CTB SDG: 32.473369, -103.5754411

Client Sample ID: CS03 Lab Sample ID: 880-48521-3 Date Collected: 09/16/24 13:14

Matrix: Solid Date Received: 09/17/24 08:50

Sample Depth: 1

Method: SW846 8015 NM - Diesel	Range (Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			09/18/24 21:09	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		09/17/24 13:28	09/18/24 21:09	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		09/17/24 13:28	09/18/24 21:09	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		09/17/24 13:28	09/18/24 21:09	1
Total TPH	<49.7	U	49.7		mg/Kg		09/17/24 13:28	09/18/24 21:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				09/17/24 13:28	09/18/24 21:09	1
o-Terphenyl	67	S1-	70 - 130				09/17/24 13:28	09/18/24 21:09	1

Method: EPA 300.0 - Anions, Ion C	hroma	tography - S	Soluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			09/17/24 18:55	1

Lab Sample ID: 880-48521-4 **Client Sample ID: CS04**

Date Collected: 09/16/24 13:16 Date Received: 09/17/24 08:50

Sample Depth: 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/20/24 10:45	09/23/24 05:10	1
Toluene	< 0.00199	U	0.00199		mg/Kg		09/20/24 10:45	09/23/24 05:10	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/20/24 10:45	09/23/24 05:10	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/20/24 10:45	09/23/24 05:10	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		09/20/24 10:45	09/23/24 05:10	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/20/24 10:45	09/23/24 05:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130				09/20/24 10:45	09/23/24 05:10	1
1,4-Difluorobenzene (Surr)	107		70 - 130				09/20/24 10:45	09/23/24 05:10	1

Method: TAL SOP Total BTEX - Total BTEX Calculation										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Total BTEX	<0.00398	U	0.00398		mg/Kg			09/23/24 05:10	1

Method: SW846 8015 NM - Die	sel Range C	Organics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/18/24 21:25	1

- Method: SW846 8015B NM - Die	esel Range	Organics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/17/24 13:28	09/18/24 21:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/17/24 13:28	09/18/24 21:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/17/24 13:28	09/18/24 21:25	1

Eurofins Midland

Matrix: Solid

Client: Ensolum Job ID: 880-48521-1

Project/Site: Boone State 160 CTB SDG: 32.473369, -103.5754411

Client Sample ID: CS04 Lab Sample ID: 880-48521-4 Date Collected: 09/16/24 13:16 **Matrix: Solid**

Date Received: 09/17/24 08:50 Sample Depth: 1

Method: SW846 8015	B NM - Diesel Range	Organics	(DRO) (GC)	(Continu	ed)				
Analyte	Result	Qualifier	RL	MDL U	nit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	m	ıg/Kg		09/17/24 13:28	09/18/24 21:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				09/17/24 13:28	09/18/24 21:25	1
o-Terphenyl	84		70 - 130				09/17/24 13:28	09/18/24 21:25	1

Method: EPA 300.0 - Anions, Id	on Chromate	ography -	Soluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.97	U	4.97		mg/Kg			09/17/24 19:04	1

Client Sample ID: SW01 Lab Sample ID: 880-48521-5 Date Collected: 09/16/24 13:18 Matrix: Solid

Date Received: 09/17/24 08:50

Sample Depth: 0-1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/20/24 10:45	09/23/24 05:30	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/20/24 10:45	09/23/24 05:30	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		09/20/24 10:45	09/23/24 05:30	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/20/24 10:45	09/23/24 05:30	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		09/20/24 10:45	09/23/24 05:30	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/20/24 10:45	09/23/24 05:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

,	•		•	•	
4-Bromofluorobenzene (Surr)	124	70 - 130	09/20/24 10:45	09/23/24 05:30	1
1,4-Difluorobenzene (Surr)	117	70 - 130	09/20/24 10:45	09/23/24 05:30	1
Mothod: TAL SOR Total PTEV	Total DTEV	Coloulation			

mothod: I/LE OO! Total BTEX	TOTAL DIE	· Ouloulut						
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			09/23/24 05:30	1
_								

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Total TPH	<49.8	U	49.8		mg/Kg			09/18/24 21:41	1

		_							•
Method: SW846 8015B NM - [Diesel Range	o Organics	(DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		09/17/24 13:28	09/18/24 21:41	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/17/24 13:28	09/18/24 21:41	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/17/24 13:28	09/18/24 21:41	1
Total TPH	<49.8	U	49.8		mg/Kg		09/17/24 13:28	09/18/24 21:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				09/17/24 13:28	09/18/24 21:41	1
o-Terphenyl	73		70 - 130				09/17/24 13:28	09/18/24 21:41	1

Job ID: 880-48521-1

Client: Ensolum Project/Site: Boone State 160 CTB SDG: 32.473369, -103.5754411

Client Sample ID: SW01 Lab Sample ID: 880-48521-5 Matrix: Solid

Date Collected: 09/16/24 13:18 Date Received: 09/17/24 08:50

Sample Depth: 0-1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	<5.03	U	5.03	mg/Kg			09/17/24 19:12	1		

