

December 20, 2022

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

Windward Federal CTB

Incident Number NAPP2235445306

Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of COG Operating, LLC (COG), has prepared this *Closure Request* to document site assessment and soil sampling activities performed at the Windward Federal CTB (Site). The purpose of the site assessment and soil sampling activities was to address impacts to soil resulting from a crude oil flare fire at the Site. Based on field observations, field screening activities, and laboratory analytical results from the soil sampling events, COG is submitting this *Closure Request*, describing remediation that has occurred and requesting closure for Incident Number NAPP2235445306.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit D, Section 30, Township 24 South, Range 32 East, in Lea County, New Mexico (32.195278° N, 103.718056° W) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On July 30, 2022, a plug in the knockout water meter resulted in fluid being sent to the flare and resulted in a fire on pad. The released volume was estimated to be approximately 0.593 barrels (bbls) of crude oil. The released crude oil ignited and extinguished itself after reaching the ground. COG reported the release immediately to the New Mexico Oil Conservation Division (NMOCD) via email on August 1, 2022 and submitted a Release Notification Form C-141 (Form C-141) on August 11, 2022. The release was assigned Incident Number NAPP2235445306.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. On September 15, 2022, borehole BH01 (New Mexico Office of the State Engineer (NMOSE) file number C-4665) was advanced to a depth of 120 feet bgs via air rotary drill rig. The borehole was located approximately 0.31 miles east of the Site and is depicted on Figure 1. A field geologist logged and described soils continuously. The borehole lithologic/soil sampling log is included in Appendix A. The borehole was left open for over 72 hours to allow for potential slow

Windward Federal CTB Closure Request COG Operating, LLC



infill of groundwater. After the 72-hour waiting period, groundwater was not observed and it was confirmed groundwater beneath the Site is greater than 120 feet bgs. The borehole was properly abandoned using hydrated bentonite chips. All wells used for depth to groundwater determination are depicted on Figure 1 and the associated well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is an freshwater pond, located approximately 5,596 feet southeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

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

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

SITE ASSESSMENT ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On August 11, 2022, Ensolum personnel visited the Site to evaluate the release extent and conduct Site assessment activities. Ensolum personnel collected seven soil samples (SS01 through SS07), collected at a depth of 0.5 feet bgs around and within the release extent, to assess the lateral extent of the release. The preliminary soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. The release extent and soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported at or below 4 degrees Celsius (°C) under strict chain-of-custody procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of the following chemical of concerns (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH- GRO, TPH- DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Laboratory analytical results for preliminary soil samples SS02 and SS03, collected within the release extent, indicated all COC concentrations are compliant with the Site Closure Criteria. Laboratory analytical results for preliminary soil samples SS04 through SS07, collected around the release extent, indicated all COC concentrations were compliant with the Site Closure Criteria and most stringent Table I Closure Criteria and successfully defined the lateral extent of the release. Laboratory analytical results for preliminary soil samples SS01 indicated TPH concentrations exceeded the Site Closure Criteria. Based on visible staining in the release area and laboratory analytical results for preliminary soil sample SS01, delineation and excavation activities were warranted.

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DELINEATION AND EXCAVATION SOIL SAMPLING ACTIVITIES

On September 9, 2022, Ensolum personnel were at the Site to oversee delineation and excavation activities based on visible staining in the release area and laboratory analytical results for preliminary soil sample SS01. Boreholes BH01 through BH03 were advanced via backhoe within the release extent to assess the vertical extent. The boreholes were advanced to a depth of 2 feet bgs. Delineation soil samples were collected from each borehole at depths of 1-foot and 2 feet bgs. Soil from the boreholes was field screened for VOCs and chloride. Field screening results and observations for the boreholes were logged on lithologic soil sampling logs, which are included in Appendix B. The delineation soil sample locations are depicted on Figure 3.

Upon completion of delineation activities, stained soil was excavated from the release area as indicated by visible staining and laboratory analytical results for preliminary soil sample SS01. Excavation activities were performed using track-mounted backhoe and transport vehicles. The excavation occurred on pad. To direct excavation activities, soil was screened for VOCs and chloride. The excavation was completed to a depth of 1-foot bgs. Photographic documentation of the excavation activities is included in Appendix C.

Following removal of the stained soil, 5-point composite soil samples were collected every 200 square feet from the floor of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Due to the shallow depth of the excavation, the sidewalls were incorporated into the floor samples. Composite soil samples FS01 through FS08 were collected from the floor of the excavation at depths ranging from 0.5 feet to 1-foot bgs. The soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 4.

The excavation area measured approximately 1,600 square feet. A total of 54 cubic yards of impacted soil were removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Facility in Hobbs, New Mexico.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for the delineation soil samples collected from boreholes BH01 and BH03 indicated all COC concentrations were compliant with the Site Closure Criteria.

Laboratory analytical results for excavation floor samples FS01 through FS08 indicated all COC concentrations were compliant with the Site Closure Criteria. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included as Appendix D.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the July 30, 2022, crude oil flare fire. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated all COCs were compliant with the Site Closure Criteria. Based on the soil sample analytical results, no further remediation was required. COG will backfill the excavation with material purchased locally and recontour the Site to match pre-existing site conditions.

Excavation of stained soil has mitigated impacts at this Site. Depth to groundwater has been determined to be greater than 100 feet bgs and no other sensitive receptors were identified near the release extent. COG believes these remedial actions are protective of human health, the environment, and groundwater. As such, COG respectfully requests closure for Incident Number NAPP2235445306.



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

Sincerely, **Ensolum, LLC**

Kalei Jennings

Senior Project Manager

Daniel R. Moir, PG

Senior Managing Geologist

Bureau of Land Management

Appendices:

cc:

Figure 1 Site Receptor Map Figure 2 Soil Sample Locations

Charles Beauvais, COG Operating, LLC

Figure 3
Figure 4
Table 1
Appendix A
Appendix B

Delineation Soil Sample Locations
Excavation Soil Sample Locations
Soil Sample Analytical Results
Referenced Well Records
Lithologic/Soil Sampling Log

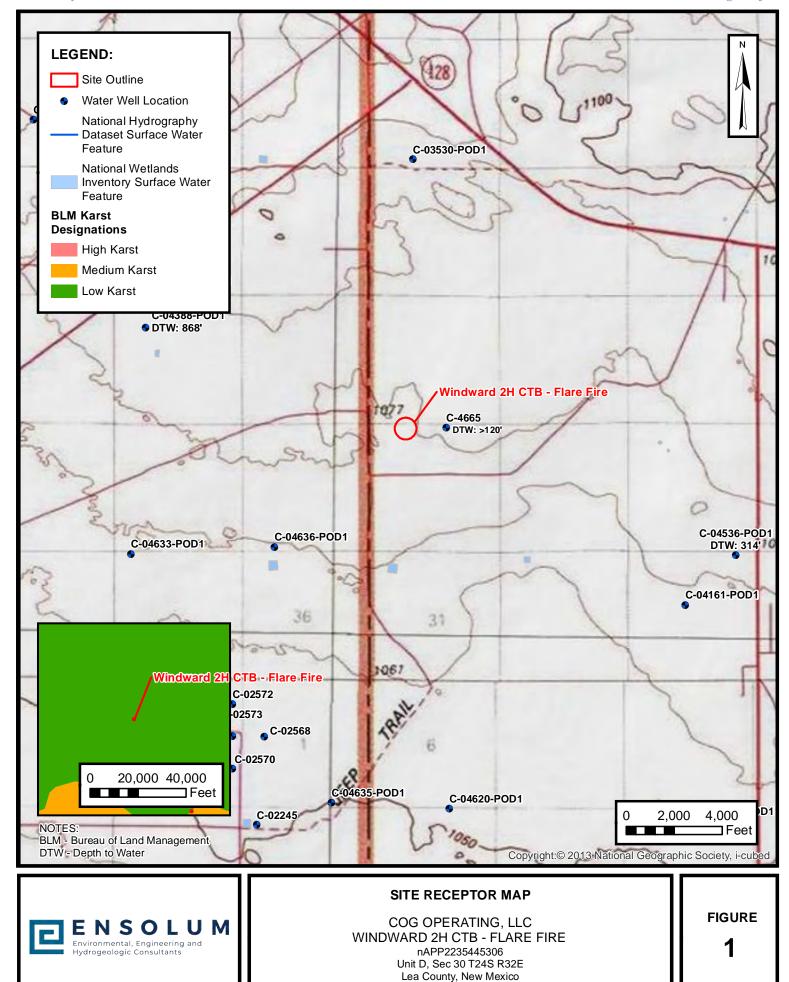
Appendix C Photographic Log

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

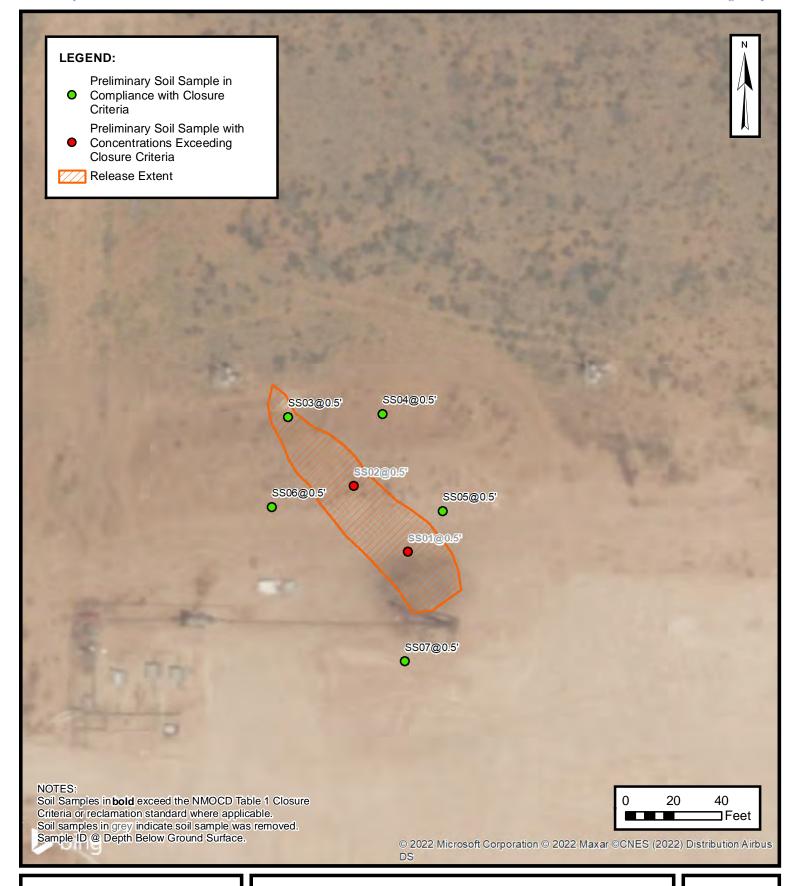
Appendix E Final C-141



FIGURES



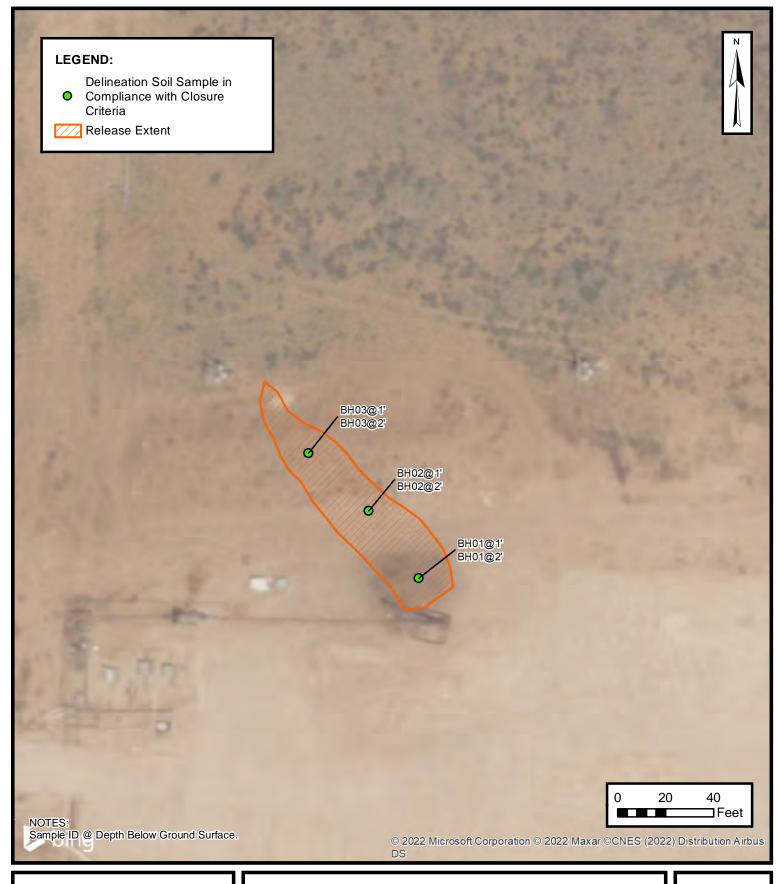
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PRELIMINARY SOIL SAMPLE LOCATIONS

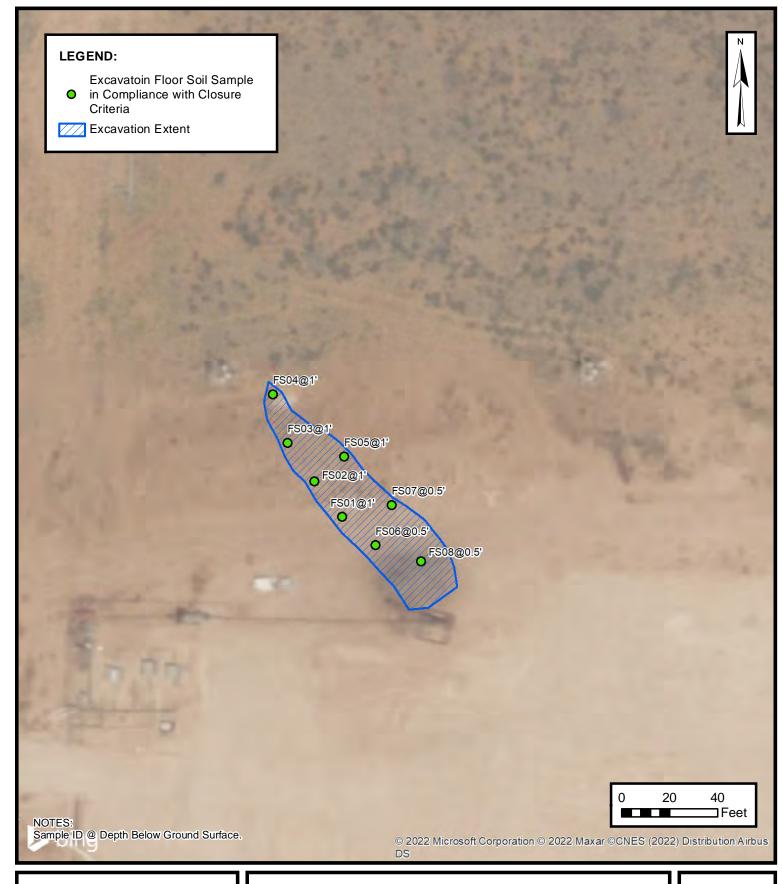
COG OPERATING, LLC WINDWARD 2H CTB - FLARE FIRE nAPP2235445306 Unit D, Sec 30 T24S R32E Lea County, New Mexico **FIGURE**





DELINEATION SOIL SAMPLE LOCATIONS

COG OPERATING, LLC WINDWARD 2H CTB - FLARE FIRE nAPP2235445306 Unit D, Sec 30 T24S R32E Lea County, New Mexico FIGURE





EXCAVATION SOIL SAMPLE LOCATIONS

COG OPERATING, LLC WINDWARD 2H CTB - FLARE FIRE nAPP2235445306 Unit D, Sec 30 T24S R32E Lea County, New Mexico **FIGURE**



TABLES

Received by OCD: 12/20/2022 12:51:54 PM



TABLE 1 **SOIL SAMPLE ANALYTICAL RESULTS** Windward 2H Flare Fire **ConocoPhillips Company** Lea County, New Mexico

Sample I.D.	Sample	Sample Depth	Benzene	Total BTEX	TPH GRO	TPH DRO	TPH ORO	GRO+DRO	Total TPH	Chloride
	Date	(feet bgs)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
NMOCD Table 1 0	Closure Criteria	(NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
				Preliminar	y Assessment S	oil Samples				
SS01	08/11/2022	0.5	< 0.00200	< 0.00401	<50.0	2,010	874	2,010	2,880	23.0
SS02	08/11/2022	0.5	<0.00200	< 0.00401	<49.9	1,060	706	1,060	1,770	211
SS03	08/11/2022	0.5	< 0.00202	< 0.00404	<50.0	65.2	78.3	65.2	144	53.9
SS04	08/11/2022	0.5	<0.00200	<0.00399	<49.9	<49.9	55.8	<49.9	55.8	29.1
SS05	08/11/2022	0.5	<0.00199	<0.00398	<50.0	<50.0	98.3	<50.0	98.3	206
SS06	08/11/2022	0.5	<0.00200	<0.00401	<49.9	<49.9	56.9	<49.9	56.9	32.6
SS07	08/11/2022	0.5	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	66.1
				Deli	neation Soil San	nples				
BH01	09/09/2022	1	< 0.00200	< 0.00401	<49.8	138	<49.8	138	138	9.13
ыют	09/09/2022	2	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	24.7
BH02	09/09/2022	1	< 0.00200	< 0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	27.9
DI 102	09/09/2022	2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	25.3
BH03	09/09/2022	1	<0.00198	< 0.00397	<50.0	<50.0	<50.0	<50.0	<50.0	52.7
БПОЗ	09/09/2022	2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	70.8
				Conf	irmation Soil Sa	mples				
FS01	09/09/2022	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	12.8
FS02	09/09/2022	1	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	10.1
FS03	09/09/2022	1	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	8.74
FS04	09/09/2022	1	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	17.5
FS05	09/09/2022	1	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	60.5
FS06	09/09/2022	0.5	<0.00200	<0.00401	<50.0	141	<50.0	141	141	33.1
FS07	09/09/2022	0.5	<0.00201	<0.00402	<49.9	931	<49.9	931	931	17.8
FS08	09/09/2022	0.5	<0.00200	<0.00399	<50.0	148	<50.0	148	148	21.3

Notes:

bgs: below ground surface mg/kg: milligrams per kilogram NMOCD: New Mexico Oil Conservation Division BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes Concentrations in bold exceed the NMOCD Table 1 Closure Criteria or reclamation standard where applicable.

GRO: Gasoline Range Organics DRO: Diesel Range Organics ORO: Oil Range Organics TPH: Total Petroleum Hydrocarbon

Sample results that have been greyed out have been excavated.

Ensolum



APPENDIX A

Referenced Well Records

□	EN	N S	O L	. U	М	Project	CONOCO PHILLIPS Name: KING TUT FEDERAL CORH Location: LEA COUNTY, NIM Manager: KALEL TENNINGS	BORING LOG NUMBER BHO! Project No. \$\phi \text{SD2} \pi 2 4\phi \text{S}2
Date Sam Drilled by Driller: Logged by Sampler:	EV:	ADUE	LODE SOUTH GRE GRE	ERLAN EN EN	<u></u>	Top of C North Co West Co Bench M At At	pordinate:	Borehole Diameter:
DEPTH (ft)	SAMPLE	SAMPLE	RECOVERY (%)	FID/PID READING (ppm)	POTENTIO- METRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION	BORING / WELL COMPLETION (GRAPHIC DEPICTION)
-							pg. 1 of 2	
0						IO, CCHE O,	CALICHE, light tan, fine to med grain, up to 1" limestone clasts, slightly most, no stall SILTY SAND, pinkish red, fine graw 1-2 cm limestone clasts, we sorted, moderate grade, slig consolidated, no stain lodge.	ntly
10.						sm	SAA, reddish brown, trace lin clasts (1-2 cm).	Westone
#n —						SM	SAA, abundant subrounded mi clasts up to 1".	ud
)						sm	901: SAA, some green mud cla (1-3 mm), slightly consol	usts idated.

C	EI	N S	O L	. U	M	Clien Project Project Project	t: CONOCO PHILLIPS Name: KING TUT FEDERAL COSH Location: LEA COUNTY, N M Manager: KALEL JENNINGS		BHOI Project No. \$\phi 3D2\phi 24982
Date Samp Drilled by: Driller: Logged by Sampler:	oled: _C L L : _H	ADLIE	Jada VS SOUTH GREE GREE	a Ierlan En En	JD.	Top of North C West C Bench I At	Surface Elevation: Casing Elevation: Coordinate: oordinate: Mark Elevation: Completion Well Stabilization	Casing Di Well Mate Surface C	Diameter: 6" ameter:
(ц)	SAMPLE INTERVAL	SAMPLE	RECOVERY (%)	FID/PID READING (ppm)	POTENTIO- METRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION		BORING / WELL COMPLETION (GRAPHIC DEPICTION)
=======================================							pg. 2 of 2		
101 ———————————————————————————————————						sm	SILTY SIAND, Reddish brown, fi less mud clasts, No green clasts, well sorted, slightly consolidated, no stain lodor	mud	
10							TD @ 120 feet bg	S	
_									
15					-				
20									



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number Q64 Q16 Q4 Sec Tws Rng

X

22333 C 04388 POD1

3 2 1 23 24S 31E

617546 35

3564006

Y

Driller License:

1058

Driller Company:

KEY'S DRILLING & PUMP SERVICE

Driller Name:

KEY, GARYR.S AICHARDDENAS

Drill Start Date:

12/18/2019

Drill Finish Date:

02/22/2020

Plug Date:

Log File Date:

02/27/2020

PCW Rcv Date:

Source:

Artesian

Pump Type:

Pipe Discharge Size:

Estimated Yield:

60 GPM

Casing Size:

4.50

Depth Well:

910 feet

Depth Water:

868 feet

Water Bearing Stratifications:

Top Bottom Description

866

868 Limestone/Dolomite/Chalk

Casing Perforations:

Top Bottom

850

910

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

8/16/22 9:02 AM

POINT OF DIVERSION SUMMARY



APPENDIX B

Lithologic/Soil Sampling Log

									I
								Sample Name: BH01	Date: 9-8-2022
		E	N	S	\mathbf{O}	LU	M	Site Name: Windward 2H Incident Number: nAPP22354453	0.5
									06
		=		. /				Job Number: 03D2024080	T
					SAMPLING	LOG		Logged By: LC	Method: Pothole
		2.195554				1 11 = 1	c	Hole Diameter: N/A	Total Depth: 2'
					il to distilled		Strips and	PID for chloride and vapor, respec	ctively. Chloride test
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic De	scriptions
					1	0	SM	Silty sand, brown and tan no odor, dry	
D	<168	10.01	Υ	BH01	1 _	_ 1		no ouor, ary	
D	168	6.07	Υ	BH01	2	2		TD: 2 feet b	oac
U	100	0.07	ſ	PUUT	_			TD: 2 feet t	りだっ
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								Sample Name: BH02	Date: 9-8-2022
			N		0		M	Site Name: Windward 2H	
ځا				3		_ 0	IAI	Incident Number: nAPP22354	145306
								Job Number: 03D2024080	
		LITHOL	OGI	C / SOIL S	SAMPLING	LOG		Logged By: LC	Method: Pothole
				3.717792				Hole Diameter: N/A	Total Depth: 2'
					vith HACH Ch il to distilled		Strips and	PID for chloride and vapor, re	espectively. Chloride test
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Descriptions
					1	0	SM	Silty sand, brown and ta	an
D	<168	0	N	BH02	1 _	_ 1		no odor, dry	
D	<168	0	N	BH02	2	2		TD: 2 fe	et has
ט	/100	U	111	שווטב				10.216	CL Dg3
					-	_ 3			
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								s I N BUO	D
								Sample Name: BH03	Date: 9-8-2022
		E	N	S	OI	LU	M	Site Name: Windward 2H Incident Number: nAPP2235445	206
								Job Number: 03D2024080	300
		LITHOL	OGI	r / sou s	SAMPLING	106			Method: Pothole
Coord		2.195696			AIVIPLING	LOG		Logged By: LC Hole Diameter: N/A	Total Depth: 2'
Comm	ents: Fie	ld screen	ing co	onducted v			Strips and	PID for chloride and vapor, response	· ·
perfor	med with	n 1:4 dilu	tion f	actor of so	il to distilled	water.			
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic D	escriptions
					Ц Ц	0	SM	Silty sand, brown and tan no odor, dry	
D	168	0	N	BH03	1 _	_ 1		no ouor, ary	
D	240.8	0	N	BH03	2	2		TD: 2 feet	hac
D	240.6	U	IN	БПОЗ	_			10. 2 1661	Dg5
					-	3			
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APPENDIX C

Photographic Log

ENSOLUM

Photographic Log

COG Operating, LLC
Windward 2H CTB - Flare
Incident Number nAPP2235445306





Photograph 1 Date: September 8, 2022 Description: Photo of release extent prior.

Photograph 2 Date: September 8, 2022

Description: Photo of release extent.





Photograph 3

Date: September 8, 2022

Description: Photo of release extent.

Photograph 4

Date: September 8, 2022

Description: Photo of release extent.



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2746-1

Laboratory Sample Delivery Group: 03D2024080 Client Project/Site: Windward 2H Flare Fire

For:

eurofins

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Kalei Jennings

RAMER

Authorized for release by: 8/25/2022 12:48:03 PM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

Visit us at: www.eurofinsus.com/Env

.....LINKS

Review your project results through

EOL

Have a Question?

Released to Imaging: 1/17/2023 2:32:42 PM

Received by OCD: 12/20/2022 12:51:54 PM

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

Laboratory Job ID: 890-2746-1

Project/Site: Windward 2H Flare Fire

SDG: 03D2024080

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QC Association Summary	18
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Certification Summary	24
Method Summary	25
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Receint Checklists	28

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3

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10

12

13

Definitions/Glossary

Job ID: 890-2746-1 Client: Ensolum Project/Site: Windward 2H Flare Fire

SDG: 03D2024080

Qualifiers

GC VOA

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

GC Semi VOA

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

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Case Narrative

Client: Ensolum

Project/Site: Windward 2H Flare Fire

Job ID: 890-2746-1

SDG: 03D2024080

Job ID: 890-2746-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2746-1

Receipt

The samples were received on 8/11/2022 3:27 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.4°C

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: SS01 (890-2746-1), (CCV 880-32557/20), (CCV 880-32557/33), (CCV 880-32557/51), (LCS 880-32561/1-A), (LCSD 880-32561/2-A), (MB 880-32546/5-A), (MB 880-32561/5-A), (880-18346-A-21-D MS) and (880-18346-A-21-E MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-18346-A-21-F). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-32833 and analytical batch 880-32836 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

Method 8015MOD NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-32175 and analytical batch 880-32121 were outside control limits. Sample matrix interference and/or non-homogeneity are 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.

HPLC/IC

Method 300 ORGFM 28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-32339 and analytical batch 880-32436 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Matrix: Solid

Client Sample Results

Client: Ensolum Job ID: 890-2746-1 Project/Site: Windward 2H Flare Fire SDG: 03D2024080

Client Sample ID: SS01 Lab Sample ID: 890-2746-1

Date Collected: 08/11/22 11:05 Date Received: 08/11/22 15:27

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/20/22 10:39	08/21/22 09:10	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/20/22 10:39	08/21/22 09:10	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/20/22 10:39	08/21/22 09:10	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		08/20/22 10:39	08/21/22 09:10	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/20/22 10:39	08/21/22 09:10	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		08/20/22 10:39	08/21/22 09:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	156	S1+	70 - 130			08/20/22 10:39	08/21/22 09:10	1
1,4-Difluorobenzene (Surr)	112		70 - 130			08/20/22 10:39	08/21/22 09:10	1
Method: Total BTEX - Total BTEX (Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			08/22/22 10:17	1
Method: 8015 NM - Diesel Range C	Organice (DP)	O) (GC)						
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2880		50.0	mg/Kg			08/16/22 09:21	1
Method: 8015B NM - Diesel Range	Organics (D	RO) (GC)						
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		08/15/22 13:57	08/16/22 03:24	1
(GRO)-C6-C10 Diesel Range Organics (Over	2010		50.0	mg/Kg		08/15/22 13:57	08/16/22 03:24	1
C10-C28)								
Oll Range Organics (Over	874		50.0	mg/Kg		08/15/22 13:57	08/16/22 03:24	1
C28-C36)								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130			08/15/22 13:57	08/16/22 03:24	1
o-Terphenyl	100		70 - 130			08/15/22 13:57	08/16/22 03:24	1
Method: 300.0 - Anions, Ion Chron	natography -	Soluble						
	D 14	Qualifier	DI.	Unit	D	Dropored	Analyzad	Dil Fac
Analyte	Result	Qualifier	RL	Ullit	U	Prepared	Analyzed	DII Fac

Client Sample ID: SS02 Lab Sample ID: 890-2746-2 Matrix: Solid

Date Collected: 08/11/22 11:10 Date Received: 08/11/22 15:27

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/24/22 10:17	08/25/22 08:28	1
Toluene	0.00208		0.00200	mg/Kg		08/24/22 10:17	08/25/22 08:28	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/24/22 10:17	08/25/22 08:28	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		08/24/22 10:17	08/25/22 08:28	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/24/22 10:17	08/25/22 08:28	1
Xylenes, Total	< 0.00401	U	0.00401	mg/Kg		08/24/22 10:17	08/25/22 08:28	1

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Matrix: Solid

Lab Sample ID: 890-2746-2

Client Sample Results

Client: Ensolum Job ID: 890-2746-1
Project/Site: Windward 2H Flare Fire SDG: 03D2024080

Client Sample ID: SS02

Date Collected: 08/11/22 11:10 Date Received: 08/11/22 15:27

Sample Depth: 0.5

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76		70 - 130			08/24/22 10:17	08/25/22 08:28	1
1,4-Difluorobenzene (Surr)	116		70 - 130			08/24/22 10:17	08/25/22 08:28	1
Method: Total BTEX - Total BTI	EX Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			08/22/22 10:17	1
Method: 8015 NM - Diesel Rang	ge Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1770		49.9	mg/Kg			08/16/22 09:21	1
: Method: 8015B NM - Diesel Rai	nge Organics (DI	RO) (GC)						
Method: 8015B NM - Diesel Rai Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Analyte Gasoline Range Organics	Result	Qualifier	RL 49.9	Unit mg/Kg	<u>D</u>	Prepared 08/15/22 13:57	Analyzed 08/16/22 03:44	Dil Fac
Analyte	Result	Qualifier			<u>D</u>			Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9	Qualifier	49.9	mg/Kg	<u>D</u>	08/15/22 13:57	08/16/22 03:44	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9	Qualifier	49.9	mg/Kg	<u>D</u>	08/15/22 13:57	08/16/22 03:44	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9 1060	Qualifier	49.9	mg/Kg	<u>D</u>	08/15/22 13:57 08/15/22 13:57	08/16/22 03:44 08/16/22 03:44	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over	Result <49.9 1060	Qualifier U	49.9	mg/Kg	<u> </u>	08/15/22 13:57 08/15/22 13:57	08/16/22 03:44 08/16/22 03:44	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9 1060 706	Qualifier U	49.9 49.9 49.9	mg/Kg	<u>D</u>	08/15/22 13:57 08/15/22 13:57 08/15/22 13:57	08/16/22 03:44 08/16/22 03:44 08/16/22 03:44	1

Client Sample ID: SS03

Lab Sample ID: 890-2746-3

Matrix: Solid

RL

4.98

Unit

mg/Kg

D

Prepared

Result Qualifier

211

Date Received: 08/11/22 15:27

Sample Depth: 0.5

Analyte

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		08/24/22 10:17	08/25/22 08:49	1
Toluene	<0.00202	U	0.00202	mg/Kg		08/24/22 10:17	08/25/22 08:49	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		08/24/22 10:17	08/25/22 08:49	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		08/24/22 10:17	08/25/22 08:49	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		08/24/22 10:17	08/25/22 08:49	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		08/24/22 10:17	08/25/22 08:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130			08/24/22 10:17	08/25/22 08:49	1
1,4-Difluorobenzene (Surr)	110		70 - 130			08/24/22 10:17	08/25/22 08:49	1
- Method: Total BTEX - Total B1	EX Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			08/22/22 10:17	

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Dil Fac

Analyzed

08/19/22 02:03

Client Sample Results

Client: Ensolum Job ID: 890-2746-1
Project/Site: Windward 2H Flare Fire SDG: 03D2024080

Client Sample ID: SS03

Date Collected: 08/11/22 11:15 Date Received: 08/11/22 15:27

Sample Depth: 0.5

Lab Sample ID: 890-2746-3

. Matrix: Solid

Method: 8015 NM - Diesel Rang	e Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	144		50.0	mg/Kg			08/16/22 09:21	1
– Method: 8015B NM - Diesel Rar	nge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		08/15/22 13:57	08/16/22 00:03	1
(GRO)-C6-C10								
Diesel Range Organics (Over	65.2		50.0	mg/Kg		08/15/22 13:57	08/16/22 00:03	1
C10-C28)								
Oll Range Organics (Over	78.3		50.0	mg/Kg		08/15/22 13:57	08/16/22 00:03	1
C28-C36)								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130			08/15/22 13:57	08/16/22 00:03	

95 70 - 130 08/15/22 13:57 08/16/22 00:03 o-Terphenyl Method: 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier RL Unit Analyte D Prepared Dil Fac Analyzed 4.98 08/19/22 02:12 Chloride 53.9 mg/Kg

Client Sample ID: SS04

Date Collected: 08/11/22 11:20

Lab Sample ID: 890-2746-4

Matrix: Solid

Date Collected: 08/11/22 11:20 Date Received: 08/11/22 15:27

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/24/22 10:17	08/25/22 09:09	1
Toluene	0.00268		0.00200	mg/Kg		08/24/22 10:17	08/25/22 09:09	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/24/22 10:17	08/25/22 09:09	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		08/24/22 10:17	08/25/22 09:09	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/24/22 10:17	08/25/22 09:09	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		08/24/22 10:17	08/25/22 09:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130			08/24/22 10:17	08/25/22 09:09	1
+ Diomondological (odin)								
1,4-Difluorobenzene (Surr) Method: Total BTEX - Total BT	101 EX Calculation		70 - 130			08/24/22 10:17	08/25/22 09:09	1
1,4-Difluorobenzene (Surr)	EX Calculation	Qualifier	70 - 130 R L	Unit	D	08/24/22 10:17 Prepared	08/25/22 09:09 Analyzed	,
1,4-Difluorobenzene (Surr) Method: Total BTEX - Total BT	EX Calculation			<mark>Unit</mark> mg/Kg	<u>D</u>			Dil Fac
1,4-Difluorobenzene (Surr) Method: Total BTEX - Total BT Analyte	EX Calculation Result <0.00399	U	RL		<u>D</u>		Analyzed	Dil Fac
1,4-Difluorobenzene (Surr) Method: Total BTEX - Total BT Analyte Total BTEX	EX Calculation Result <0.00399 ge Organics (DR0	U	RL		<u>D</u>		Analyzed	Dil Fac
1,4-Difluorobenzene (Surr) Method: Total BTEX - Total BT Analyte Total BTEX Method: 8015 NM - Diesel Ran	EX Calculation Result <0.00399 ge Organics (DR0	U (GC)	RL 	mg/Kg		Prepared	Analyzed 08/22/22 10:17	Dil Fac
1,4-Difluorobenzene (Surr) Method: Total BTEX - Total BT Analyte Total BTEX Method: 8015 NM - Diesel Ran Analyte	Result 	U O) (GC) Qualifier		mg/Kg		Prepared	Analyzed 08/22/22 10:17 Analyzed	Dil Fac
1,4-Difluorobenzene (Surr) Method: Total BTEX - Total BT Analyte Total BTEX Method: 8015 NM - Diesel Ran Analyte Total TPH Method: 8015B NM - Diesel Ran	Result 	U O) (GC) Qualifier		mg/Kg		Prepared	Analyzed 08/22/22 10:17 Analyzed	Dil Fac
1,4-Difluorobenzene (Surr) Method: Total BTEX - Total BT Analyte Total BTEX Method: 8015 NM - Diesel Ran Analyte Total TPH	Result 	O) (GC) Qualifier RO) (GC) Qualifier	RL 0.00399 RL 49.9	mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 08/22/22 10:17 Analyzed 08/16/22 09:21	Dil Fac
1,4-Difluorobenzene (Surr) Method: Total BTEX - Total BT Analyte Total BTEX Method: 8015 NM - Diesel Ran Analyte Total TPH Method: 8015B NM - Diesel Ran Analyte	result CEX Calculation Result Result Color: blue; color: blue;	O) (GC) Qualifier RO) (GC) Qualifier	RL 0.00399 RL 49.9	mg/Kg Unit mg/Kg Unit	<u>D</u>	Prepared Prepared	Analyzed 08/22/22 10:17 Analyzed 08/16/22 09:21 Analyzed	Dil Fac

