

June 20, 2023

New Mexico Oil Conservation Division

New Mexico Energy, Minerals, and Natural Resources Department 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Re: Closure Request

Red Bull 35 Federal 001 Incident Number NAPP2126444907 Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of ConocoPhillips Company (COP), has prepared this *Closure Request* to document depth to groundwater determination and excavation soil sampling activities performed at the Red Bull 35 Federal 001 (Site). The depth to groundwater determination and excavation soil sampling activities were completed as outlined in the *Revised Remediation Work Plan (RRWP)*, submitted to the New Mexico Oil Conservation Division (NMOCD) on September 1, 2022, and approved by the NMOCD on September 9, 2022. Based on confirmed depth to groundwater and the excavation soil sample analytical results, COP is submitting this *Closure Request*, describing remediation that has occurred and requesting closure for Incident Number NAPP2126444907.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit K, Section 35, Township 25 South, Range 33 East, in Lea County, New Mexico (32.08518° N, 103.5452° W) and is associated with oil and gas exploration and production operations on private land.

On September 3, 2021, a flare released approximately 0.01 barrels (bbls) crude oil, which ignited and extinguished itself after reaching the ground. COP immediately reported the release to the NMOCD via email on September 3, 2021, and submitted a Release Notification Form C-141 (Form C-141) on September 21, 2021. The release was assigned Incident Number NAPP2126444907.

BACKGROUND

The *RRWP* detailed site characterization 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 site characterization are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential site receptors are identified on Figure 1. Based on the results of the Site Characterization, the following NMOCD Table I Closure Criteria (Closure Criteria) were applied:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 601 North Marienfeld Street, Suite 400 | Midland, TX 78209 | ensolum.com

 Total petroleum hydrocarbons (TPH) - gasoline range organics (GRO) and diesel range organics (DRO): 1,000 mg/kg

TPH: 2,500 mg/kg

Chloride: 20,000 mg/kg

Between September 2021 and March 2022, Site assessment and delineation activities were conducted at the Site to assess the lateral and vertical extent of impacted soil resulting from the September 3, 2021, crude oil flare fire. Based on the assessment and delineation soil sample analytical results, TPH impacted soil was identified in the top 2 feet of the release area. The impacted soil was laterally and vertically delineated to below the Site Closure Criteria. COP submitted a *Remediation Work Plan* (*Work Plan*) on July 29, 2022, proposing excavation and disposal of the impacted soil. Additional details regarding the delineation activities can be referenced in the July 29, 2022, *Work Plan*.

August 2, 2022, NMOCD denied the *Work Plan* for Incident Number NAPP2126444907 for the following reason:

• Remediation Plan Denied. The depth to groundwater has not been adequately determined. When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided in the submission. The responsible party may choose to remediate to the most stringent levels listed in Table 1 of 19.15.29 NMAC in lieu of drilling to determine the depth to groundwater. Release has not been sufficiently addressed to the most stringent criteria.

In response to the NMOCD denial, COP submitted a *Revised Remediation Work Plan (RRWP)* on September 1, 2022, proposing to install a depth to water boring within 0.5 miles of the Site to confirm depth to groundwater is greater than 100 feet below ground surface (bgs) and excavation of impacted soil to below the confirmed Site Closure Criteria. The *RRWP* was approved by NMOCD on September 9, 2022.

Upon approval of the *RRWP*, COP proceeded with excavation of the impacted soil and installation of a soil boring for determination of groundwater depth, as outlined in the *RRWP*.

DEPTH TO WATER DETERMINATION

On April 18, 2023, a borehole (BH01) was advanced to a depth of 106 feet bgs via hollow stem auger for determination of groundwater depth. The borehole was located approximately 380 feet southeast of the Site and is depicted on Figure 1. A field geologist logged and described soils continuously. The borehole lithologic log is included in Appendix A. No groundwater was encountered in the borehole to a depth of 106 feet bgs. The borehole was left open for over 72 hours to allow for potential slow infill of groundwater. After the 72-hour waiting period, no groundwater was observed and the borehole was properly abandoned using hydrated bentonite chips.

Based on confirmed depth to groundwater greater than 100 feet bgs within 0.5 miles of the Site, the Table I Closure Criteria identified in the *RRWP* are applicable and appropriate for protection of groundwater at this Site.



COG Operating, LLC Closure Request Red Bull Federal 001 June 20, 2023

Page 3

EXCAVATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On August 22, 2022, Ensolum personnel were onsite to oversee excavation activities as outlined in the approved *RRWP*. Excavation activities were performed via back-hoe and transport vehicles. To direct excavation activities, soil was field screened for volatile organic compounds (VOCs) and chloride utilizing Hach® chloride QuanTab® test strips. The excavation was completed to depths ranging from 1-foot to 2.5 feet bgs. Photographic documentation of the excavation activities is included in Appendix B.

Following removal of impacted soil, 5-point composite soil samples were collected every 200 square feet from the floor and sidewalls of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS04 were collected from the floor of the excavation at depths ranging from 1-foot to 2 feet bgs. Composite soil samples SW01 and SW02 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 2 feet bgs. The excavation extent and excavation soil sample locations were mapped utilizing a handheld GPS unit and are depicted on Figure 2.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of the following constituents of concern (COC): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0. Soil samples delivered to the laboratory the same day they are collected may not have equilibrated to the 6 degrees Celcius required for shipment, but are considered to have been received in acceptable condition.

Laboratory analytical results for excavation soil samples FS01, FS02, and SW01 indicated all COC concentrations were compliant with the Site Closure Criteria. Laboratory analytical results for excavation soil samples FS03, FS04, and SW02 indicated that TPH concentrations exceeded Site Closure Criteria.

Ensolum personnel returned to the Site on December 7, 2022, to oversee additional excavation activities to remove impacted soil from the floor and sidewall of the excavation in the vicinity of excavation soil samples FS03, FS04, and SW02. To direct excavation activities, soil was screened for VOCs and chloride. The excavation was completed to a total depth of 2.5 feet bgs. Upon completion of excavation activities, 5-point composite soil samples FS03A, FS04A, and SW03 were collected from the floor and sidewall of the excavation. The soil samples were collected, handled, and analyzed following the same procedure described above. Laboratory analytical results are provided on Table 1 and laboratory analytical reports are included as Appendix C.

The excavation measured approximately 800 square feet in areal extent. A total of approximately 35 cubic yards of impacted soil were removed during the excavation activities. The soil was transported and properly disposed of at the R360 Disposal Facility in Hobbs, New Mexico. After completion of confirmation sampling, the excavation was secured with fencing.

CLOSURE REQUEST

Delineation and excavation activities were conducted at the Site to address the impacted soil resulting from the September 3, 2021, crude oil flare fire. Excavation activities were completed as outlined in the approved *RRWP*. 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.



COG Operating, LLC Closure Request Red Bull Federal 001 June 20, 2023

Page 4

Additionally, the release was laterally delineated at the surface to below the most stringent Table I Closure Criteria by assessment samples SS05 through SS09, as presented in the *RRWP*.

Depth to groundwater is confirmed to be greater than 100 feet bgs and no other sensitive receptors were identified near the release extent. Based on laboratory analytical results compliant with the Site Closure Criteria, no further remediation is required. As such, COP respectfully requests closure for Incident Number NAPP2126444907. COP backfilled the excavation with material purchased locally and recontour the Site to match pre-existing site conditions. The Final C-141 is included as Appendix D.

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

Sincerely,

Ensolum, LLC

Julianna Falcomata Staff Geologist

Videodok wata

Kalei Jennings Senior Scientist

cc: Jacob Laird, COG Operating, LLC

New Mexico State Land Office

Appendices:

Figure 1 Site Receptor Map

Figure 2 Excavation Soil Sample Locations
Table 1 Soil Sample Analytical Results

Appendix A Lithologic Sample Logs Appendix B Photographic Log

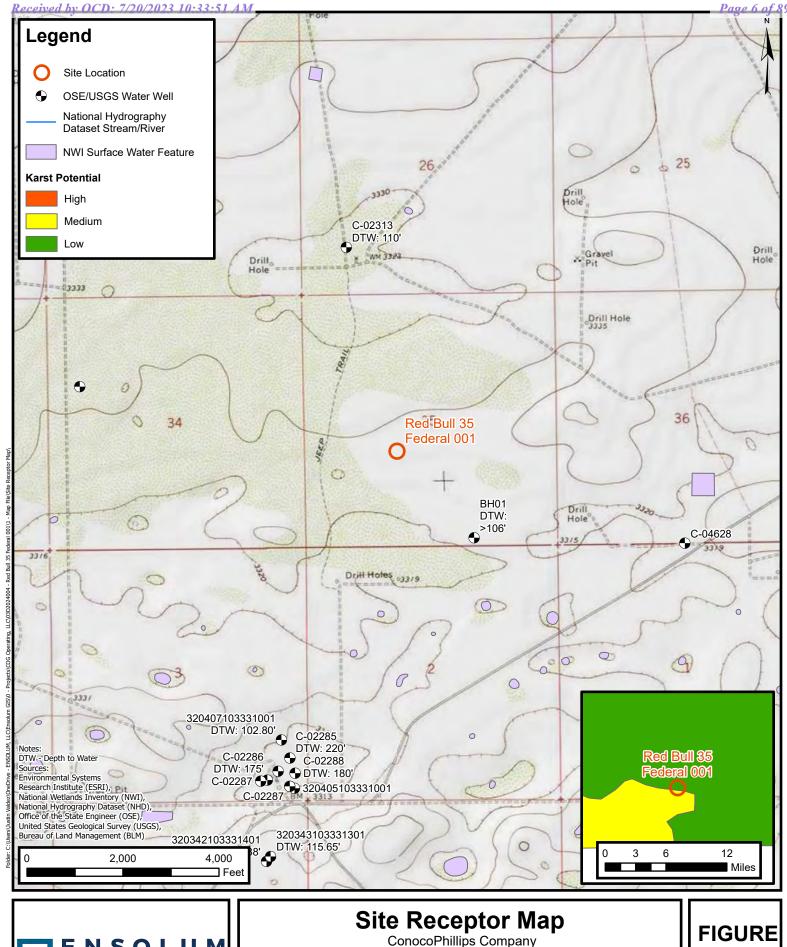
Appendix C Laboratory Analytical Reports & Chain-of-Custody Documentation

Appendix D Final C-141





FIGURES





ConocoPhillips Company Red Bull 35 Federal 001 Incident Number: NAPP2126444907 Unit K, Sec 35, T25S, R33E Lea County, NM Lea County, NM IGURE 1

Released to Imaging: 10/13/2023 2:36.13 PM





Excavation Soil Sample Locations

ConocoPhillips Company
Red Bull 35 Federal 001
Incident Number: NAPP2126444907
Unit K, Sec 35, T25S, R33E Lea County, NM
Lea County, NM

FIGURE 2



TABLES



TABLE 1

SOIL SAMPLE ANALYTICAL RESULTS

Red Bull 35 Federal 001 ConocoPhillips Company Lea County, New Mexico

					oounty, row mo					
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I	NMOCD Table I Closure Criteria (NMAC 19.15.29)			50	NE	NE	NE	1,000	2,500	20,000
	Excavation Floor Samples									
FS01	08/22/2022	1	<0.00200	<0.00399	<50.0	79.1	<50.0	79.1	79.1	1,700
FS02	08/22/2022	2	<0.00201	<0.00402	<49.9	145	<49.9	145	145	1,610
FS03	08/22/2022	2	<0.0399	1	<49.9	2,930	407	2,930	3,340	1,280
FS03A	12/07/2022	2.5	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	15.6
FS04	08/22/2022	2	<0.0398	< 0.0795	<50.0	2,190	273	2,190	2,460	628
FS04A	12/07/2022	2.5	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	13.6
				Excav	ation Sidewall Sa	amples				
SW01	08/22/2022	0 - 2	<0.00201	<0.00402	<49.8	62.1	<49.8	62.1	62.1	514
SW02	08/22/2022	0 - 2	<0.00200	< 0.00399	<49.9	3,070	385.0	3,070	3,460	576
SW03	12/07/2022	0 - 2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	55.1

Notes:

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

NMOCD: New Mexico Oil Conservation Division BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

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

TPH: Total Petroleum Hydrocarbon

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

Grey text represents samples that have been excavated



APPENDIX A

Lithologic / Sampling Logs

Sample Name: BH01 Date: 04/18/2023 Site Name: Redbull Federal 35 Incident Number: nAPP2126444907 Job Number: 03D2024004 LITHOLOGIC / SOIL SAMPLING LOG Logged By: J. Falcomata Method: Hollow Stem Coordinates: 32.0848815, -103.5447991 Hole Diameter: 5" Total Depth: 106'

Comments: Soil boring was advanced to a total depth of 106' bgs. No water was observed within the soil boring after at least 72 hours. On 04/21/2023 the soil boring was plugged and abandoned using hydrated bentonite chips.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
					1 - -	<u> </u>		Note: Driller injected well with a water and soap mixture @ 50' to help stabilize well and prevent cave in. Due to collapse, well cased @ 60' using 2" polypipe casing.
Dry	-	-	N	-		10	SP-SC	(10') SAND: fine grained - med grained, trace
						- -		amounts med sized gravel, poorly graded, tan - yellow brown, no odor, non plastic, non cohesive.
Dry	-	-	N	-		20	SP-SM	(20') SAND: fine grained, slightly silty poorly
						-		graded, med-reddish brown, no odor, non plastic,
Dry	-	-	N	-	_	30	SP-SM	non cohesive (30') SAND: fine grained, slightly silty, poorly
					_	-		graded, reddish brown - slightly orange, no odor,
Dry	-	-	N	-		40	SP-SM	non plastic, non cohesive. (40') SAND: fine grained, slightly silty, poorly
					-	-		graded, orangish brown, no odor, non plastic, non
Dry	-	-	N	-		_ 50	SP-SM	cohesive. (50') SAND: fine grained, silty, poorly sorted,
					-	-		orangish brown to medium brown, no odor, non
Dry	-	-	N	-		60	SP-SM	plastic, non cohesive. (60') SAND: fine grained, silty, poorly sorted,
					-	-		orangish brown to medium brown, no odor, non
Wet	-	-	N	-		- 70	SP-SM	plastic, non cohesive. (70') SAND: fine grained, silty, poorly graded,
					-	-		medium brown - tan, wet from injection, no odor,
Wet	-	-	N	-		80	SP-SM	non plastic, non cohesive. (80') SAND: fine grained, silty, poorly graded, ,
					-	-		medium, wet from injection, no odor, non plastic,
Wet	-	-	N	-		90	SP-SM	non cohesive. (90') SAND: fine grained, silty, poorly graded, ,
					-	-		medium, wet from injection, no odor, non plastic,
Wet	-	-	N	-		100	SP-SM	non cohesive. (100') SAND: fine grained, silty, poorly sorted,
					-	-		medium brown - brown, wet from injection, no
Wet	-	-	N	-	-	_ 	SP-SM	odor, non plastic, non cohesive. AA

Total Depth @ 106 feet bgs



APPENDIX B

Photographic Log

ENSOLUM

Photographic Log

ConocoPhillips Company Red Bull 35 Federal 001 Incident Number NAPP2126444907



Description: Photo of release extent taken during initial

Photograph 1

Date: 09/27/2021

Photograph 2

Date: 12/06/2021

Description: Photo of PH01 taken during delineation activities.