Client Sample ID: SW02 Lab Sample ID: 880-48521-6 **Matrix: Solid**

Date Collected: 09/16/24 13:20 Date Received: 09/17/24 08:50

Sample Depth: 0-1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/20/24 10:45	09/23/24 05:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/20/24 10:45	09/23/24 05:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/20/24 10:45	09/23/24 05:51	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/20/24 10:45	09/23/24 05:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/20/24 10:45	09/23/24 05:51	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/20/24 10:45	09/23/24 05:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				09/20/24 10:45	09/23/24 05:51	1
1,4-Difluorobenzene (Surr)	112		70 - 130				09/20/24 10:45	09/23/24 05:51	1

Method: TAL SOP Total BTEX -	· Total BTE	X Calculat	ion						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/23/24 05:51	1

Method: SW846 8015 NM - Dies	sel Range Organics (Df	RO) (GC)					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	70.7	49.8	mg/Kg			09/18/24 21:57	1

Method: SW846 8015B NM - D	Diesel Range	Organics	(DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		09/17/24 13:28	09/18/24 21:57	1
Diesel Range Organics (Over C10-C28)	70.7		49.8		mg/Kg		09/17/24 13:28	09/18/24 21:57	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/17/24 13:28	09/18/24 21:57	1
Total TPH	70.7		49.8		mg/Kg		09/17/24 13:28	09/18/24 21:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				09/17/24 13:28	09/18/24 21:57	1
o-Terphenyl	69	S1-	70 - 130				09/17/24 13:28	09/18/24 21:57	1

Method: EPA 300.0 - Anions, Id	on Chromat	ography -	Soluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.99	U	4.99		mg/Kg			09/17/24 19:21	1

Surrogate Summary

 Client: Ensolum
 Job ID: 880-48521-1

 Project/Site: Boone State 160 CTB
 SDG: 32.473369, -103.5754411

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		5554		nt Surrogate Recovery (Acceptance Limi
		BFB1	DFBZ1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
80-48521-1	CS01	55 S1-	85	
80-48521-1 MS	CS01	115	102	
80-48521-1 MSD	CS01	112	99	
30-48521-2	CS02	338 S1+	66 S1-	
80-48521-3	CS03	99	107	
80-48521-4	CS04	111	107	
80-48521-5	SW01	124	117	
80-48521-6	SW02	111	112	
CS 880-91311/1-A	Lab Control Sample	110	96	
CS 880-91369/1-A	Lab Control Sample	100	99	
CSD 880-91311/2-A	Lab Control Sample Dup	110	103	
CSD 880-91369/2-A	Lab Control Sample Dup	102	98	
MB 880-91227/5-A	Method Blank	170 S1+	99	
/IB 880-91311/5-A	Method Blank	185 S1+	113	
MB 880-91369/5-A	Method Blank	107	99	
Surrogate Legend				
BFB = 4-Bromofluorob	(0)			

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

Matrix: Solid Prep Type: Total/NA

			Percent Surrogate Recove	ry (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	70-130)	
880-48521-1	CS01	103	87	
880-48521-2	CS02	86	67 S1-	
880-48521-3	CS03	85	67 S1-	
880-48521-4	CS04	105	84	
880-48521-5	SW01	91	73	
880-48521-6	SW02	87	69 S1-	
LCS 880-91010/2-A	Lab Control Sample	95	92	
LCSD 880-91010/3-A	Lab Control Sample Dup	93	87	
MB 880-91010/1-A	Method Blank	132 S1+	116	

1CO = 1-Chlorooctane OTPH = o-Terphenyl

Eurofins Midland

Ľ

3

5

7

9

11

13

ы

00/0004 /Day

Client: Ensolum Job ID: 880-48521-1 Project/Site: Boone State 160 CTB SDG: 32.473369, -103.5754411

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-91227/5-A

Matrix: Solid

Analysis Batch: 91420

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 91227

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/19/24 13:42	09/22/24 16:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/19/24 13:42	09/22/24 16:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/19/24 13:42	09/22/24 16:04	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/19/24 13:42	09/22/24 16:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/19/24 13:42	09/22/24 16:04	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/19/24 13:42	09/22/24 16:04	1

MB MB

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	170	S1+	70 - 130
1.4-Difluorobenzene (Surr)	99		70 - 130

Prepared Analyzed Dil Fac 09/19/24 13:42 09/22/24 16:04 09/19/24 13:42 09/22/24 16:04

Lab Sample ID: MB 880-91311/5-A

Matrix: Solid

Analysis Batch: 91420

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

Prep Batch: 91311

MB MB Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Benzene 09/20/24 10:45 09/23/24 03:40 <0.00200 U 0.00200 mg/Kg Toluene mg/Kg 09/20/24 10:45 09/23/24 03:40 <0.00200 U 0.00200 Ethylbenzene mg/Kg <0.00200 U 0.00200 09/20/24 10:45 09/23/24 03:40 m-Xylene & p-Xylene <0.00400 U 0.00400 mg/Kg 09/20/24 10:45 09/23/24 03:40 o-Xylene <0.00200 U 0.00200 mg/Kg 09/20/24 10:45 09/23/24 03:40 Xylenes, Total <0.00400 U 0.00400 mg/Kg 09/20/24 10:45 09/23/24 03:40