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Job ID: 890-2746-1

Client: Ensolum Project/Site: Windward 2H Flare Fire SDG: 03D2024080

Lab Sample ID: 890-2746-4

Client Sample ID: SS04 Date Collected: 08/11/22 11:20 Date Received: 08/11/22 15:27

Matrix: Solid

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	55.8		49.9	mg/Kg		08/15/22 13:57	08/16/22 00:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130			08/15/22 13:57	08/16/22 00:23	1
o-Terphenyl	89		70 - 130			08/15/22 13:57	08/16/22 00:23	1

Method: 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier RL Unit Prepared Analyzed Dil Fac Chloride 29.1 4.95 mg/Kg 08/19/22 02:21

Client Sample ID: SS05 Lab Sample ID: 890-2746-5

Date Collected: 08/11/22 11:25 Date Received: 08/11/22 15:27

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		08/24/22 10:17	08/25/22 09:29	1
Toluene	< 0.00199	U	0.00199	mg/Kg		08/24/22 10:17	08/25/22 09:29	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		08/24/22 10:17	08/25/22 09:29	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/24/22 10:17	08/25/22 09:29	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		08/24/22 10:17	08/25/22 09:29	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/24/22 10:17	08/25/22 09:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130			08/24/22 10:17	08/25/22 09:29	1
1,4-Difluorobenzene (Surr)	100		70 - 130			08/24/22 10:17	08/25/22 09:29	1
Method: Total BTEX - Total BT	EX Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			08/22/22 10:17	1
Method: 8015 NM - Diesel Rang	ge Organics (DR	O) (GC)						
Method: 8015 NM - Diesel Ran Analyte	• • •	O) (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	• • •		RL 50.0	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 08/16/22 09:21	Dil Fac
Analyte	Result 98.3	Qualifier			<u>D</u>	Prepared		Dil Fac
Analyte Total TPH	Result 98.3	Qualifier			D	Prepared Prepared		Dil Fac Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics	Result 98.3	Qualifier RO) (GC) Qualifier	50.0	mg/Kg			08/16/22 09:21	1
Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte	Result 98.3 nge Organics (Di	Qualifier RO) (GC) Qualifier U	50.0	mg/Kg		Prepared	08/16/22 09:21 Analyzed	1
Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics (GRO)-C6-C10	Result 98.3 nge Organics (Di Result < 50.0	Qualifier RO) (GC) Qualifier U	50.0 RL 50.0	mg/Kg Unit mg/Kg		Prepared 08/15/22 13:57	08/16/22 09:21 Analyzed 08/16/22 00:43	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 98.3 nge Organics (Di Result < 50.0	Qualifier RO) (GC) Qualifier U	50.0 RL 50.0	mg/Kg Unit mg/Kg		Prepared 08/15/22 13:57	08/16/22 09:21 Analyzed 08/16/22 00:43	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result 98.3	Qualifier RO) (GC) Qualifier U	50.0 RL 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 08/15/22 13:57 08/15/22 13:57	08/16/22 09:21 Analyzed 08/16/22 00:43 08/16/22 00:43	1 Dil Fac 1
Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over	Result 98.3	Qualifier RO) (GC) Qualifier U	50.0 RL 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 08/15/22 13:57 08/15/22 13:57	08/16/22 09:21 Analyzed 08/16/22 00:43 08/16/22 00:43	1 Dil Fac 1
Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result 98.3	Qualifier RO) (GC) Qualifier U	50.0 RL 50.0 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 08/15/22 13:57 08/15/22 13:57	08/16/22 09:21 Analyzed 08/16/22 00:43 08/16/22 00:43	1 Dil Fac 1 1 1

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Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-2746-5

Client Sample Results

Client: Ensolum Job ID: 890-2746-1
Project/Site: Windward 2H Flare Fire SDG: 03D2024080

Client Sample ID: SS05

Date Collected: 08/11/22 11:25 Date Received: 08/11/22 15:27

Sample Depth: 0.5

Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	206		4.99	mg/Kg			08/19/22 02:30	1	

Client Sample ID: SS06

Date Collected: 08/11/22 11:30

Lab Sample ID: 890-2746-6

Matrix: Solid

Date Collected: 08/11/22 11:30 Date Received: 08/11/22 15:27

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200	mg/Kg		08/24/22 10:17	08/25/22 09:50	
Toluene	<0.00200	U	0.00200	mg/Kg		08/24/22 10:17	08/25/22 09:50	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/24/22 10:17	08/25/22 09:50	
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		08/24/22 10:17	08/25/22 09:50	
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/24/22 10:17	08/25/22 09:50	
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		08/24/22 10:17	08/25/22 09:50	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	93		70 - 130			08/24/22 10:17	08/25/22 09:50	
1,4-Difluorobenzene (Surr)	100		70 - 130			08/24/22 10:17	08/25/22 09:50	
Method: Total BTEX - Total B	TEX Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
						•		
Total BTEX	<0.00401	U	0.00401	mg/Kg			08/22/22 10:17	
<u> </u>			0.00401	mg/Kg			08/22/22 10:17	
Total BTEX	nge Organics (DR		0.00401	mg/Kg Unit	— — D	Prepared	08/22/22 10:17 Analyzed	Dil Fa
Total BTEX Method: 8015 NM - Diesel Rar	nge Organics (DR	O) (GC)			<u>D</u>			Dil Fa
Total BTEX Method: 8015 NM - Diesel Rar Analyte	nge Organics (DR Result 56.9	O) (GC) Qualifier	RL	Unit	D		Analyzed	Dil Fa
Total BTEX Method: 8015 NM - Diesel Rar Analyte Total TPH	nge Organics (DR Result 56.9 ange Organics (D	O) (GC) Qualifier	RL	Unit	<u>D</u>		Analyzed	
Total BTEX Method: 8015 NM - Diesel Rar Analyte Total TPH Method: 8015B NM - Diesel Ra	nge Organics (DR Result 56.9 ange Organics (D	O) (GC) Qualifier RO) (GC) Qualifier	RL 49.9	Unit mg/Kg		Prepared	Analyzed 08/16/22 09:21	
Method: 8015 NM - Diesel Rar Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	nge Organics (DR Result 56.9 ange Organics (D Result	Qualifier RO) (GC) Qualifier U	RL 	Unit mg/Kg		Prepared Prepared	Analyzed 08/16/22 09:21 Analyzed	
Total BTEX Method: 8015 NM - Diesel Rar Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics (GRO)-C6-C10	nge Organics (DR Result 56.9 ange Organics (D Result <49.9	Qualifier RO) (GC) Qualifier U	RL 49.9	Unit mg/Kg Unit mg/Kg		Prepared Prepared 08/15/22 13:57	Analyzed 08/16/22 09:21 Analyzed 08/16/22 01:03	Dil Fa
Method: 8015 NM - Diesel Rar Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over	nge Organics (DR Result 56.9 ange Organics (D Result <49.9	Qualifier RO) (GC) Qualifier U	RL 49.9 RL 49.9 49.9	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared Prepared 08/15/22 13:57 08/15/22 13:57	Analyzed 08/16/22 09:21 Analyzed 08/16/22 01:03 08/16/22 01:03	
Method: 8015 NM - Diesel Rar Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	nge Organics (DR Result 56.9 ange Organics (D Result <49.9 <49.9 56.9	Qualifier RO) (GC) Qualifier U	RL 49.9 RL 49.9 49.9 49.9	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared Prepared 08/15/22 13:57 08/15/22 13:57	Analyzed 08/16/22 09:21 Analyzed 08/16/22 01:03 08/16/22 01:03	Dil Fa

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Analyzed

08/19/22 02:39

RL

5.00

Unit

mg/Kg

Prepared

Result Qualifier

32.6

Dil Fac

46-1

3

4

J

7

9

12

1

Analyte

Chloride

Matrix: Solid

Client Sample Results

Client: Ensolum Job ID: 890-2746-1 SDG: 03D2024080

Project/Site: Windward 2H Flare Fire

Lab Sample ID: 890-2746-7 **Client Sample ID: SS07** Date Collected: 08/11/22 11:35 Date Received: 08/11/22 15:27

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		08/24/22 10:17	08/25/22 10:10	1
Toluene	<0.00201	U	0.00201	mg/Kg		08/24/22 10:17	08/25/22 10:10	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		08/24/22 10:17	08/25/22 10:10	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		08/24/22 10:17	08/25/22 10:10	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		08/24/22 10:17	08/25/22 10:10	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		08/24/22 10:17	08/25/22 10:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130			08/24/22 10:17	08/25/22 10:10	1
1,4-Difluorobenzene (Surr)	102		70 - 130			08/24/22 10:17	08/25/22 10:10	1
Method: Total BTEX - Total BTE	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			08/22/22 10:17	1
Analyte Total TDL		Qualifier	RL 40.8	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8		49.8	mg/Kg	— <u>-</u>		08/16/22 09:21	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	49.8	mg/Kg		08/15/22 13:57	08/16/22 02:44	1
Diesel Range Organics (Over	<49.8	U	49.8	mg/Kg		08/15/22 13:57	08/16/22 02:44	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/15/22 13:57	08/16/22 02:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130			08/15/22 13:57	08/16/22 02:44	1
o-Terphenyl	89		70 - 130			08/15/22 13:57	08/16/22 02:44	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Method: 300.0 - Anions, Ion Chro Analyte	•	Soluble Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Surrogate Summary

Job ID: 890-2746-1 Client: Ensolum Project/Site: Windward 2H Flare Fire SDG: 03D2024080

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-18346-A-21-D MS	Matrix Spike	202 S1+	95
880-18346-A-21-E MSD	Matrix Spike Duplicate	207 S1+	100
890-2746-1	SS01	156 S1+	112
890-2746-2	SS02	76	116
890-2746-3	SS03	87	110
890-2746-4	SS04	91	101
890-2746-5	SS05	95	100
890-2746-6	SS06	93	100
890-2746-7	SS07	90	102
890-2795-A-4-D MS	Matrix Spike	105	103
890-2795-A-4-E MSD	Matrix Spike Duplicate	98	102
LCS 880-32561/1-A	Lab Control Sample	209 S1+	99
LCS 880-32833/1-A	Lab Control Sample	93	95
LCSD 880-32561/2-A	Lab Control Sample Dup	196 S1+	97
LCSD 880-32833/2-A	Lab Control Sample Dup	99	101
MB 880-32546/5-A	Method Blank	137 S1+	70
MB 880-32561/5-A	Method Blank	152 S1+	70
MB 880-32772/5-A	Method Blank	79	118
	Method Blank	81	120

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-18072-A-1-B MS	Matrix Spike	79	80	
880-18072-A-1-C MSD	Matrix Spike Duplicate	80	79	
890-2746-1	SS01	97	100	
890-2746-2	SS02	92	88	
890-2746-3	SS03	91	95	
890-2746-4	SS04	90	89	
890-2746-5	SS05	88	94	
890-2746-6	SS06	86	85	
890-2746-7	SS07	86	89	
LCS 880-32175/2-A	Lab Control Sample	123	125	
LCSD 880-32175/3-A	Lab Control Sample Dup	110	115	
MB 880-32175/1-A	Method Blank	89	98	
Surrogate Legend				

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OTPH = o-Terphenyl

Job ID: 890-2746-1 Client: Ensolum Project/Site: Windward 2H Flare Fire SDG: 03D2024080

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-32546/5-A

Lab Sample ID: MB 880-32561/5-A

Matrix: Solid

Xylenes, Total

Analysis Batch: 32557

Matrix: Solid

Analysis Batch: 32557

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32546

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/19/22 19:05	08/20/22 13:06	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/19/22 19:05	08/20/22 13:06	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/19/22 19:05	08/20/22 13:06	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/19/22 19:05	08/20/22 13:06	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/19/22 19:05	08/20/22 13:06	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/19/22 19:05	08/20/22 13:06	1

MB MB

MR MR

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130
1,4-Difluorobenzene (Surr)	70		70 - 130

Prepared Analyzed Dil Fac 08/19/22 19:05 08/20/22 13:06 08/19/22 19:05 08/20/22 13:06

Client Sample ID: Method Blank

Prep Type: Total/NA

08/21/22 02:38

Prep Batch: 32561

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Benzene <0.00200 U 0.00200 mg/Kg 08/20/22 10:39 08/21/22 02:38 Toluene <0.00200 U 0.00200 mg/Kg 08/20/22 10:39 08/21/22 02:38 Ethylbenzene <0.00200 U 0.00200 08/20/22 10:39 08/21/22 02:38 mg/Kg 08/21/22 02:38 m-Xylene & p-Xylene <0.00400 U 0.00400 mg/Kg 08/20/22 10:39 o-Xylene <0.00200 U 0.00200 mg/Kg 08/20/22 10:39 08/21/22 02:38

0.00400

mg/Kg

мв мв

<0.00400 U

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	152	S1+	70 - 130	08/20/22 10	39 08/21/22 02:38	1
1,4-Difluorobenzene (Surr)	70		70 - 130	08/20/22 10:	39 08/21/22 02:38	1

Lab Sample ID: LCS 880-32561/1-A

Matrix: Solid

Analysis Batch: 32557

Client Sample ID: Lab Control Sample

08/20/22 10:39

Prep Type: Total/NA Prep Batch: 32561

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1162 mg/Kg 116 70 - 130 Toluene 0.100 0.1167 mg/Kg 117 70 - 130 Ethylbenzene 0.100 0.1229 mg/Kg 123 70 - 130 m-Xylene & p-Xylene 0.200 0.2462 mg/Kg 123 70 - 130 0.100 o-Xylene 0.1247 mg/Kg 125 70 - 130

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	209	S1+	70 - 130
1.4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-32561/2-A

Analysis Batch: 32557

Client Sample ID: Lab Control Sample Dup **Matrix: Solid**

Prep Type: Total/NA Prep Batch: 32561

LCSD LCSD Spike %Rec **RPD** Result Qualifier Analyte Added Unit %Rec Limits RPD Limit Benzene 0.100 0.1228 mg/Kg 123 70 - 130

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QC Sample Results

Job ID: 890-2746-1 Client: Ensolum Project/Site: Windward 2H Flare Fire SDG: 03D2024080

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

Lab Sample ID: LCSD 880-32561/2-A

Matrix: Solid Analysis Batch: 32557 Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 32561

Spike LCSD LCSD %Rec **RPD** Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit 0.100 Toluene 0.1197 120 70 - 130 35 mg/Kg 3 Ethylbenzene 0.100 0.1226 mg/Kg 123 70 - 130 35 0.200 70 - 130 m-Xylene & p-Xylene 0.2445 mg/Kg 122 35 o-Xylene 0.100 0.1236 mg/Kg 124 70 - 130 35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	196	S1+	70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 880-18346-A-21-D MS

Matrix: Solid

Analysis Batch: 32557

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

Prep Batch: 32561

MS MS %Rec Sample Sample Spike Result Qualifier Analyte Added Result Qualifier Unit %Rec Limits Benzene <0.000402 0.0998 0.1219 122 mg/Kg 70 - 130 <0.000402 U Toluene 0.0998 0.1183 119 70 - 130 mg/Kg Ethylbenzene <0.000402 U 0.0998 0.1246 125 70 - 130 mg/Kg 0.200 m-Xylene & p-Xylene <0.000805 U 0.2501 125 70 - 130 mg/Kg o-Xylene <0.000402 U 0.0998 0.1235 mg/Kg 123 70 - 130

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	202	S1+	70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 880-18346-A-21-E MSD

Matrix: Solid

Analysis Batch: 32557

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 32561

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.000402	U	0.100	0.1204		mg/Kg		120	70 - 130	1	35
Toluene	<0.000402	U	0.100	0.1173		mg/Kg		117	70 - 130	1	35
Ethylbenzene	<0.000402	U	0.100	0.1207		mg/Kg		120	70 - 130	3	35
m-Xylene & p-Xylene	<0.000805	U	0.200	0.2380		mg/Kg		119	70 - 130	5	35
o-Xylene	<0.000402	U	0.100	0.1215		mg/Kg		121	70 - 130	2	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	207	S1+	70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: MB 880-32772/5-A

Matrix: Solid

Analysis Batch: 32836

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32772

мв мв

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg	_	08/23/22 10:42	08/24/22 14:51	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/23/22 10:42	08/24/22 14:51	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/23/22 10:42	08/24/22 14:51	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/23/22 10:42	08/24/22 14:51	1

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Page 13 of 29

Client: Ensolum

Project/Site: Windward 2H Flare Fire

Job ID: 890-2746-1

SDG: 03D2024080

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

Lab Sample ID: MB 880-32772/5-A

Matrix: Solid

Analysis Batch: 32836

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32772

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/23/22 10:42	08/24/22 14:51	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/23/22 10:42	08/24/22 14:51	1

MD MD

мв мв

	IND	MD				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130	08/23/22 10:42	08/24/22 14:51	1
1,4-Difluorobenzene (Surr)	118		70 - 130	08/23/22 10:42	08/24/22 14:51	1

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32833

Matrix: Solid

Lab Sample ID: MB 880-32833/5-A

Analysis Batch: 32836

мв мв

Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
<0.00200	U	0.00200	mg/Kg		08/24/22 10:17	08/25/22 02:46	1
<0.00200	U	0.00200	mg/Kg		08/24/22 10:17	08/25/22 02:46	1
<0.00200	U	0.00200	mg/Kg		08/24/22 10:17	08/25/22 02:46	1
<0.00400	U	0.00400	mg/Kg		08/24/22 10:17	08/25/22 02:46	1
<0.00200	U	0.00200	mg/Kg		08/24/22 10:17	08/25/22 02:46	1
<0.00400	U	0.00400	mg/Kg		08/24/22 10:17	08/25/22 02:46	1
	<0.00200 <0.00200 <0.00200 <0.00400 <0.00200	Result Qualifier	<0.00200 U 0.00200 <0.00200 U 0.00200 <0.00200 U 0.00200 <0.00200 U 0.00400 <0.00400 U 0.00200	<0.00200	<0.00200	<0.00200	<0.00200

мв мв

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81	70 - 130	08/24/22 10:17	08/25/22 02:46	1
1,4-Difluorobenzene (Surr)	120	70 - 130	08/24/22 10:17	08/25/22 02:46	1

Lab Sample ID: LCS 880-32833/1-A

Matrix: Solid

Analysis Batch: 32836

Client Sample ID: Lab Control Samp	le
------------------------------------	----

Prep Type: Total/NA

Prep Batch: 32833

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08613		mg/Kg		86	70 - 130	
Toluene	0.100	0.09677		mg/Kg		97	70 - 130	
Ethylbenzene	0.100	0.09345		mg/Kg		93	70 - 130	
m-Xylene & p-Xylene	0.200	0.1748		mg/Kg		87	70 - 130	
o-Xylene	0.100	0.09368		mg/Kg		94	70 - 130	

LCS LCS

Surrogate	%Recovery Qualit	ier Limits
4-Bromofluorobenzene (Surr)	93	70 - 130
1,4-Difluorobenzene (Surr)	95	70 - 130

Lab Sample ID: LCSD 880-32833/2-A

Matrix: Solid

Analysis Batch: 32836

Client Sample	ID: I ah	Control	Sample	Dun

Prep Type: Total/NA

Prep Batch: 32833

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09646		mg/Kg		96	70 - 130	11	35
Toluene	0.100	0.1048		mg/Kg		105	70 - 130	8	35
Ethylbenzene	0.100	0.1015		mg/Kg		101	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.1862		mg/Kg		93	70 - 130	6	35
o-Xylene	0.100	0.09933		mg/Kg		99	70 - 130	6	35

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Prep Batch: 32833

Prep Type: Total/NA

QC Sample Results

Job ID: 890-2746-1 Client: Ensolum Project/Site: Windward 2H Flare Fire SDG: 03D2024080

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

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 890-2795-A-4-D MS Client Sample ID: Matrix Spike **Matrix: Solid** Prep Type: Total/NA

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Benzene U F1 0.09197 92 70 - 130 <0.00201 0.100 mg/Kg Toluene 0.07107 71 70 - 130 <0.00201 UF1 0.100 mg/Kg Ethylbenzene <0.00201 UF1 0.100 0.07605 mg/Kg 76 70 - 130 m-Xylene & p-Xylene <0.00402 UF1 0.201 0.1360 F1 68 70 - 130 mg/Kg

0.09272

mg/Kg

92

70 - 130

Client Sample ID: Matrix Spike Duplicate

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32175

0.100

MS MS Qualifier Limits Surrogate %Recovery 70 - 130 4-Bromofluorobenzene (Surr) 105 1,4-Difluorobenzene (Surr) 103 70 - 130

<0.00201 U

Lab Sample ID: 890-2795-A-4-E MSD

Matrix: Solid Analysis Batch: 32836

Analysis Batch: 32836

o-Xylene

Prep Batch: 32833 MSD MSD Spike %Rec RPD Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit Benzene <0.00201 UF1 0.0998 0.06774 F1 mg/Kg 68 70 - 130 30 35 Toluene <0.00201 UF1 0.0998 0.05943 F1 60 70 - 130 35 mg/Kg 18 0.0998 62 70 - 130 35 Ethylbenzene < 0.00201 UF1 0.06184 F1 mg/Kg 21 m-Xylene & p-Xylene <0.00402 UF1 0.200 0.1129 F1 mg/Kg 57 70 - 130 19 35 o-Xylene <0.00201 U 0.0998 0.07382 mg/Kg 74 70 - 130 23 35

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

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

Lab Sample ID: MB 880-32175/1-A

Analysis Batch: 32121

Matrix: Solid

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/15/22 13:57	08/15/22 20:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/15/22 13:57	08/15/22 20:31	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/15/22 13:57	08/15/22 20:31	1

MR MR

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	08/15/22 13:57	08/15/22 20:31	1
o-Terphenyl	98		70 - 130	08/15/22 13:57	08/15/22 20:31	1

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Client: Ensolum Job ID: 890-2746-1 Project/Site: Windward 2H Flare Fire

SDG: 03D2024080

Prep Type: Total/NA

Prep Batch: 32175

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

Lab Sample ID: LCS 880-32175/2-A Client Sample ID: Lab Control Sample **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 32121 Prep Batch: 32175

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	986.1		mg/Kg		99	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1108		mg/Kg		111	70 - 130	
C10-C28)								

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	123		70 - 130
o-Terphenyl	125		70 - 130

Lab Sample ID: LCSD 880-32175/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 32121

-	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	960.2		mg/Kg		96	70 - 130	3	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	1017		mg/Kg		102	70 - 130	9	20
C10-C28)									

LCSD LCSD %Recovery Qualifier Limits Surrogate 1-Chlorooctane 110 70 - 130 o-Terphenyl 115 70 - 130

Lab Sample ID: 880-18072-A-1-B MS Client Sample ID: Matrix Spike

Matrix: Solid Prep Type: Total/NA Analysis Batch: 32121 Prep Batch: 32175

-	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	953.5		mg/Kg		95	70 - 130
Diesel Range Organics (Over	<49.9	U F1	999	690.5	F1	mg/Kg		69	70 - 130

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 79 70 - 130 80 70 - 130 o-Terphenyl

Lab Sample ID: 880-18072-A-1-C MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 32121

•	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	968.8		mg/Kg		97	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	698.1		mg/Kg		70	70 - 130	1	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	80		70 - 130

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Prep Batch: 32175

Prep Batch: 32175

QC Sample Results

Job ID: 890-2746-1 Client: Ensolum Project/Site: Windward 2H Flare Fire SDG: 03D2024080

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

Lab Sample ID: 880-18072-A-1-C MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 32121

MSD MSD

Surrogate %Recovery Qualifier Limits o-Terphenyl 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-32339/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 32436

MB MB

Analyte Result Qualifier RL Unit D Dil Fac Prepared Analyzed Chloride <5.00 5.00 08/18/22 22:22 U mg/Kg

Lab Sample ID: LCS 880-32339/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 32436

LCS LCS Spike %Rec Added Result Qualifier Analyte Unit %Rec Limits Chloride 250 244.2 mg/Kg 98 90 - 110

Lab Sample ID: LCSD 880-32339/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 32436

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 243.2 90 - 110 mg/Kg 20

Lab Sample ID: 880-17981-A-1-C MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 32436

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 855 F1 248 1192 F1 136 90 - 110 mg/Kg

Lab Sample ID: 880-17981-A-1-D MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Released to Imaging: 1/17/2023 2:32:42 PM

Analysis Batch: 32436

Sample Sample Spike MSD MSD %Rec RPD Qualifier Added Qualifier RPD Limit Analyte Result Result Unit %Rec Limits Chloride F1 248 F1 855 1138 114 90 - 110 20 mg/Kg

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Prep Type: Soluble

Client: Ensolum

Project/Site: Windward 2H Flare Fire

Job ID: 890-2746-1 SDG: 03D2024080

GC VOA

Prep Batch: 32546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-32546/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 32557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2746-1	SS01	Total/NA	Solid	8021B	32561
MB 880-32546/5-A	Method Blank	Total/NA	Solid	8021B	32546
MB 880-32561/5-A	Method Blank	Total/NA	Solid	8021B	32561
LCS 880-32561/1-A	Lab Control Sample	Total/NA	Solid	8021B	32561
LCSD 880-32561/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	32561
880-18346-A-21-D MS	Matrix Spike	Total/NA	Solid	8021B	32561
880-18346-A-21-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	32561

Prep Batch: 32561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2746-1	SS01	Total/NA	Solid	5035	_
MB 880-32561/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-32561/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-32561/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-18346-A-21-D MS	Matrix Spike	Total/NA	Solid	5035	
880-18346-A-21-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 32623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2746-1	SS01	Total/NA	Solid	Total BTEX	-
890-2746-2	SS02	Total/NA	Solid	Total BTEX	
890-2746-3	SS03	Total/NA	Solid	Total BTEX	
890-2746-4	SS04	Total/NA	Solid	Total BTEX	
890-2746-5	SS05	Total/NA	Solid	Total BTEX	
890-2746-6	SS06	Total/NA	Solid	Total BTEX	
890-2746-7	SS07	Total/NA	Solid	Total BTEX	

Prep Batch: 32772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-32772/5-A	Method Blank	Total/NA	Solid	5035	<u>.</u>

Prep Batch: 32833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2746-2	SS02	Total/NA	Solid	5035	
890-2746-3	SS03	Total/NA	Solid	5035	
890-2746-4	SS04	Total/NA	Solid	5035	
890-2746-5	SS05	Total/NA	Solid	5035	
890-2746-6	SS06	Total/NA	Solid	5035	
890-2746-7	SS07	Total/NA	Solid	5035	
MB 880-32833/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-32833/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-32833/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2795-A-4-D MS	Matrix Spike	Total/NA	Solid	5035	
890-2795-A-4-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

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Client: EnsolumJob ID: 890-2746-1Project/Site: Windward 2H Flare FireSDG: 03D2024080

GC VOA

Analysis Batch: 32836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2746-2	SS02	Total/NA	Solid	8021B	32833
890-2746-3	SS03	Total/NA	Solid	8021B	32833
890-2746-4	SS04	Total/NA	Solid	8021B	32833
890-2746-5	SS05	Total/NA	Solid	8021B	32833
890-2746-6	SS06	Total/NA	Solid	8021B	32833
890-2746-7	SS07	Total/NA	Solid	8021B	32833
MB 880-32772/5-A	Method Blank	Total/NA	Solid	8021B	32772
MB 880-32833/5-A	Method Blank	Total/NA	Solid	8021B	32833
LCS 880-32833/1-A	Lab Control Sample	Total/NA	Solid	8021B	32833
LCSD 880-32833/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	32833
890-2795-A-4-D MS	Matrix Spike	Total/NA	Solid	8021B	32833
890-2795-A-4-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	32833

GC Semi VOA

Analysis Batch: 32121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2746-1	SS01	Total/NA	Solid	8015B NM	32175
890-2746-2	SS02	Total/NA	Solid	8015B NM	32175
890-2746-3	SS03	Total/NA	Solid	8015B NM	32175
890-2746-4	SS04	Total/NA	Solid	8015B NM	32175
890-2746-5	SS05	Total/NA	Solid	8015B NM	32175
890-2746-6	SS06	Total/NA	Solid	8015B NM	32175
890-2746-7	SS07	Total/NA	Solid	8015B NM	32175
MB 880-32175/1-A	Method Blank	Total/NA	Solid	8015B NM	32175
LCS 880-32175/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	32175
LCSD 880-32175/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	32175
880-18072-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	32175
880-18072-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	32175

Prep Batch: 32175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2746-1	SS01	Total/NA	Solid	8015NM Prep	
890-2746-2	SS02	Total/NA	Solid	8015NM Prep	
890-2746-3	SS03	Total/NA	Solid	8015NM Prep	
890-2746-4	SS04	Total/NA	Solid	8015NM Prep	
890-2746-5	SS05	Total/NA	Solid	8015NM Prep	
890-2746-6	SS06	Total/NA	Solid	8015NM Prep	
890-2746-7	SS07	Total/NA	Solid	8015NM Prep	
MB 880-32175/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-32175/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-32175/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-18072-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-18072-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 32213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2746-1	SS01	Total/NA	Solid	8015 NM	
890-2746-2	SS02	Total/NA	Solid	8015 NM	
890-2746-3	SS03	Total/NA	Solid	8015 NM	
890-2746-4	SS04	Total/NA	Solid	8015 NM	

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9/25/2022

Client: Ensolum Job ID: 890-2746-1 Project/Site: Windward 2H Flare Fire

SDG: 03D2024080

GC Semi VOA (Continued)

Analysis Batch: 32213 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch
890-2746-5	SS05	Total/NA	Solid	8015 NM
890-2746-6	SS06	Total/NA	Solid	8015 NM
890-2746-7	SS07	Total/NA	Solid	8015 NM

HPLC/IC

Leach Batch: 32339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2746-1	SS01	Soluble	Solid	DI Leach	_
890-2746-2	SS02	Soluble	Solid	DI Leach	
890-2746-3	SS03	Soluble	Solid	DI Leach	
890-2746-4	SS04	Soluble	Solid	DI Leach	
890-2746-5	SS05	Soluble	Solid	DI Leach	
890-2746-6	SS06	Soluble	Solid	DI Leach	
890-2746-7	SS07	Soluble	Solid	DI Leach	
MB 880-32339/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-32339/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-32339/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-17981-A-1-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-17981-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 32436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2746-1	SS01	Soluble	Solid	300.0	32339
890-2746-2	SS02	Soluble	Solid	300.0	32339
890-2746-3	SS03	Soluble	Solid	300.0	32339
890-2746-4	SS04	Soluble	Solid	300.0	32339
890-2746-5	SS05	Soluble	Solid	300.0	32339
890-2746-6	SS06	Soluble	Solid	300.0	32339
890-2746-7	SS07	Soluble	Solid	300.0	32339
MB 880-32339/1-A	Method Blank	Soluble	Solid	300.0	32339
LCS 880-32339/2-A	Lab Control Sample	Soluble	Solid	300.0	32339
LCSD 880-32339/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	32339
880-17981-A-1-C MS	Matrix Spike	Soluble	Solid	300.0	32339
880-17981-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	32339

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Job ID: 890-2746-1

Client: Ensolum Project/Site: Windward 2H Flare Fire SDG: 03D2024080

Client Sample ID: SS01 Lab Sample ID: 890-2746-1

Date Collected: 08/11/22 11:05 Matrix: Solid Date Received: 08/11/22 15:27

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	32561	08/20/22 10:39	MR	EET MID
Total/NA	Analysis	8021B		1			32557	08/21/22 09:10	MR	EET MID
Total/NA	Analysis	Total BTEX		1			32623	08/22/22 10:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			32213	08/16/22 09:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32175	08/15/22 13:57	DM	EET MID
Total/NA	Analysis	8015B NM		1			32121	08/16/22 03:24	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	32339	08/17/22 09:34	CH	EET MID
Soluble	Analysis	300.0		1			32436	08/19/22 01:35	CH	EET MID

Client Sample ID: SS02 Lab Sample ID: 890-2746-2

Date Collected: 08/11/22 11:10 Matrix: Solid Date Received: 08/11/22 15:27

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	32833	08/24/22 10:17	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32836	08/25/22 08:28	MR	EET MID
Total/NA	Analysis	Total BTEX		1			32623	08/22/22 10:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			32213	08/16/22 09:21	SM	EET MIC
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	32175	08/15/22 13:57	DM	EET MIC
Total/NA	Analysis	8015B NM		1			32121	08/16/22 03:44	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	32339	08/17/22 09:34	CH	EET MIC
Soluble	Analysis	300.0		1			32436	08/19/22 02:03	CH	EET MID

Client Sample ID: SS03 Lab Sample ID: 890-2746-3 Date Collected: 08/11/22 11:15 **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			4.95 g	5 mL	32833	08/24/22 10:17	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32836	08/25/22 08:49	MR	EET MID
Total/NA	Analysis	Total BTEX		1			32623	08/22/22 10:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			32213	08/16/22 09:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32175	08/15/22 13:57	DM	EET MID
Total/NA	Analysis	8015B NM		1			32121	08/16/22 00:03	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	32339	08/17/22 09:34	CH	EET MID
Soluble	Analysis	300.0		1			32436	08/19/22 02:12	CH	EET MID

Client Sample ID: SS04 Lab Sample ID: 890-2746-4 Date Collected: 08/11/22 11:20 **Matrix: Solid**

Date Received: 08/11/22 15:27

Date Received: 08/11/22 15:27

	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	32833	08/24/22 10:17	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32836	08/25/22 09:09	MR	EET MID
Total/NA	Analysis	Total BTEX		1			32623	08/22/22 10:17	SM	EET MID

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Client: Ensolum Project/Site: Windward 2H Flare Fire Job ID: 890-2746-1