Photograph 3

Description: Photo of PH02 taken during delineation

activities.

Photograph 4

Date: 03/10/2022

Description: Photo of PH03 taken during delineation

activities.



Photographic Log

COG Operating, LLC Red Bul 35 Federal 001 NAPP2126444907





Photograph: 1 Date: 8/25/2022

Description: Excavation Activities

View: North

Photograph: 2 Date: 8/25/2023

Description: Excavation activities

View: East



Photograph: 3 Date: 4/18/2023

Description: Drilling DTW well

View: Northwest



Photograph: 4 Date: 4/18/2023

Description: Completed DTW well

View: Southwest



APPENDIX C

Laboratory Analytical Results

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kalei Jennings Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701

JOB DESCRIPTION

Generated 12/21/2022 2:23:02 PM

RED BULL 35 FED 1 SDG NUMBER New Mexico

JOB NUMBER

890-3596-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

Authorization

Generated 12/21/2022 2:23:02 PM

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

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies Page 2 of 21

Client: Ensolum Laboratory Job ID: 890-3596-1 Project/Site: RED BULL 35 FED 1

SDG: New Mexico

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	8
QC Sample Results	9
QC Association Summary	13
Lab Chronicle	15
Certification Summary	16
Method Summary	17
Sample Summary	18
Chain of Custody	19
Receipt Checklists	20

Definitions/Glossary

Job ID: 890-3596-1 Client: Ensolum Project/Site: RED BULL 35 FED 1

SDG: New Mexico

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

*1 LCS/LCSD RPD exceeds control limits.

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

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

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

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

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

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

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

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

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

NC Not Calculated

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

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

PRES Presumptive

QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Project/Site: RED BULL 35 FED 1

Job ID: 890-3596-1

SDG: New Mexico

Job ID: 890-3596-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3596-1

Receipt

The samples were received on 12/7/2022 2:29 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: FS01 (890-3596-1) and FS02 (890-3596-2).

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-41625 and analytical batch 880-41693 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-41693/5) and (LCS 880-41625/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The method blank for preparation batch 880-41625 and analytical batch 880-41693 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-41625 and analytical batch 880-41693 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28).

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.

2

3

4

_

1

9

1 1

40

14

Client Sample Results

Client: Ensolum Job ID: 890-3596-1 Project/Site: RED BULL 35 FED 1 SDG: New Mexico

Client Sample ID: FS01

Lab Sample ID: 890-3596-1 Date Collected: 12/07/22 08:22 Matrix: Solid Date Received: 12/07/22 14:29

Sample Depth: 1.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		12/17/22 16:57	12/21/22 11:59	1
Toluene	<0.00201	U	0.00201	mg/Kg		12/17/22 16:57	12/21/22 11:59	1
Ethylbenzene	< 0.00201	U	0.00201	mg/Kg		12/17/22 16:57	12/21/22 11:59	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		12/17/22 16:57	12/21/22 11:59	1
o-Xylene	< 0.00201	U	0.00201	mg/Kg		12/17/22 16:57	12/21/22 11:59	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		12/17/22 16:57	12/21/22 11:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130			12/17/22 16:57	12/21/22 11:59	1
1,4-Difluorobenzene (Surr)	88		70 - 130			12/17/22 16:57	12/21/22 11:59	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cal	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			12/21/22 14:44	1
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/14/22 12:15	1
- Method: SW846 8015B NM - Dies							,,	'
	sel Range Orga	nics (DRO)	(GC)					'
Analyte		nics (DRO) Qualifier	(GC)	Unit	D	Prepared	Analyzed	
		Qualifier		<mark>Unit</mark> mg/Kg	<u>D</u>	Prepared 12/12/22 11:00		Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U	RL		<u>D</u>		Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9	Qualifier U U *1	RL 49.9	mg/Kg	<u>D</u>	12/12/22 11:00	Analyzed 12/13/22 18:44	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9 <49.9	Qualifier U U*1	RL 49.9 49.9	mg/Kg	<u>D</u>	12/12/22 11:00 12/12/22 11:00	Analyzed 12/13/22 18:44 12/13/22 18:44	Dil Fac 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9 <49.9	Qualifier U U*1	RL 49.9 49.9 49.9	mg/Kg	<u> </u>	12/12/22 11:00 12/12/22 11:00 12/12/22 11:00	Analyzed 12/13/22 18:44 12/13/22 18:44 12/13/22 18:44	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate	Result <49.9 <49.9 <49.9 <49.9 %Recovery	Qualifier U U*1	RL 49.9 49.9 49.9 <i>Limits</i>	mg/Kg	<u>D</u>	12/12/22 11:00 12/12/22 11:00 12/12/22 11:00 Prepared	Analyzed 12/13/22 18:44 12/13/22 18:44 12/13/22 18:44 Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result <49.9 <49.9 <49.9 <49.9 <49.9 <120 <133 <133 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143 <143	Qualifier U *1 U Qualifier	RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg	<u>D</u>	12/12/22 11:00 12/12/22 11:00 12/12/22 11:00 Prepared 12/12/22 11:00	Analyzed 12/13/22 18:44 12/13/22 18:44 12/13/22 18:44 Analyzed 12/13/22 18:44	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U *1 U Qualifier	RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg	<u>D</u>	12/12/22 11:00 12/12/22 11:00 12/12/22 11:00 Prepared 12/12/22 11:00	Analyzed 12/13/22 18:44 12/13/22 18:44 12/13/22 18:44 Analyzed 12/13/22 18:44	Dil Fac

Client Sample ID: FS02 Lab Sample ID: 890-3596-2

Date Collected: 12/07/22 08:26 Date Received: 12/07/22 14:29

Released to Imaging: 10/13/2023 2:36:13 PM

Sample Depth: 1.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		12/17/22 16:57	12/21/22 12:20	1
Toluene	<0.00198	U	0.00198	mg/Kg		12/17/22 16:57	12/21/22 12:20	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		12/17/22 16:57	12/21/22 12:20	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		12/17/22 16:57	12/21/22 12:20	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		12/17/22 16:57	12/21/22 12:20	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		12/17/22 16:57	12/21/22 12:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			12/17/22 16:57	12/21/22 12:20	

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Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-3596-2

Client Sample Results

Client: Ensolum

Project/Site: RED BULL 35 FED 1

SDG: New Mexico

Client Sample ID: FS02

Date Collected: 12/07/22 08:26 Date Received: 12/07/22 14:29

Sample Depth: 1.5

Analyte

Chloride

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	95		70 - 130			12/17/22 16:57	12/21/22 12:20	
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	ulation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00396	U	0.00396	mg/Kg			12/21/22 14:44	1
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<49.9	П	49.9	mg/Kg			12/14/22 12:15	
IOIAI IFFI	٠٠٠٠٠	O	49.9	mg/rtg				
•				mg/Ng				
Method: SW846 8015B NM - Dies	sel Range Orga			Unit	D	Prepared	Analyzed	Dil Fac
Method: SW846 8015B NM - Dies Analyte	sel Range Orga	nics (DRO) Qualifier	(GC)		D	Prepared 12/12/22 11:00		Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	sel Range Orga Result	nics (DRO) Qualifier	(GC)	Unit	<u>D</u>		Analyzed	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	sel Range Orga Result	nics (DRO) Qualifier	(GC)	Unit	<u>D</u>		Analyzed	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	sel Range Orga Result <49.9	nics (DRO) Qualifier	(GC) RL 49.9	<mark>Unit</mark> mg/Kg	<u>D</u>	12/12/22 11:00	Analyzed 12/13/22 19:06	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	sel Range Orga Result <49.9	nics (DRO) Qualifier U	(GC) RL 49.9	<mark>Unit</mark> mg/Kg	<u>D</u>	12/12/22 11:00	Analyzed 12/13/22 19:06	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	sel Range Orga Result <49.9 <49.9	nics (DRO) Qualifier U *1	(GC) RL 49.9	Unit mg/Kg mg/Kg	<u> </u>	12/12/22 11:00 12/12/22 11:00	Analyzed 12/13/22 19:06 12/13/22 19:06	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	sel Range Orga Result <49.9 <49.9	nics (DRO) Qualifier U *1	(GC) RL 49.9 49.9 49.9	Unit mg/Kg mg/Kg	<u> </u>	12/12/22 11:00 12/12/22 11:00 12/12/22 11:00	Analyzed 12/13/22 19:06 12/13/22 19:06 12/13/22 19:06	

4.98

Unit

mg/Kg

D

Prepared

Analyzed

12/14/22 02:52

Result Qualifier

13.6

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3

5

8

10

12

4 4

14

Dil Fac

Surrogate Summary

Client: Ensolum

Project/Site: RED BULL 35 FED 1

SDG: New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-3596-1	FS01	112	88	
890-3596-1 MS	FS01	108	97	
890-3596-1 MSD	FS01	103	95	
890-3596-2	FS02	119	95	
LCS 880-42102/1-A	Lab Control Sample	104	86	
LCSD 880-42102/2-A	Lab Control Sample Dup	96	95	
MB 880-42102/5-A	Method Blank	104	87	

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

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

Matrix: Solid Prep Type: Total/NA

		1001	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-22478-A-1-E MS	Matrix Spike	125	104
880-22478-A-1-F MSD	Matrix Spike Duplicate	127	106
890-3596-1	FS01	120	113
890-3596-2	FS02	102	104
LCS 880-41625/2-A	Lab Control Sample	165 S1+	162 S1+
LCSD 880-41625/3-A	Lab Control Sample Dup	127	128
MB 880-41625/1-A	Method Blank	148 S1+	209 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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1

3

1

5

0

9

11

13

14

Client: Ensolum Job ID: 890-3596-1 Project/Site: RED BULL 35 FED 1 SDG: New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-42102/5-A

Matrix: Solid Analysis Batch: 42367 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 42102

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/17/22 16:57	12/21/22 11:37	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/17/22 16:57	12/21/22 11:37	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/17/22 16:57	12/21/22 11:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/17/22 16:57	12/21/22 11:37	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/17/22 16:57	12/21/22 11:37	1
Xylenes, Total	< 0.00400	U	0.00400	mg/Kg		12/17/22 16:57	12/21/22 11:37	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	,	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	12/	17/22 16:57	12/21/22 11:37	1
1,4-Difluorobenzene (Surr)	87		70 - 130	12/	17/22 16:57	12/21/22 11:37	1

Lab Sample ID: LCS 880-42102/1-A

Matrix: Solid

Analysis Batch: 42367

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 42102

	Spike	LCS	LUS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09547		mg/Kg		95	70 - 130	
Toluene	0.100	0.09588		mg/Kg		96	70 - 130	
Ethylbenzene	0.100	0.09711		mg/Kg		97	70 - 130	
m-Xylene & p-Xylene	0.200	0.2098		mg/Kg		105	70 - 130	
o-Xylene	0.100	0.1046		mg/Kg		105	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	104	70 - 130
1,4-Difluorobenzene (Surr)	86	70 - 130

Lab Sample ID: LCSD 880-42102/2-A

Matrix: Solid

Analysis Batch: 42367

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 42102

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Limit Benzene 0.100 0.09980 mg/Kg 100 70 - 130 35 Toluene 0.100 0.09557 mg/Kg 96 70 - 130 0 35 Ethylbenzene 0.100 0.09201 mg/Kg 92 70 - 130 5 35 0.200 0.1929 m-Xylene & p-Xylene mg/Kg 96 70 - 130 35 0.100 0.09532 70 - 130 o-Xylene mg/Kg 35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1.4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 890-3596-1 MS

Matrix: Solid

Analysis Batch: 42367

Client Sample ID: FS01 Prep Type: Total/NA

Prep Batch: 42102

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.100	0.08527		mg/Kg		85	70 - 130	
Toluene	<0.00201	U	0.100	0.07828		mg/Kg		78	70 - 130	

QC Sample Results

Job ID: 890-3596-1 Client: Ensolum Project/Site: RED BULL 35 FED 1 SDG: New Mexico