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	185	S1+	70 - 130	09/20/24 10:45	09/23/24 03:40	1
1,4-Difluorobenzene (Surr)	113		70 - 130	09/20/24 10:45	09/23/24 03:40	1

Lab Sample ID: LCS 880-91311/1-A

Matrix: Solid

Analysis Batch: 91420

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

Prep Batch: 91311

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08794		mg/Kg		88	70 - 130	
Toluene	0.100	0.08031		mg/Kg		80	70 - 130	
Ethylbenzene	0.100	0.09666		mg/Kg		97	70 - 130	
m-Xylene & p-Xylene	0.200	0.2084		mg/Kg		104	70 - 130	
o-Xylene	0.100	0.09591		mg/Kg		96	70 - 130	

LCS LCS

Surrogate	%Recovery Qual	ifier Limits
4-Bromofluorobenzene (Surr)	110	70 - 130
1.4-Difluorobenzene (Surr)	96	70 - 130

Lab Sample ID: LCSD 880-91311/2-A

Matrix: Solid

Analyte

Benzene

Analysis Batch: 91420

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA Prep Batch: 91311

%Rec

95

%Rec **RPD** Limits RPD Limit 70 - 130 8

Eurofins Midland

LCSD LCSD

0.09488

Result Qualifier

Unit

mg/Kg

Spike

Added

0.100

QC Sample Results

Client: Ensolum Job ID: 880-48521-1 Project/Site: Boone State 160 CTB SDG: 32.473369, -103.5754411

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

Lab Sample ID: LCSD 880-91311/2-A

Matrix: Solid

Analysis Batch: 91420

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 91311

LCSD LCSD Spike %Rec **RPD** Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit Toluene 0.100 0.08076 mg/Kg 81 70 - 130 35 1 Ethylbenzene 0.100 0.09871 mg/Kg 99 70 - 130 2 35 m-Xylene & p-Xylene 0.200 0.2166 mg/Kg 70 - 130 35 108 o-Xylene 0.100 0.1007 mg/Kg 101 70 - 130 35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 880-48521-1 MS

Matrix: Solid

Analysis Batch: 91420

Client Sample ID: CS01 Prep Type: Total/NA

Prep Batch: 91311

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.0562	F1	0.101	0.09273	F1	mg/Kg		36	70 - 130	
Toluene	0.0410	F1	0.101	0.08338	F1	mg/Kg		42	70 - 130	
Ethylbenzene	0.0613	F1	0.101	0.09222	F1	mg/Kg		31	70 - 130	
m-Xylene & p-Xylene	0.0220		0.202	0.2048		mg/Kg		91	70 - 130	
o-Xylene	0.464	E	0.101	0.09866	4	mg/Kg		-362	70 - 130	

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	115	70 - 130
1,4-Difluorobenzene (Surr)	102	70 - 130

Lab Sample ID: 880-48521-1 MSD

Matrix: Solid

Analysis Batch: 91420

Client Sample ID: CS01 Prep Type: Total/NA

Prep Batch: 91311

-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.0562	F1	0.0998	0.09199	F1	mg/Kg		36	70 - 130	1	35
Toluene	0.0410	F1	0.0998	0.08034	F1	mg/Kg		39	70 - 130	4	35
Ethylbenzene	0.0613	F1	0.0998	0.09657	F1	mg/Kg		35	70 - 130	5	35
m-Xylene & p-Xylene	0.0220		0.200	0.2089		mg/Kg		94	70 - 130	2	35
o-Xylene	0.464	Е	0.0998	0.09738	4	mg/Kg		-367	70 - 130	1	35

MSD MSD

MD MD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: MB 880-91369/5-A

Matrix: Solid

Analysis Batch: 91431

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

Prep Batch: 91369

	IAID	IVID						
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/20/24 15:45	09/23/24 11:24	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/20/24 15:45	09/23/24 11:24	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/20/24 15:45	09/23/24 11:24	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		09/20/24 15:45	09/23/24 11:24	1

Client: Ensolum Job ID: 880-48521-1 Project/Site: Boone State 160 CTB SDG: 32.473369, -103.5754411

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

Lab Sample ID: MB 880-91369/5-A

Matrix: Solid

Analysis Batch: 91431

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 91369

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/20/24 15:45	09/23/24 11:24	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/20/24 15:45	09/23/24 11:24	1

MB MB

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107	70 - 130	09/20/24 15:45	09/23/24 11:24	1
1,4-Difluorobenzene (Surr)	99	70 - 130	09/20/24 15:45	09/23/24 11:24	1

Lab Sample ID: LCS 880-91369/1-A Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 91431

Prep Type: Total/NA

Prep Batch: 91369

ı		Spike	LCS	LCS				%Rec	
l	Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
	Benzene	0.100	0.08242		mg/Kg		82	70 - 130	
	Toluene	0.100	0.07877		mg/Kg		79	70 - 130	
	Ethylbenzene	0.100	0.07785		mg/Kg		78	70 - 130	
İ	m-Xylene & p-Xylene	0.200	0.1658		mg/Kg		83	70 - 130	
	o-Xylene	0.100	0.08337		mg/Kg		83	70 - 130	
1									