SDG: 03D2024080

Client Sample ID: SS04

Lab Sample ID: 890-2746-4

Matrix: Solid

Matrix: Solid

Matrix: Solid

Date Collected: 08/11/22 11:20 Date Received: 08/11/22 15:27

	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			32213	08/16/22 09:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	32175	08/15/22 13:57	DM	EET MID
Total/NA	Analysis	8015B NM		1			32121	08/16/22 00:23	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	32339	08/17/22 09:34	СН	EET MID
Soluble	Analysis	300.0		1			32436	08/19/22 02:21	CH	EET MID

Lab Sample ID: 890-2746-5

Client Sample ID: SS05 Date Collected: 08/11/22 11:25 **Matrix: Solid**

Date Received: 08/11/22 15:27

	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	32833	08/24/22 10:17	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32836	08/25/22 09:29	MR	EET MID
Total/NA	Analysis	Total BTEX		1			32623	08/22/22 10:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			32213	08/16/22 09:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32175	08/15/22 13:57	DM	EET MID
Total/NA	Analysis	8015B NM		1			32121	08/16/22 00:43	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	32339	08/17/22 09:34	CH	EET MID
Soluble	Analysis	300.0		1			32436	08/19/22 02:30	CH	EET MID

Client Sample ID: SS06 Lab Sample ID: 890-2746-6

Date Collected: 08/11/22 11:30 Date Received: 08/11/22 15:27

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	32833	08/24/22 10:17	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32836	08/25/22 09:50	MR	EET MID
Total/NA	Analysis	Total BTEX		1			32623	08/22/22 10:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			32213	08/16/22 09:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	32175	08/15/22 13:57	DM	EET MID
Total/NA	Analysis	8015B NM		1			32121	08/16/22 01:03	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	32339	08/17/22 09:34	CH	EET MID
Soluble	Analysis	300.0		1			32436	08/19/22 02:39	CH	EET MID

Client Sample ID: SS07 Lab Sample ID: 890-2746-7

Date Collected: 08/11/22 11:35 Date Received: 08/11/22 15:27

	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	32833	08/24/22 10:17	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32836	08/25/22 10:10	MR	EET MID
Total/NA	Analysis	Total BTEX		1			32623	08/22/22 10:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			32213	08/16/22 09:21	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.04 g	10 mL	32175 32121	08/15/22 13:57 08/16/22 02:44	DM SM	EET MID EET MID

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Lab Chronicle

Client: Ensolum Job ID: 890-2746-1
Project/Site: Windward 2H Flare Fire SDG: 03D2024080

Client Sample ID: SS07 Lab Sample ID: 890-2746-7

Date Collected: 08/11/22 11:35
Date Received: 08/11/22 15:27

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	32339	08/17/22 09:34	СН	EET MID
Soluble	Analysis	300.0		1			32436	08/19/22 02:49	CH	EET MID

Laboratory References:

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

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Accreditation/Certification Summary

Client: Ensolum Job ID: 890-2746-1 Project/Site: Windward 2H Flare Fire

SDG: 03D2024080

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	NI	ELAP	T104704400-22-24	06-30-23
The following analytes the agency does not of	. ,	ut the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes fo
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	

Method Summary

Job ID: 890-2746-1 Client: Ensolum Project/Site: Windward 2H Flare Fire

SDG: 03D2024080

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

Eurofins Carlsbad

Sample Summary

Client: Ensolum

Project/Site: Windward 2H Flare Fire

Job ID: 890-2746-1

SDG: 03D2024080

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2746-1	SS01	Solid	08/11/22 11:05	08/11/22 15:27	0.5
890-2746-2	SS02	Solid	08/11/22 11:10	08/11/22 15:27	0.5
890-2746-3	SS03	Solid	08/11/22 11:15	08/11/22 15:27	0.5
890-2746-4	SS04	Solid	08/11/22 11:20	08/11/22 15:27	0.5
890-2746-5	SS05	Solid	08/11/22 11:25	08/11/22 15:27	0.5
890-2746-6	SS06	Solid	08/11/22 11:30	08/11/22 15:27	0.5
890-2746-7	SS07	Solid	08/11/22 11:35	08/11/22 15:27	0.5

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

Total 200.7 / 6010

200.8 / 6020:

8RCRA 13PPM Texas 11 Al

Sb

As Ва

Ве

TCLP / SPLP 6010: 8RCRA Sb As Ba Be

SS07 SS06 SS05 SS04 SS03 SS02 SS01

S S S S

08.11.22 08.11.22

1135 1130 1125

0.5 0.5 0.5 0.5 0.5

G

G G G

08.11.22 08.11.22 08.11.22

1120

1115 1110

service. Eurofina Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expense Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofin xtice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins

Received by: (Signature)

Date/Time

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Revised Date 08/25/2020 Rev 2020 2

Relinquished by: (Signature)

Chain of Custody

Environment Testing

Preservative Code	UEST	ANALYSIS REQUEST	Turn Around	Windward 2H Flare Fire	Project Name:
			Finally Neminigo & Citorio	017-000-2000	Filolia.
Other:	Deliverables: EDD	m com	Email: kiennings@ensolum com	817_683_2503	Dhone:
/UST TRRP Leve	Reporting: Level II Level III L PST/UST TRRP L Level	Midland, TX 79701	City, State ZIP:	Midland, TX 79701	City, State ZIP:
]	State of Project:	601 N Marienfeld St Suite 400	Address:	601 N Marienfeld St Suite 400	Address:
fields RRC Superfu	Program: UST/PST ☐ PRP☐ Brownfields ☐ RRC ☐ Superfu	Ensolum, LLC	Company Name:	Ensolum, LLC	Company Name:
omments	Work Order Comments	Kalei Jennigns	Bill to: (if different)	Kalei Jennings	Project Manager:
www.xenco.com Page of	www.xenco.com				
2		Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	Hobbs, NM		
		EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296	EL Paso, T	Xenco	

Sampler's Name:

Conner Shore

Due Date: ☑ Routine

☐ Rush

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

Project Location:

SAMPLE RECEIPT

emp Blank:

Yes) No

Wet Ice:

S O

Parameters

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Thermometer ID:

DO MAR Yes

10.0

CHLORIDES (EPA: 300.0)

Samples Received Intact: Cooler Custody Seals:

Sample Custody Seals:

Yes

No ANA

emperature Reading:

Corrected Temperature:

Yes No NA

Correction Factor:

Sample Identification

Matrix

Sampled

Sampled

Comp

Cont # of

Grab/

TPH (8015)

1105

0.5 Depth

Date

Time

08.11.22 08.11.22

0.5

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Project Number:

03D2024080

WORK Order No:
www.xenco.com Page 1 of 1
ģ
m: UST/PST ☐ PRP☐ Brownfields ☐ RRC ☐ Superfund ☐
f Project:
ng: Level III ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV☐
ables: EDD ADaPT Other:

Deliverables: EDD	ADaPT L. Other:
ANALYSIS REQUEST	Preservative Codes
	None: NO Di Water: H ₂ O
	Cool: Cool MeOH: Me
	~
	H₃PO₄: HP
	NaHSO ₄ : NABIS
	Na ₂ S ₂ O ₃ : NaSO ₃
890-2746 Chain of Custody	Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC
	Sample Comments
Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag Si	Ag SiO ₂ Na Sr Ti Sn U V Zn
Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U Hg:	Hg: 1631 / 245.1 / 7470 / 7471
nco, its affiliates and subcontractors. It assigns standard terms and conditions the conditions of the conditions are supported by the conditions of the conditions are supported by the conditions of the conditions are supported by the conditions of the conditions	lons
tenco, its affiliates and subcontractors. It assigns standard terms and conditions incurred by the client if such losses are due to circumstances beyond the control standard terms and conditions.	ions introl

Login Sample Receipt Checklist

 Client: Ensolum
 Job Number: 890-2746-1

 SDG Number: 03D2024080

List Source: Eurofins Carlsbad

Login Number: 2746 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	

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Released to Imaging: 1/17/2023 2:32:42 PM

Login Sample Receipt Checklist

Client: Ensolum Job Numb

Job Number: 890-2746-1 SDG Number: 03D2024080

Login Number: 2746
List Source: Eurofins Midland
List Number: 2
List Creation: 08/15/22 08:36 AM

Creator: Rodriguez, Leticia

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

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<6mm (1/4").





ANALYTICAL REPORT

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

Laboratory Job ID: 890-2910-1

Laboratory Sample Delivery Group: Lea County NM

Client Project/Site: Windward 2H

For:

Ensolum 2351 W. Northwest Hwy **Suite 1203** Dallas, Texas 75220

Attn: Joe Gable

RAMER

Authorized for release by: 9/21/2022 5:14:19 PM

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.



Visit us at:

www.eurofinsus.com/Env

Released to Imaging: 1/17/2023 2:32:42 PM

Received by OCD: 12/20/2022 12:51:54 PM

Client: Ensolum
Project/Site: Windward 2H

Laboratory Job ID: 890-2910-1
SDG: Lea County NM

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Definitions/Glossary

Client: Ensolum

Job ID: 890-2910-1

Project/Site: Windward 2H

SDG: Lea County NM

2

Qualifiers

GC VOA Qualifier

 Qualifier
 Qualifier Description

 F1
 MS and/or MSD recovery exceeds control limits.

F2 MS/MSD RPD exceeds control limits

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

U Indicates the analyte was analyzed for but not detected.

HPLC/IC

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.

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

%R Percent Recovery

CFL Contains Free Liquid

CFU Colony Forming Unit

CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

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

NC Not Calculated

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

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Eurofins Carlsbad

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Case Narrative

Client: Ensolum Job ID: 890-2910-1 Project/Site: Windward 2H SDG: Lea County NM

Job ID: 890-2910-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2910-1

Receipt

The samples were received on 9/9/2022 9:22 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.2°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-34858 and analytical batch 880-34895 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

GC Semi VOA

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

HPLC/IC

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

Lab Sample ID: 890-2910-1

Client Sample Results

Client: Ensolum Job ID: 890-2910-1
Project/Site: Windward 2H SDG: Lea County NM

Client Sample ID: BH01

Date Collected: 09/09/22 10:00 Date Received: 09/09/22 09:22

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/19/22 15:06	09/21/22 08:25	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/19/22 15:06	09/21/22 08:25	•
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/19/22 15:06	09/21/22 08:25	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		09/19/22 15:06	09/21/22 08:25	
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/19/22 15:06	09/21/22 08:25	•
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/19/22 15:06	09/21/22 08:25	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	82		70 - 130			09/19/22 15:06	09/21/22 08:25	-
1,4-Difluorobenzene (Surr)	116		70 - 130			09/19/22 15:06	09/21/22 08:25	
Method: Total BTEX - Total BTE	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00401	U	0.00401	mg/Kg			09/21/22 15:17	-
Analyte		Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	
<u> </u>	Result 138	Qualifier	RL 49.8	Mg/Kg	<u>D</u>	Prepared	Analyzed 09/14/22 08:52	
Analyte Total TPH Method: 8015B NM - Diesel Range	138	<u> </u>			<u>D</u>	Prepared		
Total TPH	138 ge Organics (D	<u> </u>			<u>D</u> 	Prepared Prepared		
Total TPH Method: 8015B NM - Diesel Ran	138 ge Organics (D	RO) (GC) Qualifier	49.8	mg/Kg			09/14/22 08:52	Dil Fac
Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics	138 ge Organics (D Result	RO) (GC) Qualifier	49.8	mg/Kg		Prepared	09/14/22 08:52 Analyzed	Dil Fac
Method: 8015B NM - Diesel Randanalyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (Di Result <49.8	RO) (GC) Qualifier	49.8 RL 49.8	mg/Kg Unit mg/Kg		Prepared 09/13/22 08:23	09/14/22 08:52 Analyzed 09/13/22 15:20	Dil Fa
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (Di Result <49.8	RO) (GC) Qualifier U	49.8 RL 49.8 49.8	mg/Kg Unit mg/Kg		Prepared 09/13/22 08:23	09/14/22 08:52 Analyzed 09/13/22 15:20 09/13/22 15:20	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)	138 ge Organics (Di Result <49.8 138 <49.8	RO) (GC) Qualifier U	49.8 RL 49.8 49.8 49.8 49.8	mg/Kg Unit mg/Kg		Prepared 09/13/22 08:23 09/13/22 08:23	09/14/22 08:52 Analyzed 09/13/22 15:20 09/13/22 15:20 09/13/22 15:20	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	138 ge Organics (Di Result <49.8 138 <49.8 %Recovery	RO) (GC) Qualifier U	49.8 RL 49.8 49.8 49.8 Limits	mg/Kg Unit mg/Kg		Prepared 09/13/22 08:23 09/13/22 08:23 09/13/22 08:23 Prepared	Analyzed 09/13/22 15:20 09/13/22 15:20 09/13/22 15:20 Analyzed	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) Surrogate	138 ge Organics (Di Result <49.8 138 <49.8	RO) (GC) Qualifier U	49.8 49.8 49.8 49.8 49.8 Limits 70 - 130	mg/Kg Unit mg/Kg		Prepared 09/13/22 08:23 09/13/22 08:23 09/13/22 08:23 Prepared 09/13/22 08:23	09/14/22 08:52 Analyzed 09/13/22 15:20 09/13/22 15:20 Analyzed 09/13/22 15:20	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	138 ge Organics (D	RO) (GC) Qualifier U	49.8 49.8 49.8 49.8 49.8 Limits 70 - 130	mg/Kg Unit mg/Kg		Prepared 09/13/22 08:23 09/13/22 08:23 09/13/22 08:23 Prepared 09/13/22 08:23	09/14/22 08:52 Analyzed 09/13/22 15:20 09/13/22 15:20 Analyzed 09/13/22 15:20	Dil Fac

Client Sample ID: BH01

Date Collected: 09/09/22 10:05 Date Received: 09/09/22 09:22

Sample Depth: 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/19/22 15:06	09/21/22 08:45	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/19/22 15:06	09/21/22 08:45	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/19/22 15:06	09/21/22 08:45	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		09/19/22 15:06	09/21/22 08:45	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/19/22 15:06	09/21/22 08:45	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/19/22 15:06	09/21/22 08:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			09/19/22 15:06	09/21/22 08:45	1

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Lab Sample ID: 890-2910-2

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Matrix: Solid

Client Sample Results

Client: Ensolum Job ID: 890-2910-1
Project/Site: Windward 2H SDG: Lea County NM

Client Sample ID: BH01 Lab Sample ID: 890-2910-2

Date Collected: 09/09/22 10:05

Date Received: 09/09/22 09:22

Matrix: Solid

Sample Depth: 2

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	108	70 - 130	09/19/22 15:06	09/21/22 08:45	1

Method: Total	BTEX - Total	I BTEX Calculation	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00403	U	0.00403	mg/Kg			09/21/22 15:17	1

Mothod: 8015 NM -	Diosal Range	Organice	(DRO) (GC)

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U	49.9	mg/Kg			09/14/22 08:52	1

Method: 8015B	NM - Diesel	Range Ord	anics	(DRO)	(GC)
motilioa. oo lob	THE DIGGGE	Trainge Oit	garnos	(5.10)	100)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/13/22 08:23	09/13/22 15:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/13/22 08:23	09/13/22 15:41	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/13/22 08:23	09/13/22 15:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100	70 - 130	09/13/22 08:23	09/13/22 15:41	1
o-Terphenyl	102	70 - 130	09/13/22 08:23	09/13/22 15:41	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24.7		4.99	mg/Kg			09/14/22 10:01	1

Client Sample ID: BH02

Date Collected: 09/09/22 10:10

Lab Sample ID: 890-2910-3

Matrix: Solid

Date Collected: 09/09/22 10:10 Date Received: 09/09/22 09:22

Sample Depth: 1

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

mounda. our ib volutile orga	ino compoundo ((33)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/19/22 15:06	09/21/22 10:36	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/19/22 15:06	09/21/22 10:36	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/19/22 15:06	09/21/22 10:36	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		09/19/22 15:06	09/21/22 10:36	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/19/22 15:06	09/21/22 10:36	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/19/22 15:06	09/21/22 10:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130			09/19/22 15:06	09/21/22 10:36	1
1,4-Difluorobenzene (Surr)	110		70 - 130			09/19/22 15:06	09/21/22 10:36	1

Method:	Total RTF	X - Total RTFX	Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00399	U	0.00399	ma/Ka			09/21/22 15:17	1

	Method: 8015 NM - Diesel	Range Organics (DRO) (GC)
ı	Michiga. 00 to Min - Diese	i italige Organics (Dito	, (00)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/14/22 08:52	1

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Lab Sample ID: 890-2910-3

09/14/22 10:05

Client: Ensolum Job ID: 890-2910-1
Project/Site: Windward 2H SDG: Lea County NM

Client Sample ID: BH02

Date Collected: 09/09/22 10:10 Date Received: 09/09/22 09:22

Sample Depth: 1

<50.0 <50.0 <50.0	U	50.0 50.0	mg/Kg mg/Kg mg/Kg		09/13/22 08:23	09/13/22 16:02 09/13/22 16:02	1
			0 0				1
			0 0				1
<50.0	U	50.0	ma/Ka		00/40/00 00 00	00/40/00 40 00	
<50.0	U	50.0	ma/Ka		00/40/00 00 00	00/40/00 40 00	
			9/119		09/13/22 08:23	09/13/22 16:02	1
covery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
102		70 - 130			09/13/22 08:23	09/13/22 16:02	1
106		70 - 130			09/13/22 08:23	09/13/22 16:02	1
	Calubia						
							Dil Fac
	102 106 phy -		102 70 - 130 106 70 - 130 phy - Soluble	102 70 - 130 106 70 - 130 phy - Soluble	102 70 - 130 106 70 - 130 phy - Soluble	102 70 - 130 09/13/22 08:23 106 70 - 130 09/13/22 08:23 phy - Soluble	102 70 - 130 09/13/22 08:23 09/13/22 16:02 106 70 - 130 09/13/22 08:23 09/13/22 16:02 phy - Soluble

Client Sample ID: BH02

Date Collected: 09/09/22 10:15

Lab Sample ID: 890-2910-4

Matrix: Solid

27.9

%Recovery Qualifier

93

98

5.03

mg/Kg

Date Received: 09/09/22 09:22

Sample Depth: 2

Chloride

Surrogate

o-Terphenyl

1-Chlorooctane

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/19/22 15:06	09/21/22 10:56	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/19/22 15:06	09/21/22 10:56	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/19/22 15:06	09/21/22 10:56	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		09/19/22 15:06	09/21/22 10:56	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		09/19/22 15:06	09/21/22 10:56	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/19/22 15:06	09/21/22 10:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130			09/19/22 15:06	09/21/22 10:56	1
1,4-Difluorobenzene (Surr)	112		70 - 130			09/19/22 15:06	09/21/22 10:56	1
Method: Total BTEX - Total BTE								
		Ovalifian	DI.	llm:4	Б	Drawayad	Analysis	Dil Faa
Method: Total BTEX - Total BTE Analyte Total BTEX		Qualifier U	RL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 09/21/22 15:17	
Analyte Total BTEX . Method: 8015 NM - Diesel Rang	Result <0.00398	U (GC)	0.00398	mg/Kg			09/21/22 15:17	1
Analyte Total BTEX Method: 8015 NM - Diesel Rang Analyte	Result <0.00398 e Organics (DR) Result	U O) (GC) Qualifier	0.00398	mg/Kg	<u>D</u>	Prepared Prepared	09/21/22 15:17 Analyzed	1
Analyte Total BTEX	Result <0.00398	U O) (GC) Qualifier	0.00398	mg/Kg			09/21/22 15:17	1
Analyte Total BTEX Method: 8015 NM - Diesel Rang Analyte	Result	O) (GC) Qualifier	0.00398	mg/Kg			09/21/22 15:17 Analyzed	1
Analyte Total BTEX Method: 8015 NM - Diesel Rang Analyte Total TPH Method: 8015B NM - Diesel Rang	e Organics (DR) Result <50.0 ge Organics (D)	O) (GC) Qualifier	0.00398	mg/Kg			09/21/22 15:17 Analyzed	Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Rang Analyte Total TPH	e Organics (DR) Result <50.0 ge Organics (D)	U O) (GC) Qualifier U RO) (GC) Qualifier	0.00398 RL 50.0	mg/Kg Unit mg/Kg	<u>D</u>	Prepared	09/21/22 15:17 Analyzed 09/14/22 08:52	Dil Fac Dil Fac Dil Fac 1
Analyte Total BTEX Method: 8015 NM - Diesel Rang Analyte Total TPH Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics	e Organics (DR Result <50.00398	U O) (GC) Qualifier U RO) (GC) Qualifier U	0.00398 RL 50.0	mg/Kg Unit mg/Kg Unit	<u>D</u>	Prepared Prepared	09/21/22 15:17 Analyzed 09/14/22 08:52 Analyzed	Dil Fac

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Analyzed

09/13/22 16:22

09/13/22 16:22

Prepared

09/13/22 08:23

09/13/22 08:23

Dil Fac

3

8

10

12

13

Limits

70 - 130

70 - 130

Lab Sample ID: 890-2910-4

Client Sample Results

Client: Ensolum

Project/Site: Windward 2H

Job ID: 890-2910-1

SDG: Lea County NM

Client Sample ID: BH02

Date Collected: 09/09/22 10:15 Date Received: 09/09/22 09:22

Sample Depth: 2

Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	25.3	5.01	mg/Kg			09/14/22 10:10	1		

Client Sample ID: BH03

Date Collected: 09/09/22 10:20

Lab Sample ID: 890-2910-5

Matrix: Solid

Date Collected: 09/09/22 10:20 Date Received: 09/09/22 09:22

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00198	U	0.00198	mg/Kg		09/19/22 15:06	09/21/22 11:17	
Toluene	<0.00198	U	0.00198	mg/Kg		09/19/22 15:06	09/21/22 11:17	
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		09/19/22 15:06	09/21/22 11:17	
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		09/19/22 15:06	09/21/22 11:17	
o-Xylene	<0.00198	U	0.00198	mg/Kg		09/19/22 15:06	09/21/22 11:17	
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		09/19/22 15:06	09/21/22 11:17	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	100		70 - 130			09/19/22 15:06	09/21/22 11:17	
1,4-Difluorobenzene (Surr)	117		70 - 130			09/19/22 15:06	09/21/22 11:17	
Method: Total BTEX - Total BTEX	(Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00397	U	0.00397	mg/Kg			09/21/22 15:17	
Analyte		Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fa
Total TPH			50.0	mg/Kg	— –	Prepared	09/14/22 08:52	DII Fa
Method: 8015B NM - Diesel Rang	•							
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/13/22 08:23	09/13/22 16:43	
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		09/13/22 08:23	09/13/22 16:43	
C10-C28)								
5 5 ,	<50.0	U	50.0	mg/Kg		09/13/22 08:23	09/13/22 16:43	
C10-C28)	<50.0		50.0	mg/Kg		09/13/22 08:23 Prepared	09/13/22 16:43 Analyzed	Dil Fa
C10-C28) OII Range Organics (Over C28-C36)				mg/Kg				
C10-C28) Oll Range Organics (Over C28-C36) Surrogate	%Recovery		Limits	mg/Kg		Prepared	Analyzed	
C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane		Qualifier	Limits 70 - 130	mg/Kg		Prepared 09/13/22 08:23	Analyzed 09/13/22 16:43	
C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	%Recovery 93 97 pmatography -	Qualifier	Limits 70 - 130	mg/Kg Unit	D	Prepared 09/13/22 08:23	Analyzed 09/13/22 16:43	

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Lab Sample ID: 890-2910-6

Client Sample Results

Client: Ensolum

Project/Site: Windward 2H

Job ID: 890-2910-1

SDG: Lea County NM

Client Sample ID: BH03

Date Collected: 09/09/22 10:30 Date Received: 09/09/22 09:22

Sample Depth: 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199	mg/Kg		09/19/22 15:06	09/21/22 11:37	
Toluene	<0.00199	U	0.00199	mg/Kg		09/19/22 15:06	09/21/22 11:37	
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		09/19/22 15:06	09/21/22 11:37	
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		09/19/22 15:06	09/21/22 11:37	
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/19/22 15:06	09/21/22 11:37	
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/19/22 15:06	09/21/22 11:37	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	85		70 - 130			09/19/22 15:06	09/21/22 11:37	
1,4-Difluorobenzene (Surr)	110		70 - 130			09/19/22 15:06	09/21/22 11:37	
Method: Total BTEX - Total BTEX	(Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00398	U	0.00398	mg/Kg			09/21/22 15:17	
Method: 8015 NM - Diesel Range Analyte	•	O) (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	- Kesuit <50.0		50.0	 		Frepareu	09/14/22 08:52	DII Fa
iotai iFii	\30.0	O	30.0	mg/Ng			09/14/22 00:32	
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/13/22 08:23	09/13/22 17:04	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/13/22 08:23	09/13/22 17:04	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/13/22 08:23	09/13/22 17:04	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	92		70 - 130			09/13/22 08:23	09/13/22 17:04	
o-Terphenyl	94		70 - 130			09/13/22 08:23	09/13/22 17:04	
Method: 300.0 - Anions, Ion Chro								
Analyte	Result	Qualifier	RL 4.98	Unit mg/Kg	D	Prepared	Analyzed	Dil Fa

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Surrogate Summary

Client: Ensolum

Project/Site: Windward 2H

Job ID: 890-2910-1

SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance L
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-19019-A-1-E MS	Matrix Spike	117	114	
880-19019-A-1-F MSD	Matrix Spike Duplicate	92	112	
890-2910-1	BH01	82	116	
890-2910-2	BH01	101	108	
890-2910-3	BH02	96	110	
890-2910-4	BH02	90	112	
890-2910-5	BH03	100	117	
890-2910-6	BH03	85	110	
LCS 880-34858/1-A	Lab Control Sample	91	102	
LCSD 880-34858/2-A	Lab Control Sample Dup	94	103	
MB 880-34692/5-A	Method Blank	102	116	
MB 880-34858/5-A	Method Blank	104	116	
Surrogate Legend				
BFB = 4-Bromofluorobe	nzene (Surr)			
DFBZ = 1,4-Difluoroben:	zene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
90-2910-1	BH01	98	102	
90-2910-2	BH01	100	102	
90-2910-3	BH02	102	106	
90-2910-4	BH02	93	98	
90-2910-5	BH03	93	97	
90-2910-6	BH03	92	94	
90-2914-A-1-D MS	Matrix Spike	91	87	
90-2914-A-1-E MSD	Matrix Spike Duplicate	95	91	
CS 880-34341/2-A	Lab Control Sample	74	84	
CSD 880-34341/3-A	Lab Control Sample Dup	79	88	
B 880-34341/1-A	Method Blank	102	114	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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Client: Ensolum Job ID: 890-2910-1 Project/Site: Windward 2H SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-34692/5-A

Lab Sample ID: MB 880-34858/5-A

Matrix: Solid

Analysis Batch: 34895

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 34692

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/16/22 16:15	09/20/22 17:37	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/16/22 16:15	09/20/22 17:37	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/16/22 16:15	09/20/22 17:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		09/16/22 16:15	09/20/22 17:37	1
o-Xylene	< 0.00200	U	0.00200	mg/Kg		09/16/22 16:15	09/20/22 17:37	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/16/22 16:15	09/20/22 17:37	1

MB MB

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	116		70 - 130

09/16/22 16:15 09/20/22 17:37 09/16/22 16:15 09/20/22 17:37

Analyzed

Prepared

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 34858

Analysis Batch: 34895 мв мв

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/19/22 15:06	09/21/22 05:13	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/19/22 15:06	09/21/22 05:13	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/19/22 15:06	09/21/22 05:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		09/19/22 15:06	09/21/22 05:13	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/19/22 15:06	09/21/22 05:13	1
Xylenes, Total	< 0.00400	U	0.00400	mg/Kg		09/19/22 15:06	09/21/22 05:13	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	09/19/22 15:06	09/21/22 05:13	1
1,4-Difluorobenzene (Surr)	116		70 - 130	09/19/22 15:06	09/21/22 05:13	1

Lab Sample ID: LCS 880-34858/1-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 34895

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 34858

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09802		mg/Kg	_	98	70 - 130	
Toluene	0.100	0.08583		mg/Kg		86	70 - 130	
Ethylbenzene	0.100	0.08534		mg/Kg		85	70 - 130	
m-Xylene & p-Xylene	0.200	0.1780		mg/Kg		89	70 - 130	
o-Xylene	0.100	0.08903		mg/Kg		89	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	91	70 - 130
1.4-Difluorobenzene (Surr)	102	70 - 130

Lab Sample ID: LCSD 880-34858/2-A

Matrix: Solid

Analysis Batch: 34895

Client Sample ID: Lab	Control Sample Dup
	Dren Trees Total/NA

Prep Type: Total/NA

Prep Batch: 34858

	Бріке	LCSD LCSD				%Rec		RPD	
Analyte	Added	Result Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.09393	mg/Kg		94	70 - 130	4	35	

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Dil Fac

Client: Ensolum

Job ID: 890-2910-1

Project/Site: Windward 2H

SDG: Lea County NM

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

Lab Sample ID: LCSD 880-34858/2-A

Client Sample ID: Lab Control Sample Dup
Matrix: Solid

Analysis Batch: 34895

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 34858

		Spike	LCSD	LCSD				%Rec		RPD
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene		0.100	0.08451		mg/Kg		85	70 - 130	2	35
Ethylbenzene		0.100	0.08316		mg/Kg		83	70 - 130	3	35
m-Xylene & p-Xy	rlene	0.200	0.1731		mg/Kg		87	70 - 130	3	35
o-Xylene		0.100	0.08797		mg/Kg		88	70 - 130	1	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 880-19019-A-1-E MS

Client Sample ID: Matrix Spike

Matrix: Solid Prep Type: Total/NA Analysis Batch: 34895 Prep Batch: 34858

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U F2 F1	0.0998	0.04876	F1	mg/Kg		49	70 - 130	
Toluene	<0.00201	U F2 F1	0.0998	0.04594	F1	mg/Kg		46	70 - 130	
Ethylbenzene	<0.00201	U F2 F1	0.0998	0.04536	F1	mg/Kg		45	70 - 130	
m-Xylene & p-Xylene	<0.00402	U F2 F1	0.200	0.09537	F1	mg/Kg		48	70 - 130	
o-Xylene	<0.00201	U F2 F1	0.0998	0.05511	F1	mg/Kg		55	70 - 130	

	IVI S IVI	3	
Surrogate	%Recovery Q	ualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	114		70 - 130

Lab Sample ID: 880-19019-A-1-F MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Prep Type: Total/NA
Analysis Batch: 34895 Prep Batch: 34858

•	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U F2 F1	0.0990	0.1026	F2	mg/Kg		104	70 - 130	71	35
Toluene	<0.00201	U F2 F1	0.0990	0.08240	F2	mg/Kg		83	70 - 130	57	35
Ethylbenzene	<0.00201	U F2 F1	0.0990	0.07768	F2	mg/Kg		78	70 - 130	53	35
m-Xylene & p-Xylene	<0.00402	U F2 F1	0.198	0.1614	F2	mg/Kg		82	70 - 130	51	35
o-Xylene	<0.00201	U F2 F1	0.0990	0.08266	F2	mg/Kg		83	70 - 130	40	35

ı		MSD	MISD	
	Surrogate	%Recovery	Qualifier	Limits
	4-Bromofluorobenzene (Surr)	92		70 - 130
	1,4-Difluorobenzene (Surr)	112		70 - 130

MSD MSD

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

Lab Sample ID: MB 880-34341/1-A

Matrix: Solid

Analysis Batch: 34338

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 34341

 Analyte
 Result
 Qualifier
 RL
 Unit
 D
 Prepared
 Analyzed
 Dil Factor

 Gasoline Range Organics
 <50.0</td>
 U
 50.0
 mg/Kg
 09/13/22 08:23
 09/13/22 09:38
 1

(GRO)-C6-C10

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Client: Ensolum

Project/Site: Windward 2H

Job ID: 890-2910-1

SDG: Lea County NM

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

Lab Sample ID: MB 880-34341/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA Prep Batch: 34341 Analysis Batch: 34338 MR MR

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/13/22 08:23	09/13/22 09:38	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/13/22 08:23	09/13/22 09:38	1
	МВ	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130			09/13/22 08:23	09/13/22 09:38	1
o-Terphenyl	114		70 - 130			09/13/22 08:23	09/13/22 09:38	1

Lab Sample ID: LCS 880-34341/2-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA Analysis Batch: 34338 Prep Batch: 34341 LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits

Gasoline Range Organics 1000 948.0 95 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 846.8 mg/Kg 85 70 - 130 C10-C28) LCS LCS

Qualifier Limits Surrogate %Recovery 1-Chlorooctane 70 - 130 74 o-Terphenyl 84 70 - 130

Lab Sample ID: LCSD 880-34341/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid**

Prep Type: Total/NA Analysis Batch: 34338 Prep Batch: 34341

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	893.7		mg/Kg		89	70 - 130	6	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	800.1		mg/Kg		80	70 - 130	6	20
C10-C28)									

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	79		70 - 130
o-Terphenyl	88		70 - 130

Lab Sample ID: 890-2914-A-1-D MS Client Sample ID: Matrix Spike

Matrix: Solid Prep Type: Total/NA Analysis Batch: 34338 Prep Batch: 34341

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.9	U	996	827.2		mg/Kg		80	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.9	U	996	738.7		mg/Kg		74	70 - 130	
C10 C28)										

C10-C28)			
	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	91		70 - 130
o-Terphenyl	87		70 - 130

Eurofins Carlsbad

Job ID: 890-2910-1

SDG: Lea County NM

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

Lab Sample ID: 890-2914-A-1-E MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid** Prep Type: Total/NA

Project/Site: Windward 2H

Client: Ensolum

Analysis Batch: 34338									Prep	Batch:	34341
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<49.9	U	999	867.5		mg/Kg		84	70 - 130	5	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<49.9	U	999	783.4		mg/Kg		78	70 - 130	6	20

C10-C28)

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	91		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-34104/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 34474

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			09/14/22 08:57	1

Lab Sample ID: LCS 880-34104/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 34474

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	238.3		mg/Kg		95	90 - 110	

Lab Sample ID: LCSD 880-34104/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 34474

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	238.8		mg/Kg		96	90 - 110	0	20	

Lab Sample ID: 890-2910-6 MS Client Sample ID: BH03 **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 34474

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	70.8		249	319.6		ma/Ka		100	90 110	

Lab Sample ID: 890-2910-6 MSD

Matrix: Solid

Analysis Batch: 34474

Alialysis Datcil. 37717												
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	70.8		249	319.0		mg/Kg		100	90 - 110	0	20	

Eurofins Carlsbad

Client Sample ID: BH03

Prep Type: Soluble

Client: Ensolum

Project/Site: Windward 2H

Job ID: 890-2910-1

SDG: Lea County NM

GC VOA

Prep Batch: 34692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-34692/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 34858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2910-1	BH01	Total/NA	Solid	5035	
890-2910-2	BH01	Total/NA	Solid	5035	
890-2910-3	BH02	Total/NA	Solid	5035	
890-2910-4	BH02	Total/NA	Solid	5035	
890-2910-5	BH03	Total/NA	Solid	5035	
890-2910-6	BH03	Total/NA	Solid	5035	
MB 880-34858/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-34858/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-34858/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-19019-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
880-19019-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 34895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2910-1	BH01	Total/NA	Solid	8021B	34858
890-2910-2	BH01	Total/NA	Solid	8021B	34858
890-2910-3	BH02	Total/NA	Solid	8021B	34858
890-2910-4	BH02	Total/NA	Solid	8021B	34858
890-2910-5	BH03	Total/NA	Solid	8021B	34858
890-2910-6	BH03	Total/NA	Solid	8021B	34858
MB 880-34692/5-A	Method Blank	Total/NA	Solid	8021B	34692
MB 880-34858/5-A	Method Blank	Total/NA	Solid	8021B	34858
LCS 880-34858/1-A	Lab Control Sample	Total/NA	Solid	8021B	34858
LCSD 880-34858/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	34858
880-19019-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	34858
880-19019-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	34858