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

Lab Sample ID: 890-3596-1 MS **Matrix: Solid**

Analysis Batch: 42367

Client Sample ID: FS01 Prep Type: Total/NA

Prep Batch: 42102

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits D Ethylbenzene <0.00201 U 0.100 0.07303 73 70 - 130 mg/Kg m-Xylene & p-Xylene <0.00402 U 0.201 0.1563 mg/Kg 78 70 - 130 o-Xylene <0.00201 U 0.100 0.07955 79 70 - 130 mg/Kg

MS MS

Surrogate	%Recovery Q	ualifier Limits
4-Bromofluorobenzene (Surr)	108	70 - 130
1,4-Difluorobenzene (Surr)	97	70 - 130

Lab Sample ID: 890-3596-1 MSD

Matrix: Solid

Analysis Batch: 42367

Client Sample ID: FS01 Prep Type: Total/NA

Prep Batch: 42102

Sample Sample Spike MSD MSD RPD Result Qualifier %Rec RPD Limit Analyte babbA Result Qualifier Limits Unit Benzene <0.00201 U 0.0990 0.08417 mg/Kg 85 70 - 130 35 0.07691 Toluene <0.00201 U 0.0990 mg/Kg 78 70 - 130 2 35 Ethylbenzene <0.00201 U 0.0990 0.07004 71 70 - 130 35 mg/Kg 4 0.198 70 - 130 35 m-Xylene & p-Xylene <0.00402 U 0.1496 mg/Kg 76 0.0990 <0.00201 U 0.07544 76 70 - 130 o-Xylene mg/Kg 5

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

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

Lab Sample ID: MB 880-41625/1-A

Matrix: Solid

Analysis Batch: 41693

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

Prep Batch: 41625

мв мв Result Qualifier RL Unit D Prepared Analyzed Dil Fac Analyte 50.0 12/12/22 11:00 <50.0 U 12/13/22 08:06 Gasoline Range Organics mg/Kg (GRO)-C6-C10 12/12/22 11:00 12/13/22 08:06 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg C10-C28) OII Range Organics (Over C28-C36) <50.0 U 50.0 12/12/22 11:00 12/13/22 08:06 mg/Kg

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	148	S1+	70 - 130	12/12/22 11:00	12/13/22 08:06	1
o-Terphenyl	209	S1+	70 - 130	12/12/22 11:00	12/13/22 08:06	1

Lab Sample ID: LCS 880-41625/2-A

Matrix: Solid

Analysis Batch: 41693

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 41625

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	949.4	-	mg/Kg		95	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1175		mg/Kg		118	70 - 130	
C10-C28)								

Job ID: 890-3596-1 Client: Ensolum Project/Site: RED BULL 35 FED 1 SDG: New Mexico

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

LCS LCS

Lab Sample ID: LCS 880-41625/2-A

Matrix: Solid

Analysis Batch: 41693

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 41625

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 165 S1+ 70 - 130 o-Terphenyl 162 S1+ 70 - 130

Lab Sample ID: LCSD 880-41625/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 41693

Prep Type: Total/NA

Prep Batch: 41625

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 1000 922 3 92 70 - 1303 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 925.4 *1 93 mg/Kg 70 - 13024 20 C10-C28)

LCSD LCSD

Surrogate %Recovery Qualifier Limits 127 70 - 130 1-Chlorooctane 128 70 - 130 o-Terphenyl

Lab Sample ID: 880-22478-A-1-E MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 41693

Prep Type: Total/NA

Prep Batch: 41625

Sample Sample MS MS Spike Added Analyte Result Qualifier Result Qualifier Unit %Rec Limits D Gasoline Range Organics <50.0 U 999 1156 mg/Kg 113 70 - 130 (GRO)-C6-C10 <50.0 U *1 Diesel Range Organics (Over 999 1148 mg/Kg 113 70 - 130 C10-C28)

MS MS %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 125 o-Terphenyl 104 70 - 130

Lab Sample ID: 880-22478-A-1-F MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 41693

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Prep Type: Total/NA

Prep Batch: 41625

Sample Sample MSD MSD RPD Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit <50.0 U 997 1120 Gasoline Range Organics 109 70 - 130 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U *1 997 1190 mg/Kg 117 70 - 130 20

C10-C28)

MSD MSD

Qualifier Surrogate %Recovery Limits 1-Chlorooctane 127 70 - 130 106 70 - 130 o-Terphenyl

QC Sample Results

Client: Ensolum Job ID: 890-3596-1 Project/Site: RED BULL 35 FED 1

SDG: New Mexico

Prep Type: Soluble

Client Sample ID: Method Blank

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-41605/1-A

Matrix: Solid

Analysis Batch: 41692

мв мв

Dil Fac Analyte Result Qualifier RL Unit D Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 12/13/22 23:15

Lab Sample ID: LCS 880-41605/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 41692

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 244.7 mg/Kg 98 90 - 110

Lab Sample ID: LCSD 880-41605/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 41692

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 244.5 mg/Kg 90 - 110

Lab Sample ID: 880-22580-A-11-B MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 41692

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier %Rec Unit Limits 426.2 Chloride 172 248 102 90 - 110 mg/Kg

Lab Sample ID: 880-22580-A-11-C MSD

Matrix: Solid

Analysis Batch: 41692

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 248 172 425.6 mg/Kg 102 90 - 110 0 20

QC Association Summary

Client: Ensolum Job ID: 890-3596-1 Project/Site: RED BULL 35 FED 1 SDG: New Mexico

GC VOA

Prep Batch: 42102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3596-1	FS01	Total/NA	Solid	5035	
890-3596-2	FS02	Total/NA	Solid	5035	
MB 880-42102/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-42102/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-42102/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3596-1 MS	FS01	Total/NA	Solid	5035	
890-3596-1 MSD	FS01	Total/NA	Solid	5035	

Analysis Batch: 42367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3596-1	FS01	Total/NA	Solid	8021B	42102
890-3596-2	FS02	Total/NA	Solid	8021B	42102
MB 880-42102/5-A	Method Blank	Total/NA	Solid	8021B	42102
LCS 880-42102/1-A	Lab Control Sample	Total/NA	Solid	8021B	42102
LCSD 880-42102/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	42102
890-3596-1 MS	FS01	Total/NA	Solid	8021B	42102
890-3596-1 MSD	FS01	Total/NA	Solid	8021B	42102

Analysis Batch: 42425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3596-1	FS01	Total/NA	Solid	Total BTEX	
890-3596-2	FS02	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 41625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3596-1	FS01	Total/NA	Solid	8015NM Prep	
890-3596-2	FS02	Total/NA	Solid	8015NM Prep	
MB 880-41625/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-41625/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-41625/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-22478-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-22478-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 41693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3596-1	FS01	Total/NA	Solid	8015B NM	41625
890-3596-2	FS02	Total/NA	Solid	8015B NM	41625
MB 880-41625/1-A	Method Blank	Total/NA	Solid	8015B NM	41625
LCS 880-41625/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	41625
LCSD 880-41625/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	41625
880-22478-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	41625
880-22478-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	41625

Analysis Batch: 41812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3596-1	FS01	Total/NA	Solid	8015 NM	
890-3596-2	FS02	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Ensolum
Project/Site: RED BULL 35 FED 1
Job ID: 890-3596-1
SDG: New Mexico

HPLC/IC

Leach Batch: 41605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3596-1	FS01	Soluble	Solid	DI Leach	
890-3596-2	FS02	Soluble	Solid	DI Leach	
MB 880-41605/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-41605/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-41605/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-22580-A-11-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-22580-A-11-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 41692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3596-1	FS01	Soluble	Solid	300.0	41605
890-3596-2	FS02	Soluble	Solid	300.0	41605
MB 880-41605/1-A	Method Blank	Soluble	Solid	300.0	41605
LCS 880-41605/2-A	Lab Control Sample	Soluble	Solid	300.0	41605
LCSD 880-41605/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	41605
880-22580-A-11-B MS	Matrix Spike	Soluble	Solid	300.0	41605
880-22580-A-11-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	41605

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SDG: New Mexico

Client Sample ID: FS01

Date Received: 12/07/22 14:29

Project/Site: RED BULL 35 FED 1

Client: Ensolum

Lab Sample ID: 890-3596-1 Date Collected: 12/07/22 08:22

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	42102	12/17/22 16:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42367	12/21/22 11:59	SM	EET MID
Total/NA	Analysis	Total BTEX		1			42425	12/21/22 14:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			41812	12/14/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41625	12/12/22 11:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41693	12/13/22 18:44	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	41605	12/12/22 10:15	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	41692	12/14/22 02:45	CH	EET MID

Client Sample ID: FS02 Lab Sample ID: 890-3596-2

Date Collected: 12/07/22 08:26 Matrix: Solid

Date Received: 12/07/22 14:29

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	42102	12/17/22 16:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42367	12/21/22 12:20	SM	EET MID
Total/NA	Analysis	Total BTEX		1			42425	12/21/22 14:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			41812	12/14/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41625	12/12/22 11:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41693	12/13/22 19:06	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	41605	12/12/22 10:15	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	41692	12/14/22 02:52	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum

Project/Site: RED BULL 35 FED 1

Job ID: 890-3596-1

SDG: New Mexico

Laboratory: Eurofins Midland

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

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

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Method Summary

Client: Ensolum Job ID: 890-3596-1 Project/Site: RED BULL 35 FED 1 SDG: New Mexico

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	MCAWW	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

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum

Project/Site: RED BULL 35 FED 1

Job ID: 890-3596-1

SDG: New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3596-1	FS01	Solid	12/07/22 08:22	12/07/22 14:29	1.5
890-3596-2	FS02	Solid	12/07/22 08:26	12/07/22 14:29	1.5

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Page 19 of 21

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Chain of Custody

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

Work	Order	No:		

				-													******	.xcmcc		3			
Project Manager:	KALEI JEI	nnings			Bill to: (if di	fferent)	Kalei	Jennin	igs									Work	Order	Commen	its		
Company Name:	Ensolum, LLC				Company	Name:	Enso	lum, Ll	_C						-		_	_	Brownf	fields [RC [uperfun	d 🔲
Address:	601 N. Marienfe	ld Street, S	uite 400		Address:												NN			_	_	_	
City, State ZIP:	Midland, TX 797	701			City, State	ZIP:	l								Reporting: Level II Level III PST/UST TRRP Level IV						/ ⊔		
Phone:	432-557-8895			Email:	Hareen@	ensolum.c	om: K	iennin	as@e	nsolum	.com			Del	Deliverables: EDD 🔀 ADaPT 🗆 Other:								
Project Name:	RED BULL 3	5 FED I		Turn	Around	Fee.					-	ANAL'	YSIS RE	QUE	ST.					Pre	eservat	ive Code	s
Project Number:	Ø302024			Routine		Pres.								T					١	None: NO	(DI Water: H	I ₂ O
Project Location: Sampler's Name:	NEW MEXICAL HADUE GR	CO	10	Due Date:	Post State Sive	ed by														Cool: Cool HCL: HC		MeOH: Me HNO ₃ : HN	
PO#: SAMPLE RECE	Ø3020	2400	_	Wet Ice:	celved by 4:3	No To		12	0										- 1	H ₂ S0 ₄ : H ₂ H ₃ PO ₄ : HP		NaOH: Na	
Samples Received I Cooler Custody Sea Sample Custody Se	Intact: Yes No	No The N/A Con N/A Terr	rmometer rection Fa perature I	ID: JN	COM	Param	8015		SIDE			89	0-3596	Chain of Custody				NaHSO ₄ : N Na ₂ S ₂ O ₃ : N Zn Acetate	O₄: NABIS				
Total Containers: Sample Ide	entification	Matrix Sa	Date mpled	Time Sampled	Depth	Grab/ # of Comp Con		BTEX	CARO													omment	3
FSOI				2200	1.5	CI	\times	X	\geq						_					2-	40	5	
F502		SL 12-	-7-22	0826	1.5	C 1	X	X	X			_		_	-		-		-	/ Alexandra			
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Total 200.7 / 6 Circle Method(s) a			8	RCRA 13		xas 11 A : 8RCRA														45.1 / 74			
of service. Eurofins Xen	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be ilable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.																						
Relinquished b	y: (Signature)	_ F	Received	by: (Signa	ture)		Date	/Time		Reli	nquis	hed b	y: (Signa	ture)	T	Rec	eived b	oy: (Sig	gnature)	[Date/Time	

7/20/2023 10:33:51 AM

adlie Green

Revised Date 08/25/2020 Rev 2020 2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3596-1

SDG Number: New Mexico

Login Number: 3596 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

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

Page 20 of 21

12/21/2022

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-3596-1 SDG Number: New Mexico

Login Number: 3596 **List Source: Eurofins Midland** List Number: 2 List Creation: 12/12/22 02:26 PM

Creator: Rodriguez, Leticia

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

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

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JOB DESCRIPTION

Red Bull 35 Federal 001 SDG NUMBER 03D2024004

JOB NUMBER

890-4555-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

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

Authorization

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

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Laboratory Job ID: 890-4555-1 Client: Ensolum Project/Site: Red Bull 35 Federal 001 SDG: 03D2024004

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	7
QC Sample Results	8
QC Association Summary	12
Lab Chronicle	14
Certification Summary	15
Method Summary	16
Sample Summary	17
Chain of Custody	18
Receipt Checklists	19

Definitions/Glossary

Job ID: 890-4555-1 Client: Ensolum Project/Site: Red Bull 35 Federal 001 SDG: 03D2024004

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier **Qualifier Description** F2 MS/MSD RPD exceeds control limits

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

HPLC/IC

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

U Indicates the analyte was analyzed for but not detected.