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-91369/2-A

Matrix: Solid

Analysis Batch: 91431

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 91369

7 many one Battern of the t									
-	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08127		mg/Kg		81	70 - 130	1	35
Toluene	0.100	0.07787		mg/Kg		78	70 - 130	1	35
Ethylbenzene	0.100	0.07697		mg/Kg		77	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.1638		mg/Kg		82	70 - 130	1	35
o-Xylene	0.100	0.08260		mg/Kg		83	70 - 130	1	35

LCSD LCSD

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

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

Lab Sample ID: MB 880-91010/1-A

Matrix: Solid

Analysis Batch: 91142

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 91010

	MB	MR							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/17/24 13:28	09/18/24 13:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/17/24 13:28	09/18/24 13:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/17/24 13:28	09/18/24 13:09	1

o-Terphenyl

09/17/24 13:28 09/18/24 13:09

 Client: Ensolum
 Job ID: 880-48521-1

 Project/Site: Boone State 160 CTB
 SDG: 32.473369, -103.5754411

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

116

Lab Sample ID: MB 880-91010/1-A

Matrix: Solid

Analysis Batch: 91142

MB MB

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 91010

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	Ū	50.0		mg/Kg		09/17/24 13:28	09/18/24 13:09	1
	MB	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130				09/17/24 13:28	09/18/24 13:09	1

70 - 130

Lab Sample ID: LCS 880-91010/2-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 91142** Prep Batch: 91010 Spike LCS LCS Added Result Qualifier Limits Analyte Unit D %Rec Gasoline Range Organics 1000 880.4 mg/Kg 88 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 1000 755.3 mg/Kg 76 70 - 130 C10-C28) LCS LCS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 70 - 130 95 o-Terphenyl 92 70 - 130

Lab Sample ID: LCSD 88 Matrix: Solid Analysis Batch: 91142		C	Client Sa	mple	ID: Lat	ab Control Samp. Prep Type: To Prep Batch:		tal/NA			
•			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10			1000	877.7		mg/Kg		88	70 - 130	0	20
Diesel Range Organics (Over C10-C28)			1000	731.9		mg/Kg		73	70 - 130	3	20
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
1 Chlorocetano	0.2		70 120								

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	93	70 - 130
o-Terphenyl	87	70 - 130
1-Chlorooctane	93	70 - 13

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-91004/1-A

Matrix: Solid

Analysis Batch: 91009

Client Sample ID: Method Blank
Prep Type: Soluble

 Analyte
 Result Chloride
 Qualifier School
 RL School
 MDL mg/Kg
 Unit mg/Kg
 D prepared prepared property
 Analyzed pil Fac poly17/24 14:58
 D pil Fac property

Lab Sample ID: LCS 880-91004/2-A Matrix: Solid	Client Sample ID: Lab Control Sample Prep Type: Soluble
Analysis Batch: 91009	

_	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	230.2		mg/Kg		92	90 - 110	

Eurofins Midland

Released to Imaging: 11/7/2024 8:51:08 AM

QC Sample Results

Client: Ensolum Job ID: 880-48521-1 Project/Site: Boone State 160 CTB SDG: 32.473369, -103.5754411

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-91004/3-A **Client Sample ID: Lab Control Sample Dup Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 91009

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	231.3		mg/Kg		93	90 - 110	0	20

QC Association Summary

Client: Ensolum Job ID: 880-48521-1 Project/Site: Boone State 160 CTB SDG: 32.473369, -103.5754411

GC VOA

Prep Batch: 91227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-91227/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 91311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48521-2	CS02	Total/NA	Solid	5035	
880-48521-3	CS03	Total/NA	Solid	5035	
880-48521-4	CS04	Total/NA	Solid	5035	
880-48521-5	SW01	Total/NA	Solid	5035	
880-48521-6	SW02	Total/NA	Solid	5035	
MB 880-91311/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-91311/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-91311/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-48521-1 MS	CS01	Total/NA	Solid	5035	
880-48521-1 MSD	CS01	Total/NA	Solid	5035	

Prep Batch: 91369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48521-1	CS01	Total/NA	Solid	5035	
MB 880-91369/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-91369/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-91369/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 91420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48521-2	CS02	Total/NA	Solid	8021B	91311
880-48521-3	CS03	Total/NA	Solid	8021B	91311
880-48521-4	CS04	Total/NA	Solid	8021B	91311
880-48521-5	SW01	Total/NA	Solid	8021B	91311
880-48521-6	SW02	Total/NA	Solid	8021B	91311
MB 880-91227/5-A	Method Blank	Total/NA	Solid	8021B	91227
MB 880-91311/5-A	Method Blank	Total/NA	Solid	8021B	91311
LCS 880-91311/1-A	Lab Control Sample	Total/NA	Solid	8021B	91311
LCSD 880-91311/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	91311
880-48521-1 MS	CS01	Total/NA	Solid	8021B	91311
880-48521-1 MSD	CS01	Total/NA	Solid	8021B	91311