Analysis Batch: 35087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2910-1	BH01	Total/NA	Solid	Total BTEX	· <u></u> -
890-2910-2	BH01	Total/NA	Solid	Total BTEX	
890-2910-3	BH02	Total/NA	Solid	Total BTEX	
890-2910-4	BH02	Total/NA	Solid	Total BTEX	
890-2910-5	BH03	Total/NA	Solid	Total BTEX	
890-2910-6	BH03	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 34338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2910-1	BH01	Total/NA	Solid	8015B NM	34341
890-2910-2	BH01	Total/NA	Solid	8015B NM	34341
890-2910-3	BH02	Total/NA	Solid	8015B NM	34341
890-2910-4	BH02	Total/NA	Solid	8015B NM	34341
890-2910-5	BH03	Total/NA	Solid	8015B NM	34341
890-2910-6	BH03	Total/NA	Solid	8015B NM	34341
MB 880-34341/1-A	Method Blank	Total/NA	Solid	8015B NM	34341

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Client: Ensolum

Project/Site: Windward 2H

SDG: Lea County NM

GC Semi VOA (Continued)

Analysis Batch: 34338 (Continued)

Lab Sample	e ID Client Sample ID		Prep Type	Matrix	Method	Prep Batch
LCS 880-34	4341/2-A Lab Control Sample		Total/NA	Solid	8015B NM	34341
LCSD 880-	34341/3-A Lab Control Sample	Dup	Total/NA	Solid	8015B NM	34341
890-2914-A	A-1-D MS Matrix Spike		Total/NA	Solid	8015B NM	34341
890-2914-A	A-1-E MSD Matrix Spike Duplic	ate	Total/NA	Solid	8015B NM	34341

Prep Batch: 34341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2910-1	BH01	Total/NA	Solid	8015NM Prep	
890-2910-2	BH01	Total/NA	Solid	8015NM Prep	
890-2910-3	BH02	Total/NA	Solid	8015NM Prep	
890-2910-4	BH02	Total/NA	Solid	8015NM Prep	
890-2910-5	BH03	Total/NA	Solid	8015NM Prep	
890-2910-6	BH03	Total/NA	Solid	8015NM Prep	
MB 880-34341/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-34341/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-34341/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2914-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2914-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 34447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2910-1	BH01	Total/NA	Solid	8015 NM	
890-2910-2	BH01	Total/NA	Solid	8015 NM	
890-2910-3	BH02	Total/NA	Solid	8015 NM	
890-2910-4	BH02	Total/NA	Solid	8015 NM	
890-2910-5	BH03	Total/NA	Solid	8015 NM	
890-2910-6	BH03	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 34104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2910-1	BH01	Soluble	Solid	DI Leach	
890-2910-2	BH01	Soluble	Solid	DI Leach	
890-2910-3	BH02	Soluble	Solid	DI Leach	
890-2910-4	BH02	Soluble	Solid	DI Leach	
890-2910-5	BH03	Soluble	Solid	DI Leach	
890-2910-6	BH03	Soluble	Solid	DI Leach	
MB 880-34104/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-34104/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-34104/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2910-6 MS	BH03	Soluble	Solid	DI Leach	
890-2910-6 MSD	BH03	Soluble	Solid	DI Leach	

Analysis Batch: 34474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2910-1	BH01	Soluble	Solid	300.0	34104
890-2910-2	BH01	Soluble	Solid	300.0	34104
890-2910-3	BH02	Soluble	Solid	300.0	34104
890-2910-4	BH02	Soluble	Solid	300.0	34104
890-2910-5	BH03	Soluble	Solid	300.0	34104

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Client: Ensolum
Project/Site: Windward 2H

Job ID: 890-2910-1
SDG: Lea County NM

HPLC/IC (Continued)

Analysis Batch: 34474 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2910-6	BH03	Soluble	Solid	300.0	34104
MB 880-34104/1-A	Method Blank	Soluble	Solid	300.0	34104
LCS 880-34104/2-A	Lab Control Sample	Soluble	Solid	300.0	34104
LCSD 880-34104/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	34104
890-2910-6 MS	BH03	Soluble	Solid	300.0	34104
890-2910-6 MSD	BH03	Soluble	Solid	300.0	34104

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Job ID: 890-2910-1 SDG: Lea County NM

Client: Ensolum Project/Site: Windward 2H **Client Sample ID: BH01**

Lab Sample ID: 890-2910-1

Date Collected: 09/09/22 10:00 Date Received: 09/09/22 09:22

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			4.99 g	5 mL	34858	09/19/22 15:06	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34895	09/21/22 08:25	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35087	09/21/22 15:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			34447	09/14/22 08:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	34341	09/13/22 08:23	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34338	09/13/22 15:20	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	34104	09/09/22 12:32	KS	EET MID
Soluble	Analysis	300.0		1			34474	09/14/22 09:56	CH	EET MID

Lab Sample ID: 890-2910-2

Client Sample ID: BH01 Date Collected: 09/09/22 10:05 Matrix: Solid

Date Received: 09/09/22 09:22

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 Total/NA 4.96 g 5 mL 34858 09/19/22 15:06 MR EET MID 8021B Total/NA 5 mL 09/21/22 08:45 **EET MID** Analysis 1 5 mL 34895 MR Total/NA Total BTEX 35087 09/21/22 15:17 SM EET MID Analysis 1 Total/NA Analysis 8015 NM 34447 09/14/22 08:52 SM **EET MID** Total/NA 34341 09/13/22 08:23 EET MID Prep 8015NM Prep 10.03 g 10 mL DM Total/NA Analysis 8015B NM 1 uL 1 uL 34338 09/13/22 15:41 SM **EET MID** Soluble 5.01 g 34104 09/09/22 12:32 KS Leach DI Leach 50 mL EET MID Soluble Analysis 300.0 34474 09/14/22 10:01 СН **EET MID**

Client Sample ID: BH02 Lab Sample ID: 890-2910-3

Date Collected: 09/09/22 10:10 **Matrix: Solid** Date Received: 09/09/22 09:22

	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	34858	09/19/22 15:06	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34895	09/21/22 10:36	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35087	09/21/22 15:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			34447	09/14/22 08:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34341	09/13/22 08:23	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34338	09/13/22 16:02	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	34104	09/09/22 12:32	KS	EET MID
Soluble	Analysis	300.0		1			34474	09/14/22 10:05	CH	EET MID

Client Sample ID: BH02 Lab Sample ID: 890-2910-4

Date Collected: 09/09/22 10:15 Matrix: Solid Date Received: 09/09/22 09:22

	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	34858	09/19/22 15:06	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34895	09/21/22 10:56	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35087	09/21/22 15:17	SM	EET MID

Eurofins Carlsbad

Job ID: 890-2910-1

Client: Ensolum Project/Site: Windward 2H SDG: Lea County NM

Client Sample ID: BH02 Lab Sample ID: 890-2910-4 Date Collected: 09/09/22 10:15 Matrix: Solid

Date Received: 09/09/22 09:22

	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			34447	09/14/22 08:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	34341	09/13/22 08:23	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34338	09/13/22 16:22	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	34104	09/09/22 12:32	KS	EET MID
Soluble	Analysis	300.0		1			34474	09/14/22 10:10	CH	EET MID

Client Sample ID: BH03 Lab Sample ID: 890-2910-5

Date Collected: 09/09/22 10:20 **Matrix: Solid**

Date Received: 09/09/22 09:22

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	34858	09/19/22 15:06	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34895	09/21/22 11:17	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35087	09/21/22 15:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			34447	09/14/22 08:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34341	09/13/22 08:23	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34338	09/13/22 16:43	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	34104	09/09/22 12:32	KS	EET MID
Soluble	Analysis	300.0		1			34474	09/14/22 10:15	CH	EET MID

Client Sample ID: BH03 Lab Sample ID: 890-2910-6

Date Collected: 09/09/22 10:30 Date Received: 09/09/22 09:22

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	34858	09/19/22 15:06	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34895	09/21/22 11:37	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35087	09/21/22 15:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			34447	09/14/22 08:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34341	09/13/22 08:23	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34338	09/13/22 17:04	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	34104	09/09/22 12:32	KS	EET MID
Soluble	Analysis	300.0		1			34474	09/14/22 10:20	CH	EET MID

Laboratory References:

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

Eurofins Carlsbad

Matrix: Solid

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Windward 2H

Job ID: 890-2910-1
SDG: Lea County NM

Laboratory: Eurofins Midland

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

Authority Texas		ogram	Identification Number	Expiration Date 06-30-23	
		ELAP	T104704400-22-24		
The following analytes	are included in this report by	it the laboratory is not cortifi	ed by the governing authority. This list ma	vinaluda analutaa fari	
the agency does not of		it the laboratory is not certili	ed by the governing admonty. This list his	ay iliciude allaiytes for t	
0 ,		Matrix	Analyte	ay include analytes for t	
the agency does not of	fer certification.	•	, , ,	ay include analytes for v	

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Method Summary

Client: Ensolum

Project/Site: Windward 2H

Job ID: 890-2910-1

SDG: Lea County NM

Protocol Laboratory

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

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Sample Summary

Client: Ensolum

Project/Site: Windward 2H

Job ID: 890-2910-1

SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2910-1	BH01	Solid	09/09/22 10:00	09/09/22 09:22	1
890-2910-2	BH01	Solid	09/09/22 10:05	09/09/22 09:22	2
890-2910-3	BH02	Solid	09/09/22 10:10	09/09/22 09:22	1
890-2910-4	BH02	Solid	09/09/22 10:15	09/09/22 09:22	2
890-2910-5	BH03	Solid	09/09/22 10:20	09/09/22 09:22	1
890-2910-6	BH03	Solid	09/09/22 10:30	09/09/22 09:22	2

Date/Time

Received by: (Signature)

Relinquished by: (Signature)

Pate/Time

Received by: (Signature)

Relinquished

2

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3

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7

10 11

12 13

14

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 (315) 585-3443, Lubbock, TX (806) 784-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Environment Testing

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Work Order No:

Company Name Embolim Address 3122 National Parks Hwy 3122 National Parks Hwy	Project Manager	loe Gable			Bill to: (if diff	(if different)	Joe Gable	و ا				Work Order Comments	Comments	
172 National Parks Hwy Address 3122 National Parks Hwy 3122 National		olum				ame:	Ensolun				Program: UST/PST	□ PRP □ Brow	nfields RRC	Superfund
Percentage Carteback NM 69220 Carteback Cartebac		2 National Parks	Hwy.		Address:		3122 Na	tional Park	s Hwy.		State of Project:			
1000-3000-3001-3001-3001-3001-3001-3001	te ZIP:	Isbad, NM 88220	0		City, State 2	:IP:	Carlsba	I, NM 8822	0		Reporting: Level II	Level III PS	T/UST TRRP	
The calculus of the calculus		-388-8073		Email:	jgable@er	solum.co	El				Deliverables: EDD	ADaP		
Cool: Cool Cool:	Project Name:	Windward	2H	Turr	Around r					ANALYSIS !	REQUEST		Preservat	ive Codes
Cool: Cool	Project Number:	03D2024	080	✓ Routine	□ Rush	Pres.							None: NO	DI Water: H ₂ O
Custody Seals:	Project Location:	Lea County	NN.	Due Date:		L							Cool: Cool	MeOH: Me
PLE RECEIPT Temp Blank: Ves No Wet tee: Ves No Wet tee: Ves No No. Thermoneter ID: I \ N \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Sampler's Name:	Liz Che	·	TAT starts th	e day received	1 by				_	_	_	HCL: HC	HNO3: HN
No Recent Company to Euroffins X	PO#:	N/A	(the lab, if rev	ceived by 4:30								H ₂ S0 ₄ : H ₂	NaOH: Na
Comp Cont	SAMPLE RECEIPT	Tomp Blank:	(sex)	-			(0.						H₃PO₄: HP	
Grab/ 1	Samples Received Intact:		1	ter ID:	NMOS		300						NaHSO4: NABIS	
Grab/ # of Comp Cont	Cooler Custody Seals:	Yes No		Factor:	6.7		:A9						Na ₂ S ₂ O ₃ : NaSO ₃	
Grab/ 1	Sample Custody Seals:	No	A Temperatu	re Reading:	1		3) S			890-2910 C	hain of Custody	N (100)	Zn Acetate+NaC	H: Zu
Grab/ # of Si Si Si Si Si Si Si S	Total Containers:		Corrected	Temperature:			-	_		_	-	-	NaOH+Ascorbic	Acid: SAPC
Comp Cont E E E E			Dete	Timo) 0	+		_						
Grab/ 1 x x x x x C Grab/ 1 x x x x x x C Grab/ 1 x x x x x x x C Grab/ 1 x x x x x x C Grab/ 1 x x x x x x C Grab/ 1 x x x x x x C Grab/ 1 x x x x x x C Grab/ 1 x x x x x x C Grab/ 1 x x x x x X X X X X X X X X X X X X X	Sample Identific			_	-	mp Cont	снг						Sample C	omments
Grab/ 1 x x x x x Carb Carb/ 1 x x x x x x x x x x x x x x x x x x	BH01	S	9/9/202			rab/ 1	×	-					INCIARNT NU	אסביר.
Grab/ 1 x x x x x Carb Carb Carb Carb Carb Carb Carb Carb	BH01	S	9/9/202				×	-					NAPP22723	しりない
Grab/ 1	ВНО2	S	9/9/2022			rab/ 1	×	-						
Grab/ 1 x x x x x x Carb Crab/ 1 x x x x x x x x x x x x x x x x x x	BH02	S	9/9/2022			rab/ 1	×	-						
Grab/ 1 x x x x x x x x x x x x x x x x x x	ВНОЗ	S	9/9/2022				×	-						
Texas 11 Al Sb As Ba Be Cd Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Tl O10: BRCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631/245.17 order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions	ВНОЗ	S	9/9/202				×	-						
Texas 11 Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Tl O10: BRCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631/245.17 Hg: 010 or other from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions														
Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Tl O10: BRCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631/245.17 and order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions									N. Committee of the com	A				
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010: BRCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1.1 er order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions	Total 200.7 / 6010	l II		1 11	Ш.	₹	Sb As	3a Be B	Cd Ca Cr	Co Cu Fe		Se Ag SiO ₂ N		V Zn
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	Circle Method(s) and N	fetal(s) to be and	alyzed	TCLP / §	3PLP 6010:	BRCRA	Sb As	Ba Be C	Cr Co	Su Pb Mn N	to Ni Se Ag TI U	Hg: 1631	245.1 / 7470 /	7471
	Notice: Signature of this docur	ment and relinquishm	ent of samples co	institutes a valid	purchase order	from client	company to	Eurofins Xe	nco, its affiliate	s and subcontrac	tors. It assigns standard terms	and conditions		

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-2910-1 SDG Number: Lea County NM

List Source: Eurofins Carlsbad

Login Number: 2910 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	

Released to Imaging: 1/17/2023 2:32:42 PM

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-2910-1

SDG Number: Lea County NM

Login Number: 2910 **List Source: Eurofins Midland** List Number: 2

List Creation: 09/12/22 09:08 AM

Creator: Rodriguez, Leticia

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

<6mm (1/4").



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2911-1

Laboratory Sample Delivery Group: Lea County NM

Client Project/Site: Windward 2H

For:

Ensolum 2351 W. Northwest Hwy **Suite 1203** Dallas, Texas 75220

Attn: Joe Gable

RAMER

Authorized for release by: 9/22/2022 4:43:07 PM

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: Windward 2H
Laboratory Job ID: 890-2911-1
SDG: Lea County NM

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Definitions/Glossary

Client: Ensolum

Job ID: 890-2911-1

Project/Site: Windward 2H

SDG: Lea County NM

2

Qualifiers

GC VOA

 Qualifier
 Qualifier Description

 F1
 MS and/or MSD recovery exceeds control limits.

 F2
 MS/MSD RPD exceeds control limits

S1+ Surrogate recovery exceeds control limits, high biased.

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

 Qualifier
 Qualifier Description

 U
 Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier Description

U Indicates the analyte was analyzed for but not detected.

Glossary

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

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

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

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

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

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

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 Con

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

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

NC Not Calculated

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

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RPD

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum Project/Site: Windward 2H Job ID: 890-2911-1

SDG: Lea County NM

Job ID: 890-2911-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2911-1

Receipt

The samples were received on 9/9/2022 9:22 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.2°C

Receipt Exceptions

The container label for the following samples did not match the information listed on the Chain-of-Custody (COC): FS01 (890-2911-1), FS02 (890-2911-2), FS03 (890-2911-3), FS04 (890-2911-4), FS05 (890-2911-5), FS06 (890-2911-6), FS07 (890-2911-7) and FS08 (890-2911-8). The container labels list <SAMPLE ID>, while the COC lists <SAMPLEID>. The client was contacted, and the lab was instructed to <EXPLANATION_REQUIRED>. samples were taken on 9-8-22 not 9-9-22

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-34943 and analytical batch 880-35129 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (890-2911-A-1-F MS). 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

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

HPLC/IC

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

Lab Sample ID: 890-2911-1

Client Sample Results

Client: Ensolum Job ID: 890-2911-1 Project/Site: Windward 2H SDG: Lea County NM

Client Sample ID: FS01

Date Collected: 09/08/22 12:45 Date Received: 09/09/22 09:22

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F2 F1	0.00200	mg/Kg		09/20/22 13:33	09/22/22 12:02	1
Toluene	<0.00200	U F2 F1	0.00200	mg/Kg		09/20/22 13:33	09/22/22 12:02	1
Ethylbenzene	<0.00200	U F2 F1	0.00200	mg/Kg		09/20/22 13:33	09/22/22 12:02	1
m-Xylene & p-Xylene	<0.00399	U F2 F1	0.00399	mg/Kg		09/20/22 13:33	09/22/22 12:02	1
o-Xylene	<0.00200	U F2 F1	0.00200	mg/Kg		09/20/22 13:33	09/22/22 12:02	1
Xylenes, Total	<0.00399	U F2 F1	0.00399	mg/Kg		09/20/22 13:33	09/22/22 12:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130			09/20/22 13:33	09/22/22 12:02	1
1,4-Difluorobenzene (Surr)	79		70 - 130			09/20/22 13:33	09/22/22 12:02	1
Method: Total BTEX - Total BTEX	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			09/22/22 13:52	1
Analyte Total TPH		Qualifier	RL	Unit	D	Prepared	Analyzed	
Total TPH	50.0							Diria
-	<50.0	U	50.0	mg/Kg			09/13/22 09:59	
: Method: 8015B NM - Diesel Ran			50.0	mg/Kg				
Method: 8015B NM - Diesel Ranç Analyte	ge Organics (D		50.0 RL	mg/Kg Unit	D	Prepared		1
Analyte Gasoline Range Organics	ge Organics (D	RO) (GC) Qualifier			D	Prepared 09/12/22 08:43	09/13/22 09:59	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (D	RO) (GC) Qualifier	RL	Unit	<u>D</u>		09/13/22 09:59 Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (D Result <50.0	RO) (GC) Qualifier U	RL 50.0	<mark>Unit</mark> mg/Kg mg/Kg	<u>D</u>	09/12/22 08:43 09/12/22 08:43	09/13/22 09:59 Analyzed 09/12/22 17:28 09/12/22 17:28	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (D Result <50.0	RO) (GC) Qualifier U	RL 50.0	<mark>Unit</mark> mg/Kg	<u>D</u>	09/12/22 08:43	09/13/22 09:59 Analyzed 09/12/22 17:28	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (D Result <50.0	RO) (GC) Qualifier U	RL 50.0	<mark>Unit</mark> mg/Kg mg/Kg	<u>D</u>	09/12/22 08:43 09/12/22 08:43 09/12/22 08:43 Prepared	09/13/22 09:59 Analyzed 09/12/22 17:28 09/12/22 17:28	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	ge Organics (D Result <50.0 <50.0	RO) (GC) Qualifier U	RL 50.0 50.0 50.0	<mark>Unit</mark> mg/Kg mg/Kg	<u>D</u>	09/12/22 08:43 09/12/22 08:43 09/12/22 08:43	09/13/22 09:59 Analyzed 09/12/22 17:28 09/12/22 17:28	Dil Face 1 Dil Face 1 Dil Face
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	ge Organics (D Result <50.0 <50.0 <50.0	RO) (GC) Qualifier U	FL 50.0 50.0 50.0 Limits	<mark>Unit</mark> mg/Kg mg/Kg	<u>D</u>	09/12/22 08:43 09/12/22 08:43 09/12/22 08:43 Prepared	09/13/22 09:59 Analyzed 09/12/22 17:28 09/12/22 17:28 09/12/22 17:28 Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	ge Organics (D Result <50.0 <50.0 <50.0 %Recovery 119 107 omatography -	RO) (GC) Qualifier U U Qualifier	RL 50.0 50.0 50.0 Limits 70 - 130	unit mg/Kg mg/Kg	<u>D</u>	09/12/22 08:43 09/12/22 08:43 09/12/22 08:43 Prepared 09/12/22 08:43	09/13/22 09:59 Analyzed 09/12/22 17:28 09/12/22 17:28 Analyzed 09/12/22 17:28	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	ge Organics (D Result <50.0 <50.0 <50.0 %Recovery 119 107 omatography -	RO) (GC) Qualifier U U Qualifier	RL 50.0 50.0 50.0 Limits 70 - 130	unit mg/Kg mg/Kg	<u>D</u>	09/12/22 08:43 09/12/22 08:43 09/12/22 08:43 Prepared 09/12/22 08:43	09/13/22 09:59 Analyzed 09/12/22 17:28 09/12/22 17:28 Analyzed 09/12/22 17:28	Dil Face Dil Face Dil Face Dil Face Dil Face Dil Face

Client Sample ID: FS02

Date Collected: 09/08/22 12:50 Date Received: 09/09/22 09:22

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/20/22 13:33	09/22/22 12:23	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/20/22 13:33	09/22/22 12:23	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/20/22 13:33	09/22/22 12:23	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		09/20/22 13:33	09/22/22 12:23	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/20/22 13:33	09/22/22 12:23	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/20/22 13:33	09/22/22 12:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			09/20/22 13:33	09/22/22 12:23	

Eurofins Carlsbad

Lab Sample ID: 890-2911-2

Matrix: Solid

Client: Ensolum Job ID: 890-2911-1 Project/Site: Windward 2H SDG: Lea County NM

Lab Sample ID: 890-2911-2

Client Sample ID: FS02

Date Collected: 09/08/22 12:50 Date Received: 09/09/22 09:22 Matrix: Solid

Sample Depth: 1

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

Surrogate	%Recovery Q	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	82		70 - 130	09/20/22 13:33	09/22/22 12:23	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			09/22/22 13:52	1

ı		
ı	Method: 8015 NM - Diesel Range Organics (DRO)	(CC)
ı	Method. 0013 NM - Diesel Kange Organics (DKO)	(00)

Analyte	•	•	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH			<49.8	U	49.8	mg/Kg			09/13/22 09:59	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/12/22 08:43	09/12/22 17:49	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/12/22 08:43	09/12/22 17:49	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/12/22 08:43	09/12/22 17:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	76Recovery Qualifier	LIIIIIIS	rrepareu	Allalyzeu	DII Fac
1-Chlorooctane	101	70 - 130	09/12/22 08:43	09/12/22 17:49	1
o-Terphenyl	94	70 - 130	09/12/22 08:43	09/12/22 17:49	1
_					

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.1		5.00	mg/Kg			09/14/22 10:39	1

Client Sample ID: FS03 Lab Sample ID: 890-2911-3 Matrix: Solid

Date Collected: 09/08/22 13:00 Date Received: 09/09/22 09:22

Sample Depth: 1

Method: 8021B -	. Volatila	Organic (Compounds	(GC)

wethod: 8021B - volatile Orga	nic Compounds ((GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		09/20/22 13:33	09/22/22 12:43	1
Toluene	<0.00198	U	0.00198	mg/Kg		09/20/22 13:33	09/22/22 12:43	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		09/20/22 13:33	09/22/22 12:43	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		09/20/22 13:33	09/22/22 12:43	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		09/20/22 13:33	09/22/22 12:43	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		09/20/22 13:33	09/22/22 12:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130			09/20/22 13:33	09/22/22 12:43	1
1,4-Difluorobenzene (Surr)	88		70 - 130			09/20/22 13:33	09/22/22 12:43	1

Mothod:	Total RT	Y - Total I	RTEY Ca	lculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00396	U	0.00396	ma/Ka			09/22/22 13:52	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/13/22 09:59	1

Lab Sample ID: 890-2911-3

Job ID: 890-2911-1

Client: Ensolum Project/Site: Windward 2H SDG: Lea County NM

Client Sample ID: FS03

Date Collected: 09/08/22 13:00 Date Received: 09/09/22 09:22

Sample Depth: 1

Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/12/22 08:43	09/12/22 18:11	,
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/12/22 08:43	09/12/22 18:11	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/12/22 08:43	09/12/22 18:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130			09/12/22 08:43	09/12/22 18:11	1
o-Terphenyl	92		70 - 130			09/12/22 08:43	09/12/22 18:11	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.74		4.99	mg/Kg			09/14/22 10:54	1

Client Sample ID: FS04 Lab Sample ID: 890-2911-4 Date Collected: 09/08/22 13:15 Matrix: Solid

Date Received: 09/09/22 09:22

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		09/20/22 13:33	09/22/22 13:04	1
Toluene	<0.00198	U	0.00198	mg/Kg		09/20/22 13:33	09/22/22 13:04	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		09/20/22 13:33	09/22/22 13:04	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		09/20/22 13:33	09/22/22 13:04	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		09/20/22 13:33	09/22/22 13:04	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		09/20/22 13:33	09/22/22 13:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130			09/20/22 13:33	09/22/22 13:04	1
1,4-Difluorobenzene (Surr)	112		70 - 130			09/20/22 13:33	09/22/22 13:04	1
Method: Total BTEX - Total BTEX	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			09/22/22 13:52	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			09/13/22 09:59	1
Method: 8015B NM - Diesel Rang	je Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/12/22 08:43	09/12/22 18:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/12/22 08:43	09/12/22 18:32	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/12/22 08:43	09/12/22 18:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130			09/12/22 08:43	09/12/22 18:32	1
o-Terphenyl	97		70 - 130			09/12/22 08:43	09/12/22 18:32	1

Matrix: Solid

Job ID: 890-2911-1 SDG: Lea County NM

Project/Site: Windward 2H **Client Sample ID: FS04**

Lab Sample ID: 890-2911-4 Date Collected: 09/08/22 13:15 Date Received: 09/09/22 09:22

Sample Depth: 1

Client: Ensolum

Method: 300.0 - Anions, Ion Chromatography - Soluble								
Analyte	Result (Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.5		4.96	mg/Kg			09/14/22 10:59	1

Client Sample ID: FS05 Lab Sample ID: 890-2911-5

Date Collected: 09/08/22 13:50 Date Received: 09/09/22 09:22

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199	mg/Kg		09/20/22 13:33	09/22/22 13:24	
Toluene	< 0.00199	U	0.00199	mg/Kg		09/20/22 13:33	09/22/22 13:24	
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		09/20/22 13:33	09/22/22 13:24	
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		09/20/22 13:33	09/22/22 13:24	
o-Xylene	< 0.00199	U	0.00199	mg/Kg		09/20/22 13:33	09/22/22 13:24	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/20/22 13:33	09/22/22 13:24	,
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	107		70 - 130			09/20/22 13:33	09/22/22 13:24	1
1,4-Difluorobenzene (Surr)	81		70 - 130			09/20/22 13:33	09/22/22 13:24	1
Method: Total BTEX - Total BTEX	(Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			09/22/22 13:52	1
Method: 8015 NM - Diesel Range Analyte	•	O) (GC) Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			09/13/22 09:59	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	49.8	mg/Kg		09/12/22 08:43	09/12/22 18:54	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/12/22 08:43	09/12/22 18:54	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/12/22 08:43	09/12/22 18:54	1
on range organies (over 625-666)								
,	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Surrogate		Qualifier	<u>Limits</u> 70 - 130			09/12/22 08:43	09/12/22 18:54	Dil Fac
Surrogate 1-Chlorooctane		Qualifier						
Surrogate 1-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Ion Chro	118 105		70 - 130			09/12/22 08:43	09/12/22 18:54	
Surrogate 1-Chlorooctane o-Terphenyl	118 105 omatography -		70 - 130	Unit	D	09/12/22 08:43	09/12/22 18:54	

Lab Sample ID: 890-2911-6

Client Sample Results

Client: Ensolum Job ID: 890-2911-1
Project/Site: Windward 2H SDG: Lea County NM

Client Sample ID: FS06

Date Collected: 09/08/22 14:00 Date Received: 09/09/22 09:22

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/20/22 13:33	09/22/22 13:45	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/20/22 13:33	09/22/22 13:45	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/20/22 13:33	09/22/22 13:45	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		09/20/22 13:33	09/22/22 13:45	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/20/22 13:33	09/22/22 13:45	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/20/22 13:33	09/22/22 13:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130			09/20/22 13:33	09/22/22 13:45	1
1,4-Difluorobenzene (Surr)	83		70 - 130			09/20/22 13:33	09/22/22 13:45	1
Method: Total BTEX - Total BTEX	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			09/22/22 13:52	1
Analyte Total TPH	Result	Qualifier		Unit mg/Kg	D	Prepared	Analyzed 09/13/22 09:59	Dil Fac
			00.0	mg/rtg			00/10/22 00:00	
Method: 8015B NM - Diesel Rang								
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/12/22 08:43	09/12/22 19:15	1
Diesel Range Organics (Over C10-C28)	141		50.0	mg/Kg		09/12/22 08:43	09/12/22 19:15	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/12/22 08:43	09/12/22 19:15	
								1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	
Surrogate 1-Chlorooctane		Qualifier	Limits 70 - 130			Prepared 09/12/22 08:43	Analyzed 09/12/22 19:15	Dil Fac
		Qualifier						Dil Fac
1-Chlorooctane o-Terphenyl	120 105 omatography -	Soluble	70 - 130			09/12/22 08:43	09/12/22 19:15	Dil Fac
1-Chlorooctane	120 105 omatography -		70 - 130		<u>D</u>	09/12/22 08:43	09/12/22 19:15	Dil Fac

Client Sample ID: FS07

Date Collected: 09/08/22 14:10 Date Received: 09/09/22 09:22

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/20/22 13:33	09/22/22 14:05	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/20/22 13:33	09/22/22 14:05	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/20/22 13:33	09/22/22 14:05	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		09/20/22 13:33	09/22/22 14:05	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/20/22 13:33	09/22/22 14:05	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/20/22 13:33	09/22/22 14:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			09/20/22 13:33	09/22/22 14:05	

Eurofins Carlsbad

Lab Sample ID: 890-2911-7

Matrix: Solid

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Job ID: 890-2911-1 SDG: Lea County NM

Project/Site: Windward 2H

Lab Sample ID: 890-2911-7 **Client Sample ID: FS07** Date Collected: 09/08/22 14:10 Matrix: Solid Date Received: 09/09/22 09:22

Sample Depth: 0.5

Client: Ensolum

Method: 8021B - Volatile Organic	Compounds	(GC)	(Continued)
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Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	86	70 - 130	09/20/22 13:33	09/22/22 14:05	1

l		
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			09/22/22 13:52	1

Mothod: 8015 NM - Diocal Range	Organics (DRO) (GC)

Analyte	Result Qu	ualifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	931	49.9	mg/Kg			09/13/22 09:59	1

Method: 8015B	NM Discol	Dange Ore	aaniee (DD()) (CC)
MICHIOU. OU 13D	INIVI - DIESEI	Rallue Oli	ualiics (DRC	JI (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/12/22 08:43	09/12/22 19:37	1
Diesel Range Organics (Over C10-C28)	931		49.9	mg/Kg		09/12/22 08:43	09/12/22 19:37	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/12/22 08:43	09/12/22 19:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surroyate	/₀Recovery	Qualifier	LIIIIII
1-Chlorooctane	120		70 - 130
o-Terphenyl	105		70 - 130

Mothod: 200.0	Anione lan Chromotography	Calubla			
o-Terphenyl	103	5 70 - 130	09/12/22 08:43	09/12/22 19:37	1
r-Chlorooclane	120	0 70 - 130	09/12/22 00.43	09/12/22 19.37	ı

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.8	4.97	mg/Kg		_	09/14/22 11:13	1

Client Sample ID: FS08 Lab Sample ID: 890-2911-8 Matrix: Solid

Date Collected: 09/08/22 14:20 Date Received: 09/09/22 09:22

Sample Depth: 0.5

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

wethou: 8021B - volatile Orga	inic Compounds ((GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/20/22 13:33	09/22/22 16:30	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/20/22 13:33	09/22/22 16:30	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/20/22 13:33	09/22/22 16:30	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		09/20/22 13:33	09/22/22 16:30	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/20/22 13:33	09/22/22 16:30	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/20/22 13:33	09/22/22 16:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130			09/20/22 13:33	09/22/22 16:30	1
1,4-Difluorobenzene (Surr)	93		70 - 130			09/20/22 13:33	09/22/22 16:30	1

Mothod:	Total RTFX	- Total RTFX	Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00399	U	0.00399	ma/Ka			09/22/22 13:52	1

Method: 8015 NM - Diesel	Range Organics	(DRO)	(GC)	١
Mictilioa. 00 10 Min - Diesei	Range Organics	(Divo)	(\mathbf{c})	ı.