Glossary

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

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

Duplicate Error Ratio (normalized absolute difference) DER

Dil Fac Dilution Factor

Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

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

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

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

Practical Quantitation Limit PQL

PRES Presumptive **Quality Control** QC

Relative Error Ratio (Radiochemistry) **RER**

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Project/Site: Red Bull 35 Federal 001

Job ID: 890-4555-1

SDG: 03D2024004

Job ID: 890-4555-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4555-1

Receipt

The sample was received on 4/20/2023 3:56 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 6.0°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: SW03 (890-4555-1).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: SW03 (890-4555-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-51848 and analytical batch 880-51824 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-51848/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (890-4554-A-11-B). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (CCV 880-51824/5). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (CCV 880-51824/31). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-51848 and analytical batch 880-51824 was outside control limits. Sample non-homogeneity is suspected.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-51824 recovered above the upper control limit for Gasoline Range Organics (GRO)-C6-C10. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-51824/5).

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-51907 and 880-51907 and analytical batch 880-52121 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. The associated samples are: SW03 (890-4555-1), (890-4548-A-6-F), (890-4548-A-6-G MS) and (890-4548-A-6-H MSD).

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

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Lab Sample ID: 890-4555-1

Client Sample Results

Client: Ensolum Job ID: 890-4555-1
Project/Site: Red Bull 35 Federal 001 SDG: 03D2024004

Client Sample ID: SW03

Date Collected: 04/20/23 09:45 Date Received: 04/20/23 15:56

Sample Depth: 0-2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		04/24/23 11:53	04/25/23 00:56	1
Toluene	< 0.00199	U	0.00199	mg/Kg		04/24/23 11:53	04/25/23 00:56	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		04/24/23 11:53	04/25/23 00:56	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/24/23 11:53	04/25/23 00:56	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		04/24/23 11:53	04/25/23 00:56	
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/24/23 11:53	04/25/23 00:56	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	62	S1-	70 - 130			04/24/23 11:53	04/25/23 00:56	1
1,4-Difluorobenzene (Surr)	77		70 - 130			04/24/23 11:53	04/25/23 00:56	1
- Method: TAL SOP Total BTEX - T	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			04/25/23 10:30	1
- Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			04/25/23 10:20	1
- Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/24/23 12:29	04/24/23 17:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/24/23 12:29	04/24/23 17:43	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/24/23 12:29	04/24/23 17:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130			04/24/23 12:29	04/24/23 17:43	1
o-Terphenyl	116		70 - 130			04/24/23 12:29	04/24/23 17:43	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	55.1		4.97	mg/Kg	_		04/27/23 17:13	1

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Surrogate Summary

Client: Ensolum Job ID: 890-4555-1 Project/Site: Red Bull 35 Federal 001 SDG: 03D2024004

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-4555-1	SW03	62 S1-	77
890-4559-A-1-A MS	Matrix Spike	122	110
890-4559-A-1-B MSD	Matrix Spike Duplicate	109	110
LCS 880-51842/1-A	Lab Control Sample	114	87
LCSD 880-51842/2-A	Lab Control Sample Dup	117	109
MB 880-51796/5-A	Method Blank	74	82
MB 880-51842/5-A	Method Blank	76	80

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

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

				Percent Surrogate Re
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-4554-A-11-C MS	Matrix Spike	91	103	
890-4554-A-11-D MSD	Matrix Spike Duplicate	109	117	
890-4555-1	SW03	101	116	
LCS 880-51848/2-A	Lab Control Sample	106	130	
LCSD 880-51848/3-A	Lab Control Sample Dup	124	150 S1+	
MB 880-51848/1-A	Method Blank	119	154 S1+	
Surrogate Legend				
1CO = 1-Chlorooctane				

OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-4555-1 Project/Site: Red Bull 35 Federal 001 SDG: 03D2024004

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-51796/5-A

Matrix: Solid

Analysis Batch: 51793

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 51796

	MR M	/IB						
Analyte	Result C	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200 U	J	0.00200	mg/Kg		04/24/23 08:38	04/24/23 11:49	
Toluene	<0.00200 U	J	0.00200	mg/Kg		04/24/23 08:38	04/24/23 11:49	
Ethylbenzene	<0.00200 U	J	0.00200	mg/Kg		04/24/23 08:38	04/24/23 11:49	
m-Xylene & p-Xylene	<0.00400 U	J	0.00400	mg/Kg		04/24/23 08:38	04/24/23 11:49	
o-Xylene	<0.00200 U	J	0.00200	mg/Kg		04/24/23 08:38	04/24/23 11:49	
Xylenes, Total	<0.00400 U	J	0.00400	mg/Kg		04/24/23 08:38	04/24/23 11:49	

MB MB

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	74		70 - 130
1,4-Difluorobenzene (Surr)	82		70 - 130

Dil Fac Prepared Analyzed 04/24/23 08:38 04/24/23 11:49 04/24/23 08:38 04/24/23 11:49

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 51842

Analysis Batch: 51793

Matrix: Solid

Lab Sample ID: MB 880-51842/5-A

мв мв

Analyte	Result Qu	ualifier R	_ Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200 U	0.0020	mg/Kg		04/24/23 11:53	04/24/23 23:12	1
Toluene	<0.00200 U	0.0020) mg/Kg		04/24/23 11:53	04/24/23 23:12	1
Ethylbenzene	<0.00200 U	0.0020) mg/Kg		04/24/23 11:53	04/24/23 23:12	1
m-Xylene & p-Xylene	<0.00400 U	0.0040) mg/Kg		04/24/23 11:53	04/24/23 23:12	1
o-Xylene	<0.00200 U	0.0020) mg/Kg		04/24/23 11:53	04/24/23 23:12	1
Xylenes, Total	<0.00400 U	0.0040) mg/Kg		04/24/23 11:53	04/24/23 23:12	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Pro	epared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76		70 - 130	04/24	1/23 11:53	04/24/23 23:12	1
1,4-Difluorobenzene (Surr)	80		70 - 130	04/24	1/23 11:53	04/24/23 23:12	1

Lab Sample ID: LCS 880-51842/1-A

Matrix: Solid

Analysis Batch: 51793

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 51842

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.07865		mg/Kg		79	70 - 130	
Toluene	0.100	0.08718		mg/Kg		87	70 - 130	
Ethylbenzene	0.100	0.08717		mg/Kg		87	70 - 130	
m-Xylene & p-Xylene	0.200	0.1841		mg/Kg		92	70 - 130	
o-Xylene	0.100	0.09410		mg/Kg		94	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	87		70 - 130

Lab Sample ID: LCSD 880-51842/2-A

Matrix: Solid

Analyte

Benzene

Analysis Batch: 51793

Client Sample ID: La	ib Control Sample Dup
	Prep Type: Total/NA

Prep Batch: 51842

Spike LCSD LCSD RPD %Rec Result Qualifier Limit Added Unit %Rec Limits RPD 0.100 0.08353 mg/Kg 84 70 - 130 6

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1

4/27/2023

Job ID: 890-4555-1 Client: Ensolum Project/Site: Red Bull 35 Federal 001 SDG: 03D2024004

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

Lab Sample ID: LCSD 880-51842/2-A

Matrix: Solid Analysis Batch: 51793 Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 51842

Spike LCSD LCSD %Rec **RPD** Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit D Toluene 0.100 0.09106 70 - 130 35 mg/Kg 91 4 Ethylbenzene 0.100 0.08957 mg/Kg 90 70 - 130 3 35 0.200 m-Xylene & p-Xylene 0.1885 mg/Kg 94 70 - 130 2 35 o-Xylene 0.100 0.09665 mg/Kg 97 70 - 130 3 35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: 890-4559-A-1-A MS

Matrix: Solid

Analysis Batch: 51793

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

Prep Batch: 51842

MS MS %Rec Sample Sample Spike Result Qualifier Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.0990 0.07712 <0.00200 mg/Kg 78 70 - 130 Toluene <0.00200 U 0.0990 0.07818 79 70 - 130 mg/Kg Ethylbenzene 0.0990 0.08385 70 - 130 <0.00200 U mg/Kg 85 <0.00399 U m-Xylene & p-Xylene 0.198 0.1760 89 70 - 130 mg/Kg o-Xylene <0.00200 U 0.0990 0.08930 mg/Kg 90 70 - 130

MS MS

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

Lab Sample ID: 890-4559-A-1-B MSD

Matrix: Solid

Analysis Batch: 51793

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 51842

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.101	0.08184		mg/Kg		81	70 - 130	6	35
Toluene	<0.00200	U	0.101	0.07949		mg/Kg		79	70 - 130	2	35
Ethylbenzene	<0.00200	U	0.101	0.07477		mg/Kg		74	70 - 130	11	35
m-Xylene & p-Xylene	<0.00399	U	0.202	0.1522		mg/Kg		75	70 - 130	15	35
o-Xylene	<0.00200	U	0.101	0.07719		mg/Kg		77	70 - 130	15	35

MSD MSD

Surrogate	76Recovery	Qualifier	LIIIIII
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	110		70 - 130

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

Lab Sample ID: MB 880-51848/1-A

Matrix: Solid

Analysis Batch: 51824

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

Prep Batch: 51848

MB MB Analyte Result Qualifier RL Unit Prepared Analyzed <50.0 U 50.0 mg/Kg 04/24/23 12:29 04/24/23 15:31 Gasoline Range Organics

(GRO)-C6-C10

Job ID: 890-4555-1 Client: Ensolum Project/Site: Red Bull 35 Federal 001 SDG: 03D2024004

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

Lab Sample ID: MB 880-51848/1-A

Matrix: Solid

Diesel Range Organics (Over

Oll Range Organics (Over C28-C36)

Analyte

C10-C28)

Analysis Batch: 51824 MB MB

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

mg/Kg

04/24/23 12:29

Prep Batch: 51848

04/24/23 15:31

Result Qualifier RL Unit Prepared Analyzed Dil Fac <50.0 U 50.0 04/24/23 12:29 04/24/23 15:31 mg/Kg

<50.0 U mg/Kg

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130	04/24/23 12:29	04/24/23 15:31	1
o-Terphenyl	154	S1+	70 - 130	04/24/23 12:29	04/24/23 15:31	1

50.0

Lab Sample ID: LCS 880-51848/2-A Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Batch: 51848 Analysis Batch: 51824 LCS LCS Spike Analyte Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics 1000 969.9 97 70 - 130 mg/Kg (GRO)-C6-C10

911.5

1000

Diesel Range Organics (Over C10-C28)

LCS LCS

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

Lab Sample ID: LCSD 880-51848/3-A

Matrix: Solid

Analysis Batch: 51824

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

70 - 130

91

Prep Type: Total/NA

Prep Batch: 51848 Spike LCSD LCSD %Rec **RPD**

Added Result Qualifier Limits RPD Limit Analyte Unit D %Rec Gasoline Range Organics 1000 1095 109 70 - 130 20 mg/Kg 12 (GRO)-C6-C10 Diesel Range Organics (Over 1000 1052 mg/Kg 105 70 - 130 14 20 C10-C28)

LCSD LCSD Surrogate %Recovery Qualifier Limits

1-Chlorooctane 124 70 - 130 o-Terphenyl 150 S1+ 70 - 130

Lab Sample ID: 890-4554-A-11-C MS

Matrix: Solid

Analysis Batch: 51824

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 51848

MS MS %Rec Sample Sample Spike

Result Qualifier Added Result Qualifier %Rec Analyte Unit Limits <50.0 U F2 997 Gasoline Range Organics 913.0 92 70 - 130mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 997 1056 mg/Kg 106 70 - 130

C10-C28)

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 91 70 - 130 103 70 - 130 o-Terphenyl

Lab Sample ID: 890-4554-A-11-D MSD

Client: Ensolum Job ID: 890-4555-1 Project/Site: Red Bull 35 Federal 001 SDG: 03D2024004

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

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 51848

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<50.0	U F2	998	1200	F2	mg/Kg		120	70 - 130	27	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<50.0	U	998	1231		mg/Kg		123	70 - 130	15	20
C10 C20)											

C10-C28)

Matrix: Solid

Analysis Batch: 51824

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	109		70 - 130
o-Terphenyl	117		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-51907/1-A Client Sample ID: Method Blank

Matrix: Solid Prep Type: Soluble

Analysis Batch: 52121

мв мв

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			04/27/23 14:42	1

Lab Sample ID: LCS 880-51907/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 52121

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	273.1	-	mg/Kg		109	90 - 110	

Lab Sample ID: LCSD 880-51907/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 52121

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	262.9		ma/Ka		105	90 - 110	4	20	

Lab Sample ID: 890-4548-A-6-G MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 52121

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	875	F1	248	1026	F1	ma/Ka		61	90 110	

Lab Sample ID: 890-4548-A-6-H MSD

Matrix: Solid Prep Type: Soluble

Analysis Batch: 52121

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	875	F1	248	1019	F1	mg/Kg		58	90 - 110	1	20

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Client Sample ID: Matrix Spike Duplicate

QC Association Summary

Client: Ensolum Job ID: 890-4555-1
Project/Site: Red Bull 35 Federal 001 SDG: 03D2024004

GC VOA

Analy	/SIS	Batch	า: 51	793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4555-1	SW03	Total/NA	Solid	8021B	51842
MB 880-51796/5-A	Method Blank	Total/NA	Solid	8021B	51796
MB 880-51842/5-A	Method Blank	Total/NA	Solid	8021B	51842
LCS 880-51842/1-A	Lab Control Sample	Total/NA	Solid	8021B	51842
LCSD 880-51842/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	51842
890-4559-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	51842
890-4559-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	51842

Prep Batch: 51796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-51796/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 51842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4555-1	SW03	Total/NA	Solid	5035	
MB 880-51842/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-51842/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-51842/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4559-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
890-4559-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 51939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4555-1	SW03	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 51824

Lab Sample ID 890-4555-1	Client Sample ID SW03	Prep Type Total/NA	Matrix Solid	Method 8015B NM	Prep Batch 51848
MB 880-51848/1-A	Method Blank	Total/NA	Solid	8015B NM	51848
LCS 880-51848/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	51848
LCSD 880-51848/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	51848
890-4554-A-11-C MS	Matrix Spike	Total/NA	Solid	8015B NM	51848
890-4554-A-11-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	51848