Analysis Batch: 91431

Lab Sample ID 880-48521-1	Client Sample ID CS01	Prep Type Total/NA	Matrix Solid	Method 8021B	Prep Batch 91369
MB 880-91369/5-A	Method Blank	Total/NA	Solid	8021B	91369
LCS 880-91369/1-A	Lab Control Sample	Total/NA	Solid	8021B	91369
LCSD 880-91369/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	91369

Analysis Batch: 91473

Lab Sample ID 880-48521-1	Client Sample ID CS01	Prep Type Total/NA	Matrix Solid	Method Total BTEX	Prep Batch
880-48521-2	CS02	Total/NA	Solid	Total BTEX	
880-48521-3	CS03	Total/NA	Solid	Total BTEX	
880-48521-4	CS04	Total/NA	Solid	Total BTEX	
880-48521-5	SW01	Total/NA	Solid	Total BTEX	
880-48521-6	SW02	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Ensolum Job ID: 880-48521-1 Project/Site: Boone State 160 CTB SDG: 32.473369, -103.5754411

GC Semi VOA

Prep Batch: 91010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48521-1	CS01	Total/NA	Solid	8015NM Prep	
880-48521-2	CS02	Total/NA	Solid	8015NM Prep	
880-48521-3	CS03	Total/NA	Solid	8015NM Prep	
880-48521-4	CS04	Total/NA	Solid	8015NM Prep	
880-48521-5	SW01	Total/NA	Solid	8015NM Prep	
880-48521-6	SW02	Total/NA	Solid	8015NM Prep	
MB 880-91010/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-91010/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-91010/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 91142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48521-1	CS01	Total/NA	Solid	8015B NM	91010
880-48521-2	CS02	Total/NA	Solid	8015B NM	91010
880-48521-3	CS03	Total/NA	Solid	8015B NM	91010
880-48521-4	CS04	Total/NA	Solid	8015B NM	91010
880-48521-5	SW01	Total/NA	Solid	8015B NM	91010
880-48521-6	SW02	Total/NA	Solid	8015B NM	91010
MB 880-91010/1-A	Method Blank	Total/NA	Solid	8015B NM	91010
LCS 880-91010/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	91010
LCSD 880-91010/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	91010

Analysis Batch: 91208

Client Sample ID	Prep Type	Matrix	Method	Prep Batch
CS01	Total/NA	Solid	8015 NM	
CS02	Total/NA	Solid	8015 NM	
CS03	Total/NA	Solid	8015 NM	
CS04	Total/NA	Solid	8015 NM	
SW01	Total/NA	Solid	8015 NM	
SW02	Total/NA	Solid	8015 NM	
	CS01 CS02 CS03 CS04 SW01	CS01 Total/NA CS02 Total/NA CS03 Total/NA CS04 Total/NA SW01 Total/NA	CS01 Total/NA Solid CS02 Total/NA Solid CS03 Total/NA Solid CS04 Total/NA Solid SW01 Total/NA Solid	CS01 Total/NA Solid 8015 NM CS02 Total/NA Solid 8015 NM CS03 Total/NA Solid 8015 NM CS04 Total/NA Solid 8015 NM SW01 Total/NA Solid 8015 NM

HPLC/IC

Leach Batch: 91004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48521-1	CS01	Soluble	Solid	DI Leach	
880-48521-2	CS02	Soluble	Solid	DI Leach	
880-48521-3	CS03	Soluble	Solid	DI Leach	
880-48521-4	CS04	Soluble	Solid	DI Leach	
880-48521-5	SW01	Soluble	Solid	DI Leach	
880-48521-6	SW02	Soluble	Solid	DI Leach	
MB 880-91004/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-91004/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-91004/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 91009

Released to Imaging: 11/7/2024 8:51:08 AM

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48521-1	CS01	Soluble	Solid	300.0	91004
880-48521-2	CS02	Soluble	Solid	300.0	91004
880-48521-3	CS03	Soluble	Solid	300.0	91004
880-48521-4	CS04	Soluble	Solid	300.0	91004

QC Association Summary

Client: Ensolum Job ID: 880-48521-1 Project/Site: Boone State 160 CTB SDG: 32.473369, -103.5754411

HPLC/IC (Continued)

Analysis Batch: 91009 (Continued)

Lab Sample ID 880-48521-5	Client Sample ID SW01	Prep Type Soluble	Matrix Solid	Method 300.0	Prep Batch 91004	
880-48521-6	SW02	Soluble	Solid	300.0	91004	
MB 880-91004/1-A	Method Blank	Soluble	Solid	300.0	91004	
LCS 880-91004/2-A	Lab Control Sample	Soluble	Solid	300.0	91004	
LCSD 880-91004/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	91004	

SDG: 32.473369, -103.5754411

Client Sample ID: CS01

Client: Ensolum

Lab Sample ID: 880-48521-1

Date Collected: 09/16/24 13:10 Date Received: 09/17/24 08:50

Project/Site: Boone State 160 CTB

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			91369	MNR	EET MID	09/23/24 09:50
Total/NA	Analysis	8021B		1	91431	MNR	EET MID	09/23/24 17:13
Total/NA	Analysis	Total BTEX		1	91473	SM	EET MID	09/23/24 17:13
Total/NA	Analysis	8015 NM		1	91208	SM	EET MID	09/18/24 20:37
Total/NA	Prep	8015NM Prep			91010	EL	EET MID	09/17/24 13:28
Total/NA	Analysis	8015B NM		1	91142	TKC	EET MID	09/18/24 20:37
Soluble	Leach	DI Leach			91004	SA	EET MID	09/17/24 11:47
Soluble	Analysis	300.0		1	91009	CH	EET MID	09/17/24 18:37