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	148	50.0	mg/Kg			09/13/22 09:59	1

Lab Sample ID: 890-2911-8

Client Sample Results

Client: Ensolum

Project/Site: Windward 2H

SDG: Lea County NM

Client Sample ID: FS08

Date Collected: 09/08/22 14:20 Date Received: 09/09/22 09:22

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/12/22 08:43	09/12/22 19:58	1
Diesel Range Organics (Over C10-C28)	148		50.0	mg/Kg		09/12/22 08:43	09/12/22 19:58	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/12/22 08:43	09/12/22 19:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130			09/12/22 08:43	09/12/22 19:58	1
o-Terphenyl	92		70 - 130			09/12/22 08:43	09/12/22 19:58	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

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Surrogate Summary

Client: Ensolum Job ID: 890-2911-1 Project/Site: Windward 2H SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-2911-1	FS01	98	79
890-2911-1 MS	FS01	134 S1+	102
890-2911-1 MSD	FS01	112	74
890-2911-2	FS02	110	82
890-2911-3	FS03	115	88
890-2911-4	FS04	123	112
890-2911-5	FS05	107	81
890-2911-6	FS06	113	83
890-2911-7	FS07	111	86
890-2911-8	FS08	112	93
LCS 880-34943/1-A	Lab Control Sample	115	107
LCSD 880-34943/2-A	Lab Control Sample Dup	115	109
MB 880-34943/5-A	Method Blank	101	85

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2904-A-1-E MS	Matrix Spike	111	93	
890-2904-A-1-F MSD	Matrix Spike Duplicate	114	95	
890-2911-1	FS01	119	107	
890-2911-2	FS02	101	94	
890-2911-3	FS03	102	92	
890-2911-4	FS04	109	97	
890-2911-5	FS05	118	105	
890-2911-6	FS06	120	105	
890-2911-7	FS07	120	105	
890-2911-8	FS08	106	92	
LCS 880-34180/2-A	Lab Control Sample	117	117	
LCSD 880-34180/3-A	Lab Control Sample Dup	119	121	
MB 880-34180/1-A	Method Blank	106	105	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum Job ID: 890-2911-1 Project/Site: Windward 2H SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-34943/5-A

Matrix: Solid

Analysis Batch: 35129

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 34943

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/20/22 13:33	09/22/22 11:41	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/20/22 13:33	09/22/22 11:41	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/20/22 13:33	09/22/22 11:41	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		09/20/22 13:33	09/22/22 11:41	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/20/22 13:33	09/22/22 11:41	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/20/22 13:33	09/22/22 11:41	1

MB MB

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	0	09/20/22 13:33	09/22/22 11:41	1
1,4-Difluorobenzene (Surr)	85		70 - 130	O	09/20/22 13:33	09/22/22 11:41	1

Lab Sample ID: LCS 880-34943/1-A

Matrix: Solid

Analysis Batch: 35129

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 34943

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1008		mg/Kg		101	70 - 130	
Toluene	0.100	0.09064		mg/Kg		91	70 - 130	
Ethylbenzene	0.100	0.09612		mg/Kg		96	70 - 130	
m-Xylene & p-Xylene	0.200	0.1960		mg/Kg		98	70 - 130	
o-Xylene	0.100	0.1139		mg/Kg		114	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	115	70 - 130
1,4-Difluorobenzene (Surr)	107	70 - 130

Lab Sample ID: LCSD 880-34943/2-A

Matrix: Solid

Analysis Batch: 35129

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 34943

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Limit 0.09785 Benzene 0.100 mg/Kg 98 70 - 130 3 35 Toluene 0.100 0.08600 mg/Kg 86 70 - 130 5 35 Ethylbenzene 0.100 0.09015 mg/Kg 90 70 - 130 6 35 0.200 0.1817 91 m-Xylene & p-Xylene mg/Kg 70 - 130 35 0.100 0.1054 105 70 - 130 o-Xylene mg/Kg 35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1.4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: 890-2911-1 MS

Matrix: Solid

Analysis Batch: 35129

Client Sample ID: FS01 Prep Type: Total/NA

Prep Batch: 34943

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U F2 F1	0.0998	0.05776	F1	mg/Kg		58	70 - 130	
Toluene	<0.00200	U F2 F1	0.0998	0.05516	F1	mg/Kg		55	70 - 130	

QC Sample Results

Job ID: 890-2911-1 Client: Ensolum Project/Site: Windward 2H SDG: Lea County NM

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

Lab Sample ID: 890-2911-1 MS **Matrix: Solid**

Analysis Batch: 35129

Client Sample ID: FS01 Prep Type: Total/NA

Prep Batch: 34943

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits D Ethylbenzene <0.00200 U F2 F1 0.0998 0.06394 F1 64 70 - 130 mg/Kg m-Xylene & p-Xylene <0.00399 U F2 F1 0.200 0.1274 F1 mg/Kg 64 70 - 130 0.0998 o-Xylene <0.00200 U F2 F1 0.07919 79 70 - 130 mg/Kg

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 890-2911-1 MSD

Matrix: Solid

Analysis Batch: 35129

Client Sample ID: FS01 Prep Type: Total/NA

Prep Batch: 34943 RPD

Sample Sample Spike MSD MSD Result Qualifier Added %Rec RPD Limit Analyte Result Qualifier Unit Limits 0.100 Benzene <0.00200 U F2 F1 0.02841 F2 F1 mg/Kg 28 70 - 130 68 35 37 Toluene <0.00200 U F2 F1 0.100 0.03755 F2 F1 mg/Kg 70 - 130 38 35 Ethylbenzene <0.00200 U F2 F1 0.100 0.04302 F2 F1 43 70 - 130 39 35 mg/Kg 0.201 m-Xylene & p-Xylene <0.00399 U F2 F1 0.07806 F2 F1 mq/Kq 39 70 - 130 48 35 <0.00200 U F2 F1 0.100 0.05038 F2 F1 50 70 - 130 o-Xylene mg/Kg 44

MSD MSD

Surrogate	%F	Recovery	Qualifier	Limits
4-Bromofluorobenzene	(Surr)	112		70 - 130
1,4-Difluorobenzene (Si	urr)	74		70 - 130

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

Lab Sample ID: MB 880-34180/1-A

Matrix: Solid

Analysis Batch: 34169

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

Prep Batch: 34180

мв мв Result Qualifier RL Unit D Prepared Analyzed Dil Fac Analyte Gasoline Range Organics 50.0 09/12/22 08:43 09/12/22 10:56 <50.0 U mg/Kg (GRO)-C6-C10 50.0 09/12/22 08:43 09/12/22 10:56 Diesel Range Organics (Over <50.0 U mg/Kg C10-C28) OII Range Organics (Over C28-C36) <50.0 U 50.0 09/12/22 08:43 09/12/22 10:56 mg/Kg

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	09/12/22 08:43	09/12/22 10:56	1
o-Terphenyl	105		70 - 130	09/12/22 08:43	09/12/22 10:56	1

Lab Sample ID: LCS 880-34180/2-A

Matrix: Solid

Analysis Batch: 34169

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

Prep Batch: 34180

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics	1000	902.7		mg/Kg		90	70 - 130
(GRO)-C6-C10							
Diesel Range Organics (Over	1000	1104		mg/Kg		110	70 - 130
C10-C28)							

Limits

70 - 130

70 - 130

Job ID: 890-2911-1

SDG: Lea County NM

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

LCS LCS %Recovery Qualifier

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Lab Sample ID: LCS 880-34180/2-A

Matrix: Solid

Surrogate

o-Terphenyl

1-Chlorooctane

Client: Ensolum

Analysis Batch: 34169

Project/Site: Windward 2H

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 34180

Lab Sample ID: LCSD 880-34180/3-A

Matrix: Solid

Analysis Batch: 34169

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 34180

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 1000 819.5 82 70 - 13010 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1035 mg/Kg 103 70 - 1306 20 C10-C28)

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	119		70 - 130
o-Terphenyl	121		70 - 130

Lab Sample ID: 890-2904-A-1-E MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 34169

Prep Type: Total/NA

Prep Batch: 34180

Sample Sample Spike MS MS Added Analyte Result Qualifier Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.9 U 997 815.3 mg/Kg 82 70 - 130 (GRO)-C6-C10 70 - 130 Diesel Range Organics (Over 111 997 838.4 mg/Kg 73

C10-C28)

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	111		70 - 130
o-Terphenyl	93		70 - 130

Lab Sample ID: 890-2904-A-1-F MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid**

Analysis Batch: 34169

Prep Type: Total/NA

Prep Batch: 34180

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	850.4		mg/Kg		85	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	111		999	875.8		mg/Kg		77	70 - 130	4	20

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	114		70 - 130
o-Terphenyl	95		70 - 130

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

QC Sample Results

Client: Ensolum Job ID: 890-2911-1 Project/Site: Windward 2H SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-34104/1-A

Matrix: Solid

Analysis Batch: 34474

мв мв

Dil Fac Analyte Result Qualifier RL Unit D Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 09/14/22 08:57

Lab Sample ID: LCS 880-34104/2-A

Matrix: Solid

Analysis Batch: 34474

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 238.3 mg/Kg 95 90 - 110

Lab Sample ID: LCSD 880-34104/3-A

Matrix: Solid

Analysis Batch: 34474

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 238.8 mg/Kg 90 - 110

Lab Sample ID: 890-2910-A-6-B MS

Matrix: Solid

Analysis Batch: 34474

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added Qualifier %Rec Result Unit Limits Chloride 70.8 249 319.6 100 90 - 110 mg/Kg

Lab Sample ID: 890-2910-A-6-C MSD

Matrix: Solid

Analysis Batch: 34474

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 249 70.8 319.0 mg/Kg 100 90 - 110 0 20

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9/22/2022

QC Association Summary

Client: Ensolum

Project/Site: Windward 2H

SDG: Lea County NM

GC VOA

Prep Batch: 34943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2911-1	FS01	Total/NA	Solid	5035	
890-2911-2	FS02	Total/NA	Solid	5035	
890-2911-3	FS03	Total/NA	Solid	5035	
890-2911-4	FS04	Total/NA	Solid	5035	
890-2911-5	FS05	Total/NA	Solid	5035	
890-2911-6	FS06	Total/NA	Solid	5035	
890-2911-7	FS07	Total/NA	Solid	5035	
890-2911-8	FS08	Total/NA	Solid	5035	
MB 880-34943/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-34943/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-34943/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2911-1 MS	FS01	Total/NA	Solid	5035	
890-2911-1 MSD	FS01	Total/NA	Solid	5035	

Analysis Batch: 35129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2911-1	FS01	Total/NA	Solid	8021B	34943
890-2911-2	FS02	Total/NA	Solid	8021B	34943
890-2911-3	FS03	Total/NA	Solid	8021B	34943
890-2911-4	FS04	Total/NA	Solid	8021B	34943
890-2911-5	FS05	Total/NA	Solid	8021B	34943
890-2911-6	FS06	Total/NA	Solid	8021B	34943
890-2911-7	FS07	Total/NA	Solid	8021B	34943
890-2911-8	FS08	Total/NA	Solid	8021B	34943
MB 880-34943/5-A	Method Blank	Total/NA	Solid	8021B	34943
LCS 880-34943/1-A	Lab Control Sample	Total/NA	Solid	8021B	34943
LCSD 880-34943/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	34943
890-2911-1 MS	FS01	Total/NA	Solid	8021B	34943
890-2911-1 MSD	FS01	Total/NA	Solid	8021B	34943

Analysis Batch: 35182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2911-1	FS01	Total/NA	Solid	Total BTEX	
890-2911-2	FS02	Total/NA	Solid	Total BTEX	
890-2911-3	FS03	Total/NA	Solid	Total BTEX	
890-2911-4	FS04	Total/NA	Solid	Total BTEX	
890-2911-5	FS05	Total/NA	Solid	Total BTEX	
890-2911-6	FS06	Total/NA	Solid	Total BTEX	
890-2911-7	FS07	Total/NA	Solid	Total BTEX	
890-2911-8	FS08	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 34169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2911-1	FS01	Total/NA	Solid	8015B NM	34180
890-2911-2	FS02	Total/NA	Solid	8015B NM	34180
890-2911-3	FS03	Total/NA	Solid	8015B NM	34180
890-2911-4	FS04	Total/NA	Solid	8015B NM	34180
890-2911-5	FS05	Total/NA	Solid	8015B NM	34180
890-2911-6	FS06	Total/NA	Solid	8015B NM	34180

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QC Association Summary

Client: Ensolum Job ID: 890-2911-1 Project/Site: Windward 2H SDG: Lea County NM

GC Semi VOA (Continued)

Analysis Batch: 34169 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2911-7	FS07	Total/NA	Solid	8015B NM	34180
890-2911-8	FS08	Total/NA	Solid	8015B NM	34180
MB 880-34180/1-A	Method Blank	Total/NA	Solid	8015B NM	34180
LCS 880-34180/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	34180
LCSD 880-34180/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	34180
890-2904-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	34180
890-2904-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	34180

Prep Batch: 34180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2911-1	FS01	Total/NA	Solid	8015NM Prep	
890-2911-2	FS02	Total/NA	Solid	8015NM Prep	
890-2911-3	FS03	Total/NA	Solid	8015NM Prep	
890-2911-4	FS04	Total/NA	Solid	8015NM Prep	
890-2911-5	FS05	Total/NA	Solid	8015NM Prep	
890-2911-6	FS06	Total/NA	Solid	8015NM Prep	
890-2911-7	FS07	Total/NA	Solid	8015NM Prep	
890-2911-8	FS08	Total/NA	Solid	8015NM Prep	
MB 880-34180/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-34180/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-34180/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2904-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2904-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 34367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-2911-1	FS01	Total/NA	Solid	8015 NM	
890-2911-2	FS02	Total/NA	Solid	8015 NM	
890-2911-3	FS03	Total/NA	Solid	8015 NM	
890-2911-4	FS04	Total/NA	Solid	8015 NM	
890-2911-5	FS05	Total/NA	Solid	8015 NM	
890-2911-6	FS06	Total/NA	Solid	8015 NM	
890-2911-7	FS07	Total/NA	Solid	8015 NM	
890-2911-8	FS08	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 34104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2911-1	FS01	Soluble	Solid	DI Leach	
890-2911-2	FS02	Soluble	Solid	DI Leach	
890-2911-3	FS03	Soluble	Solid	DI Leach	
890-2911-4	FS04	Soluble	Solid	DI Leach	
890-2911-5	FS05	Soluble	Solid	DI Leach	
890-2911-6	FS06	Soluble	Solid	DI Leach	
890-2911-7	FS07	Soluble	Solid	DI Leach	
890-2911-8	FS08	Soluble	Solid	DI Leach	
MB 880-34104/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-34104/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-34104/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2910-A-6-B MS	Matrix Spike	Soluble	Solid	DI Leach	

QC Association Summary

Client: Ensolum Job ID: 890-2911-1 Project/Site: Windward 2H SDG: Lea County NM

HPLC/IC (Continued)

Leach Batch: 34104 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2910-A-6-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 34474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2911-1	FS01	Soluble	Solid	300.0	34104
890-2911-2	FS02	Soluble	Solid	300.0	34104
890-2911-3	FS03	Soluble	Solid	300.0	34104
890-2911-4	FS04	Soluble	Solid	300.0	34104
890-2911-5	FS05	Soluble	Solid	300.0	34104
890-2911-6	FS06	Soluble	Solid	300.0	34104
890-2911-7	FS07	Soluble	Solid	300.0	34104
890-2911-8	FS08	Soluble	Solid	300.0	34104
MB 880-34104/1-A	Method Blank	Soluble	Solid	300.0	34104
LCS 880-34104/2-A	Lab Control Sample	Soluble	Solid	300.0	34104
LCSD 880-34104/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	34104
890-2910-A-6-B MS	Matrix Spike	Soluble	Solid	300.0	34104
890-2910-A-6-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	34104

Project/Site: Windward 2H

Client: Ensolum

Date Collected: 09/08/22 12:45

Matrix: Solid

Date Received: 09/09/22 09:22

	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	34943	09/20/22 13:33	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35129	09/22/22 12:02	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35182	09/22/22 13:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			34367	09/13/22 09:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34180	09/12/22 08:43	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34169	09/12/22 17:28	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	34104	09/09/22 12:32	KS	EET MID
Soluble	Analysis	300.0		1			34474	09/14/22 10:34	CH	EET MID

Client Sample ID: FS02 Lab Sample ID: 890-2911-2 Matrix: Solid

Date Collected: 09/08/22 12:50 Date Received: 09/09/22 09:22

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	34943	09/20/22 13:33	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35129	09/22/22 12:23	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35182	09/22/22 13:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			34367	09/13/22 09:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	34180	09/12/22 08:43	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34169	09/12/22 17:49	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	34104	09/09/22 12:32	KS	EET MIC
Soluble	Analysis	300.0		1			34474	09/14/22 10:39	CH	EET MIC

Client Sample ID: FS03 Lab Sample ID: 890-2911-3

Date Collected: 09/08/22 13:00 **Matrix: Solid** Date Received: 09/09/22 09:22

	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	34943	09/20/22 13:33	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35129	09/22/22 12:43	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35182	09/22/22 13:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			34367	09/13/22 09:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34180	09/12/22 08:43	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34169	09/12/22 18:11	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	34104	09/09/22 12:32	KS	EET MID
Soluble	Analysis	300.0		1			34474	09/14/22 10:54	CH	EET MID

Client Sample ID: FS04 Lab Sample ID: 890-2911-4

Date Collected: 09/08/22 13:15 **Matrix: Solid** Date Received: 09/09/22 09:22

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	34943	09/20/22 13:33	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35129	09/22/22 13:04	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35182	09/22/22 13:52	SM	EET MID

Client: Ensolum Job ID: 890-2911-1 Project/Site: Windward 2H SDG: Lea County NM

Client Sample ID: FS04 Lab Sample ID: 890-2911-4 Date Collected: 09/08/22 13:15

Matrix: Solid

Date Received: 09/09/22 09:22

	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			34367	09/13/22 09:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	34180	09/12/22 08:43	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34169	09/12/22 18:32	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	34104	09/09/22 12:32	KS	EET MID
Soluble	Analysis	300.0		1			34474	09/14/22 10:59	CH	EET MID

Client Sample ID: FS05 Lab Sample ID: 890-2911-5

Date Collected: 09/08/22 13:50 **Matrix: Solid**

Date Received: 09/09/22 09:22

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	34943	09/20/22 13:33	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35129	09/22/22 13:24	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35182	09/22/22 13:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			34367	09/13/22 09:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	34180	09/12/22 08:43	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34169	09/12/22 18:54	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	34104	09/09/22 12:32	KS	EET MID
Soluble	Analysis	300.0		1			34474	09/14/22 11:04	CH	EET MID

Client Sample ID: FS06 Lab Sample ID: 890-2911-6

Date Collected: 09/08/22 14:00 Date Received: 09/09/22 09:22

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	34943	09/20/22 13:33	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35129	09/22/22 13:45	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35182	09/22/22 13:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			34367	09/13/22 09:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	34180	09/12/22 08:43	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34169	09/12/22 19:15	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	34104	09/09/22 12:32	KS	EET MID
Soluble	Analysis	300.0		1			34474	09/14/22 11:08	CH	EET MID

Client Sample ID: FS07 Lab Sample ID: 890-2911-7

Date Collected: 09/08/22 14:10 Date Received: 09/09/22 09:22

_	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	34943	09/20/22 13:33	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35129	09/22/22 14:05	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35182	09/22/22 13:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			34367	09/13/22 09:59	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.03 g 1 uL	10 mL 1 uL	34180 34169	09/12/22 08:43 09/12/22 19:37	AM SM	EET MID EET MID

Eurofins Carlsbad

Matrix: Solid

Matrix: Solid

Lab Chronicle

Client: Ensolum Job ID: 890-2911-1 Project/Site: Windward 2H SDG: Lea County NM

Client Sample ID: FS07

Date Collected: 09/08/22 14:10 Date Received: 09/09/22 09:22

Lab Sample ID: 890-2911-7

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	34104	09/09/22 12:32	KS	EET MID
Soluble	Analysis	300.0		1			34474	09/14/22 11:13	CH	EET MID

Client Sample ID: FS08 Lab Sample ID: 890-2911-8

Date Collected: 09/08/22 14:20 Date Received: 09/09/22 09:22 **Matrix: Solid**

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	34943	09/20/22 13:33	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35129	09/22/22 16:30	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35182	09/22/22 13:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			34367	09/13/22 09:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34180	09/12/22 08:43	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34169	09/12/22 19:58	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	34104	09/09/22 12:32	KS	EET MID
Soluble	Analysis	300.0		1			34474	09/14/22 11:18	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: Windward 2H

Job ID: 890-2911-1
SDG: Lea County NM

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	NI	ELAP	T104704400-22-24	06-30-23
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the agency does not of	. ,	ut the laboratory is not certili	ed by the governing authority. This list ma	ay include analytes for
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Method Summary

Client: Ensolum

Project/Site: Windward 2H

SDG: Lea County NM

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

Eurofins Carlsbad

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4.0

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Sample Summary

Client: Ensolum

Project/Site: Windward 2H

Job ID: 890-2911-1

SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2911-1	FS01	Solid	09/08/22 12:45	09/09/22 09:22	1
890-2911-2	FS02	Solid	09/08/22 12:50	09/09/22 09:22	1
890-2911-3	FS03	Solid	09/08/22 13:00	09/09/22 09:22	1
890-2911-4	FS04	Solid	09/08/22 13:15	09/09/22 09:22	1
890-2911-5	FS05	Solid	09/08/22 13:50	09/09/22 09:22	1
890-2911-6	FS06	Solid	09/08/22 14:00	09/09/22 09:22	0.5
890-2911-7	FS07	Solid	09/08/22 14:10	09/09/22 09:22	0.5
890-2911-8	FS08	Solid	09/08/22 14:20	09/09/22 09:22	0.5

Chain of Custody

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

Environment Testing

eurofins

Work Order No:

Seals: Yes No Matrix Sale Sampled Sampled	Droing Manager	loe Gable			Bill to: (if dif	(if different)	Joe	Joe Gable					Work Order (Work Order Comments		
122 National Parks Hwy, Address, State of Project: State of Project: State of Project: Carisbad, MM 86220 Carisbad, MM 86	T	olum			Company	Jame:	Ensi	mnlc				Program: UST/PS	T PRP Br	ownfields RR	Dunhedus 🗆	_
Name:		2 National Parks F	lwy.		Address:		312	Nation	al Parks F	wy.		State of Project:			[
1		sbad, NM 88220			City, State	ZIP:	Carl	sbad, N	M 88220			Reporting: Level II	☐ Level III ☐	PST/UST TRF		-
Number: Ci3D2024060 Ci Routine Nustrice Number: Ci3D2024060 Ci Routine Ci Routin		-386-8073		Email:	jgable@e	nsolum.	Som					Deliverables: EDI			er:	-
The continuation of the	Project Name:	Windward 2h	-	Turn	Around						ANALYSIS	REQUEST		Presen	rative Codes	
Lea County, NM	Project Number:	03D202408	0	✓ Routine	□ Rush	r S	*; •							None: NO	DI Water: H ₂ O	
Foreign Figure	Project Location:	Lea County, P		Due Date:	5 Day T.	ΑT								Cool: Cool	MeOH: Me	
PLE RECEIPT Tapp Blank: (Yes) No Wet Les: Yes No Thermometer ID: Location Factor: Location	Sampler's Name:	Liz Cheli		TAT starts the	e day receive	d by								HCL: HC	HNO3: HN	
Tempo Blank: free No Wet Ice: Les No Thermometer ID: Les No Thermometer ID: Les No Thermometer ID: Les No Wet Ice: Les	PO #:	N/A		the lab, if rec	eived by 4:3	_					_	-	~ -	H ₂ S04: H ₂	NaOH: Na	
Ves No Thermometer ID:	SAMPLE RECEIPT	Temp Blank:		Wet Ice:										H₃PO4: HP		
Yes No WM Correction Factor: Location Locatio	Samples Received Intact:	on (se)	Thermomete	r ID:	NWO	П								NaHSO4: NAI	SIS	
Yes No (MA) Temperature Reading: 1, 2, 3 25 25 25 25 25 25 25	Cooler Custody Seals:		Correction Fa	actor:	,		-			_				Na ₂ S ₂ O ₃ : Na ⁵	, SO	
Corrected Temperature: 1 - 2 BB 50 B	Sample Custody Seals:	S.	Temperature	Reading	1,1		3) S							Zn Acetate+N	aOH: Zn	
Matrix Date Time Depth Grab/ # of Comp Cont Cont	Total Containers:)	Corrected Te	emperature:		1	3di	(910	208	1	890-2911 CT	and of Custody		NaOH+Ascor	bic Acid: SAPC	
S 9/9/2022 1246 1' Comp 1 x x x x x x x x x x x x x x x x x x	Sample Identifica			Time		srab/#()8) H 9 T) хэтв					Sample	Comments	
S 9/9/2022 1250 1' Comp 1 x x x x x x x x x x x x x x x x x x	FS01	S	9/9/2022	1245		omp 1	×	×	×					Incident ID:		
S 9/9/2022 1300 1' Comp 1 x x x x x x x x x x x x x x x x x x	FS02	S	9/9/2022			- 1	-	×	×					NAPP22223	47897	
S 9/9/2022 1350 1' Comp 1 x x x S 9/9/2022 1350 1' Comp 1 x x x x S 9/9/2022 1400 0.5' Comp 1 x x x x S 9/9/2022 1410 0.5' Comp 1 x x x x S 9/9/2022 1420 0.5' Comp 1 x x x x x S 9/9/2022 1420 0.5' Comp 1 x x x x x x x x x x x x x x x x x x	FS03	S	9/9/2022	1300	٦,	omp 1	×	×	×							
S 9/9/2022 1350 1' Comp 1 x x x S 9/9/2022 1400 0.5' Comp 1 x x x S 9/9/2022 1410 0.5' Comp 1 x x x x S 9/9/2022 1410 0.5' Comp 1 x x x x S 9/9/2022 1420 0.5' Comp 1 x x x x x x x S 9/9/2022 1420 0.5' Comp 1 x x x x x x x x x x x x x x x x x x	FS04	S	9/9/2022	1315		omp 1	×	×	×							
S 9/9/2022 1410 0.5' Comp 1 x x x s 9/9/2022 1410 0.5' Comp 1 x x x x s 9/9/2022 1420 0.5' Comp 1 x x x x x x x x x x x x x x x x x x	FS05	S	9/9/2022	1350	1.	omp 1	×	×	×							
S 9/9/2022 1420 0.5' Comp 1 x x x S 9/9/2022 1420 0.5' Comp 1 x x x	FS06	S	9/9/2022			omp 1	×	×	×							
S 9/9/2022 1420 0.5' Comp 1 x x	FS07	S	9/9/2022			0mb	×	×	×							
	FS08	S	9/9/2022			omp 1	×	×	×							
						1	A									
					1/4	7										
	Circle Method(s) and Metal(s) to be analyzed	letal(s) to be analy		TCLP / SPLP 60		. BRCR	A Sb	As Ba	Be Cd	Cr Co	Su Pb Mn I	RA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U Hg: 1631/245.1/	Hg: 163	Hg: 1631 / 245.1 / 7470 / 7471	/7471	

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 services and shall not account to any responsibility for any control services of \$50 on will be enforced unless previously negotiated. Eurofins Xenco, Aminimum charge of \$55.00 will be enforced unless previously negotiated. votice: 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 Relinquished by: (Signature) Date/Time

Date/Time Received by: (Signature) σ 6.6 Received by: (Signature) Relinquished by: (Signature)

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2911-1

SDG Number: Lea County NM

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Login Number: 2911

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	

Euronnis Carisbau

Released to Imaging: 1/17/2023 2:32:42 PM

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Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-2911-1 SDG Number: Lea County NM

List Source: Eurofins Midland

Login Number: 2911 List Number: 2

List Creation: 09/12/22 09:08 AM

Creator: Rodriguez, Leticia

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

<6mm (1/4").



APPENDIX E

NMOCD Notifications

From: <u>Nobui, Jennifer, EMNRD</u>

To: <u>Kalei Jennings</u>

Cc: Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD; Harimon, Jocelyn, EMNRD

Subject: FW: [EXTERNAL] COP- Sampling Notification (Week of 09/19/22-09/23/22)

Date: Tuesday, September 20, 2022 10:26:49 AM

Attachments: <u>image001.png</u>

image002.png image003.png image004.png

[**EXTERNAL EMAIL**]

Kalei

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

Thanks,

Jennifer Nobui

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

Sent: Tuesday, September 20, 2022 8:02 AM

To: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>

Subject: Fw: [EXTERNAL] COP- Sampling Notification (Week of 09/19/22-09/23/22)

From: Kalei Jennings < kjennings@ensolum.com > Sent: Monday, September 19, 2022 8:28 PM

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

Subject: [EXTERNAL] COP- Sampling Notification (Week of 09/19/22-09/23/22)

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

All,

COP plans to complete final sampling activities at the following sites the week of September 19, 2022.

Tuesday (9/20/2022)

- Federal 9 Com/ NAPP2218848721
- Windward 4H Flowline/NAPP2218850477
- Windward 2H CTB Flare Fire/NAPP2222347897

Wednesday (9/21/2022)

- -Federal 9 Com/ NAPP2218848721
- Windward 4H Flowline/NAPP2218850477
- Windward 2H CTB Flare Fire/NAPP2222347897

Thursday (9/22/2022)

• Corvo Federal 4/ NAPP2217430297

Thank you,



Kalei Jennings Senior Scientist 817-683-2503 Ensolum, LLC



APPENDIX F

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

Responsible Party

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	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

OGRID

Contact Name				Contact Telephone				
Contact emai	il				Incident #	(assigned by OCD)		
Contact mailing address					I			
			Location	of R	Release So	ource		
Latitude			(NAD 83 in de	ecimal de	Longitude _ grees to 5 decim	nal places)		
Site Name					Site Type			
Date Release	Discovered				API# (if app	licable)		
Unit Letter	Section	Township	Range		Coun	ty		
Crude Oil	Material	Federal Tr	Nature and	d Vo	lume of I			ow)
Produced	Water	Volume Release	d (bbls)			Volume Recov	vered (bbls)	
		produced water		chloride	e in the	Yes No		
Condensa		Volume Release				Volume Recovered (bbls)		
Natural G		Volume Release				Volume Recovered (Mcf)		
Other (describe) Volume/Weight Released (provide units) Volume/Weight Recovered (provide units)					vide units)			
Cause of Rele	ease							

Received by OCD: 12/20/2022 12:51:54 PM Form C-141 State of New Mexico Page 2 Oil Conservation Division

	Page 110 of 22	29
Incident ID		
District RP		
Facility ID		

			Application ID	
Was this a major	If YES, for what reason(s) does the re	esnonsible party consider	this a major release?	
release as defined by 19.15.29.7(A) NMAC?	if 125, for what reason(s) does the re	sponsiole party consider	tins a major release.	
☐ Yes ☐ No				
If YES, was immediate no	otice given to the OCD? By whom? To	o whom? When and by v	what means (phone, er	nail, etc)?
		_		
	Initial	Response		
The responsible	party must undertake the following actions immed	diately unless they could create	a safety hazard that would	result in injury
The source of the rele	ease has been stopped.			
_	s been secured to protect human health	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 re	ecoverable materials have been removed	d and managed appropria	itely.	
If all the actions described	d above have <u>not</u> been undertaken, expl	ain why:		
D 10 15 20 9 D (4) NIM	IAC 41		4-1	S1 If1:-4:
has begun, please attach	IAC the responsible party may commen a narrative of actions to date. If remed at area (see 19.15.29.11(A)(5)(a) NMA	dial efforts have been such	ccessfully completed	or if the release occurred
regulations all operators are public health or the environr failed to adequately investig	rmation given above is true and complete to required to report and/or file certain release ment. The acceptance of a C-141 report by attemption at and remediate contamination that pose a f a C-141 report does not relieve the operator	e notifications and perform c the OCD does not relieve the threat to groundwater, surf	corrective actions for rele ne operator of liability sho ace water, human health	eases which may endanger ould their operations have or the environment. In
Printed Name	_	Title:		
Signature:	dan Boparne	Date:		
email:		Telephone:		
OCD Only				
Received by:		Date•		

Spill Calculation - On Pad Surface Pool Spill

Estimated

Average

Depth

(ft.)

0.002

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

	240 opin volume Estimate i
Received by OCD: 12/20/2022 Valle SANGAber.	WINDWARD 2H CTB
Asset Area:	DREN

of "shore" in each

area

No. of boundaries Estimated Pool

Area

(sq. ft.)

1600.000

0.000

0.000

0.000

0.000

0.000

0.000

0.000

0.000

0.000

Release Discovery Date & Time: 7/30/2022 9:45AM

Width

(ft.)

20.0

Length

(ft.)

80.0

Refeased to Imaging: 1/17/2023 2:32:42 PM

Convert Irregular shape

into a series of

rectangles

Rectangle A

Rectangle B

Rectangle C

Rectangle D

Rectangle E

Rectangle F

Rectangle G

Rectangle H

Rectangle I

Release Type: Oil

Provide any known details about the event; FLARE FIRE FROM PRODUCTION K.O. DUMP LINE PLUGGED.

each of the

areas

(in.)

0.10

Deepest point in

0.593 #DIV/0! #DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

Estimated volume

of each pool area

(bbl.)

0.000 #DIV/0! #DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

Total Volume Release:

Penetration

allowance

(ft.)

0.593 #DIV/0! #DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

0.593

Total Estimated

Volume of Spill

(bbl.)

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te of New Mexico

Incident ID	nAPP2235445306
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.	
 Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well Field data □ Data table of soil contaminant concentration data □ Depth to water determination □ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release □ Boring or excavation logs □ Photographs including date and GIS information □ Topographic/Aerial maps □ Laboratory data including chain of custody 	ls.
\mathbf{t}	

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

Received by OCD: 12/20/2022 12:51:54 PM Form C-141 State of New Mexico Page 4 Oil Conservation Division

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Incident ID	nAPP2235445306
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the be regulations all operators are required to report and/or file certain release notify public health or the environment. The acceptance of a C-141 report by the Ordinal failed to adequately investigate and remediate contamination that pose a three addition, OCD acceptance of a C-141 report does not relieve the operator of reand/or regulations.	ications and perform corrective actions for releases which may endanger CD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In
Printed Name:Charles Beauvais	Title: _Senior Environmental Engineer
Signature: Charles R. Beauvais 99	Date:12/20/2022
email: _Charles.R.Beauvais@conocophillips.com	Telephone:575-988-2043
OCD Only	
Received by:Jocelyn Harimon	Date:12/20/2022

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Incident ID	nAPP2235445306
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.