Prep Batch: 51848

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4555-1	SW03	Total/NA	Solid	8015NM Prep	
MB 880-51848/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-51848/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-51848/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4554-A-11-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4554-A-11-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 51934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4555-1	SW03	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum Job ID: 890-4555-1
Project/Site: Red Bull 35 Federal 001 SDG: 03D2024004

HPLC/IC

Leach Batch: 51907

Lab Sample ID 890-4555-1	Client Sample ID SW03	Prep Type Soluble	Matrix Solid	Method DI Leach	Prep Batch
MB 880-51907/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-51907/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-51907/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4548-A-6-G MS	Matrix Spike	Soluble	Solid	DI Leach	
890-4548-A-6-H MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 52121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4555-1	SW03	Soluble	Solid	300.0	51907
MB 880-51907/1-A	Method Blank	Soluble	Solid	300.0	51907
LCS 880-51907/2-A	Lab Control Sample	Soluble	Solid	300.0	51907
LCSD 880-51907/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	51907
890-4548-A-6-G MS	Matrix Spike	Soluble	Solid	300.0	51907
890-4548-A-6-H MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	51907

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Lab Chronicle

 Client: Ensolum
 Job ID: 890-4555-1

 Project/Site: Red Bull 35 Federal 001
 SDG: 03D2024004

Client Sample ID: SW03

Lab Sample ID: 890-4555-1

Matrix: Solid

Date Collected: 04/20/23 09:45 Date Received: 04/20/23 15:56

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	51842	04/24/23 11:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51793	04/25/23 00:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51939	04/25/23 10:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			51934	04/25/23 10:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	51848	04/24/23 12:29	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51824	04/24/23 17:43	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	51907	04/25/23 07:45	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52121	04/27/23 17:13	SMC	EET MID

Laboratory References:

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

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Accreditation/Certification Summary

Client: Ensolum Job ID: 890-4555-1 Project/Site: Red Bull 35 Federal 001

SDG: 03D2024004

Laboratory: Eurofins Midland

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

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-22-25	06-30-23
The following analytes	are included in this report, bu	it the laboratory is not certifi	ied by the governing authority. This list ma	av include analytes for v
the agency does not of	fer certification.	•	, , ,	2)
the agency does not of Analysis Method	fer certification . Prep Method	Matrix	Analyte	.,
0 ,		Matrix Solid	Analyte Total TPH	

Method Summary

Client: Ensolum Job ID: 890-4555-1 Project/Site: Red Bull 35 Federal 001

SDG: 03D2024004

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
Ol Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum

Project/Site: Red Bull 35 Federal 001

Job ID: 890-4555-1 SDG: 03D2024004

 Lab Sample ID
 Client Sample ID
 Matrix
 Collected
 Received
 Depth

 890-4555-1
 SW03
 Solid
 04/20/23 09:45
 04/20/23 15:56
 0-2

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Received by OCD: 7/20/2023 10:33;51 AM

4/27/2023

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Environment Testing Хепсо

Chain of Custody

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

Work	Order No:	
AAOIV	Oldel 140.	

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					Bill to: (if	different)		Kalei Jennings			1 1	Work Order Comments										
Company Name:	Ensolum, LLC				Compan	y Name:		Ensolu	ım, LL	.С					11	Progra	n: UST	PST [PRP	Brow	∕nfields ∏RC	uperfund [
Address:	601 N. Marienfe	eld Stree	et, Suite 400		Address:									State of Project: NM								
City, State ZIP:	Midland, TX 79	701			City, Sta	te ZIP:										Reporti	ig: Leve	ı II 🖳	Level I			Level IV
Phone:	432-557-8895			Email:	Hgreen	@ensolı	ım.cc	m; Kj	ennin	gs@er	solum	com] [Delivera	bles: E	DD _	<u> </u>	ADaF	Other:	
Project Name:	Red Bull	35 Fede	ral 001	Tur	n Around								ANAL'	YSIS R	REQU	UEST			•		Preserv	ative Codes
Project Number:		202400		Routine	☑ Rush		Pres. Code														None: NO	DI Water: H₂O
Project Location:		8, -103.		Due Date:	3 D		Oode														Cool: Cool	MeOH: Me
Sampler's Name:		se Parke		TAT starts th	ne day rece	ived by				- 1		1				HCL: HC HNO ₃ : HN						
PO #:	030	202400	4	the lab, if re	ceived by 4:30pm		2				1111		104 (Hurt		an au	H DANIE DANIE	li .				H₂S0₄: H₂	NaOH: Na
SAMPLE RECE	IPT Temp E	Blank:	Yes No	Wet Ice:	Yes	No	nete				- }				Ш		11				H₃PO₄: HP	
Samples Received I		-	Thermomete		TAM	-007	arar				- 111				Will		1				NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NaSO	
Cooler Custody Sea		11	Correction Fa		1-5	2	α.				890	WIIIII	MHIMIU 5 Chair	Millimining n of Cus	MI III	V V	11				Zn Acetate+NaC	
Sample Custody Se	als: Yes No		Temperature Corrected Te		19	2:0			Ε.	300		700,	Onan	10100	olou	,			1		NaOH+Ascorbic	
Total Containers:						Grab/	4 -6	8015	802	ide			1									
Sample Ide	ntification	Matrix	Date Sampled	Time Sampled	Depth	Comp	# of Cont	ТРН	BTEX 8021	Chloride 300											Sample	Comments
sw	03	SL	4/20/2023	9:45	0 - 2	Comp	1	Х	Χ	Х		-	\dashv	-			_		-	+-	1 - :	32 oz jar
											-	\dashv	\dashv	-			\dashv	+	-	_		
				10	2																	
												\dashv			_		-		-			
		-											-		_							
Total 200.7 / 6				8RCRA 13															Se A	SiO ₂	Na Sr Tl Sn / / 245.1 / 7470 /	J V Zn 7471

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

Religquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 /hyll	marga stof	4/20/23 1590			
3		l ·	4		
5]	6		Revised Date: 08/25/2020 Rev. 2020

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4555-1 SDG Number: 03D2024004

Login Number: 4555 List Source: Eurofins Carlsbad

List Number: 1

Creator: Stutzman, Amanda

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

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4555-1 SDG Number: 03D2024004

> **List Source: Eurofins Midland** List Creation: 04/24/23 09:11 AM

Creator: Rodriguez, Leticia

Login Number: 4555

List Number: 2

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

<6mm (1/4").



Received by OCD: 7/20/2023 10:33:51 AM eurofins 🔆LINKS **Review your project** results through EOL **Have a Question?** Visit us at: www.eurofinsus.com/Env

Released to Imaging: 10/13/2028 2:36:13 PM

ANALYTICAL REPORT

America

Environment Testing

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-2848-1

Laboratory Sample Delivery Group: 03D2024004 Client Project/Site: Red Bull 35 Federal 001

For:

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Kalei Jennings

RAMER

Authorized for release by: 8/30/2022 11:55:09 AM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Ensolum
Project/Site: Red Bull 35 Federal 001
Laboratory Job ID: 890-2848-1
SDG: 03D2024004

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	10
QC Sample Results	11
QC Association Summary	15
Lab Chronicle	17
Certification Summary	19
Method Summary	20
Sample Summary	21
Chain of Custody	22
Racaint Chacklists	23

4

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Definitions/Glossary

Job ID: 890-2848-1 Client: Ensolum Project/Site: Red Bull 35 Federal 001

SDG: 03D2024004

Qualifiers

GC VOA

Qualifier **Qualifier Description**

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

GC Semi VOA

Qualifier **Qualifier Description**

*1 LCS/LCSD RPD exceeds control limits.

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

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

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

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

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

DFR Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

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

Decision Level Concentration (Radiochemistry) DLC

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

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

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

NC Not Calculated

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

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

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Project/Site: Red Bull 35 Federal 001

Job ID: 890-2848-1

SDG: 03D2024004

Job ID: 890-2848-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2848-1

Receipt

The samples were received on 8/25/2022 3:19 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.4°C

GC VOA

Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-33069 and analytical batch 880-33162 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-33157/2-A) and (LCSD 880-33157/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-33157 and analytical batch 880-33143 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

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

HPLC/IC

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

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Lab Sample ID: 890-2848-1

Client Sample Results

Client: Ensolum Job ID: 890-2848-1
Project/Site: Red Bull 35 Federal 001 SDG: 03D2024004

Client Sample ID: FS01

Date Collected: 08/25/22 09:00 Date Received: 08/25/22 15:19

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/27/22 14:13	08/29/22 18:32	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/27/22 14:13	08/29/22 18:32	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/27/22 14:13	08/29/22 18:32	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		08/27/22 14:13	08/29/22 18:32	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/27/22 14:13	08/29/22 18:32	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		08/27/22 14:13	08/29/22 18:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130			08/27/22 14:13	08/29/22 18:32	1
1,4-Difluorobenzene (Surr)	106		70 - 130			08/27/22 14:13	08/29/22 18:32	1
Method: Total BTEX - Total BTE	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			08/30/22 10:24	1
_		O) (GC)						
<u> </u>	Result	Qualifier	RL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed	
<u> </u>			RL 50.0	Mnit mg/Kg	<u>D</u>	Prepared	Analyzed 08/30/22 09:24	
Total TPH	Result 79.1	Qualifier			<u>D</u>	Prepared		
Total TPH Method: 8015B NM - Diesel Ran	Result 79.1 ge Organics (Di	Qualifier			<u>D</u>	Prepared Prepared		1
Total TPH Method: 8015B NM - Diesel Randanalyte Gasoline Range Organics	Result 79.1 ge Organics (Di	Qualifier RO) (GC) Qualifier	50.0	mg/Kg			08/30/22 09:24	1 Dil Fac
Total TPH Method: 8015B NM - Diesel Randanalyte Gasoline Range Organics	Result 79.1 ge Organics (Dige Result	Qualifier RO) (GC) Qualifier	50.0	mg/Kg		Prepared	08/30/22 09:24 Analyzed	Dil Fac
	Result 79.1 ge Organics (Digensial Result < 50.0	Qualifier RO) (GC) Qualifier U*1	50.0 RL 50.0	mg/Kg Unit mg/Kg		Prepared 08/29/22 08:34	08/30/22 09:24 Analyzed 08/29/22 14:46	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result 79.1	Qualifier RO) (GC) Qualifier U*1	50.0 RL 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 08/29/22 08:34 08/29/22 08:34	08/30/22 09:24 Analyzed 08/29/22 14:46 08/29/22 14:46	Dil Fac
Method: 8015B NM - Diesel Randanalyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result 79.1	Qualifier RO) (GC) Qualifier U*1	50.0 RL 50.0 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 08/29/22 08:34 08/29/22 08:34 08/29/22 08:34	08/30/22 09:24 Analyzed 08/29/22 14:46 08/29/22 14:46	Dil Face 1 1 1 Dil Face
Method: 8015B NM - Diesel Randanalyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result 79.1	Qualifier RO) (GC) Qualifier U*1	50.0 RL 50.0 50.0 50.0 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 08/29/22 08:34 08/29/22 08:34 08/29/22 08:34 Prepared	Analyzed 08/29/22 14:46 08/29/22 14:46 Analyzed Analyzed	Dil Fac
Total TPH Method: 8015B NM - Diesel Randanalyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result 79.1	Qualifier RO) (GC) Qualifier U*1 U Qualifier	50.0 RL 50.0 50.0 50.0 Limits 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 08/29/22 08:34 08/29/22 08:34 08/29/22 08:34 Prepared 08/29/22 08:34	08/30/22 09:24 Analyzed 08/29/22 14:46 08/29/22 14:46 Analyzed 08/29/22 14:46	Dil Fac
Total TPH Method: 8015B NM - Diesel Randanalyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result 79.1	Qualifier RO) (GC) Qualifier U*1 U Qualifier	50.0 RL 50.0 50.0 50.0 Limits 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 08/29/22 08:34 08/29/22 08:34 08/29/22 08:34 Prepared 08/29/22 08:34	08/30/22 09:24 Analyzed 08/29/22 14:46 08/29/22 14:46 Analyzed 08/29/22 14:46	Dil Fac 1 Dil Fac 1 Dil Fac 1 Dil Fac 1 Dil Fac

Client Sample ID: FS02

Date Collected: 08/25/22 09:10

Date Received: 08/25/22 15:19

Sample Depth: 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		08/27/22 14:13	08/29/22 18:53	1
Toluene	<0.00201	U	0.00201	mg/Kg		08/27/22 14:13	08/29/22 18:53	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		08/27/22 14:13	08/29/22 18:53	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		08/27/22 14:13	08/29/22 18:53	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		08/27/22 14:13	08/29/22 18:53	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		08/27/22 14:13	08/29/22 18:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130			08/27/22 14:13	08/29/22 18:53	1

Eurofins Carlsbad

Lab Sample ID: 890-2848-2

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Matrix: Solid

Lab Sample ID: 890-2848-2

08/29/22 08:34

08/29/22 08:34

08/29/22 14:03

08/29/22 14:03

Matrix: Solid

Job ID: 890-2848-1

Client: Ensolum Project/Site: Red Bull 35 Federal 001 SDG: 03D2024004

Client Sample ID: FS02

Date Collected: 08/25/22 09:10 Date Received: 08/25/22 15:19

Sample Depth: 2

Method: 8021B - Volatile Organic Compo	ounds (GC)	(Continued)
mothodi coz iz rolatilo olgalilo compt	Julius (33)	(Continuou,

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	111		70 - 130	08/27/22 14:13	08/29/22 18:53	1

Method:	Total BTEX	- Total BTEX	Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			08/30/22 10:24	1