Lab Sample ID: 880-48521-2

Date Collected: 09/16/24 13:12

Matrix: Solid

Date Received: 09/17/24 08:50

Client Sample ID: CS02

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			91311	MNR	EET MID	09/20/24 10:45
Total/NA	Analysis	8021B		1	91420	MNR	EET MID	09/23/24 04:29
Total/NA	Analysis	Total BTEX		1	91473	SM	EET MID	09/23/24 04:29
Total/NA	Analysis	8015 NM		1	91208	SM	EET MID	09/18/24 20:53
Total/NA	Prep	8015NM Prep			91010	EL	EET MID	09/17/24 13:28
Total/NA	Analysis	8015B NM		1	91142	TKC	EET MID	09/18/24 20:53
Soluble	Leach	DI Leach			91004	SA	EET MID	09/17/24 11:47
Soluble	Analysis	300.0		1	91009	CH	EET MID	09/17/24 18:46

Client Sample ID: CS03 Lab Sample ID: 880-48521-3 Date Collected: 09/16/24 13:14

Date Received: 09/17/24 08:50

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035		-	91311	MNR	EET MID	09/20/24 10:45
Total/NA	Analysis	8021B		1	91420	MNR	EET MID	09/23/24 04:50
Total/NA	Analysis	Total BTEX		1	91473	SM	EET MID	09/23/24 04:50
Total/NA	Analysis	8015 NM		1	91208	SM	EET MID	09/18/24 21:09
Total/NA	Prep	8015NM Prep			91010	EL	EET MID	09/17/24 13:28
Total/NA	Analysis	8015B NM		1	91142	TKC	EET MID	09/18/24 21:09
Soluble	Leach	DI Leach			91004	SA	EET MID	09/17/24 11:47
Soluble	Analysis	300.0		1	91009	CH	EET MID	09/17/24 18:55

Client Sample ID: CS04 Lab Sample ID: 880-48521-4

Date Collected: 09/16/24 13:16 Date Received: 09/17/24 08:50

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			91311	MNR	EET MID	09/20/24 10:45
Total/NA	Analysis	8021B		1	91420	MNR	EET MID	09/23/24 05:10
Total/NA	Analysis	Total BTEX		1	91473	SM	EET MID	09/23/24 05:10

Job ID: 880-48521-1

Client: Ensolum Project/Site: Boone State 160 CTB SDG: 32.473369, -103.5754411

Lab Sample ID: 880-48521-4

Client Sample ID: CS04 Date Collected: 09/16/24 13:16 Date Received: 09/17/24 08:50

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8015 NM		1	91208	SM	EET MID	09/18/24 21:25
Total/NA	Prep	8015NM Prep			91010	EL	EET MID	09/17/24 13:28
Total/NA	Analysis	8015B NM		1	91142	TKC	EET MID	09/18/24 21:25
Soluble	Leach	DI Leach			91004	SA	EET MID	09/17/24 11:47
Soluble	Analysis	300.0		1	91009	CH	EET MID	09/17/24 19:04

Lab Sample ID: 880-48521-5

Matrix: Solid

Date Collected: 09/16/24 13:18 Date Received: 09/17/24 08:50

Client Sample ID: SW01

_	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			91311	MNR	EET MID	09/20/24 10:45
Total/NA	Analysis	8021B		1	91420	MNR	EET MID	09/23/24 05:30
Total/NA	Analysis	Total BTEX		1	91473	SM	EET MID	09/23/24 05:30
Total/NA	Analysis	8015 NM		1	91208	SM	EET MID	09/18/24 21:41
Total/NA	Prep	8015NM Prep			91010	EL	EET MID	09/17/24 13:28
Total/NA	Analysis	8015B NM		1	91142	TKC	EET MID	09/18/24 21:41
Soluble	Leach	DI Leach			91004	SA	EET MID	09/17/24 11:47
Soluble	Analysis	300.0		1	91009	CH	EET MID	09/17/24 19:12

Client Sample ID: SW02 Lab Sample ID: 880-48521-6 Date Collected: 09/16/24 13:20 **Matrix: Solid**

Date Received: 09/17/24 08:50

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			91311	MNR	EET MID	09/20/24 10:45
Total/NA	Analysis	8021B		1	91420	MNR	EET MID	09/23/24 05:51
Total/NA	Analysis	Total BTEX		1	91473	SM	EET MID	09/23/24 05:51
Total/NA	Analysis	8015 NM		1	91208	SM	EET MID	09/18/24 21:57
Total/NA	Prep	8015NM Prep			91010	EL	EET MID	09/17/24 13:28
Total/NA	Analysis	8015B NM		1	91142	TKC	EET MID	09/18/24 21:57
Soluble	Leach	DI Leach			91004	SA	EET MID	09/17/24 11:47
Soluble	Analysis	300.0		1	91009	CH	EET MID	09/17/24 19:21