Closure Report Attachment Checklist: Each of the following items mu	st be included in the closure report.
	С
Photographs of the remediated site prior to backfill or photos of the limust be notified 2 days prior to liner inspection)	iner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODC Distric	et office must be notified 2 days prior to final sampling)
□ Description of remediation activities	
I hereby certify that the information given above is true and complete to the and regulations all operators are required to report and/or file certain release may endanger public health or the environment. The acceptance of a C-141 should their operations have failed to adequately investigate and remediate human health or the environment. In addition, OCD acceptance of a C-141 compliance with any other federal, state, or local laws and/or regulations. To restore, reclaim, and re-vegetate the impacted surface area to the conditions accordance with 19.15.29.13 NMAC including notification to the OCD when Printed Name:Charles Beauvais Title	e notifications and perform corrective actions for releases which report by the OCD does not relieve the operator of liability contamination that pose a threat to groundwater, surface water, report does not relieve the operator of responsibility for The responsible party acknowledges they must substantially that existed prior to the release or their final land use in
	12/20/2022
	ephone:575-988-2043
OCD Only	
Received by:	Date: 12/20/2022
Closure approval by the OCD does not relieve the responsible party of liabil remediate contamination that poses a threat to groundwater, surface water, he party of compliance with any other federal, state, or local laws and/or regular	uman health, or the environment nor does not relieve the responsible
Closure Approved by:	_ Date:
Printed Name:	Title:



December 20, 2022

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

Windward Federal CTB

Incident Number NAPP2235445306

Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of COG Operating, LLC (COG), has prepared this *Closure Request* to document site assessment and soil sampling activities performed at the Windward Federal CTB (Site). The purpose of the site assessment and soil sampling activities was to address impacts to soil resulting from a crude oil flare fire at the Site. Based on field observations, field screening activities, and laboratory analytical results from the soil sampling events, COG is submitting this *Closure Request*, describing remediation that has occurred and requesting closure for Incident Number NAPP2235445306.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit D, Section 30, Township 24 South, Range 32 East, in Lea County, New Mexico (32.195278° N, 103.718056° W) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On July 30, 2022, a plug in the knockout water meter resulted in fluid being sent to the flare and resulted in a fire on pad. The released volume was estimated to be approximately 0.593 barrels (bbls) of crude oil. The released crude oil ignited and extinguished itself after reaching the ground. COG reported the release immediately to the New Mexico Oil Conservation Division (NMOCD) via email on August 1, 2022 and submitted a Release Notification Form C-141 (Form C-141) on August 11, 2022. The release was assigned Incident Number NAPP2235445306.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. On September 15, 2022, borehole BH01 (New Mexico Office of the State Engineer (NMOSE) file number C-4665) was advanced to a depth of 120 feet bgs via air rotary drill rig. The borehole was located approximately 0.31 miles east of the Site and is depicted on Figure 1. A field geologist logged and described soils continuously. The borehole lithologic/soil sampling log is included in Appendix A. The borehole was left open for over 72 hours to allow for potential slow

Windward Federal CTB Closure Request COG Operating, LLC



infill of groundwater. After the 72-hour waiting period, groundwater was not observed and it was confirmed groundwater beneath the Site is greater than 120 feet bgs. The borehole was properly abandoned using hydrated bentonite chips. All wells used for depth to groundwater determination are depicted on Figure 1 and the associated well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is an freshwater pond, located approximately 5,596 feet southeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

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

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

SITE ASSESSMENT ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On August 11, 2022, Ensolum personnel visited the Site to evaluate the release extent and conduct Site assessment activities. Ensolum personnel collected seven soil samples (SS01 through SS07), collected at a depth of 0.5 feet bgs around and within the release extent, to assess the lateral extent of the release. The preliminary soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. The release extent and soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported at or below 4 degrees Celsius (°C) under strict chain-of-custody procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of the following chemical of concerns (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH- GRO, TPH- DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Laboratory analytical results for preliminary soil samples SS02 and SS03, collected within the release extent, indicated all COC concentrations are compliant with the Site Closure Criteria. Laboratory analytical results for preliminary soil samples SS04 through SS07, collected around the release extent, indicated all COC concentrations were compliant with the Site Closure Criteria and most stringent Table I Closure Criteria and successfully defined the lateral extent of the release. Laboratory analytical results for preliminary soil samples SS01 indicated TPH concentrations exceeded the Site Closure Criteria. Based on visible staining in the release area and laboratory analytical results for preliminary soil sample SS01, delineation and excavation activities were warranted.

Windward Federal CTB Closure Request COG Operating, LLC



DELINEATION AND EXCAVATION SOIL SAMPLING ACTIVITIES

On September 9, 2022, Ensolum personnel were at the Site to oversee delineation and excavation activities based on visible staining in the release area and laboratory analytical results for preliminary soil sample SS01. Boreholes BH01 through BH03 were advanced via backhoe within the release extent to assess the vertical extent. The boreholes were advanced to a depth of 2 feet bgs. Delineation soil samples were collected from each borehole at depths of 1-foot and 2 feet bgs. Soil from the boreholes was field screened for VOCs and chloride. Field screening results and observations for the boreholes were logged on lithologic soil sampling logs, which are included in Appendix B. The delineation soil sample locations are depicted on Figure 3.

Upon completion of delineation activities, stained soil was excavated from the release area as indicated by visible staining and laboratory analytical results for preliminary soil sample SS01. Excavation activities were performed using track-mounted backhoe and transport vehicles. The excavation occurred on pad. To direct excavation activities, soil was screened for VOCs and chloride. The excavation was completed to a depth of 1-foot bgs. Photographic documentation of the excavation activities is included in Appendix C.

Following removal of the stained soil, 5-point composite soil samples were collected every 200 square feet from the floor of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Due to the shallow depth of the excavation, the sidewalls were incorporated into the floor samples. Composite soil samples FS01 through FS08 were collected from the floor of the excavation at depths ranging from 0.5 feet to 1-foot bgs. The soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 4.

The excavation area measured approximately 1,600 square feet. A total of 54 cubic yards of impacted soil were removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Facility in Hobbs, New Mexico.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for the delineation soil samples collected from boreholes BH01 and BH03 indicated all COC concentrations were compliant with the Site Closure Criteria.

Laboratory analytical results for excavation floor samples FS01 through FS08 indicated all COC concentrations were compliant with the Site Closure Criteria. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included as Appendix D.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the July 30, 2022, crude oil flare fire. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated all COCs were compliant with the Site Closure Criteria. Based on the soil sample analytical results, no further remediation was required. COG will backfill the excavation with material purchased locally and recontour the Site to match pre-existing site conditions.

Excavation of stained soil has mitigated impacts at this Site. Depth to groundwater has been determined to be greater than 100 feet bgs and no other sensitive receptors were identified near the release extent. COG believes these remedial actions are protective of human health, the environment, and groundwater. As such, COG respectfully requests closure for Incident Number NAPP2235445306.



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

Sincerely, **Ensolum, LLC**

Kalei Jennings

Senior Project Manager

Daniel R. Moir, PG

Senior Managing Geologist

Bureau of Land Management

Appendices:

cc:

Figure 1 Site Receptor Map Figure 2 Soil Sample Locations

Charles Beauvais, COG Operating, LLC

Figure 3
Figure 4
Table 1
Appendix A
Appendix B

Delineation Soil Sample Locations
Excavation Soil Sample Locations
Soil Sample Analytical Results
Referenced Well Records
Lithologic/Soil Sampling Log

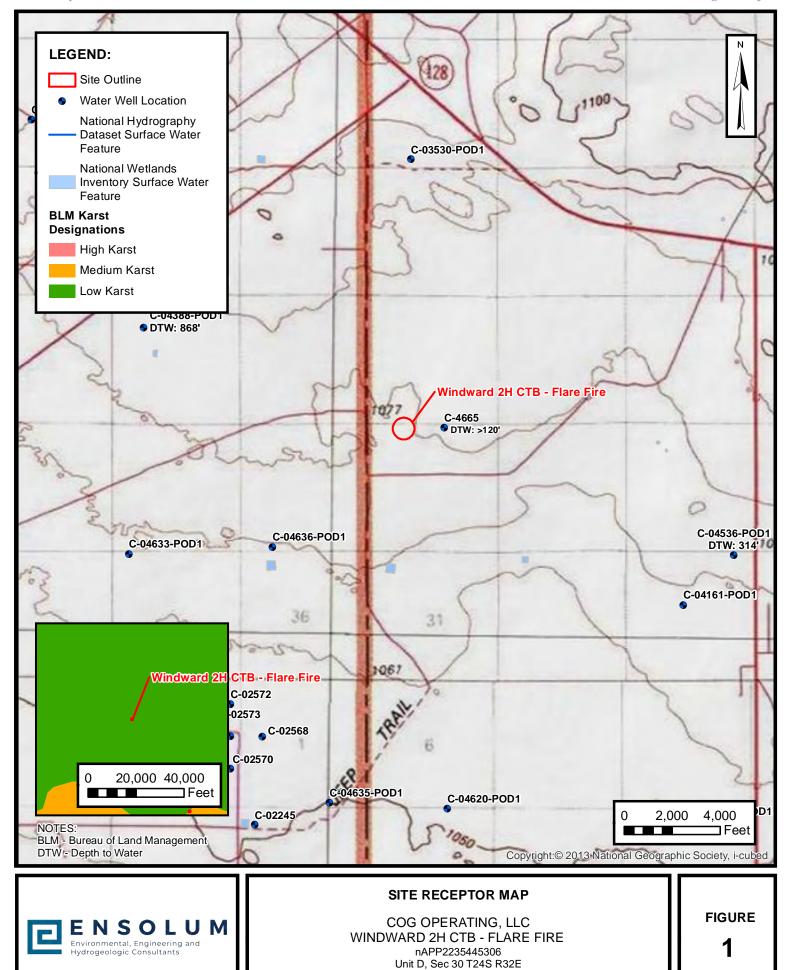
Appendix C Photographic Log

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

Appendix E Final C-141

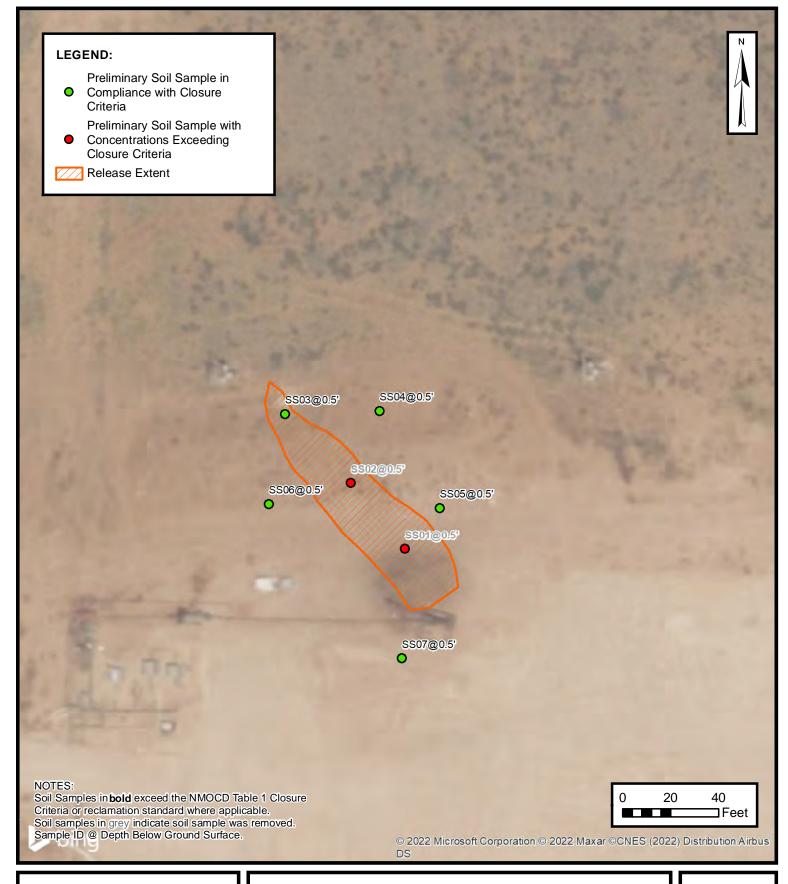


FIGURES



Lea County, New Mexico

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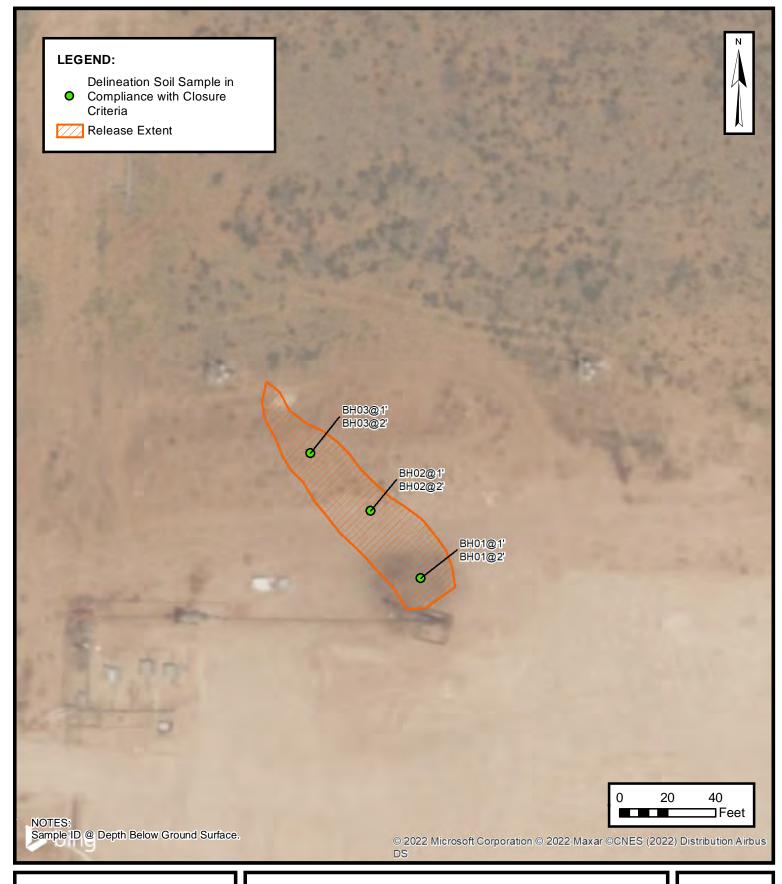




PRELIMINARY SOIL SAMPLE LOCATIONS

COG OPERATING, LLC WINDWARD 2H CTB - FLARE FIRE nAPP2235445306 Unit D, Sec 30 T24S R32E Lea County, New Mexico FIGURE

2

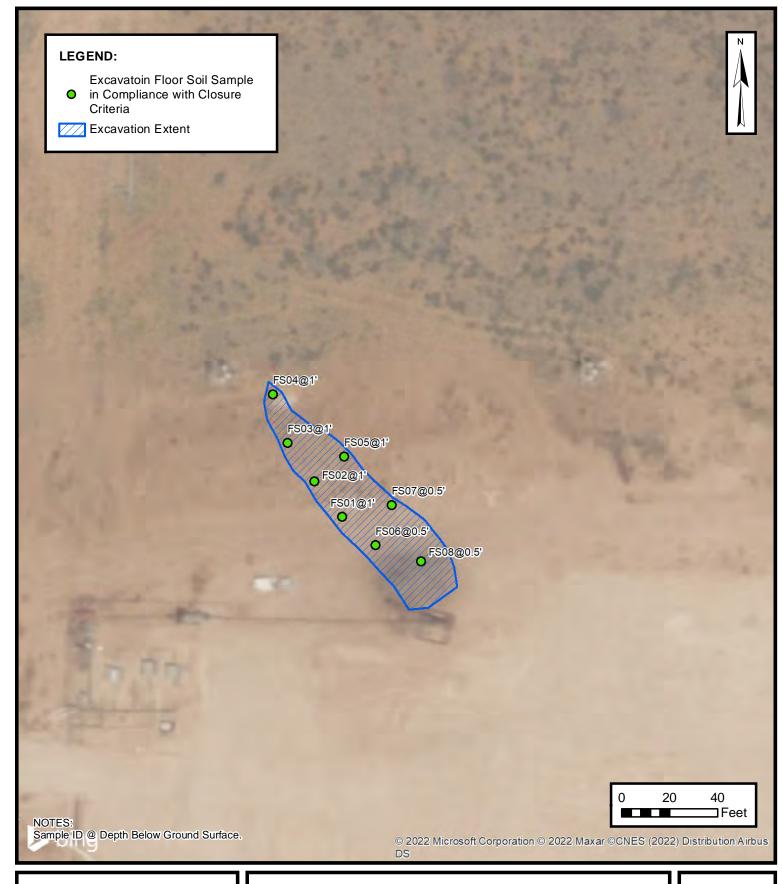




DELINEATION SOIL SAMPLE LOCATIONS

COG OPERATING, LLC WINDWARD 2H CTB - FLARE FIRE nAPP2235445306 Unit D, Sec 30 T24S R32E Lea County, New Mexico **FIGURE**

3





EXCAVATION SOIL SAMPLE LOCATIONS

COG OPERATING, LLC WINDWARD 2H CTB - FLARE FIRE nAPP2235445306 Unit D, Sec 30 T24S R32E Lea County, New Mexico **FIGURE**

4



TABLES

Received by OCD: 12/20/2022 12:51:54 PM



TABLE 1 **SOIL SAMPLE ANALYTICAL RESULTS** Windward 2H Flare Fire **ConocoPhillips Company** Lea County, New Mexico

Sample I.D.	Sample Date	Sample Depth	Benzene (mg/kg)	Total BTEX	TPH GRO	TPH DRO	TPH ORO	GRO+DRO	Total TPH	Chloride
	Date	(feet bgs)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
NMOCD Table 1 C	Closure Criteria ((NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
				Preliminar	y Assessment S	oil Samples				
SS01	08/11/2022	0.5	< 0.00200	< 0.00401	<50.0	2,010	874	2,010	2,880	23.0
SS02	08/11/2022	0.5	< 0.00200	< 0.00401	<49.9	1,060	706	1,060	1,770	211
SS03	08/11/2022	0.5	< 0.00202	< 0.00404	<50.0	65.2	78.3	65.2	144	53.9
SS04	08/11/2022	0.5	<0.00200	<0.00399	<49.9	<49.9	55.8	<49.9	55.8	29.1
SS05	08/11/2022	0.5	<0.00199	<0.00398	<50.0	<50.0	98.3	<50.0	98.3	206
SS06	08/11/2022	0.5	<0.00200	<0.00401	<49.9	<49.9	56.9	<49.9	56.9	32.6
SS07	08/11/2022	0.5	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	66.1
				Deli	neation Soil San	nples				
BH01	09/09/2022	1	< 0.00200	< 0.00401	<49.8	138	<49.8	138	138	9.13
БПОТ	09/09/2022	2	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	24.7
BH02	09/09/2022	1	<0.00200	< 0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	27.9
DI 102	09/09/2022	2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	25.3
BH03	09/09/2022	1	<0.00198	< 0.00397	<50.0	<50.0	<50.0	<50.0	<50.0	52.7
DI 103	09/09/2022	2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	70.8
				Conf	irmation Soil Sa	mples				
FS01	09/09/2022	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	12.8
FS02	09/09/2022	1	< 0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	10.1
FS03	09/09/2022	1	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	8.74
FS04	09/09/2022	1	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	17.5
FS05	09/09/2022	1	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	60.5
FS06	09/09/2022	0.5	<0.00200	<0.00401	<50.0	141	<50.0	141	141	33.1
FS07	09/09/2022	0.5	<0.00201	<0.00402	<49.9	931	<49.9	931	931	17.8
FS08	09/09/2022	0.5	<0.00200	< 0.00399	<50.0	148	<50.0	148	148	21.3

Notes:

bgs: below ground surface mg/kg: milligrams per kilogram NMOCD: New Mexico Oil Conservation Division BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes Concentrations in bold exceed the NMOCD Table 1 Closure Criteria or reclamation standard where applicable.

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

TPH: Total Petroleum Hydrocarbon

Sample results that have been greyed out have been excavated.

Ensolum



APPENDIX A

Referenced Well Records

ENSOLUM Proj Proj Proj Proj					Project Project Project	Name: KING TUT FEDERAL CORH Location: LEA COUNTY, NM Manager: KALEL TENNINGS	Pro	BORING LOG NUMBER BHO1 Project No. Ø3D2Ø24Ø32 Borchole Diameter: (ø"		
RV	ADUE	SOUTH	ERLAN EN EN	<u>ID.</u>	Top of C North Co West Co Bench M At C	casing Elevation: coordinate: ordinate: fark Elevation: Completion	Casing Diag Well Mater Surface Con	meter.		
SAMPLE INTERVAL	SAMPLE	RECOVERY (%)	FID/PID READING (ppm)	POTENTIO- METRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION		BORING / WELL COMPLETION (GRAPHIC DEPICTION)		
						pg. 1 of 2				
						SILTY SAND, pinken red, fine grain 1-2 cm limestone clasts, we sorted, moderate grade, sie	in, sell ghtly			
					sm	SAA, reddish brown, trace li clasts (1-2 cm).	imestone			
					2M	SAA, abundant subrounded m clasts up to 1",	nud			
					sm	901: SAA, some green mud cir (1-3 mm), slightly conso	asts Nidated.			
	SAMPLE INTERVAL	SAMPLE SA	SAMPLE COVERY ALL SOUTH HADIE CHECOVERY (%)	SAMPLE SAMPLE NTERVAL SAMPLE	SAMPLE SAMPLE BASING (ppm) RECOVERY (%) READING (ppm) READING (ppm) REPROOFE READING (ppm) REPROOFE READING (ppm) REPROOFE READING (ppm) REPROOFE READING (ppm)	ENSOLUM Project Projec	Project Manager: EMALEI JENNINGS India	Project Name: LEING, TUT FEDERAL COSH Project Location: LEA COUNTY, MM Project Location: LEING LOCATION LEADING L		

	EI	N S	O L	. U	M	Client Project Project Project	t: CONOCO PHILLIPS Name: KING TUT FEDERAL COSH Location: LEA COUNTY, N M Manager: KALEI JENNINGS		BHOI ject No. \$302\$24\$62
Date Samp Drilled by: Driller: Logged by Sampler:	oled: _C L H H	21/15 WTWI XSEU XSEU BOLIE BOLIE	Jada South GREE GREE	a Ierlan En En	ID.	Top of of North C West C Bench I	Surface Elevation:	Well Materi Surface Con	ameter: 6" neter: 2 als: 2 npletion: 7 nod: AIR ROTARY
D EPTH (ft)	SAMPLE INTERV AL	SAMPLE	RECOVERY (%)	FID/PID READING (ppm)	POTENTIO- METRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION		BORING / WELL COMPLETION (GRAPHIC DEPICTION)
							pg. 2 of 2		
A)1 ————————————————————————————————————						SM	SILTY SIAND, Reddish brown, fi less mud clasts, No green clasts, well sorted, slightly consolidated, no stain lodor	mud	
4h ————————————————————————————————————							TD @ 120 feet bg	s	
20									
25 —									



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number Q64 Q16 Q4 Sec Tws Rng

X Y

22333 C 04388 POD1

3 2 1 23 24S 31E

617546 3564006

Driller License: 1

1058 **Driller Company:**

KEY'S DRILLING & PUMP SERVICE

Driller Name:

KEY, GARYR.S AICHARDDENAS

Drill Start Date: 12/18/2

12/18/2019 **Drill Finish Date:**

02/22/2020

Plug Date:

Log File Date:

02/27/2020

PCW Rcv Date:

Source:

Artesian

Pump Type:

Pipe Discharge Size:

Estimated Yield:

60 GPM

Casing Size:

4.50

Depth Well:

910 feet

Depth Water:

868 feet

Water Bearing Stratifications:

Top Bottom Description

866

868 Limestone/Dolomite/Chalk

Casing Perforations:

Top Bottom

850

910

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

8/16/22 9:02 AM

POINT OF DIVERSION SUMMARY



APPENDIX B

Lithologic/Soil Sampling Log

						B #	Sample Name: BH01	Date: 9-8-2022
		N	S	U	_ U	M	Site Name: Windward 2H Incident Number: nAPP223544	5206
								3300
	LITHOL	OGI	C / SOIL S	SAMPLING	ilog			Method: Pothole
				<i>y</i> (1011 21140				Total Depth: 2'
nents: Fie	ld screen	ing co	onducted v			Strips and		· ·
Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Descriptions
					0	SM	Silty sand, brown and tan	
<168	10.01	Υ	BH01	1	_ 1		πο ουσι, αιγ	
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	linates: 3: nents: Fie rmed with (bbu)	LITHOL linates: 32.195554 nents: Field screen rmed with 1:4 dilur (LITHOLOGIC linates: 32.195554, -103 ments: Field screening commed with 1:4 dilution from (mod) Squining (mod	LITHOLOGIC / SOIL Stinates: 32.195554, -103.717726 Thents: Field screening conducted with 1:4 dilution factor of so and the solution of the s	LITHOLOGIC / SOIL SAMPLING linates: 32.195554, -103.717726 The ents: Field screening conducted with HACH Charmed with 1:4 dilution factor of soil to distilled Output Ou	LITHOLOGIC / SOIL SAMPLING LOG Inates: 32.195554, -103.717726 The ents: Field screening conducted with HACH Chloride Test of the med with 1:4 dilution factor of soil to distilled water. Polyiola Depth (ft bgs) Depth (ft bgs)	LITHOLOGIC / SOIL SAMPLING LOG Inates: 32.195554, -103.717726 The ents: Field screening conducted with HACH Chloride Test Strips and remed with 1:4 dilution factor of soil to distilled water. Polyiola P	LITHOLOGIC / SOIL SAMPLING LOG Logged By: LC Iniates: 32.195554, -103.717726 Hole Diameter: N/A The principal of the prin

								Commis Names BUO2	Data: 0.0.2022
								Sample Name: BH02	Date: 9-8-2022
		E	N	S	U	LU	M	Site Name: Windward 2H Incident Number: nAPP223544!	E206
					_			Job Number: 03D2024080	JJ00
		IITHOI	OGI	r / sou e	SAMPLING	SING		Logged By: LC	Method: Pothole
Coord		2.195631			SAIVIF LIIV	100		Hole Diameter: N/A	Total Depth: 2'
Comm	ents: Fie	ld screen	ing co	onducted v	vith HACH Cl il to distilled		Strips and	PID for chloride and vapor, resp	·
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic D	
					1	0	SM	Silty sand, brown and tan no odor, dry	
D	<168	0	N	BH02	1 _	_ 1		ino ouor, ury	
D	<168	0	N	BH02	2	2		TD: 2 feet	t has
	/100		14	51102				10.2166	LUGJ
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								Sample Name: BH03	Date: 9-8-2022
		E	N	5		L U	M	Site Name: Windward 2H Incident Number: nAPP22354453	
									06
-		:	<u> </u>					Job Number: 03D2024080	
					SAMPLING	LOG		Logged By: LC	Method: Pothole
		2.195696			:	=		Hole Diameter: N/A	Total Depth: 2'
					ith HACH Cl il to distilled		Strips and	PID for chloride and vapor, respec	ctively. Chloride test
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic De	scriptions
					1	0	SM	Silty sand, brown and tan no odor, dry	
D	168	0	N	BH03	1	_ 1		no odor, dry	
D	240.8	0	N	BH03	2	_ 2		TD: 2 feet b	nac
	∠+∪.0	U	1 1	כטווט				1D. 2 1661 L	, p
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APPENDIX C

Photographic Log



Photographic Log

COG Operating, LLC Windward 2H CTB - Flare Incident Number nAPP2235445306





Photograph 1 Date: September 8, 2022 Description: Photo of release extent prior.

Photograph 2 Date: September 8, 2022 Description: Photo of release extent.





Photograph 3

Date: September 8, 2022

Description: Photo of release extent.

Photograph 4

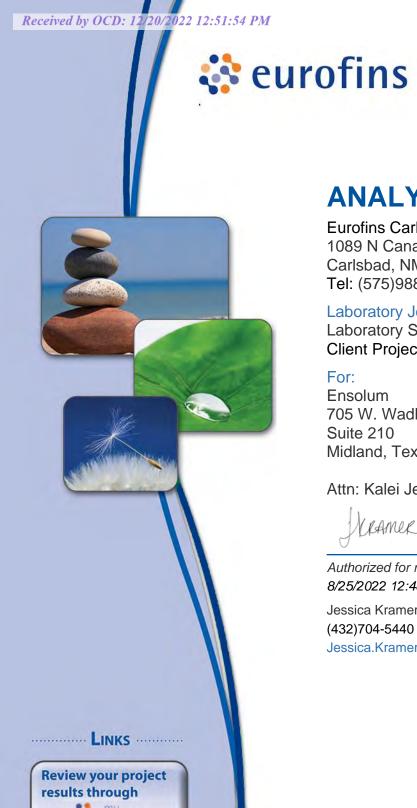
Date: September 8, 2022

Description: Photo of release extent.



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



EOL

Have a Question?

www.eurofinsus.com/Env

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Visit us at:

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2746-1

Laboratory Sample Delivery Group: 03D2024080 Client Project/Site: Windward 2H Flare Fire

For:

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Kalei Jennings

RAMER

Authorized for release by: 8/25/2022 12:48:03 PM

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 Laboratory Job ID: 890-2746-1 Project/Site: Windward 2H Flare Fire SDG: 03D2024080

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Definitions/Glossary

Job ID: 890-2746-1 Client: Ensolum Project/Site: Windward 2H Flare Fire

SDG: 03D2024080

Qualifiers

GC VOA

Qualifier **Qualifier Description** F1 MS and/or MSD recovery exceeds control limits. S1+ Surrogate recovery exceeds control limits, high biased.

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

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Case Narrative

Client: Ensolum

Project/Site: Windward 2H Flare Fire

Job ID: 890-2746-1

SDG: 03D2024080

Job ID: 890-2746-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2746-1

Receipt

The samples were received on 8/11/2022 3:27 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.4°C

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: SS01 (890-2746-1), (CCV 880-32557/20), (CCV 880-32557/33), (CCV 880-32557/51), (LCS 880-32561/1-A), (LCSD 880-32561/2-A), (MB 880-32546/5-A), (MB 880-32561/5-A), (880-18346-A-21-D MS) and (880-18346-A-21-E MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-18346-A-21-F). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-32833 and analytical batch 880-32836 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

Method 8015MOD NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-32175 and analytical batch 880-32121 were outside control limits. Sample matrix interference and/or non-homogeneity are 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.

HPLC/IC

Method 300 ORGFM 28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-32339 and analytical batch 880-32436 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Matrix: Solid

Lab Sample ID: 890-2746-1

Job ID: 890-2746-1

Client: Ensolum Project/Site: Windward 2H Flare Fire SDG: 03D2024080

Client Sample ID: SS01

Date Collected: 08/11/22 11:05 Date Received: 08/11/22 15:27

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200	mg/Kg		08/20/22 10:39	08/21/22 09:10	
Toluene	<0.00200	U	0.00200	mg/Kg		08/20/22 10:39	08/21/22 09:10	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/20/22 10:39	08/21/22 09:10	
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		08/20/22 10:39	08/21/22 09:10	
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/20/22 10:39	08/21/22 09:10	
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		08/20/22 10:39	08/21/22 09:10	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	156	S1+	70 - 130			08/20/22 10:39	08/21/22 09:10	
1,4-Difluorobenzene (Surr)	112		70 - 130			08/20/22 10:39	08/21/22 09:10	
Method: Total BTEX - Total BTI	EX Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00401	U	0.00401	mg/Kg			08/22/22 10:17	
Method: 8015 NM - Diesel Rang	ne Organics (DR	O) (GC)						
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	2880		50.0	mg/Kg			08/16/22 09:21	
Method: 8015B NM - Diesel Ra	nge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/15/22 13:57	08/16/22 03:24	
Diesel Range Organics (Over C10-C28)	2010		50.0	mg/Kg		08/15/22 13:57	08/16/22 03:24	
Oll Range Organics (Over C28-C36)	874		50.0	mg/Kg		08/15/22 13:57	08/16/22 03:24	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	97		70 - 130			08/15/22 13:57	08/16/22 03:24	
o-Terphenyl	100		70 - 130			08/15/22 13:57	08/16/22 03:24	
Method: 300.0 - Anions, Ion Ch	romatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	23.0		5.05	mg/Kg			08/19/22 01:35	

Client Sample ID: SS02 Lab Sample ID: 890-2746-2 Matrix: Solid

Date Collected: 08/11/22 11:10 Date Received: 08/11/22 15:27

Sample Depth: 0.5

Method: 8021B - Volatile Or	ganic Compounds ((GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/24/22 10:17	08/25/22 08:28	1
Toluene	0.00208		0.00200	mg/Kg		08/24/22 10:17	08/25/22 08:28	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/24/22 10:17	08/25/22 08:28	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		08/24/22 10:17	08/25/22 08:28	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/24/22 10:17	08/25/22 08:28	1
Xylenes, Total	< 0.00401	U	0.00401	mg/Kg		08/24/22 10:17	08/25/22 08:28	1

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Matrix: Solid

Lab Sample ID: 890-2746-2

Job ID: 890-2746-1

Client: Ensolum Project/Site: Windward 2H Flare Fire SDG: 03D2024080

Client Sample ID: SS02

Date Collected: 08/11/22 11:10 Date Received: 08/11/22 15:27

Sample Depth: 0.5

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76	70 - 130	08/24/22 10:17	08/25/22 08:28	1
1,4-Difluorobenzene (Surr)	116	70 - 130	08/24/22 10:17	08/25/22 08:28	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			08/22/22 10:17	1

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

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1770	49.9	mg/Kg			08/16/22 09:21	1

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

	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/15/22 13:57	08/16/22 03:44	1
	Diesel Range Organics (Over C10-C28)	1060		49.9	mg/Kg		08/15/22 13:57	08/16/22 03:44	1
	Oll Range Organics (Over C28-C36)	706		49.9	mg/Kg		08/15/22 13:57	08/16/22 03:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	08/15/22 13:	08/16/22 03:44	1
o-Terphenyl	88		70 - 130	08/15/22 13:	7 08/16/22 03:44	1

Method: 300.0 - Anions, Ion Chro	matography - Soluble						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorida	211	4 98	ma/Ka			08/19/22 02:03	1

Client Sample ID: SS03 Lab Sample ID: 890-2746-3 **Matrix: Solid**

Date Collected: 08/11/22 11:15 Date Received: 08/11/22 15:27

Sample Depth: 0.5

Method: 8021B - Volatile Orga	nic Compounds ((GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		08/24/22 10:17	08/25/22 08:49	1
Toluene	<0.00202	U	0.00202	mg/Kg		08/24/22 10:17	08/25/22 08:49	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		08/24/22 10:17	08/25/22 08:49	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		08/24/22 10:17	08/25/22 08:49	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		08/24/22 10:17	08/25/22 08:49	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		08/24/22 10:17	08/25/22 08:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4 Duama of Language (0)			70 400			00/04/00 40:47	00/05/00 00:40	

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	08/24/22 10	08/25/22 08:49	1
1,4-Difluorobenzene (Surr)	110		70 - 130	08/24/22 10	:17 08/25/22 08:49	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg	_		08/22/22 10:17	1

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Job ID: 890-2746-1

Client: Ensolum Project/Site: Windward 2H Flare Fire SDG: 03D2024080

Client Sample ID: SS03 Lab Sample ID: 890-2746-3 Date Collected: 08/11/22 11:15 Matrix: Solid

Date Received: 08/11/22 15:27

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	144		50.0	mg/Kg			08/16/22 09:21	1
Method: 8015B NM - Diesel Rar	nge Organics (DI	(GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/15/22 13:57	08/16/22 00:03	1
Diesel Range Organics (Over C10-C28)	65.2		50.0	mg/Kg		08/15/22 13:57	08/16/22 00:03	1
Oll Range Organics (Over C28-C36)	78.3		50.0	mg/Kg		08/15/22 13:57	08/16/22 00:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130			08/15/22 13:57	08/16/22 00:03	1
o-Terphenyl	95		70 - 130			08/15/22 13:57	08/16/22 00:03	1
Method: 300.0 - Anions, Ion Ch	romatography -	Soluble						
Analyte	0 . ,	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: SS04 Lab Sample ID: 890-2746-4