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	145	49.9	mg/Kg			08/30/22 09:24	1

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

Analyte		Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Orga	anics	<49.9	U *1	49.9	mg/Kg		08/29/22 08:34	08/29/22 14:03	1
(GRO)-C6-C10									
Diesel Range Orga	nics (Over	145		49.9	mg/Kg		08/29/22 08:34	08/29/22 14:03	1
C10-C28)									
Oll Range Organics	(Over C28-C36)	<49.9	U	49.9	mg/Kg		08/29/22 08:34	08/29/22 14:03	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

70 - 130

70 - 130

o-Terphenyl	81
<u></u>	

85

method: 300.0 - Amons, for Chromatography - Soluble								
	Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	1610	25.0	ma/Ka			08/29/22 12:58	5

Client Sample ID: FS03 Lab Sample ID: 890-2848-3

Date Collected: 08/25/22 09:20 Date Received: 08/25/22 15:19

Sample Depth: 1

1-Chlorooctane

Mathadi 0004D	Valatile Overen	ic Compounds (GC)
Memoo: Auzib	- voianie Urdan	ic Compounds (GC)

esult (Qualifier	RL	1144				
		IXL.	Unit	D	Prepared	Analyzed	Dil Fac
)399 l	U	0.0399	mg/Kg		08/27/22 14:13	08/29/22 19:54	20
743		0.0399	mg/Kg		08/27/22 14:13	08/29/22 19:54	20
.153		0.0399	mg/Kg		08/27/22 14:13	08/29/22 19:54	20
.744		0.0798	mg/Kg		08/27/22 14:13	08/29/22 19:54	20
.338		0.0399	mg/Kg		08/27/22 14:13	08/29/22 19:54	20
1.08		0.0798	mg/Kg		08/27/22 14:13	08/29/22 19:54	20
very (Qualifier	Limits			Prepared	Analyzed	Dil Fac
90		70 - 130			08/27/22 14:13	08/29/22 19:54	20
85		70 - 130			08/27/22 14:13	08/29/22 19:54	20
(0743 0.153 0.744 0.338 1.08	0.153 0.744 0.338 1.08 0very Qualifier 90	0743 0.0399 0.153 0.0399 0.744 0.0798 0.338 0.0399 1.08 0.0798 overy Qualifier Limits 90 70 - 130	0743 0.0399 mg/Kg 0.153 0.0399 mg/Kg 0.744 0.0798 mg/Kg 0.338 0.0399 mg/Kg 1.08 0.0798 mg/Kg 0.0798 mg/Kg 0.0798 mg/Kg 0.0799 mg/Kg 0.0798 mg/Kg	0.743	0743 0.0399 mg/Kg 08/27/22 14:13 0.153 0.0399 mg/Kg 08/27/22 14:13 0.744 0.0798 mg/Kg 08/27/22 14:13 0.338 0.0399 mg/Kg 08/27/22 14:13 1.08 0.0798 mg/Kg 08/27/22 14:13 overy Qualifier Limits Prepared 90 70 - 130 08/27/22 14:13	0743 0.0399 mg/Kg 08/27/22 14:13 08/29/22 19:54 0.153 0.0399 mg/Kg 08/27/22 14:13 08/29/22 19:54 0.744 0.0798 mg/Kg 08/27/22 14:13 08/29/22 19:54 0.338 0.0399 mg/Kg 08/27/22 14:13 08/29/22 19:54 1.08 0.0798 mg/Kg 08/27/22 14:13 08/29/22 19:54 overy Qualifier Limits Prepared Analyzed 90 70 - 130 08/27/22 14:13 08/29/22 19:54

ı						
ı	Mothod	Total	DTEV	Total	DTEV	Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	1.31		0.0798	mg/Kg			08/30/22 10:24	1

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	3340	49.9	mg/Kg			08/30/22 09:24	1

Lab Sample ID: 890-2848-3

Job ID: 890-2848-1

Client: Ensolum Project/Site: Red Bull 35 Federal 001 SDG: 03D2024004

Client Sample ID: FS03

Date Collected: 08/25/22 09:20 Date Received: 08/25/22 15:19

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	mg/Kg		08/29/22 08:34	08/29/22 12:58	1
Diesel Range Organics (Over C10-C28)	2930		49.9	mg/Kg		08/29/22 08:34	08/29/22 12:58	1
Oll Range Organics (Over C28-C36)	407		49.9	mg/Kg		08/29/22 08:34	08/29/22 12:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130			08/29/22 08:34	08/29/22 12:58	1
o-Terphenyl	75		70 - 130			08/29/22 08:34	08/29/22 12:58	1
- Method: 300.0 - Anions, Ion Ch	romatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1280		25.2	mg/Kg			08/29/22 13:06	5

Client Sample ID: FS04 Lab Sample ID: 890-2848-4 Date Collected: 08/25/22 09:30 Matrix: Solid

Date Received: 08/25/22 15:19

Sample Depth: 1.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.0398	U	0.0398	mg/Kg		08/27/22 14:13	08/29/22 20:14	20
Toluene	<0.0398	U	0.0398	mg/Kg		08/27/22 14:13	08/29/22 20:14	20
Ethylbenzene	<0.0398	U	0.0398	mg/Kg		08/27/22 14:13	08/29/22 20:14	20
m-Xylene & p-Xylene	<0.0795	U	0.0795	mg/Kg		08/27/22 14:13	08/29/22 20:14	20
o-Xylene	<0.0398	U	0.0398	mg/Kg		08/27/22 14:13	08/29/22 20:14	20
Xylenes, Total	<0.0795	U	0.0795	mg/Kg		08/27/22 14:13	08/29/22 20:14	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130			08/27/22 14:13	08/29/22 20:14	20
1,4-Difluorobenzene (Surr)	92		70 - 130			08/27/22 14:13	08/29/22 20:14	20
Method: Total BTEX - Total BTI	EX Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0795	U	0.0795	mg/Kg			08/30/22 10:24	1
Method: 8015 NM - Diesel Rang	ge Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2460		50.0	mg/Kg			08/30/22 09:24	1
-	ngo Organice (D	RO) (GC)						
Method: 8015B NM - Diesel Rai	ilge Organics (D	(00)			D	Prepared		D:: F
Method: 8015B NM - Diesel Ra Analyte	• • •	Qualifier	RL	Unit		riepaieu	Analyzed	Dil Fac
Analyte Gasoline Range Organics	• • •	Qualifier	RL 50.0	Mg/Kg		08/29/22 08:34	08/29/22 13:41	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier						
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <50.0	Qualifier	50.0	mg/Kg		08/29/22 08:34	08/29/22 13:41	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over	Result <50.0 2190	Qualifier U *1	50.0	mg/Kg		08/29/22 08:34 08/29/22 08:34	08/29/22 13:41 08/29/22 13:41	1

Job ID: 890-2848-1

Client: Ensolum Project/Site: Red Bull 35 Federal 001 SDG: 03D2024004

Client Sample ID: FS04 Lab Sample ID: 890-2848-4 Matrix: Solid

Date Collected: 08/25/22 09:30 Date Received: 08/25/22 15:19

Sample Depth: 1.5

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)										
Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac					
o-Terphenyl	77	70 - 130	08/29/22 08:34	08/29/22 13:41	1					

Method: 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac			
Chloride	628	25.1	ma/Ka			08/29/22 13:14	5			

Client Sample ID: SW01 Lab Sample ID: 890-2848-5 Date Collected: 08/25/22 09:40 **Matrix: Solid**

Date Received: 08/25/22 15:19

Sample Depth: 0 - 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		08/27/22 14:13	08/29/22 19:13	1
Toluene	<0.00201	U	0.00201	mg/Kg		08/27/22 14:13	08/29/22 19:13	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		08/27/22 14:13	08/29/22 19:13	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		08/27/22 14:13	08/29/22 19:13	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		08/27/22 14:13	08/29/22 19:13	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		08/27/22 14:13	08/29/22 19:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130			08/27/22 14:13	08/29/22 19:13	1
1,4-Difluorobenzene (Surr)	107		70 - 130			08/27/22 14:13	08/29/22 19:13	1
· Method: Total BTEX - Total BTEX	(Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			08/30/22 10:24	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	62.1		49.8	mg/Kg			08/30/22 09:24	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8	mg/Kg		08/29/22 08:34	08/29/22 14:25	1
Diesel Range Organics (Over	62.1		49.8	mg/Kg		08/29/22 08:34	08/29/22 14:25	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/29/22 08:34	08/29/22 14:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130			08/29/22 08:34	08/29/22 14:25	1
o-Terphenyl	84		70 - 130			08/29/22 08:34	08/29/22 14:25	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						

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08/29/22 13:21

24.9

mg/Kg

514

Chloride

Client Sample Results

 Client: Ensolum
 Job ID: 890-2848-1

 Project/Site: Red Bull 35 Federal 001
 SDG: 03D2024004

Client Sample ID: SW02 Lab Sample ID: 890-2848-6

Date Collected: 08/25/22 09:50

Date Received: 08/25/22 15:19

Matrix: Solid

Sample Depth: 0 - 1.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/27/22 14:13	08/29/22 19:34	
Toluene	<0.00200	U	0.00200	mg/Kg		08/27/22 14:13	08/29/22 19:34	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/27/22 14:13	08/29/22 19:34	
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		08/27/22 14:13	08/29/22 19:34	
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/27/22 14:13	08/29/22 19:34	•
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		08/27/22 14:13	08/29/22 19:34	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	85		70 - 130			08/27/22 14:13	08/29/22 19:34	
1,4-Difluorobenzene (Surr)	108		70 - 130			08/27/22 14:13	08/29/22 19:34	
Method: Total BTEX - Total BTE	EX Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00399	U	0.00399	mg/Kg			08/30/22 10:24	
Method: 8015 NM - Diesel Rang	ge Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	3460		49.9	mg/Kg			08/30/22 09:24	
Method: 8015B NM - Diesel Rai	nge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	mg/Kg		08/29/22 08:34	08/29/22 13:19	,
Diesel Range Organics (Over C10-C28)	3070		49.9	mg/Kg		08/29/22 08:34	08/29/22 13:19	,
Oll Range Organics (Over C28-C36)	385		49.9	mg/Kg		08/29/22 08:34	08/29/22 13:19	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	98		70 - 130			08/29/22 08:34	08/29/22 13:19	7
o-Terphenyl	75		70 - 130			08/29/22 08:34	08/29/22 13:19	
Method: 300.0 - Anions, Ion Ch	romatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	576		24.8	mg/Kg			08/29/22 13:45	

Surrogate Summary

 Client: Ensolum
 Job ID: 890-2848-1

 Project/Site: Red Bull 35 Federal 001
 SDG: 03D2024004

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
_ab Sample ID	Client Sample ID	(70-130)	(70-130)	
390-2842-A-1-E MS	Matrix Spike	97	104	
390-2842-A-1-F MSD	Matrix Spike Duplicate	91	100	
390-2848-1	FS01	91	106	
390-2848-2	FS02	92	111	
390-2848-3	FS03	90	85	
390-2848-4	FS04	100	92	
390-2848-5	SW01	89	107	
390-2848-6	SW02	85	108	
_CS 880-33069/1-A	Lab Control Sample	95	101	
_CSD 880-33069/2-A	Lab Control Sample Dup	92	105	
MB 880-33069/5-A	Method Blank	78	120	
Surrogate Legend				

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
380-18525-A-1-D MS	Matrix Spike	95	81	
880-18525-A-1-E MSD	Matrix Spike Duplicate	90	78	
890-2848-1	FS01	95	100	
890-2848-2	FS02	85	81	
890-2848-3	FS03	96	75	
890-2848-4	FS04	104	77	
890-2848-5	SW01	92	84	
890-2848-6	SW02	98	75	
LCS 880-33157/2-A	Lab Control Sample	178 S1+	177 S1+	
LCSD 880-33157/3-A	Lab Control Sample Dup	189 S1+	185 S1+	
MB 880-33157/1-A	Method Blank	97	108	
Surrogate Legend				

OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-2848-1 Project/Site: Red Bull 35 Federal 001

SDG: 03D2024004

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-33069/5-A

Matrix: Solid Analysis Batch: 33162

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33069

	мв	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/27/22 14:13	08/29/22 16:12	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/27/22 14:13	08/29/22 16:12	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/27/22 14:13	08/29/22 16:12	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/27/22 14:13	08/29/22 16:12	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/27/22 14:13	08/29/22 16:12	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/27/22 14:13	08/29/22 16:12	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78	70 - 130	08/27/22 14:13	08/29/22 16:12	1
1,4-Difluorobenzene (Surr)	120	70 - 130	08/27/22 14:13	08/29/22 16:12	1

Client Sample ID: Lab Control Sample Lab Sample ID: LCS 880-33069/1-A

Matrix: Solid

Analysis Batch: 33162

Prep Type: Total/NA

Prep Batch: 33069

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09832		mg/Kg		98	70 - 130	
Toluene	0.100	0.1039		mg/Kg		104	70 - 130	
Ethylbenzene	0.100	0.1038		mg/Kg		104	70 - 130	
m-Xylene & p-Xylene	0.200	0.1932		mg/Kg		97	70 - 130	
o-Xylene	0.100	0.1029		mg/Kg		103	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	95	70 - 130
1,4-Difluorobenzene (Surr)	101	70 - 130

Lab Sample ID: LCSD 880-33069/2-A

Matrix: Solid

Analysis Batch: 33162

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 33069

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1050		mg/Kg		105	70 - 130	7	35	
Toluene	0.100	0.1026		mg/Kg		103	70 - 130	1	35	
Ethylbenzene	0.100	0.1002		mg/Kg		100	70 - 130	4	35	
m-Xylene & p-Xylene	0.200	0.1844		mg/Kg		92	70 - 130	5	35	
o-Xylene	0.100	0.09694		mg/Kg		97	70 - 130	6	35	