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum Job ID: 880-48521-1 Project/Site: Boone State 160 CTB SDG: 32.473369, -103.5754411

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	06-30-25

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: Boone State 160 CTB

Job ID: 880-48521-1

SDG: 32.473369, -103.5754411

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

Job ID: 880-48521-1 SDG: 32.473369, -103.5754411 Project/Site: Boone State 160 CTB

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-48521-1	CS01	Solid	09/16/24 13:10	09/17/24 08:50	1
880-48521-2	CS02	Solid	09/16/24 13:12	09/17/24 08:50	1
880-48521-3	CS03	Solid	09/16/24 13:14	09/17/24 08:50	1
880-48521-4	CS04	Solid	09/16/24 13:16	09/17/24 08:50	1
880-48521-5	SW01	Solid	09/16/24 13:18	09/17/24 08:50	0-1
880-48521-6	SW02	Solid	09/16/24 13:20	09/17/24 08:50	0-1

Eurofins Midland 9/30/2024 (Rev. 1)

880-48521 Chain of Custody

Work Or

Chain of Custody

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

Environment Testing

eurofins 🛟

Xenco

Project Manager: L	David McInnis			Bill to: (if dif	different)							Work O	Work Order Comments	S
Company Name:	Ensolum, LLC			Company Name	lame:						Program: UST/PS	sT∏ PRP∏B	ownfields RR	Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
Address: 6	601 N. Marienfeld Street, Suite 400	et, Suite 400		Address:							State of Project:			
City, State ZIP:	Midland, TX 79701			City, State ZIP:	ZIP:						Reporting: Level II	☐ Level III☐	PST/UST 🗌 TRI	Reporting: Level III Level III PST/UST TRRP Level IV
Phone: 4	409-454-3009		Email:	Email: dmcinnis@ensolum.com	@ensol	noo.mr					Deliverables: EDD		ADaPT Other:	ler.
Project Name:	Boone State 160 CTB	78	Turn	Turn Around					Ā	NALYSIS	ANALYSIS REQUEST		Pres	Preservative Codes
	9624202020		✓ Routine	Rush	Pres. Code	ž Š							None: NO	DI Water: H ₂ O
	32.473369 -103.575411	11/5.	Due Date:										Cool: Cool	MeOH: Me
ler's Name:	V. Materies		TAT starts the day received by	e day receive	d by								HCL: HC	HNO ₃ : HN
PO #:		1	the lab, if rec	eived by 4:30	_	_							H ₂ SO ₄ : H ₂	NaOH: Na
SAMPLE RECEIPT	T Temp Blank:	Yes No	Wet Ice:	Yes, N	S 1939	1035							H ₃ PO ₄ : HP	
Samples Received Intact:	ict: (Yes) No	Thermometer ID:	er ID:	72.	X.	(NaHSO ₄ : NABIS	(BIS
Cooler Custody Seals:	O N/A	Correction Factor	actor:	1	-d								Na ₂ S ₂ O ₃ : NaSO ₃	SO ₃
Sample Custody Seals:	Yes No	Temperature Reading:	Beading:	3		10	J						Zn Acetate+NaOH: Zn	NaOH: Zn
Total Containers:)	Corrected Temperature:	emperature:	7	2	3-	د برم						NaOH+Ascor	NaOH+Ascorbic Acid: SAPC
Sample Identification	fication Matrix	Date Sampled	Time Sampled	Depth C	Grab/ # of Comp Cont		9/47						Sam	Sample Comments
C501	5	11/91/6	1310	_	7	1	1							4 oz
2057	5		1312	_	1 7	7	7							4 oz
(057	5		H181		7	>	7							4 02
H057	5		9161	-	2	1	1							4 oz
10/115	5		1318	1-0	7	1	\							4 oz
5W02	3	7	1320	1-0	7	3	>							402
						_		-				_		

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

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 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 Deams 1	2	of 17 burgso	2		
3		-	4		
S			9		
					Revised Date: 08/05/2009 R

Login Sample Receipt Checklist

Client: Ensolum Job Number: 880-48521-1 SDG Number: 32.473369, -103.5754411

List Source: Eurofins Midland

Login Number: 48521 List Number: 1

Creator: Vasquez, Julisa

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	

Euronnis Milalana

Released to Imaging: 11/7/2024 8:51:08 AM

1

7

5

_

10

14

1/

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 391534

QUESTIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	391534
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2422763744
Incident Name	NAPP2422763744 BOONE STATE 160 CTB @ 0
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received
Incident Facility	[fAPP2129337290] Boone St 160 CTB

Location of Release Source	
Please answer all the questions in this group.	
Site Name	Boone State 160 CTB
Date Release Discovered	08/14/2024
Surface Owner	Private

Incident Details	
Please answer all the questions in this group.	
Incident Type	Oil Release
Did this release result in a fire or is the result of a fire	Yes
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release		
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.		
Crude Oil Released (bbls) Details	Cause: Repair and Maintenance Other (Specify) Crude Oil Released: 1 BBL Recovered: 0 BBL Lost: 1 BBL.	
Produced Water Released (bbls) Details	Not answered.	
Is the concentration of chloride in the produced water >10,000 mg/l	No	
Condensate Released (bbls) Details	Not answered.	
Natural Gas Vented (Mcf) Details	Not answered.	
Natural Gas Flared (Mcf) Details	Not answered.	
Other Released Details	Not answered.	
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.	