4.98

53.9

mg/Kg

Date Collected: 08/11/22 11:20 Date Received: 08/11/22 15:27

Sample Depth: 0.5

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/24/22 10:17	08/25/22 09:09	1
Toluene	0.00268		0.00200	mg/Kg		08/24/22 10:17	08/25/22 09:09	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/24/22 10:17	08/25/22 09:09	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		08/24/22 10:17	08/25/22 09:09	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/24/22 10:17	08/25/22 09:09	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		08/24/22 10:17	08/25/22 09:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130			08/24/22 10:17	08/25/22 09:09	1
4.4.Diff	101		70 - 130			08/24/22 10:17	08/25/22 09:09	1
1,4-Difluorobenzene (Surr) Method: Total BTEX - Total BT	EX Calculation							
·	EX Calculation	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed 08/22/22 10:17	Dil Fac
Method: Total BTEX - Total BT Analyte Total BTEX Method: 8015 NM - Diesel Ran	EX Calculation Result <0.00399 ge Organics (DR	U (GC)	RL 0.00399	mg/Kg		Prepared	Analyzed 08/22/22 10:17	Dil Fac
Method: Total BTEX - Total BT Analyte Total BTEX Method: 8015 NM - Diesel Ran Analyte	Result Calculation Result <	U		mg/Kg	<u>D</u>		Analyzed O8/22/22 10:17 Analyzed	Dil Fac
Method: Total BTEX - Total BT Analyte Total BTEX Method: 8015 NM - Diesel Ran Analyte Total TPH	Result CAlculation Result 55.8	O) (GC) Qualifier	RL 0.00399	mg/Kg		Prepared	Analyzed 08/22/22 10:17	Dil Fac
Method: Total BTEX - Total BT Analyte Total BTEX Method: 8015 NM - Diesel Ran Analyte Total TPH Method: 8015B NM - Diesel Ran	Result Quantity of the control of	O) (GC) Qualifier RO) (GC)	RL 0.00399 RL 49.9	mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 08/22/22 10:17 Analyzed 08/16/22 09:21	Dil Fac
Method: Total BTEX - Total BT Analyte Total BTEX Method: 8015 NM - Diesel Ran Analyte Total TPH Method: 8015B NM - Diesel Ran Analyte	Result Oncompanies (DR) Result Result 55.8 Result Stange Organics (DR) Result Result Result Result Result Result Result Result	O) (GC) Qualifier RO) (GC) Qualifier	RL 0.00399 RL 49.9	mg/Kg Unit mg/Kg		Prepared Prepared	Analyzed 08/22/22 10:17 Analyzed 08/16/22 09:21 Analyzed	Dil Fac
Method: Total BTEX - Total BT Analyte Total BTEX Method: 8015 NM - Diesel Ran Analyte Total TPH Method: 8015B NM - Diesel Ran	Result Quantity of the control of	O) (GC) Qualifier RO) (GC) Qualifier	RL 0.00399 RL 49.9	mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 08/22/22 10:17 Analyzed 08/16/22 09:21	Dil Fac
Method: Total BTEX - Total BT Analyte Total BTEX Method: 8015 NM - Diesel Ran Analyte Total TPH Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics	Result Oncompanies (DR) Result Result 55.8 Result Stange Organics (DR) Result Result Result Result Result Result Result Result	U O) (GC) Qualifier RO) (GC) Qualifier U	RL 0.00399 RL 49.9	mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 08/22/22 10:17 Analyzed 08/16/22 09:21 Analyzed	Dil Fac

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08/19/22 02:12

Matrix: Solid

Job ID: 890-2746-1

Client: Ensolum Project/Site: Windward 2H Flare Fire SDG: 03D2024080

Client Sample ID: SS04

Lab Sample ID: 890-2746-4 Date Collected: 08/11/22 11:20 Matrix: Solid Date Received: 08/11/22 15:27

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over	55.8		49.9	mg/Kg		08/15/22 13:57	08/16/22 00:23	1
C28-C36)								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130			08/15/22 13:57	08/16/22 00:23	1
o-Terphenyl	89		70 - 130			08/15/22 13:57	08/16/22 00:23	1

Method: 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier RL Unit Prepared Analyzed Dil Fac Chloride 29.1 4.95 mg/Kg 08/19/22 02:21

Client Sample ID: SS05 Lab Sample ID: 890-2746-5

Date Collected: 08/11/22 11:25 Date Received: 08/11/22 15:27

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		08/24/22 10:17	08/25/22 09:29	1
Toluene	< 0.00199	U	0.00199	mg/Kg		08/24/22 10:17	08/25/22 09:29	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		08/24/22 10:17	08/25/22 09:29	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/24/22 10:17	08/25/22 09:29	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		08/24/22 10:17	08/25/22 09:29	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/24/22 10:17	08/25/22 09:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130			08/24/22 10:17	08/25/22 09:29	1
1,4-Difluorobenzene (Surr)	100		70 - 130			08/24/22 10:17	08/25/22 09:29	1
Method: Total BTEX - Total BTEX Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398		0.00398	mg/Kg		Troparca	08/22/22 10:17	1
Method: 8015 NM - Diesel Range Analyte								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	Result 98.3	Qualifier	50.0 EL	<u>Unit</u> mg/Kg	<u>D</u>	Prepared	Analyzed 08/16/22 09:21	
Total TPH	98.3	<u> </u>			<u>D</u>	Prepared		Dil Fac
Total TPH Method: 8015B NM - Diesel Ran	98.3	<u> </u>			<u>D</u> 	Prepared Prepared		
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	98.3	RO) (GC) Qualifier	50.0	mg/Kg			08/16/22 09:21	1 Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	ge Organics (Di Result <50.0	RO) (GC) Qualifier	50.0 RL 50.0	mg/Kg Unit mg/Kg		Prepared 08/15/22 13:57	08/16/22 09:21 Analyzed 08/16/22 00:43	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	98.3 ge Organics (DI Result	RO) (GC) Qualifier	50.0	mg/Kg		Prepared	08/16/22 09:21 Analyzed	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (Di Result <50.0	RO) (GC) Qualifier	50.0 RL 50.0	mg/Kg Unit mg/Kg		Prepared 08/15/22 13:57	08/16/22 09:21 Analyzed 08/16/22 00:43	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	98.3 ge Organics (Di Result <50.0 <50.0	RO) (GC) Qualifier	50.0 RL 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 08/15/22 13:57 08/15/22 13:57	08/16/22 09:21 Analyzed 08/16/22 00:43 08/16/22 00:43	1 Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	98.3 ge Organics (Di Result <50.0 <50.0	RO) (GC) Qualifier U	50.0 RL 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 08/15/22 13:57 08/15/22 13:57	08/16/22 09:21 Analyzed 08/16/22 00:43 08/16/22 00:43	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over	98.3 ge Organics (Di Result <50.0 <50.0 98.3	RO) (GC) Qualifier U	50.0 RL 50.0 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 08/15/22 13:57 08/15/22 13:57 08/15/22 13:57	08/16/22 09:21 Analyzed 08/16/22 00:43 08/16/22 00:43	1 Dil Fac

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Matrix: Solid

Matrix: Solid

Client Sample Results

Client: Ensolum Job ID: 890-2746-1 Project/Site: Windward 2H Flare Fire SDG: 03D2024080

Client Sample ID: SS05 Lab Sample ID: 890-2746-5

Date Collected: 08/11/22 11:25 Date Received: 08/11/22 15:27

Sample Depth: 0.5

Method: 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
	Chloride	206		4.99	mg/Kg			08/19/22 02:30	1	

Client Sample ID: SS06 Lab Sample ID: 890-2746-6 Matrix: Solid

Date Collected: 08/11/22 11:30 Date Received: 08/11/22 15:27

Method: 8021B - Volatile Orga	nic Compounds (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200	mg/Kg		08/24/22 10:17	08/25/22 09:50	
Toluene	<0.00200	U	0.00200	mg/Kg		08/24/22 10:17	08/25/22 09:50	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/24/22 10:17	08/25/22 09:50	
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		08/24/22 10:17	08/25/22 09:50	
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/24/22 10:17	08/25/22 09:50	
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		08/24/22 10:17	08/25/22 09:50	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	93		70 - 130			08/24/22 10:17	08/25/22 09:50	
1,4-Difluorobenzene (Surr)	100		70 - 130			08/24/22 10:17	08/25/22 09:50	
Method: Total BTEX - Total B1	ΓEX Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00401	U	0.00401	mg/Kg			08/22/22 10:17	
Method: 8015 NM - Diesel Rar	nge Organics (DR	O) (GC)						
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	56.9		49.9	mg/Kg			08/16/22 09:21	
Method: 8015B NM - Diesel Ra	ange Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/15/22 13:57	08/16/22 01:03	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/15/22 13:57	08/16/22 01:03	
Oll Range Organics (Over C28-C36)	56.9		49.9	mg/Kg		08/15/22 13:57	08/16/22 01:03	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	86		70 - 130			08/15/22 13:57	08/16/22 01:03	
o-Terphenyl	85		70 - 130			08/15/22 13:57	08/16/22 01:03	
Method: 300.0 - Anions, Ion C	hromatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa

Client Sample Results

Client: Ensolum Job ID: 890-2746-1 Project/Site: Windward 2H Flare Fire SDG: 03D2024080

Client Sample ID: SS07 Lab Sample ID: 890-2746-7 Date Collected: 08/11/22 11:35

Matrix: Solid

Date Received: 08/11/22 15:27 Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		08/24/22 10:17	08/25/22 10:10	1
Toluene	<0.00201	U	0.00201	mg/Kg		08/24/22 10:17	08/25/22 10:10	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		08/24/22 10:17	08/25/22 10:10	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		08/24/22 10:17	08/25/22 10:10	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		08/24/22 10:17	08/25/22 10:10	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		08/24/22 10:17	08/25/22 10:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130			08/24/22 10:17	08/25/22 10:10	1
1,4-Difluorobenzene (Surr)	102		70 - 130			08/24/22 10:17	08/25/22 10:10	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			08/22/22 10:17	1
- Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg	 _		08/16/22 09:21	1
Method: 8015B NM - Diesel Rang	je Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		08/15/22 13:57	08/16/22 02:44	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/15/22 13:57	08/16/22 02:44	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/15/22 13:57	08/16/22 02:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130			08/15/22 13:57	08/16/22 02:44	1
o-Terphenyl	89		70 - 130			08/15/22 13:57	08/16/22 02:44	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	66.1		4.95	mg/Kg	_		08/19/22 02:49	1

Surrogate Summary

Job ID: 890-2746-1 Client: Ensolum Project/Site: Windward 2H Flare Fire SDG: 03D2024080

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Rec
		BFB1	DFBZ1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-18346-A-21-D MS	Matrix Spike	202 S1+	95	
880-18346-A-21-E MSD	Matrix Spike Duplicate	207 S1+	100	
390-2746-1	SS01	156 S1+	112	
390-2746-2	SS02	76	116	
390-2746-3	SS03	87	110	
390-2746-4	SS04	91	101	
390-2746-5	SS05	95	100	
390-2746-6	SS06	93	100	
390-2746-7	SS07	90	102	
390-2795-A-4-D MS	Matrix Spike	105	103	
390-2795-A-4-E MSD	Matrix Spike Duplicate	98	102	
.CS 880-32561/1-A	Lab Control Sample	209 S1+	99	
.CS 880-32833/1-A	Lab Control Sample	93	95	
.CSD 880-32561/2-A	Lab Control Sample Dup	196 S1+	97	
.CSD 880-32833/2-A	Lab Control Sample Dup	99	101	
ИВ 880-32546/5-A	Method Blank	137 S1+	70	
ИВ 880-32561/5-A	Method Blank	152 S1+	70	
ИВ 880-32772/5-A	Method Blank	79	118	
	Method Blank	81	120	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

		1001	ОТРН1	Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-18072-A-1-B MS	Matrix Spike	79	80	· —— —— —— —— ——
880-18072-A-1-C MSD	Matrix Spike Duplicate	80	79	
890-2746-1	SS01	97	100	
890-2746-2	SS02	92	88	
890-2746-3	SS03	91	95	
890-2746-4	SS04	90	89	
890-2746-5	SS05	88	94	
890-2746-6	SS06	86	85	
890-2746-7	SS07	86	89	
LCS 880-32175/2-A	Lab Control Sample	123	125	
LCSD 880-32175/3-A	Lab Control Sample Dup	110	115	
MB 880-32175/1-A	Method Blank	89	98	

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OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-2746-1 Project/Site: Windward 2H Flare Fire

SDG: 03D2024080

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-32546/5-A

Matrix: Solid

Analysis Batch: 32557

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32546

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/19/22 19:05	08/20/22 13:06	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/19/22 19:05	08/20/22 13:06	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/19/22 19:05	08/20/22 13:06	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/19/22 19:05	08/20/22 13:06	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/19/22 19:05	08/20/22 13:06	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/19/22 19:05	08/20/22 13:06	1

MB MB

MD MD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130
1,4-Difluorobenzene (Surr)	70		70 - 130

Dil Fac Prepared Analyzed 08/19/22 19:05 08/20/22 13:06 08/19/22 19:05 08/20/22 13:06

Lab Sample ID: MB 880-32561/5-A Client Sample ID: Method Blank Matrix: Solid Prep Type: Total/NA Analysis Batch: 32557 Prep Batch: 32561

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/20/22 10:39	08/21/22 02:38	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/20/22 10:39	08/21/22 02:38	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/20/22 10:39	08/21/22 02:38	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/20/22 10:39	08/21/22 02:38	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/20/22 10:39	08/21/22 02:38	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/20/22 10:39	08/21/22 02:38	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	152	S1+	70 - 130	08/20/22 10:39	08/21/22 02:38	1
1,4-Difluorobenzene (Surr)	70		70 - 130	08/20/22 10:39	08/21/22 02:38	1

Lab Sample ID: LCS 880-32561/1-A

Matrix: Solid

Analysis Batch: 32557

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 32561

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1162		mg/Kg		116	70 - 130	
Toluene	0.100	0.1167		mg/Kg		117	70 - 130	
Ethylbenzene	0.100	0.1229		mg/Kg		123	70 - 130	
m-Xylene & p-Xylene	0.200	0.2462		mg/Kg		123	70 - 130	
o-Xylene	0.100	0.1247		mg/Kg		125	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	209	S1+	70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-32561/2-A

Matrix: Solid								Prep 1	Гуре: То	tal/NA
	Analysis Batch: 32557							Prep	Batch:	32561
		Spike	LCSD	LCSD				%Rec		RPD
	Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
	Benzene	0.100	0.1228		mg/Kg		123	70 - 130	6	35

QC Sample Results

Job ID: 890-2746-1 Client: Ensolum Project/Site: Windward 2H Flare Fire SDG: 03D2024080

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

Lab Sample ID: LCSD 880-32561/2-A

Matrix: Solid Analysis Batch: 32557 Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 32561

Spike LCSD LCSD %Rec **RPD** Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Toluene 0.100 0.1197 120 70 - 130 35 mg/Kg 3 Ethylbenzene 0.100 0.1226 mg/Kg 123 70 - 130 0 35 0.200 m-Xylene & p-Xylene 0.2445 mg/Kg 122 70 - 130 35 o-Xylene 0.100 0.1236 mg/Kg 124 70 - 130 35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	196	S1+	70 _ 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 880-18346-A-21-D MS Client Sample ID: Matrix Spike

Analysis Batch: 32557

Matrix: Solid Prep Type: Total/NA

Prep Batch: 32561

MS MS %Rec Sample Sample Spike Result Qualifier Analyte Added Result Qualifier Unit %Rec Limits Benzene <0.000402 0.0998 0.1219 122 mg/Kg 70 - 130 Toluene <0.000402 0.0998 0.1183 119 70 - 130 U mg/Kg Ethylbenzene <0.000402 U 0.0998 0.1246 125 70 - 130 mg/Kg 0.200 m-Xylene & p-Xylene <0.000805 U 0.2501 125 70 - 130 mg/Kg o-Xylene <0.000402 U 0.0998 0.1235 mg/Kg 123 70 - 130

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	202	S1+	70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 880-18346-A-21-E MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 32557

Prep Type: Total/NA

Prep Batch: 32561

MSD MSD RPD Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Benzene <0.000402 U 0.100 0.1204 mg/Kg 120 70 - 130 35 Toluene < 0.000402 0.100 0.1173 mg/Kg 117 70 - 130 35 Ethylbenzene < 0.000402 0.100 0.1207 mg/Kg 120 70 - 130 35 0.200 <0.000805 U 0.2380 70 - 130 35 m-Xylene & p-Xylene mg/Kg 119 5 0.100 o-Xylene <0.000402 U 0.1215 mg/Kg 121 70 - 130 35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits		
4-Bromofluorobenzene (Surr)	207	S1+	70 - 130		
1,4-Difluorobenzene (Surr)	100		70 - 130		

Lab Sample ID: MB 880-32772/5-A

Matrix: Solid

Analysis Batch: 32836

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32772

мв мв

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/23/22 10:42	08/24/22 14:51	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/23/22 10:42	08/24/22 14:51	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/23/22 10:42	08/24/22 14:51	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/23/22 10:42	08/24/22 14:51	1

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QC Sample Results

Client: Ensolum Job ID: 890-2746-1 Project/Site: Windward 2H Flare Fire SDG: 03D2024080

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

Lab Sample ID: MB 880-32772/5-A

Matrix: Solid

Analysis Batch: 32836

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32772

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/23/22 10:42	08/24/22 14:51	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/23/22 10:42	08/24/22 14:51	1

MD MD

MB MB

	IND	MD				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130	08/23/22 10:42	08/24/22 14:51	1
1,4-Difluorobenzene (Surr)	118		70 - 130	08/23/22 10:42	08/24/22 14:51	1

Lab Sample ID: MB 880-32833/5-A Client Sample ID: Method Blank

Matrix: Solid

o-Xylene

Xylenes, Total

Analysis Batch: 32836

mg/Kg

mg/Kg

Prep Type: Total/NA Prep Batch: 32833

мв мв Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Benzene <0.00200 U 0.00200 mg/Kg 08/24/22 10:17 08/25/22 02:46 Toluene <0.00200 U 0.00200 mg/Kg 08/24/22 10:17 08/25/22 02:46 08/25/22 02:46 Ethylbenzene <0.00200 U 0.00200 mg/Kg 08/24/22 10:17 m-Xylene & p-Xylene <0.00400 U 0.00400 08/24/22 10:17 08/25/22 02:46 mg/Kg

0.00200

0.00400

мв мв

<0.00200 U

<0.00400 U

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81	70 - 130	08/24/22 10:17	08/25/22 02:46	1
1,4-Difluorobenzene (Surr)	120	70 - 130	08/24/22 10:17	08/25/22 02:46	1

Lab Sample ID: LCS 880-32833/1-A

Matrix: Solid

Analysis Batch: 32836

Client Sample ID: Lab Control Sample

08/25/22 02:46

08/25/22 02:46

08/24/22 10:17

08/24/22 10:17

Prep Type: Total/NA

Prep Batch: 32833

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08613		mg/Kg		86	70 - 130	
Toluene	0.100	0.09677		mg/Kg		97	70 - 130	
Ethylbenzene	0.100	0.09345		mg/Kg		93	70 - 130	
m-Xylene & p-Xylene	0.200	0.1748		mg/Kg		87	70 - 130	
o-Xylene	0.100	0.09368		mg/Kg		94	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	93	70 - 130
1,4-Difluorobenzene (Surr)	95	70 - 130

Lab Sample ID: LCSD 880-32833/2-A

Matrix: Solid

Analysis Batch: 32836

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

Prep Batch: 32833

•	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09646		mg/Kg		96	70 - 130	11	35
Toluene	0.100	0.1048		mg/Kg		105	70 - 130	8	35
Ethylbenzene	0.100	0.1015		mg/Kg		101	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.1862		mg/Kg		93	70 - 130	6	35
o-Xylene	0.100	0.09933		mg/Kg		99	70 - 130	6	35

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Released to Imaging: 1/17/2023 2:32:42 PM

Client: Ensolum Job ID: 890-2746-1 Project/Site: Windward 2H Flare Fire

SDG: 03D2024080

Prep Batch: 32833

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

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 890-2795-A-4-D MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 32836

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U F1	0.100	0.09197		mg/Kg		92	70 - 130	
Toluene	<0.00201	U F1	0.100	0.07107		mg/Kg		71	70 - 130	
Ethylbenzene	<0.00201	U F1	0.100	0.07605		mg/Kg		76	70 - 130	
m-Xylene & p-Xylene	<0.00402	U F1	0.201	0.1360	F1	mg/Kg		68	70 - 130	
o-Xylene	<0.00201	U	0.100	0.09272		mg/Kg		92	70 - 130	

MS MS

Surrogate	%Recovery Qualifi	er Limits
4-Bromofluorobenzene (Surr)	105	70 - 130
1,4-Difluorobenzene (Surr)	103	70 - 130

Lab Sample ID: 890-2795-A-4-E MSD

Matrix: Solid

Analysis Batch: 32836

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 32833

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U F1	0.0998	0.06774	F1	mg/Kg		68	70 - 130	30	35
Toluene	<0.00201	U F1	0.0998	0.05943	F1	mg/Kg		60	70 - 130	18	35
Ethylbenzene	<0.00201	U F1	0.0998	0.06184	F1	mg/Kg		62	70 - 130	21	35
m-Xylene & p-Xylene	<0.00402	U F1	0.200	0.1129	F1	mg/Kg		57	70 - 130	19	35
o-Xylene	<0.00201	U	0.0998	0.07382		mg/Kg		74	70 - 130	23	35

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

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

Lab Sample ID: MB 880-32175/1-A

Matrix: Solid

Analysis Batch: 32121

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

Prep Batch: 32175

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		08/15/22 13:57	08/15/22 20:31	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		08/15/22 13:57	08/15/22 20:31	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/15/22 13:57	08/15/22 20:31	1

MB MB

MR MR

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	08/15/22 13:57	08/15/22 20:31	1
o-Terphenyl	98		70 - 130	08/15/22 13:57	08/15/22 20:31	1

QC Sample Results

Job ID: 890-2746-1 Client: Ensolum Project/Site: Windward 2H Flare Fire SDG: 03D2024080

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

Lab Sample ID: LCS 880-32175/2-A **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Solid Analysis Batch: 32121

Analysis Batch: 32121							Prep	Batch: 32175
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	986.1		mg/Kg		99	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1108		mg/Kg		111	70 - 130	

C10-C28)

LCS LCS %Recovery Qualifier Limits Surrogate 70 - 130 1-Chlorooctane 123 o-Terphenyl 125 70 - 130

Lab Sample ID: LCSD 880-32175/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 32121

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit 1000 960.2 96 70 - 130 3 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1017 mg/Kg 102 70 - 130 9 20

C10-C28)

	LUJD	LUSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	110		70 - 130
o-Terphenyl	115		70 - 130

LCSD LCSD

Lab Sample ID: 880-18072-A-1-B MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 32121

Prep Batch: 32175 Sample Sample Spike MS MS %Rec Added Analyte Result Qualifier Result Qualifier Unit %Rec Limits Gasoline Range Organics <49.9 U 999 953.5 95 70 - 130 mg/Kg (GRO)-C6-C10 999 690.5 F1 69 70 - 130 Diesel Range Organics (Over <49.9 U.F.1 mg/Kg

C10-C28)

	IVIS	IVIS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	79		70 - 130
o-Terphenvl	80		70 - 130

Lab Sample ID: 880-18072-A-1-C MSD

Matrix: Solid

Analysis Batch: 32121									Prep	Batch:	32175
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	968.8		mg/Kg		97	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	698.1		mg/Kg		70	70 - 130	1	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	80		70 130								

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Prep Type: Total/NA

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 32175

Job ID: 890-2746-1 Client: Ensolum Project/Site: Windward 2H Flare Fire

SDG: 03D2024080

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

Lab Sample ID: 880-18072-A-1-C MSD **Matrix: Solid**

Analysis Batch: 32121

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA Prep Batch: 32175

MSD MSD

Surrogate %Recovery Qualifier Limits o-Terphenyl 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-32339/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 32436

MB MB

Analyte Result Qualifier RL Unit D Dil Fac Prepared Analyzed Chloride <5.00 5.00 08/18/22 22:22 U mg/Kg

Lab Sample ID: LCS 880-32339/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 32436

LCS LCS Spike %Rec Added Result Qualifier Analyte Unit %Rec Limits Chloride 250 244.2 mg/Kg 98 90 - 110

Lab Sample ID: LCSD 880-32339/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 32436

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 243.2 90 - 110 mg/Kg 20

Lab Sample ID: 880-17981-A-1-C MS

Matrix: Solid

Analysis Batch: 32436

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 855 F1 248 1192 F1 136 90 - 110 mg/Kg

Lab Sample ID: 880-17981-A-1-D MSD

Matrix: Solid

Analysis Batch: 32436

Sample Sample Spike MSD MSD %Rec RPD Qualifier Added Qualifier RPD Limit Analyte Result Result Unit %Rec Limits Chloride F1 248 F1 855 1138 114 90 - 110 20 mg/Kg

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Client Sample ID: Matrix Spike **Prep Type: Soluble**

Client Sample ID: Matrix Spike Duplicate **Prep Type: Soluble**

Client: Ensolum

Project/Site: Windward 2H Flare Fire

Job ID: 890-2746-1 SDG: 03D2024080

GC VOA

Prep Batch: 32546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-32546/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 32557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2746-1	SS01	Total/NA	Solid	8021B	32561
MB 880-32546/5-A	Method Blank	Total/NA	Solid	8021B	32546
MB 880-32561/5-A	Method Blank	Total/NA	Solid	8021B	32561
LCS 880-32561/1-A	Lab Control Sample	Total/NA	Solid	8021B	32561
LCSD 880-32561/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	32561
880-18346-A-21-D MS	Matrix Spike	Total/NA	Solid	8021B	32561
880-18346-A-21-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	32561

Prep Batch: 32561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2746-1	SS01	Total/NA	Solid	5035	
MB 880-32561/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-32561/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-32561/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-18346-A-21-D MS	Matrix Spike	Total/NA	Solid	5035	
880-18346-A-21-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 32623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2746-1	SS01	Total/NA	Solid	Total BTEX	
890-2746-2	SS02	Total/NA	Solid	Total BTEX	
890-2746-3	SS03	Total/NA	Solid	Total BTEX	
890-2746-4	SS04	Total/NA	Solid	Total BTEX	
890-2746-5	SS05	Total/NA	Solid	Total BTEX	
890-2746-6	SS06	Total/NA	Solid	Total BTEX	
890-2746-7	SS07	Total/NA	Solid	Total BTEX	

Prep Batch: 32772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-32772/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 32833

- Daten: 02000					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2746-2	SS02	Total/NA	Solid	5035	
890-2746-3	SS03	Total/NA	Solid	5035	
890-2746-4	SS04	Total/NA	Solid	5035	
890-2746-5	SS05	Total/NA	Solid	5035	
890-2746-6	SS06	Total/NA	Solid	5035	
890-2746-7	SS07	Total/NA	Solid	5035	
MB 880-32833/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-32833/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-32833/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2795-A-4-D MS	Matrix Spike	Total/NA	Solid	5035	
890-2795-A-4-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Client: Ensolum Job ID: 890-2746-1
Project/Site: Windward 2H Flare Fire SDG: 03D2024080

GC VOA

Analysis Batch: 32836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2746-2	SS02	Total/NA	Solid	8021B	32833
890-2746-3	SS03	Total/NA	Solid	8021B	32833
890-2746-4	SS04	Total/NA	Solid	8021B	32833
890-2746-5	SS05	Total/NA	Solid	8021B	32833
890-2746-6	SS06	Total/NA	Solid	8021B	32833
890-2746-7	SS07	Total/NA	Solid	8021B	32833
MB 880-32772/5-A	Method Blank	Total/NA	Solid	8021B	32772
MB 880-32833/5-A	Method Blank	Total/NA	Solid	8021B	32833
LCS 880-32833/1-A	Lab Control Sample	Total/NA	Solid	8021B	32833
LCSD 880-32833/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	32833
890-2795-A-4-D MS	Matrix Spike	Total/NA	Solid	8021B	32833
890-2795-A-4-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	32833

GC Semi VOA

Analysis Batch: 32121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2746-1	SS01	Total/NA	Solid	8015B NM	32175
890-2746-2	SS02	Total/NA	Solid	8015B NM	32175
890-2746-3	SS03	Total/NA	Solid	8015B NM	32175
890-2746-4	SS04	Total/NA	Solid	8015B NM	32175
890-2746-5	SS05	Total/NA	Solid	8015B NM	32175
890-2746-6	SS06	Total/NA	Solid	8015B NM	32175
890-2746-7	SS07	Total/NA	Solid	8015B NM	32175
MB 880-32175/1-A	Method Blank	Total/NA	Solid	8015B NM	32175
LCS 880-32175/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	32175
LCSD 880-32175/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	32175
880-18072-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	32175
880-18072-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	32175

Prep Batch: 32175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2746-1	SS01	Total/NA	Solid	8015NM Prep	
890-2746-2	SS02	Total/NA	Solid	8015NM Prep	
890-2746-3	SS03	Total/NA	Solid	8015NM Prep	
890-2746-4	SS04	Total/NA	Solid	8015NM Prep	
890-2746-5	SS05	Total/NA	Solid	8015NM Prep	
890-2746-6	SS06	Total/NA	Solid	8015NM Prep	
890-2746-7	SS07	Total/NA	Solid	8015NM Prep	
MB 880-32175/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-32175/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-32175/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-18072-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-18072-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 32213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2746-1	SS01	Total/NA	Solid	8015 NM	
890-2746-2	SS02	Total/NA	Solid	8015 NM	
890-2746-3	SS03	Total/NA	Solid	8015 NM	
890-2746-4	SS04	Total/NA	Solid	8015 NM	

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Client: Ensolum Job ID: 890-2746-1 Project/Site: Windward 2H Flare Fire

SDG: 03D2024080

GC Semi VOA (Continued)

Analysis Batch: 32213 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Bato	:h
890-2746-5	SS05	Total/NA	Solid	8015 NM	
890-2746-6	SS06	Total/NA	Solid	8015 NM	
890-2746-7	SS07	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 32339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2746-1	SS01	Soluble	Solid	DI Leach	_
890-2746-2	SS02	Soluble	Solid	DI Leach	
890-2746-3	SS03	Soluble	Solid	DI Leach	
890-2746-4	SS04	Soluble	Solid	DI Leach	
890-2746-5	SS05	Soluble	Solid	DI Leach	
890-2746-6	SS06	Soluble	Solid	DI Leach	
890-2746-7	SS07	Soluble	Solid	DI Leach	
MB 880-32339/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-32339/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-32339/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-17981-A-1-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-17981-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 32436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2746-1	SS01	Soluble	Solid	300.0	32339
890-2746-2	SS02	Soluble	Solid	300.0	32339
890-2746-3	SS03	Soluble	Solid	300.0	32339
890-2746-4	SS04	Soluble	Solid	300.0	32339
890-2746-5	SS05	Soluble	Solid	300.0	32339
890-2746-6	SS06	Soluble	Solid	300.0	32339
890-2746-7	SS07	Soluble	Solid	300.0	32339
MB 880-32339/1-A	Method Blank	Soluble	Solid	300.0	32339
LCS 880-32339/2-A	Lab Control Sample	Soluble	Solid	300.0	32339
LCSD 880-32339/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	32339
880-17981-A-1-C MS	Matrix Spike	Soluble	Solid	300.0	32339
880-17981-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	32339

Job ID: 890-2746-1 SDG: 03D2024080

Client Sample ID: SS01

Lab Sample ID: 890-2746-1

Matrix: Solid

Date Collected: 08/11/22 11:05 Date Received: 08/11/22 15:27

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	32561	08/20/22 10:39	MR	EET MID
Total/NA	Analysis	8021B		1			32557	08/21/22 09:10	MR	EET MID
Total/NA	Analysis	Total BTEX		1			32623	08/22/22 10:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			32213	08/16/22 09:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32175	08/15/22 13:57	DM	EET MID
Total/NA	Analysis	8015B NM		1			32121	08/16/22 03:24	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	32339	08/17/22 09:34	CH	EET MID
Soluble	Analysis	300.0		1			32436	08/19/22 01:35	CH	EET MID

Client Sample ID: SS02 Lab Sample ID: 890-2746-2

Date Collected: 08/11/22 11:10

Date Received: 08/11/22 15:27

Matrix: Solid

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 Total/NA 4.99 g 5 mL 32833 08/24/22 10:17 MR EET MID Total/NA 8021B 5 mL 32836 08/25/22 08:28 **EET MID** Analysis 1 5 mL MR Total/NA Total BTEX 32623 08/22/22 10:17 Analysis 1 SM **EET MID** Total/NA Analysis 8015 NM 32213 08/16/22 09:21 SM **EET MID** Total/NA 32175 08/15/22 13:57 Prep 8015NM Prep 10.02 g DM EET MID 10 mL Total/NA Analysis 8015B NM 32121 08/16/22 03:44 SM **EET MID** Soluble Leach DI Leach 5.02 g 50 mL 32339 08/17/22 09:34 CH **EET MID** Soluble Analysis 300.0 32436 08/19/22 02:03 СН **EET MID**

Client Sample ID: SS03

Date Collected: 08/11/22 11:15

Lab Sample ID: 890-2746-3

Matrix: Solid

Date Received: 08/11/22 15:27

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	32833	08/24/22 10:17	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32836	08/25/22 08:49	MR	EET MID
Total/NA	Analysis	Total BTEX		1			32623	08/22/22 10:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			32213	08/16/22 09:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32175	08/15/22 13:57	DM	EET MID
Total/NA	Analysis	8015B NM		1			32121	08/16/22 00:03	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	32339	08/17/22 09:34	CH	EET MID
Soluble	Analysis	300.0		1			32436	08/19/22 02:12	CH	EET MID

Client Sample ID: SS04 Lab Sample ID: 890-2746-4

Date Collected: 08/11/22 11:20 Date Received: 08/11/22 15:27

	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	32833	08/24/22 10:17	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32836	08/25/22 09:09	MR	EET MID
Total/NA	Analysis	Total BTEX		1			32623	08/22/22 10:17	SM	EET MID

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Matrix: Solid

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Client: Ensolum

Job ID: 890-2746-1

Project/Site: Windward 2H Flare Fire

SDG: 03D2024080

Project/Site: Windward 2H Flare Fire SDG: 03D2024080

Client Sample ID: SS04

Lab Sample ID: 890-2746-4

Date Collected: 08/11/22 11:20 Matrix: Solid
Date Received: 08/11/22 15:27

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			32213	08/16/22 09:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	32175	08/15/22 13:57	DM	EET MID
Total/NA	Analysis	8015B NM		1			32121	08/16/22 00:23	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	32339	08/17/22 09:34	CH	EET MID
Soluble	Analysis	300.0		1			32436	08/19/22 02:21	CH	EET MID

Client Sample ID: SS05 Lab Sample ID: 890-2746-5

Date Collected: 08/11/22 11:25 Matrix: Solid

Date Received: 08/11/22 15:27

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	32833	08/24/22 10:17	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32836	08/25/22 09:29	MR	EET MID
Total/NA	Analysis	Total BTEX		1			32623	08/22/22 10:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			32213	08/16/22 09:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32175	08/15/22 13:57	DM	EET MID
Total/NA	Analysis	8015B NM		1			32121	08/16/22 00:43	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	32339	08/17/22 09:34	СН	EET MID
Soluble	Analysis	300.0		1			32436	08/19/22 02:30	CH	EET MID

Client Sample ID: SS06 Lab Sample ID: 890-2746-6

Date Collected: 08/11/22 11:30 Date Received: 08/11/22 15:27

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	32833	08/24/22 10:17	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32836	08/25/22 09:50	MR	EET MID
Total/NA	Analysis	Total BTEX		1			32623	08/22/22 10:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			32213	08/16/22 09:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	32175	08/15/22 13:57	DM	EET MID
Total/NA	Analysis	8015B NM		1			32121	08/16/22 01:03	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	32339	08/17/22 09:34	CH	EET MID
Soluble	Analysis	300.0		1			32436	08/19/22 02:39	CH	EET MID