LCSD LCSD

Surrogate	%Recovery Qualit	ier Limits
4-Bromofluorobenzene (Surr)	92	70 - 130
1 4-Difluorobenzene (Surr)	105	70 - 130

Lab Sample ID: 890-2842-A-1-E MS

Matrix: Solid

Analysis Batch: 33162

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 33069

	Sample		Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.0998	0.07083		mg/Kg	_	71	70 - 130	·
Toluene	< 0.00199	U	0.0998	0.07660		mg/Kg		77	70 - 130	

QC Sample Results

Client: Ensolum Job ID: 890-2848-1 Project/Site: Red Bull 35 Federal 001 SDG: 03D2024004

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

Lab Sample ID: 890-2842-A-1-E MS

Matrix: Solid

Analysis Batch: 33162

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 33069

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00199	U	0.0998	0.07257		mg/Kg		73	70 - 130	
m-Xylene & p-Xylene	<0.00398	U F1	0.200	0.1321	F1	mg/Kg		66	70 - 130	
o-Xylene	< 0.00199	U	0.0998	0.07263		mg/Kg		73	70 - 130	

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	97	70 - 130
1,4-Difluorobenzene (Surr)	104	70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 33069

Lab Sample ID: 890-2842-A-1-F MSD **Matrix: Solid**

Analysis Batch: 33162

_	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U	0.100	0.08963		mg/Kg		89	70 - 130	23	35
Toluene	<0.00199	U	0.100	0.09049		mg/Kg		90	70 - 130	17	35
Ethylbenzene	<0.00199	U	0.100	0.08761		mg/Kg		87	70 - 130	19	35
m-Xylene & p-Xylene	<0.00398	U F1	0.201	0.1610		mg/Kg		80	70 - 130	20	35
o-Xylene	<0.00199	U	0.100	0.08501		mg/Kg		85	70 - 130	16	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

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

Lab Sample ID: MB 880-33157/1-A

Matrix: Solid

Analysis Batch: 33143

Client Sample ID: Method Blank
Prep Type: Total/NA
Prop Ratch: 33157

Prep Batch: 33157

MB MB Analyte Result Qualifier RL Unit Prepared Dil Fac Analyzed <50.0 U 50.0 08/29/22 08:34 Gasoline Range Organics 08/29/22 10:47 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 50.0 08/29/22 10:47 <50.0 U 08/29/22 08:34 mg/Kg C10-C28) Oll Range Organics (Over C28-C36) <50.0 U 50.0 08/29/22 08:34 08/29/22 10:47 mg/Kg

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	08/29/22 08:3	08/29/22 10:47	1
o-Terphenyl	108		70 - 130	08/29/22 08:3	4 08/29/22 10:47	1

Lab Sample ID: LCS 880-33157/2-A

Matrix: Solid

Analysis Batch: 33143

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 33157

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1063		mg/Kg		106	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1076		mg/Kg		108	70 - 130	
C10-C28)								

Limits

70 - 130

Job ID: 890-2848-1

SDG: 03D2024004

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

LCS LCS

%Recovery Qualifier

Lab Sample ID: LCS 880-33157/2-A

Project/Site: Red Bull 35 Federal 001

Matrix: Solid

Surrogate

Client: Ensolum

Analysis Batch: 33143

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33157

1-Chlorooctane 178 S1+

o-Terphenyl 177 S1+ 70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 33157

Lab Sample ID: LCSD 880-33157/3-A **Matrix: Solid**

Analysis Batch: 33143

_	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	801.1	*1	mg/Kg		80	70 - 130	28	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	1131		mg/Kg		113	70 - 130	5	20

C10-C28)

LCSD LCSD Surrogate %Recovery Qualifier Limits 189 S1+ 70 - 130 1-Chlorooctane o-Terphenyl 185 S1+ 70 - 130

Lab Sample ID: 880-18525-A-1-D MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 33143

Prep Type: Total/NA Prep Batch: 33157 Sample Sample Spike MS MS

Result Qualifier Analyte Result Qualifier Added Unit %Rec Limits Gasoline Range Organics <49.9 U*1 999 696.8 mg/Kg 70 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 999 1049 mg/Kg 105 70 - 130

C10-C28)

	IVIS IVIS	,	
Surrogate	%Recovery Qu	alifier Limits	;
1-Chlorooctane	95	70 - 13	30
o-Terphenvl	81	70 - 13	30

Lab Sample ID: 880-18525-A-1-E MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 33143

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	<49.9	U *1	998	703.7		mg/Kg		71	70 - 130	1	20	
(GRO)-C6-C10												
Diesel Range Organics (Over	<49.9	U	998	993.7		mg/Kg		100	70 - 130	5	20	

C10-C28)

	INISD	MISD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	90		70 - 130
o-Terphenyl	78		70 - 130

Med Med

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Prep Type: Total/NA

Prep Batch: 33157

Client Sample ID: Method Blank

Prep Type: Soluble

Client Sample ID: FS01

Prep Type: Soluble

Job ID: 890-2848-1

Client: Ensolum Project/Site: Red Bull 35 Federal 001 SDG: 03D2024004

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-33190/1-A

Matrix: Solid

Analysis Batch: 33232								
	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			08/29/22 12:11	1

Lab Sample ID: LCS 880-33190/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 33232

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 240.0 mg/Kg 96 90 - 110

Lab Sample ID: LCSD 880-33190/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 33232

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit Limits **RPD** Limit Chloride 250 241.3 mg/Kg 90 - 110

Lab Sample ID: 890-2848-1 MS **Client Sample ID: FS01 Matrix: Solid Prep Type: Soluble**

Analysis Batch: 33232

Sample Sample MS MS %Rec Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 1700 1260 Chloride 2911 90 - 110 mg/Kg

Lab Sample ID: 890-2848-1 MSD

Matrix: Solid

Analysis Batch: 33232

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	1700		1260	2914		mg/Kg		97	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: Red Bull 35 Federal 001

Job ID: 890-2848-1 SDG: 03D2024004

GC VOA

Prep Batch: 33069

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2848-1	FS01	Total/NA	Solid	5035	
890-2848-2	FS02	Total/NA	Solid	5035	
890-2848-3	FS03	Total/NA	Solid	5035	
890-2848-4	FS04	Total/NA	Solid	5035	
890-2848-5	SW01	Total/NA	Solid	5035	
890-2848-6	SW02	Total/NA	Solid	5035	
MB 880-33069/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-33069/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-33069/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2842-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
890-2842-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 33162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2848-1	FS01	Total/NA	Solid	8021B	33069
890-2848-2	FS02	Total/NA	Solid	8021B	33069
890-2848-3	FS03	Total/NA	Solid	8021B	33069
890-2848-4	FS04	Total/NA	Solid	8021B	33069
890-2848-5	SW01	Total/NA	Solid	8021B	33069
890-2848-6	SW02	Total/NA	Solid	8021B	33069
MB 880-33069/5-A	Method Blank	Total/NA	Solid	8021B	33069
LCS 880-33069/1-A	Lab Control Sample	Total/NA	Solid	8021B	33069
LCSD 880-33069/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	33069
890-2842-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	33069
890-2842-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	33069

Analysis Batch: 33331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2848-1	FS01	Total/NA	Solid	Total BTEX	
890-2848-2	FS02	Total/NA	Solid	Total BTEX	
890-2848-3	FS03	Total/NA	Solid	Total BTEX	
890-2848-4	FS04	Total/NA	Solid	Total BTEX	
890-2848-5	SW01	Total/NA	Solid	Total BTEX	
890-2848-6	SW02	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 33143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2848-1	FS01	Total/NA	Solid	8015B NM	33157
890-2848-2	FS02	Total/NA	Solid	8015B NM	33157
890-2848-3	FS03	Total/NA	Solid	8015B NM	33157
890-2848-4	FS04	Total/NA	Solid	8015B NM	33157
890-2848-5	SW01	Total/NA	Solid	8015B NM	33157
890-2848-6	SW02	Total/NA	Solid	8015B NM	33157
MB 880-33157/1-A	Method Blank	Total/NA	Solid	8015B NM	33157
LCS 880-33157/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	33157
LCSD 880-33157/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	33157
880-18525-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	33157
880-18525-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	33157

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13

QC Association Summary

Client: Ensolum

Job ID: 890-2848-1 Project/Site: Red Bull 35 Federal 001 SDG: 03D2024004

GC Semi VOA

Prep Batch: 33157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2848-1	FS01	Total/NA	Solid	8015NM Prep	
890-2848-2	FS02	Total/NA	Solid	8015NM Prep	
890-2848-3	FS03	Total/NA	Solid	8015NM Prep	
890-2848-4	FS04	Total/NA	Solid	8015NM Prep	
890-2848-5	SW01	Total/NA	Solid	8015NM Prep	
890-2848-6	SW02	Total/NA	Solid	8015NM Prep	
MB 880-33157/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-33157/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-33157/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-18525-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-18525-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 33314

Client Sample ID	Prep Type	Matrix	Method	Prep Batch
FS01	Total/NA	Solid	8015 NM	_
FS02	Total/NA	Solid	8015 NM	
FS03	Total/NA	Solid	8015 NM	
FS04	Total/NA	Solid	8015 NM	
SW01	Total/NA	Solid	8015 NM	
SW02	Total/NA	Solid	8015 NM	
	FS01 FS02 FS03 FS04 SW01	FS01 Total/NA FS02 Total/NA FS03 Total/NA FS04 Total/NA SW01 Total/NA	FS01 Total/NA Solid FS02 Total/NA Solid FS03 Total/NA Solid FS04 Total/NA Solid SW01 Total/NA Solid	FS01 Total/NA Solid 8015 NM FS02 Total/NA Solid 8015 NM FS03 Total/NA Solid 8015 NM FS04 Total/NA Solid 8015 NM SW01 Total/NA Solid 8015 NM

HPLC/IC

Leach Batch: 33190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2848-1	FS01	Soluble	Solid	DI Leach	
890-2848-2	FS02	Soluble	Solid	DI Leach	
890-2848-3	FS03	Soluble	Solid	DI Leach	
890-2848-4	FS04	Soluble	Solid	DI Leach	
890-2848-5	SW01	Soluble	Solid	DI Leach	
890-2848-6	SW02	Soluble	Solid	DI Leach	
MB 880-33190/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-33190/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-33190/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2848-1 MS	FS01	Soluble	Solid	DI Leach	
890-2848-1 MSD	FS01	Soluble	Solid	DI Leach	

Analysis Batch: 33232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2848-1	FS01	Soluble	Solid	300.0	33190
890-2848-2	FS02	Soluble	Solid	300.0	33190
890-2848-3	FS03	Soluble	Solid	300.0	33190
890-2848-4	FS04	Soluble	Solid	300.0	33190
890-2848-5	SW01	Soluble	Solid	300.0	33190
890-2848-6	SW02	Soluble	Solid	300.0	33190
MB 880-33190/1-A	Method Blank	Soluble	Solid	300.0	33190
LCS 880-33190/2-A	Lab Control Sample	Soluble	Solid	300.0	33190
LCSD 880-33190/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	33190
890-2848-1 MS	FS01	Soluble	Solid	300.0	33190
890-2848-1 MSD	FS01	Soluble	Solid	300.0	33190

Job ID: 890-2848-1

Client: Ensolum Project/Site: Red Bull 35 Federal 001 SDG: 03D2024004

Client Sample ID: FS01 Lab Sample ID: 890-2848-1

Date Collected: 08/25/22 09:00 Matrix: Solid Date Received: 08/25/22 15:19

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	33069	08/27/22 14:13	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33162	08/29/22 18:32	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33331	08/30/22 10:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			33314	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	33157	08/29/22 08:34	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33143	08/29/22 14:46	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	33190	08/29/22 10:38	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	33232	08/29/22 12:34	CH	EET MID

Client Sample ID: FS02 Lab Sample ID: 890-2848-2

Date Collected: 08/25/22 09:10 Matrix: Solid

Date Received: 08/25/22 15:19

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	33069	08/27/22 14:13	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33162	08/29/22 18:53	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33331	08/30/22 10:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			33314	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	33157	08/29/22 08:34	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33143	08/29/22 14:03	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	33190	08/29/22 10:38	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	33232	08/29/22 12:58	CH	EET MID

Client Sample ID: FS03 Lab Sample ID: 890-2848-3

Date Collected: 08/25/22 09:20 Date Received: 08/25/22 15:19

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	33069	08/27/22 14:13	MR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	33162	08/29/22 19:54	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33331	08/30/22 10:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			33314	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	33157	08/29/22 08:34	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33143	08/29/22 12:58	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	33190	08/29/22 10:38	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	33232	08/29/22 13:06	CH	EET MID

Client Sample ID: FS04 Lab Sample ID: 890-2848-4

Date Collected: 08/25/22 09:30 Date Received: 08/25/22 15:19

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	33069	08/27/22 14:13	MR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	33162	08/29/22 20:14	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33331	08/30/22 10:24	SM	EET MID

Eurofins Carlsbad

Page 17 of 24

Matrix: Solid

Matrix: Solid

Lab Chronicle

Client: Ensolum Job ID: 890-2848-1 Project/Site: Red Bull 35 Federal 001 SDG: 03D2024004

Client Sample ID: FS04

Date Collected: 08/25/22 09:30 Date Received: 08/25/22 15:19

Lab Sample ID: 890-2848-4

Matrix: Solid

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			33314	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	33157	08/29/22 08:34	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33143	08/29/22 13:41	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	33190	08/29/22 10:38	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	33232	08/29/22 13:14	CH	EET MID