District I

1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 **District III**

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 2

Action 391534

	(continu	
	ICONTINI	וחמו

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	391534
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	More info needed to determine if this will be treated as a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (2) an unauthorized release of a volume that: (a) results in a fire or is the result of a fire.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

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	True	
The impacted area has been secured to protect human health and the environment	True	
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True	
All free liquids and recoverable materials have been removed and managed appropriately	True	
If all the actions described above have not been undertaken, explain why	Emergency services were not notified The release was confined to the facility pad The facility has been cleared by safety personnel	

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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.

Name: Brittany Esparza
Title: Environmental Technician
Email: brittany.Esparza@ConocoPhillips.com
Date: 08/19/2024

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III 1000 Rio Brazos Rd., Aztec, NM 87410

Phone:(505) 334-6178 Fax:(505) 334-6170 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 3

Action 391534

QUESTIONS (continued)

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	391534
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization		
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). 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 in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)	
What method was used to determine the depth to ground water	NM OSE iWaters Database Search	
Did this release impact groundwater or surface water	No	
What is the minimum distance, between the closest lateral extents of the release an	nd the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 500 and 1000 (ft.)	
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)	
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)	
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)	
Any other fresh water well or spring	Between 1 and 5 (mi.)	
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)	
A wetland	Between 500 and 1000 (ft.)	
A subsurface mine	Greater than 5 (mi.)	
An (non-karst) unstable area	Greater than 5 (mi.)	
Categorize the risk of this well / site being in a karst geology	None	
A 100-year floodplain	Between 500 and 1000 (ft.)	
Did the release impact areas not on an exploration, development, production, or storage site	No	

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be pro	ovided to the appropriate district office no later than 90 days after the release discovery date.
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil conta	amination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	0
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes consider which includes the anticipated timelines for beginning and completing the remediation.	completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,
On what estimated date will the remediation commence	09/12/2024
On what date will (or did) the final sampling or liner inspection occur	09/12/2024
On what date will (or was) the remediation complete(d)	09/12/2024
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	10762
What is the estimated volume (in cubic yards) that will be remediated	0
These estimated dates and measurements are recognized to be the best guess or calculate	tion at the time of submission and may (be) change(d) over time as more remediation efforts are completed.
The OCD recognizes that proposed remediation measures may have to be minimally adju	usted in accordance with the physical realities encountered during remediation. If the responsible party has any need to

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

QUESTIONS, Page 4

Action 391534

QUESTIONS (continued)

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	391534
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)		
Please answer all the questions that apply or are indicated. This information must be provided to the	appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:		
(Select all answers below that apply.)		
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes	
Which OCD approved facility will be used for off-site disposal	Boone St 160 CTB [fAPP2129337290]	
OR which OCD approved well (API) will be used for off-site disposal	Not answered.	
OR is the off-site disposal site, to be used, out-of-state	Not answered.	
OR is the off-site disposal site, to be used, an NMED facility	Not answered.	
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No	
(In Situ) Soil Vapor Extraction	Not answered.	
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.	
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.	
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.	
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.	
OTHER (Non-listed remedial process)	Not answered.	

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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.

I hereby agree and sign off to the above statement

Name: Brittany Esparza
Title: Environmental Technician

Email: brittany.Esparza@ConocoPhillips.com

Date: 10/10/2024

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

Released to Imaging: 11/7/2024 8:51:08 AM

District I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 5

Action 391534

QUESTIONS (continued)

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	391534
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation. Requesting a deferral of the remediation closure due date with the approval of this No submission

District I

District III

1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720

<u>District II</u> 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 6

Action 391534

QUESTIONS (continued)

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	391534
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	391442
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/14/2024
What was the (estimated) number of samples that were to be gathered	2
What was the sampling surface area in square feet	400

Remediation Closure Request		
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.		
Requesting a remediation closure approval with this submission	Yes	
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	No	
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes	
What was the total surface area (in square feet) remediated	797	
What was the total volume (cubic yards) remediated	30	
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes	
What was the total surface area (in square feet) reclaimed	797	
What was the total volume (in cubic yards) reclaimed	30	
Summarize any additional remediation activities not included by answers (above)	Initial response efforts, excavation of impacted soil, and remediation activities have mitigated impacts at this Site. Depth to groundwater has been estimated to be greater than 100 feet bgs and no other sensitive receptors were identified near the release extent.	

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 (in .pdf format) 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.

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.

Name: Brittany Esparza
Title: Environmental Technician
Email: brittany.Esparza@ConocoPhillips.com
Date: 10/10/2024

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 7

Action 391534

QUESTIONS (continued)

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	391534
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 391534

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	391534
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

rhamlet	We have received your Remediation Closure Report for Incident #NAPP2422763744 BOONE STATE 160 CTB, thank you. This Remediation Closure Report is approved.	11/7/2024	
Created By	Condition	Condition Date	