Client Sample ID: SW01 Lab Sample ID: 890-2848-5

Date Collected: 08/25/22 09:40 Date Received: 08/25/22 15:19

Batch Batch Dil Initial Final Batch Prepared Prep Type Method Amount Amount Number or Analyzed Type Run Factor Analyst Lab 5035 Total/NA Prep 4.98 g 5 mL 33069 08/27/22 14:13 MR **EET MID** Total/NA Analysis 8021B 5 mL 5 mL 33162 08/29/22 19:13 MR **EET MID** 1 Total/NA Total BTEX 33331 **EET MID** Analysis 1 08/30/22 10:24 SM Total/NA Analysis 8015 NM 33314 08/30/22 09:24 SM **EET MID** Total/NA Prep 8015NM Prep 10.04 g 10 mL 33157 08/29/22 08:34 DM **EET MID** Total/NA Analysis 8015B NM 1 uL 33143 08/29/22 14:25 SM **EET MID** 1 uL Soluble Leach DI Leach 5.03 g 50 mL 33190 08/29/22 10:38 SMC EET MID Soluble Analysis 300.0 5 50 mL 50 mL 33232 08/29/22 13:21 СН **EET MID**

Client Sample ID: SW02 Lab Sample ID: 890-2848-6

Date Collected: 08/25/22 09:50 Date Received: 08/25/22 15:19

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	33069	08/27/22 14:13	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33162	08/29/22 19:34	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33331	08/30/22 10:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			33314	08/30/22 09:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	33157	08/29/22 08:34	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33143	08/29/22 13:19	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	33190	08/29/22 10:38	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	33232	08/29/22 13:45	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-2848-1 Project/Site: Red Bull 35 Federal 001

SDG: 03D2024004

Laboratory: Eurofins Midland

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

Authority	Pr	ogram	Identification Number	Expiration Date	
Texas	NE	ELAP	T104704400-22-24	06-30-23	
The following analytes the agency does not of		ut the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes fo	
Analysis Method	Prep Method	Matrix	Analyte		
Analysis Metrica	i iop monioa	*********	7 tildly to		
8015 NM		Solid	Total TPH		

Method Summary

 Client: Ensolum
 Job ID: 890-2848-1

 Project/Site: Red Bull 35 Federal 001
 SDG: 03D2024004

 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

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	MCAWW	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

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Carlsbad

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Sample Summary

Collected

08/25/22 09:00

08/25/22 09:10

08/25/22 09:20

08/25/22 09:30

08/25/22 09:40

08/25/22 09:50

Received

08/25/22 15:19

08/25/22 15:19

08/25/22 15:19

08/25/22 15:19

08/25/22 15:19

08/25/22 15:19 0 - 1.5

1.5

0 - 2

Matrix

Solid

Solid

Solid

Solid

Solid

Solid

Client: Ensolum

Lab Sample ID

890-2848-1

890-2848-2

890-2848-3

890-2848-4

890-2848-5

890-2848-6

Project/Site: Red Bull 35 Federal 001

FS01

FS02

FS03

FS04

SW01

SW02

Client Sample ID

Job ID: 890-2848-1

SDG: 03D2024004

Depth		
0.5		
2		
1		

Received by OCD: 7/20/2023 10:33:5µ AM

Page 22 of 24

Circle Method(s) and Metal(s) to be analyzed

Chain of Custody

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

Work	Order	No:		
11016	Oluci	110.		

Desired Messes	Kalai	lanninga				Bill to: (if	different	1	Kalai	Jennio	ine									V	ork C	rder	Comments				
Project Manager:		Jennings						<u> </u>								┪.	Brook		IST/D				wnfields R		nerfund		
Company Name:		lum, LLC				Compan			-	um, Lt						\dashv	1 -		oject:	31 🗆	FRE	BIOW	Willeids []		periuna		
Address:	601 N	Marienfe	eld St S	uite 400		Address	:		601 N	Marie	enfeld S	St Suite	2 400				i		•		nual III	Пр	etalet [] ti	app □	LovelIV		
City, State ZIP:	Midla	nd, TX 79	701			City, Sta	te ZIP:		Midla	nd, TX	79701					_	1						PST/UST ☐ TRRP ☐ Level IV				
Phone:	817-6	83-2503			Email:	kjenning	qs@en	solun	i.com								Deliv	erable	s: ED	D L	l 	ADar	aPI LI Otner:				
Project Name:	F	Red Bull 3	35 Fede	rai 001	Turn	Around								ANAL	YSIS.	REC	UES	Т					Prese	rvative C	Codes		
Project Number:		03D:	202400	4	Routine	✓ Rus	h	Pres. Code															None: NO	DI V	Vater: H ₂ 0		
Project Location:		Lea C	ounty, N	MM	Due Date:	24 H	ours											_					Cool: Cool	MeC	DH: Me		
Sampler's Name:		Gilbe	rt Morei	no	TAT starts th	e day rece	ived by						1										HCL: HC	HNC	O₃: HN		
PO #:					the lab, if red	ceived by 4	:30pm	و													H ₂ S0 ₄ : H ₂	NaC	DH: Na				
SAMPLE RECE	PT	Temp E	Blank:	Yes No	Wet Ice:	Ye	No	meters	6								11111		HI III				H₃PO₄: HP				
Samples Received In	itact:	(Yes)	No	Thermomete	er ID:	um-c	FOC	Ta I	300.0)						WWW.								NaHSO₄: N				
Cooler Custody Seal	s:	Yes No	(N/A)	Correction F		3-		å	(EPA:				8	90-26	1111111111 348 Cr	IN IN			no in provid	II			Na ₂ S ₂ O ₃ : N	aSO ₃			
Sample Custody Sea	ıls:	Yes No	N/A	Temperatur	e Reading:	1.	6		E E					30-20	40 CI	iaiii (or Cus	stody					Zn Acetate+				
Total Containers:				Corrected T	emperature:	1.4	1		DE	(8015)	3021		1		1 1		1	1	1	1	1	1	NaOH+Ascorbic Acid: SAPC				
Sample Ider	tificat	ion	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp		CHLORIDES	ТРН (80	BTEX (8021												Samp	ole Comm	nents		
FSC	1		s	8/25/2022	9:00	0.5'	comp	1	Х	X	X							_				_	_				
FSC	2		s	8/25/2022	9:10	2'	comp	1	Х	X.	X									_	ļ						
FSC	3		S	8/25/2022	9:20	1'	comp	1	Х	X	X							<u> </u>					Inci	dent Nun	nber		
FSC	4		s	8/25/2022	9:30	1.5'	comp	1	Х	X	X												NAP	P212644	4907		
SW)1		s	8/25/2022	9:40	0-2'	comp	1	Х	*	X								 								
SW)2		S	8/25/2022	9:50	0-1.5'	comp	1	Х	7	X									ļ		_					
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TCLP/SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 8-14.	Clu Culo	8/25/22 1519			
3	34)		4		
5			6		

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-2848-1 SDG Number: 03D2024004

Login Number: 2848 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

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

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-2848-1 SDG Number: 03D2024004

> List Source: Eurofins Midland List Creation: 08/29/22 09:19 AM

Creator: Rodriguez, Leticia

Login Number: 2848

List Number: 2

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

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<6mm (1/4").



APPENDIX D

Final C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NAPP2126444907
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	Conoco Phillips``	OGRID				
Contact Name	Kelsy Waggaman	Contact Telephone	(432) 688-9057			
Contact email	Kelsy.Waggaman@ConocoPhillips.com	Incident # (assigned by OCD)	NAPP2126444907			
Contact mailing address	600 West Illinois Avenue, Midland, Texas 79701					

Latitude '	32.085	18	Location	of Release So		452		
Latitude 32.08518 Longitude103.5452 (NAD 83 in decimal degrees to 5 decimal places)								
Site Name		Red Bull 35	Federal 001	Site Type	Tank	Battery		
Date Release Discovered September 3, 2021				API# (if appli	API# (if applicable) 30-025-34015			
TT '/ T //	G 4:	T. 1:	D. I	C 1		1		
Unit Letter	Section	Township	Range	Count	У			
K	35	25S	33E	Lea	1			
Surface Owner: State Federal Tribal Private (Name: Intrepid Potash - New Mexico)								

Nature and Volume of Release

Material	(s) Released (Select all that apply and attach calculations or specific	justification for the volumes provided below)
Crude Oil	Volume Released (bbls) 0.1	Volume Recovered (bbls)
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release		
	used by a release from the flare. red due to the fire burning off and standing	g fluid. The release resulted in a flare fire

Received by OCD: 7/20/2023 10:33:51 AM
FORM C-14-1 State of New Mexico
Page 2 Oil Conservation Division

D_{α}	do	83	26	20
	ge	00	$\nu_{J^{\prime}}$	91

Incident ID	NAPP2126444907
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the responsible party consider this a major release?								
release as defined by	The release involved a fire.								
19.15.29.7(A) NMAC?									
Yes No									
	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?								
	as given by Kelsy Waggaman via e-mail September 3, 2021 at 6:40 pm to								
oca.enviro@state.n	ocd.enviro@state.nm.us.								
	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 rele	ease has been stopped.								
■ The impacted area ha	as been secured to protect human health and the environment.								
Released materials ha	ave been contained via the use of berms or dikes, absorbent pads, or other containment devices.								
All free liquids and r	ecoverable materials have been removed and managed appropriately.								
If all the actions describe	d above have <u>not</u> been undertaken, explain why:								
	IAC the responsible party may commence remediation immediately after discovery of a release. If remediation								
has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred									
	nt area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.								
	rmation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and required to report and/or file certain release notifications and perform corrective actions for releases which may endanger								
public health or the environ	ment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have								
	gate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In f a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws								
and/or regulations.									
Printed Name. Brittar	ny N. Esparza HSE Administrative Assistant								
Signatura: Bau									
email: besparza@	Date: 9/17/2021 Concho.com Telephone: (432) 221-0398								
email: Desparzad	Telephone: (432) 22 1-0390								
OCD Only									
	- 0/21/2021								
Received by: Ramona N	Marcus Date: 9/21/2021								

NAPP2126444907

L48 Spill Volume Estimate Form

Received by OCD: 9/21/2021 1/203 2030 PM ederal 1H

Asset Area: DBEN

Release Discovery Date & Time: 9/3/2021 6:00AM

Release Type: Oil

Provide any known details about the event. Vessel swamped out causing fluid to go out flare

					Spi	II Calculation	On Pad Surface	e Pool Spill				
Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Deepest point in each of the areas (in.)	No. of boundaries of "shore" in each area	Estimated <u>Pool</u> Area (sq. ft.)	Estimated Average Depth (ft.)	Estimated volume of each pool area (bbl.)	Penetration allowance (ft.)	Total Estimated Volume of Spill (bbl.)	Percentage of Oil if Spilled Fluid is a Mixture	Total Estimated Volume of Spilled Oil (bbl.)	Total Estimated Volume of Spilled Liquid other than Oil (bbl.)
Rectangle A	10.0	10.0	0.10	4	100.000	0.002	0.037	0.000	0.037			
Rectangle B					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle C					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle D					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle E					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle F					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle G					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle H					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle I	T		0/21/2021	45-20 DM	0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Aceterasea to	ımaş	ing:	9/21/2021 4	:45:39 PM	0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			44
								Total Volume Release:	0.037			

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 50656

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	50656
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date		
rmarcus	None	9/21/2021		

	Page 86 of	89
Incident ID	NAPP2126444907	
District RP		
Facility ID		
Application ID		

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>>100</u> (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ⊠ No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vercontamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	rtical extents of soil
Characterization Report Checklist: Each of the following items must be included in the report.	
 \infty Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well \infty Field data 	ls.
Data table of soil contaminant concentration data Depth to water determination	
Deput to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release	
 ✓ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release ✓ Boring or excavation logs ✓ Photographs including date and GIS information 	
Topographic/Aerial maps	

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

□ Laboratory data including chain of custody

Received by OCD: 7/20/2023 10:33:51 AM Form C-141 State of New Mexico Page 4 Oil Conservation Division

Page 87 of 89

Incident ID	NAPP2126444907
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.			
Printed Name:Jacob Laird	Title:Senior Environmental Engineer		
Signature: Jacob Laird	Date:07/20/2023		
email:Jacob.Laird@conocophillips.com	Telephone:575-703-5482		
OCD Only			
Received by: Shelly Wells	Date: <u>7/20/2023</u>		

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

	Page 88 of 8	9
Incident ID	NAPP2126444907	
District RP		
Facility ID		
Application ID		

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
Description of remediation activities
<u>'</u>
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.
Printed Name: _Jacob Laird Title: _Environmental Engineer
Signature:
email: Jacob.Laird@conocophillips.com Telephone: _575-703-5482
OCD Only
Received by: Shelly Wells Date: 7/20/2023
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.
Closure Approved by: Nelson Velez Date: 10/13/2023
Printed Name: Nelson Velez Title:Environmental Specialist – Adv
Demodiation has mot 10.15.20 NIMAC requirements. Sail impacts exceeding the reclamation standards have been left in place and are

Remediation has met 19.15.29 NMAC requirements. Soil impacts exceeding the reclamation standards have been left in place and are required to meet 19.15.29.13D (1) NMAC once the site is no longer reasonably needed for production or subsequent drilling operations.

Operator did not meet 19.15.29.12D (1a) NMAC. Forbearance previously given to 3rd party on 09/27/2023 (App ID 236326). Release resolved.

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

CONDITIONS

Action 242570

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	242570
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created	Condition	Condition Date
Ву		
nvelez	Remediation has met 19.15.29 NMAC requirements. Soil impacts exceeding the reclamation standards have been left in place and are required to meet 19.15.29.13D (1) NMAC once the site is no longer reasonably needed for production or subsequent drilling operations. Operator did not meet 19.15.29.12D (1a) NMAC. Forbearance previously given to 3rd party on 09/27/2023 (App ID 236326). Release resolved.	10/13/2023