Client Sample ID: SS07 Lab Sample ID: 890-2746-7

Date Collected: 08/11/22 11:35 Date Received: 08/11/22 15:27

	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	32833	08/24/22 10:17	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32836	08/25/22 10:10	MR	EET MID
Total/NA	Analysis	Total BTEX		1			32623	08/22/22 10:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			32213	08/16/22 09:21	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.04 g	10 mL	32175 32121	08/15/22 13:57 08/16/22 02:44	DM SM	EET MID EET MID

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Matrix: Solid

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Matrix: Solid

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Released to Imaging: 1/17/2023 2:32:42 PM

Lab Chronicle

Client: Ensolum Job ID: 890-2746-1
Project/Site: Windward 2H Flare Fire SDG: 03D2024080

Client Sample ID: SS07 Lab Sample ID: 890-2746-7

Date Collected: 08/11/22 11:35

Date Received: 08/11/22 15:27

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	32339	08/17/22 09:34	CH	EET MID
Soluble	Analysis	300.0		1			32436	08/19/22 02:49	CH	EET MID

Laboratory References:

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

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Accreditation/Certification Summary

Client: Ensolum Job ID: 890-2746-1 Project/Site: Windward 2H Flare Fire

SDG: 03D2024080

Laboratory: Eurofins Midland

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

Authority Texas		rogram	Identification Number	Expiration Date 06-30-23	
		ELAP	T104704400-22-24		
The following analytes the agency does not of	. ,	ut the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes fo	
Analysis Method	Prep Method	Matrix	Analyte		
8015 NM		Solid	Total TPH		
Total BTEX		Solid	Total BTEX		

EET MID

ASTM

Method Summary

Client: Ensolum

Project/Site: Windward 2H Flare Fire

Job ID: 890-2746-1

SDG: 03D2024080

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	FFT MID

Protocol References:

DI Leach

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

Deionized Water Leaching Procedure

Laboratory References:

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

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Sample Summary

Client: Ensolum

Project/Site: Windward 2H Flare Fire

Job ID: 890-2746-1

SDG: 03D2024080

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2746-1	SS01	Solid	08/11/22 11:05	08/11/22 15:27	0.5
890-2746-2	SS02	Solid	08/11/22 11:10	08/11/22 15:27	0.5
890-2746-3	SS03	Solid	08/11/22 11:15	08/11/22 15:27	0.5
890-2746-4	SS04	Solid	08/11/22 11:20	08/11/22 15:27	0.5
890-2746-5	SS05	Solid	08/11/22 11:25	08/11/22 15:27	0.5
890-2746-6	SS06	Solid	08/11/22 11:30	08/11/22 15:27	0.5
890-2746-7	SS07	Solid	08/11/22 11:35	08/11/22 15:27	0.5

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

Total 200.7 / 6010

200.8 / 6020:

8RCRA 13PPM Texas 11 Al Sb As

tice: 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

TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U

Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se

Ag SiO2 Na Sr TI Sn U V Zn Hg: 1631 / 245.1 / 7470 / 7471

13 14

eurofins **Environment Testing**

Chain of Custody

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

Chain of Custody NaOH+Ascorbic Acid: SAPC	Na ₂ S ₂ O ₃ : NaSO ₃	NaHSO ₄ : NABIS	H₃PO₄: HP	H ₂ SO ₄ : H ₂ NaOH: N	HCL: HC HNO3: F	Cool: Cool MeOH: I	None: NO DI Wate	IIS REQUEST Preservative Codes	Deliverables: EDD 🔲 ADaPT 🗆 Other:	Reporting: Level II Level III PST/UST TRRP Level	State of Project:	Program: UST/PST ☐ PRP☐ Brownfields ☐ RRC ☐ Superfund [Work Order Comments	www.xenco.com Page 1of	Work Order No:
H: Zn Acid: SAPC				NaOH: Na	HNO3: HN	MeOH: Me	DI Water: H ₂ O	ive Codes		☐ Level IV☐] Superfund []		of 1	

SAMPLE RECEIPT

Samples Received Intact:

Cooler Custody Seals:

Yes No NA (Age emp Blank:

Correction Factor:

8

Thermometer ID:

DO VARA Yes

10.0 JI

CHLORIDES (EPA: 300.0)

890-2746

Yes No

Wet Ice:

8

Parameters

ample Custody Seals:

Yes

No AMA

Corrected Temperature: remperature Reading:

Sample Identification

Matrix

Sampled

Sampled

1105

0.5

Date

Time

Depth

Comp Grab/

Cont # 0

TPH (8015) BTEX (8021

08.11.22 08.11.22

0.5

ရ G

0

SS05 SS04 SS03 SS02 SS01

S S S

08.11.22 08.11.22 08.11.22 08.11.22

1130 1125 1120 1115 1110

G G G

08.11.22

1135

0.5 0.5 0.5 0.5 0.5

G

SS07 SS06 Sampler's Name:

Conner Shore

Due Date:

✓ Routine

☐ Rush

Turn Around

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

Project Location:

Project Number:

Project Name: Phone:

Windward 2H Flare Fire

03D2024080

Company Name: Project Manager:

Ensolum, LLC Kalei Jennings

City, State ZIP: \ddress:

817-683-2503

Email: kjennings@ensolum.com

City, State ZIP:

Midland, TX 79701

601 N Marienfeld St Suite 400

Company Name:

Ensolum, LLC Kalei Jennigns

Bill to: (if different)

Address:

Midland, TX 79701

601 N Marienfeld St Suite 400

ervice. 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 surofins 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 negotiat Relinquished by: (Signature) Received by: (Signature) Date/Time Relinquished by: (Signature) Received by: (Signature) Revised Date 08/25/2020 Rev 2020 2 Date/Time

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-2746-1 SDG Number: 03D2024080

Login Number: 2746 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 ampered 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	
the Field Sampler's name present on COC?	True	
here 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	
ppropriate sample containers are used.	True	
sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
here 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: 890-2746-1 SDG Number: 03D2024080

List Source: Eurofins Midland

Login Number: 2746 List Number: 2 List Creation: 08/15/22 08:36 AM

Creator: Rodriguez, Leticia

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

<6mm (1/4").



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2910-1

Laboratory Sample Delivery Group: Lea County NM

Client Project/Site: Windward 2H

For:

eurofins

Ensolum 2351 W. Northwest Hwy **Suite 1203** Dallas, Texas 75220

Attn: Joe Gable

RAMER

Authorized for release by: 9/21/2022 5:14:19 PM

Jessica Kramer, Project Manager

Jessica.Kramer@et.eurofinsus.com

(432)704-5440

Have a Question?

EOL

.....LINKS

Review your project results through

Received by OCD: 12/20/2022 12:51:54 PM

Visit us at:

www.eurofinsus.com/Env Released to Imaging: 1/17/2023 2:32:42 PM 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: Windward 2H
Laboratory Job ID: 890-2910-1
SDG: Lea County NM

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Definitions/Glossary

Job ID: 890-2910-1 Client: Ensolum Project/Site: Windward 2H SDG: Lea County NM

Qualifiers

GC VOA Qualifier

F1 MS and/or MSD recovery exceeds control limits.

Qualifier Description

F2 MS/MSD RPD exceeds control limits

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

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: Windward 2H

SDG: Lea County NM

Job ID: 890-2910-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2910-1

Receipt

The samples were received on 9/9/2022 9:22 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.2°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-34858 and analytical batch 880-34895 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

GC Semi VOA

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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Matrix: Solid

Lab Sample ID: 890-2910-1

Client Sample Results

Client: Ensolum

Project/Site: Windward 2H

Job ID: 890-2910-1

SDG: Lea County NM

Client Sample ID: BH01

Date Collected: 09/09/22 10:00 Date Received: 09/09/22 09:22

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/19/22 15:06	09/21/22 08:25	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/19/22 15:06	09/21/22 08:25	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/19/22 15:06	09/21/22 08:25	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		09/19/22 15:06	09/21/22 08:25	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/19/22 15:06	09/21/22 08:25	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/19/22 15:06	09/21/22 08:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130			09/19/22 15:06	09/21/22 08:25	1
1,4-Difluorobenzene (Surr)	116		70 - 130			09/19/22 15:06	09/21/22 08:25	1
Method: Total BTEX - Total BTEX	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			09/21/22 15:17	1
Analyte Total TPH	Result	Qualifier	49.8	Unit mg/Kg	D	Prepared	Analyzed 09/14/22 08:52	Dil Fac
			.0.0	9/1.9			00/11/22 00:02	
Method: 8015B NM - Diesel Rang								
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/13/22 08:23	09/13/22 15:20	1
Diesel Range Organics (Over C10-C28)	138		49.8	mg/Kg		09/13/22 08:23	09/13/22 15:20	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/13/22 08:23	09/13/22 15:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130			09/13/22 08:23	09/13/22 15:20	1
o-Terphenyl	102		70 - 130			09/13/22 08:23	09/13/22 15:20	1
Method: 300.0 - Anions, Ion Chro								
Method: 300.0 - Anions, Ion Chro		Soluble Qualifier	RL 4.97	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 09/14/22 09:56	Dil Fac

Client Sample ID: BH01

Date Collected: 09/09/22 10:05 Date Received: 09/09/22 09:22

Sample Depth: 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/19/22 15:06	09/21/22 08:45	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/19/22 15:06	09/21/22 08:45	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/19/22 15:06	09/21/22 08:45	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		09/19/22 15:06	09/21/22 08:45	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/19/22 15:06	09/21/22 08:45	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/19/22 15:06	09/21/22 08:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			09/19/22 15:06	09/21/22 08:45	1

Eurofins Carlsbad

Lab Sample ID: 890-2910-2

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Matrix: Solid

Job ID: 890-2910-1

Client: Ensolum Project/Site: Windward 2H SDG: Lea County NM

Client Sample ID: BH01 Lab Sample ID: 890-2910-2

Date Collected: 09/09/22 10:05 Matrix: Solid Date Received: 09/09/22 09:22

Sample Depth: 2

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	108		70 - 130	09/19/22 15:06	09/21/22 08:45	1

Method: Total	BTEX - Total BTI	EX Calculation

Analyte		Qualifier RI	. Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403 U	0.00403	mg/Kg			09/21/22 15:17	1

ı			
	BARRIER II. COAR NIBA	Discal Dames Onnenies (DDO) (CO)	

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U	49.9	ma/Ka			09/14/22 08:52	1

Method: 8015B	NM - Diesel	Range Oro	anice (DRO)	(GC)
Methou. ou 136	MINI - DIESEI	Range Org	jailius (DRU)	GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/13/22 08:23	09/13/22 15:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/13/22 08:23	09/13/22 15:41	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/13/22 08:23	09/13/22 15:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qual	lifier Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100	70 - 130	09/13/22 08:23	09/13/22 15:41	1
o-Terphenyl	102	70 - 130	09/13/22 08:23	09/13/22 15:41	1

Method: 300.0 - Anions,	lon Chromatogra _l	ohy - Soluble

Analyte	Result Qua	alifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24.7	4.99	mg/Kg			09/14/22 10:01	1

Lab Sample ID: 890-2910-3 Client Sample ID: BH02 Matrix: Solid

Date Collected: 09/09/22 10:10 Date Received: 09/09/22 09:22

Sample Depth: 1

Method: 8021B -	. Volatila	Organic (Compounds	(GC)

Welliou. 002 ID - Volatile Orga	inc compounds	(30)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/19/22 15:06	09/21/22 10:36	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/19/22 15:06	09/21/22 10:36	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/19/22 15:06	09/21/22 10:36	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		09/19/22 15:06	09/21/22 10:36	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/19/22 15:06	09/21/22 10:36	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/19/22 15:06	09/21/22 10:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130			09/19/22 15:06	09/21/22 10:36	1
1,4-Difluorobenzene (Surr)	110		70 - 130			09/19/22 15:06	09/21/22 10:36	1

Method:	Total	RTFY -	Total RTFX	Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00399	U	0.00399	ma/Ka			09/21/22 15:17	1

	Method: 8015 NM - Diesel	Range Organics (DRO) (GC)
ı	Michiga. 00 to Min - Diese	i italige Organics (Dito	, (00)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/14/22 08:52	1

Matrix: Solid

Lab Sample ID: 890-2910-3

Job ID: 890-2910-1

Client: Ensolum Project/Site: Windward 2H SDG: Lea County NM

Client Sample ID: BH02

Date Collected: 09/09/22 10:10 Date Received: 09/09/22 09:22

Sample Depth: 1

Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/13/22 08:23	09/13/22 16:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/13/22 08:23	09/13/22 16:02	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/13/22 08:23	09/13/22 16:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130			09/13/22 08:23	09/13/22 16:02	1
o-Terphenyl	106		70 - 130			09/13/22 08:23	09/13/22 16:02	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27.9		5.03	mg/Kg			09/14/22 10:05	1

Client Sample ID: BH02 Lab Sample ID: 890-2910-4 Date Collected: 09/09/22 10:15 Matrix: Solid

Date Received: 09/09/22 09:22

Sample Depth: 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/19/22 15:06	09/21/22 10:56	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/19/22 15:06	09/21/22 10:56	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		09/19/22 15:06	09/21/22 10:56	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		09/19/22 15:06	09/21/22 10:56	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/19/22 15:06	09/21/22 10:56	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/19/22 15:06	09/21/22 10:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130			09/19/22 15:06	09/21/22 10:56	1
1,4-Difluorobenzene (Surr)	112		70 - 130			09/19/22 15:06	09/21/22 10:56	1
Method: Total BTEX - Total BTEX	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			09/21/22 15:17	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/14/22 08:52	1
Method: 8015B NM - Diesel Rang	je Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/13/22 08:23	09/13/22 16:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/13/22 08:23	09/13/22 16:22	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/13/22 08:23	09/13/22 16:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130			09/13/22 08:23	09/13/22 16:22	1
o-Terphenyl	98		70 - 130			09/13/22 08:23	09/13/22 16:22	1

Job ID: 890-2910-1

Matrix: Solid

Client: Ensolum Project/Site: Windward 2H SDG: Lea County NM

Client Sample ID: BH02 Lab Sample ID: 890-2910-4

Date Collected: 09/09/22 10:15 Matrix: Solid Date Received: 09/09/22 09:22

Sample Depth: 2

Method: 300.0 - Anions, Ion Chromatography - Soluble									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	25.3		5.01	mg/Kg			09/14/22 10:10	1

Client Sample ID: BH03 Lab Sample ID: 890-2910-5

Date Collected: 09/09/22 10:20

Released to Imaging: 1/17/2023 2:32:42 PM

Date Received: 09/09/22 09:22

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		09/19/22 15:06	09/21/22 11:17	
Toluene	<0.00198	U	0.00198	mg/Kg		09/19/22 15:06	09/21/22 11:17	
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		09/19/22 15:06	09/21/22 11:17	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		09/19/22 15:06	09/21/22 11:17	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		09/19/22 15:06	09/21/22 11:17	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		09/19/22 15:06	09/21/22 11:17	,
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	100		70 - 130			09/19/22 15:06	09/21/22 11:17	1
1,4-Difluorobenzene (Surr)	117		70 - 130			09/19/22 15:06	09/21/22 11:17	1
Method: Total BTEX - Total BTEX	(Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			09/21/22 15:17	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/14/22 08:52	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	<50.0	U	50.0	mg/Kg		09/13/22 08:23	09/13/22 16:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/13/22 08:23	09/13/22 16:43	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/13/22 08:23	09/13/22 16:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130			09/13/22 08:23	09/13/22 16:43	1
o-Terphenyl	97		70 - 130			09/13/22 08:23	09/13/22 16:43	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
						•	•	

Matrix: Solid

Lab Sample ID: 890-2910-6

Job ID: 890-2910-1

Client: Ensolum Project/Site: Windward 2H SDG: Lea County NM

Client Sample ID: BH03

Date Collected: 09/09/22 10:30 Date Received: 09/09/22 09:22

Sample Depth: 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199	mg/Kg		09/19/22 15:06	09/21/22 11:37	
Toluene	<0.00199	U	0.00199	mg/Kg		09/19/22 15:06	09/21/22 11:37	
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		09/19/22 15:06	09/21/22 11:37	
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		09/19/22 15:06	09/21/22 11:37	
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/19/22 15:06	09/21/22 11:37	
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/19/22 15:06	09/21/22 11:37	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	85		70 - 130			09/19/22 15:06	09/21/22 11:37	
1,4-Difluorobenzene (Surr)	110		70 - 130			09/19/22 15:06	09/21/22 11:37	
Method: Total BTEX - Total BTEX	(Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00398	U	0.00398	mg/Kg			09/21/22 15:17	
Method: 8015 NM - Diesel Range Analyte	•	O) (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	- Kesuit <50.0		50.0	 		Frepareu	09/14/22 08:52	DII Fa
iotai iFii	\30.0	O	30.0	mg/Ng			09/14/22 00:32	
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/13/22 08:23	09/13/22 17:04	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/13/22 08:23	09/13/22 17:04	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/13/22 08:23	09/13/22 17:04	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	92		70 - 130			09/13/22 08:23	09/13/22 17:04	
o-Terphenyl	94		70 - 130			09/13/22 08:23	09/13/22 17:04	
Method: 300.0 - Anions, Ion Chro								
Analyte	Result	Qualifier	RL 4.98	Unit mg/Kg	D	Prepared	Analyzed	Dil Fa

Surrogate Summary

Client: Ensolum

Project/Site: Windward 2H

Job ID: 890-2910-1

SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-19019-A-1-E MS	Matrix Spike	117	114	
880-19019-A-1-F MSD	Matrix Spike Duplicate	92	112	
890-2910-1	BH01	82	116	
890-2910-2	BH01	101	108	
890-2910-3	BH02	96	110	
890-2910-4	BH02	90	112	
890-2910-5	BH03	100	117	
890-2910-6	BH03	85	110	
LCS 880-34858/1-A	Lab Control Sample	91	102	
LCSD 880-34858/2-A	Lab Control Sample Dup	94	103	
MB 880-34692/5-A	Method Blank	102	116	
WID 000-04032/0-/1		104	116	

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

DFBZ = 1,4-Difluorobenzene (Surr)

Matrix: Solid Prep Type: Total/NA

		1001	ОТРН1	Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
390-2910-1	BH01	98	102	· —— · —— · —— · —
390-2910-2	BH01	100	102	
390-2910-3	BH02	102	106	
390-2910-4	BH02	93	98	
390-2910-5	BH03	93	97	
390-2910-6	BH03	92	94	
390-2914-A-1-D MS	Matrix Spike	91	87	
890-2914-A-1-E MSD	Matrix Spike Duplicate	95	91	
LCS 880-34341/2-A	Lab Control Sample	74	84	
_CSD 880-34341/3-A	Lab Control Sample Dup	79	88	
MB 880-34341/1-A	Method Blank	102	114	

Surrogate Legend

1CO = 1-Chlorooctane OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-2910-1 Project/Site: Windward 2H SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-34692/5-A

Matrix: Solid

Analysis Batch: 34895

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 34692

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/16/22 16:15	09/20/22 17:37	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/16/22 16:15	09/20/22 17:37	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/16/22 16:15	09/20/22 17:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		09/16/22 16:15	09/20/22 17:37	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/16/22 16:15	09/20/22 17:37	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/16/22 16:15	09/20/22 17:37	1

MB MB

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed
4-Bromofluorobenzene (Surr)	102		70 - 130	_	09/16/22 16:15	09/20/22 17:37
1,4-Difluorobenzene (Surr)	116		70 - 130		09/16/22 16:15	09/20/22 17:37

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 34858

Dil Fac

Analysis Batch: 34895

Matrix: Solid

Lab Sample ID: MB 880-34858/5-A

мв мв

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/19/22 15:06	09/21/22 05:13	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/19/22 15:06	09/21/22 05:13	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/19/22 15:06	09/21/22 05:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		09/19/22 15:06	09/21/22 05:13	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/19/22 15:06	09/21/22 05:13	1
Xylenes, Total	< 0.00400	U	0.00400	mg/Kg		09/19/22 15:06	09/21/22 05:13	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepar	ed	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	09/19/22	15:06	09/21/22 05:13	1
1,4-Difluorobenzene (Surr)	116		70 - 130	09/19/22	15:06	09/21/22 05:13	1

Lab Sample ID: LCS 880-34858/1-A

Matrix: Solid

Analysis Batch: 34895

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 34858

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09802		mg/Kg	_	98	70 - 130	
Toluene	0.100	0.08583		mg/Kg		86	70 - 130	
Ethylbenzene	0.100	0.08534		mg/Kg		85	70 - 130	
m-Xylene & p-Xylene	0.200	0.1780		mg/Kg		89	70 - 130	
o-Xylene	0.100	0.08903		mg/Kg		89	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	91	70 - 130
1.4-Difluorobenzene (Surr)	102	70 - 130

Lab Sample ID: LCSD 880-34858/2-A

Matrix: Solid

Analysis Batch: 34895

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 34858

	Spike	LCSD LCSD				70KeC		KFD
Analyte	Added	Result Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09393	mg/Kg		94	70 - 130	4	35

LCCD LCCD

Cnika

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Prep Batch: 34858

Prep Batch: 34858

Prep Type: Total/NA

Client Sample ID: Matrix Spike Duplicate

QC Sample Results

Client: Ensolum Job ID: 890-2910-1 Project/Site: Windward 2H SDG: Lea County NM

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

Lab Sample ID: LCSD 880-34858/2-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 34895

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.08451		mg/Kg		85	70 - 130	2	35
Ethylbenzene	0.100	0.08316		mg/Kg		83	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.1731		mg/Kg		87	70 - 130	3	35
o-Xylene	0.100	0.08797		mg/Kg		88	70 - 130	1	35

LCSD LCSD %Recovery Qualifier Surrogate Limits 70 - 130 4-Bromofluorobenzene (Surr) 94 1,4-Difluorobenzene (Surr) 103 70 - 130

Lab Sample ID: 880-19019-A-1-E MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid Analysis Batch: 34895

ple Sample	Spike	MS	MS				%Rec
ult Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
201 U F2 F1	0.0998	0.04876	F1	mg/Kg		49	70 - 130
201 U F2 F1	0.0998	0.04594	F1	mg/Kg		46	70 - 130
201 U F2 F1	0.0998	0.04536	F1	mg/Kg		45	70 - 130
102 U F2 F1	0.200	0.09537	F1	mg/Kg		48	70 - 130
201 U F2 F1	0.0998	0.05511	F1	mg/Kg		55	70 - 130
12	nple Sample Sult Qualifier 1201 U F2 F1 1201 U F2 F1 1201 U F2 F1 1402 U F2 F1 1201 U F2 F1	Sult Qualifier Added 1201 U F2 F1 0.0998 1402 U F2 F1 0.200	Sult Qualifier Added Result 1201 U F2 F1 0.0998 0.04876 1201 U F2 F1 0.0998 0.04594 1201 U F2 F1 0.0998 0.04536 1402 U F2 F1 0.200 0.09537	Sult Qualifier Added Result Qualifier 1201 U F2 F1 0.0998 0.04876 F1 1201 U F2 F1 0.0998 0.04594 F1 1201 U F2 F1 0.0998 0.04536 F1 1402 U F2 F1 0.200 0.09537 F1	Sult visult Qualifier Added Added Result Result Qualifier Unit 1/201 U F2 F1 0.0998 0.04876 F1 mg/Kg 1/201 U F2 F1 0.0998 0.04594 F1 mg/Kg 1/201 U F2 F1 0.0998 0.04536 F1 mg/Kg 1/202 U F2 F1 0.200 0.09537 F1 mg/Kg	Added Result Qualifier Unit D 1201 U F2 F1 0.0998 0.04876 F1 mg/Kg 1201 U F2 F1 0.0998 0.04594 F1 mg/Kg 1201 U F2 F1 0.0998 0.04536 F1 mg/Kg 1402 U F2 F1 0.200 0.09537 F1 mg/Kg	Sult Sult Sult Sult Sult Sult Sult Sult

MS MS Surrogate %Recovery Qualifier Limits 70 - 130 4-Bromofluorobenzene (Surr) 117 1,4-Difluorobenzene (Surr) 70 - 130 114

Lab Sample ID: 880-19019-A-1-F MSD

Matrix: Solid

Analysis Batch: 34895									Prep	Batch:	34858
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U F2 F1	0.0990	0.1026	F2	mg/Kg		104	70 - 130	71	35
Toluene	<0.00201	U F2 F1	0.0990	0.08240	F2	mg/Kg		83	70 - 130	57	35
Ethylbenzene	<0.00201	U F2 F1	0.0990	0.07768	F2	mg/Kg		78	70 - 130	53	35
m-Xylene & p-Xylene	<0.00402	U F2 F1	0.198	0.1614	F2	mg/Kg		82	70 - 130	51	35
o-Xylene	<0.00201	U F2 F1	0.0990	0.08266	F2	mg/Kg		83	70 - 130	40	35

MSD MSD %Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 92 70 - 130 112 1,4-Difluorobenzene (Surr) 70 - 130

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

Lab Sample ID: MB 880-34341/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 34338

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		09/13/22 08:23	09/13/22 09:38	1

(GRO)-C6-C10

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Prep Batch: 34341

Client: Ensolum Job ID: 890-2910-1 Project/Site: Windward 2H SDG: Lea County NM

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

Lab Sample ID: MB 880-34341/1-A **Matrix: Solid**

Lab Sample ID: LCS 880-34341/2-A

Analysis Batch: 34338

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 34341

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		09/13/22 08:23	09/13/22 09:38	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/13/22 08:23	09/13/22 09:38	1

MB MB

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	09/13/22 08:23	09/13/22 09:38	1
o-Terphenyl	114		70 - 130	09/13/22 08:23	09/13/22 09:38	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Unit

mg/Kg

mg/Kg

Prep Batch: 34341

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 948.0 95 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 846.8 mg/Kg 85 70 - 130

C10-C28)

Analyte

C10-C28)

(GRO)-C6-C10

Matrix: Solid

Analysis Batch: 34338

LCS LCS

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	74	70 - 130
o-Terphenyl	84	70 - 130

Lab Sample ID: LCSD 880-34341/3-A Client Sample ID: Lab Control Sample Dup

LCSD LCSD

893.7

800.1

Result Qualifier

Spike

Added

1000

1000

Matrix: Solid

Gasoline Range Organics

Diesel Range Organics (Over

Analysis Batch: 34338

Prep Type: Total/NA Prep Batch: 34341

70 - 130

%Rec

89

80

D

%Rec RPD Limits RPD Limit 70 - 130 20

6

20

	LCSD LCSD	
Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	79	70 - 130
o-Ternhenyl	88	70 130

Lab Sample ID: 890-2914-A-1-D MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 34338

Prep Type: Total/NA

Prep Batch: 34341

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.9	U	996	827.2		mg/Kg		80	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.9	U	996	738.7		mg/Kg		74	70 - 130	
C10-C28)										

	IVIS	IVIS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	91		70 - 130
o-Terphenyl	87		70 - 130

Job ID: 890-2910-1

Client: Ensolum Project/Site: Windward 2H SDG: Lea County NM

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

Lab Sample ID: 890-2914-A-1-E MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 34338 Prep Batch: 34341

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	<49.9	U	999	867.5		mg/Kg		84	70 - 130	5	20	
(GRO)-C6-C10												
Diesel Range Organics (Over	<49.9	U	999	783.4		mg/Kg		78	70 - 130	6	20	
0.4.0.0003												

C10-C28)

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	91		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-34104/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 34474

мв мв

Analyte	Result Qua	alifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00 U	5.00	mg/Kg			09/14/22 08:57	1

Lab Sample ID: LCS 880-34104/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 34474

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	 250	238.3		mg/Kg		95	90 - 110	

Lab Sample ID: LCSD 880-34104/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 34474

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	238.8		ma/Ka		96	90 110		20	

Lab Sample ID: 890-2910-6 MS Client Sample ID: BH03 **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 34474

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	70.8		2/10	319.6		ma/Ka		100	90 110	

Lab Sample ID: 890-2910-6 MSD

Matrix: Solid

Analysis Batch: 34474

-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	70.8		249	319.0		mg/Kg		100	90 - 110	0	20

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Client Sample ID: BH03

Prep Type: Soluble

Client: Ensolum
Project/Site: Windward 2H

Job ID: 890-2910-1 SDG: Lea County NM

GC VOA

Prep Batch: 34692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-34692/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 34858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2910-1	BH01	Total/NA	Solid	5035	
890-2910-2	BH01	Total/NA	Solid	5035	
890-2910-3	BH02	Total/NA	Solid	5035	
890-2910-4	BH02	Total/NA	Solid	5035	
890-2910-5	BH03	Total/NA	Solid	5035	
890-2910-6	BH03	Total/NA	Solid	5035	
MB 880-34858/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-34858/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-34858/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-19019-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
880-19019-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 34895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2910-1	BH01	Total/NA	Solid	8021B	34858
890-2910-2	BH01	Total/NA	Solid	8021B	34858
890-2910-3	BH02	Total/NA	Solid	8021B	34858
890-2910-4	BH02	Total/NA	Solid	8021B	34858
890-2910-5	BH03	Total/NA	Solid	8021B	34858
890-2910-6	BH03	Total/NA	Solid	8021B	34858
MB 880-34692/5-A	Method Blank	Total/NA	Solid	8021B	34692
MB 880-34858/5-A	Method Blank	Total/NA	Solid	8021B	34858
LCS 880-34858/1-A	Lab Control Sample	Total/NA	Solid	8021B	34858
LCSD 880-34858/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	34858
880-19019-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	34858
880-19019-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	34858

Analysis Batch: 35087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2910-1	BH01	Total/NA	Solid	Total BTEX	· <u></u> -
890-2910-2	BH01	Total/NA	Solid	Total BTEX	
890-2910-3	BH02	Total/NA	Solid	Total BTEX	
890-2910-4	BH02	Total/NA	Solid	Total BTEX	
890-2910-5	BH03	Total/NA	Solid	Total BTEX	
890-2910-6	BH03	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 34338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2910-1	BH01	Total/NA	Solid	8015B NM	34341
890-2910-2	BH01	Total/NA	Solid	8015B NM	34341
890-2910-3	BH02	Total/NA	Solid	8015B NM	34341
890-2910-4	BH02	Total/NA	Solid	8015B NM	34341
890-2910-5	BH03	Total/NA	Solid	8015B NM	34341
890-2910-6	BH03	Total/NA	Solid	8015B NM	34341
MB 880-34341/1-A	Method Blank	Total/NA	Solid	8015B NM	34341

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Client: Ensolum

Job ID: 890-2910-1

Project/Site: Windward 2H

SDG: Lea County NM

GC Semi VOA (Continued)

Analysis Batch: 34338 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-34341/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	34341
LCSD 880-34341/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	34341
890-2914-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	34341
890-2914-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	34341

Prep Batch: 34341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2910-1	BH01	Total/NA	Solid	8015NM Prep	
890-2910-2	BH01	Total/NA	Solid	8015NM Prep	
890-2910-3	BH02	Total/NA	Solid	8015NM Prep	
890-2910-4	BH02	Total/NA	Solid	8015NM Prep	
890-2910-5	BH03	Total/NA	Solid	8015NM Prep	
890-2910-6	BH03	Total/NA	Solid	8015NM Prep	
MB 880-34341/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-34341/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-34341/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2914-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2914-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 34447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2910-1	BH01	Total/NA	Solid	8015 NM	
890-2910-2	BH01	Total/NA	Solid	8015 NM	
890-2910-3	BH02	Total/NA	Solid	8015 NM	
890-2910-4	BH02	Total/NA	Solid	8015 NM	
890-2910-5	BH03	Total/NA	Solid	8015 NM	
890-2910-6	BH03	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 34104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2910-1	BH01	Soluble	Solid	DI Leach	
890-2910-2	BH01	Soluble	Solid	DI Leach	
890-2910-3	BH02	Soluble	Solid	DI Leach	
890-2910-4	BH02	Soluble	Solid	DI Leach	
890-2910-5	BH03	Soluble	Solid	DI Leach	
890-2910-6	BH03	Soluble	Solid	DI Leach	
MB 880-34104/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-34104/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-34104/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2910-6 MS	BH03	Soluble	Solid	DI Leach	
890-2910-6 MSD	BH03	Soluble	Solid	DI Leach	

Analysis Batch: 34474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2910-1	BH01	Soluble	Solid	300.0	34104
890-2910-2	BH01	Soluble	Solid	300.0	34104
890-2910-3	BH02	Soluble	Solid	300.0	34104
890-2910-4	BH02	Soluble	Solid	300.0	34104
890-2910-5	BH03	Soluble	Solid	300.0	34104

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9/21/2022

Client: Ensolum
Project/Site: Windward 2H

Job ID: 890-2910-1
SDG: Lea County NM

HPLC/IC (Continued)

Analysis Batch: 34474 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2910-6	BH03	Soluble	Solid	300.0	34104
MB 880-34104/1-A	Method Blank	Soluble	Solid	300.0	34104
LCS 880-34104/2-A	Lab Control Sample	Soluble	Solid	300.0	34104
LCSD 880-34104/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	34104
890-2910-6 MS	BH03	Soluble	Solid	300.0	34104
890-2910-6 MSD	BH03	Soluble	Solid	300.0	34104

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Client Sample ID: BH01

Project/Site: Windward 2H

Client: Ensolum

Lab Sample ID: 890-2910-1

Matrix: Solid

Date Collected: 09/09/22 10:00 Date Received: 09/09/22 09:22

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	34858	09/19/22 15:06	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34895	09/21/22 08:25	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35087	09/21/22 15:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			34447	09/14/22 08:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	34341	09/13/22 08:23	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34338	09/13/22 15:20	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	34104	09/09/22 12:32	KS	EET MID
Soluble	Analysis	300.0		1			34474	09/14/22 09:56	CH	EET MID

Client Sample ID: BH01 Lab Sample ID: 890-2910-2 Matrix: Solid

Date Collected: 09/09/22 10:05 Date Received: 09/09/22 09:22

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	34858	09/19/22 15:06	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34895	09/21/22 08:45	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35087	09/21/22 15:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			34447	09/14/22 08:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	34341	09/13/22 08:23	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34338	09/13/22 15:41	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	34104	09/09/22 12:32	KS	EET MID
Soluble	Analysis	300.0		1			34474	09/14/22 10:01	CH	EET MID

Client Sample ID: BH02

Lab Sample ID: 890-2910-3 Date Collected: 09/09/22 10:10 **Matrix: Solid** Date Received: 09/09/22 09:22

	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	34858	09/19/22 15:06	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34895	09/21/22 10:36	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35087	09/21/22 15:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			34447	09/14/22 08:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34341	09/13/22 08:23	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34338	09/13/22 16:02	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	34104	09/09/22 12:32	KS	EET MID
Soluble	Analysis	300.0		1			34474	09/14/22 10:05	CH	EET MID

Client Sample ID: BH02

Date Collected: 09/09/22 10:15 **Matrix: Solid** Date Received: 09/09/22 09:22

	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	34858	09/19/22 15:06	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34895	09/21/22 10:56	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35087	09/21/22 15:17	SM	EET MID

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Lab Sample ID: 890-2910-4

Client: Ensolum

Job ID: 890-2910-1

Project/Site: Windward 2H SDG: Lea County NM **Client Sample ID: BH02** Lab Sample ID: 890-2910-4

Date Collected: 09/09/22 10:15 Matrix: Solid Date Received: 09/09/22 09:22

	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			34447	09/14/22 08:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	34341	09/13/22 08:23	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34338	09/13/22 16:22	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	34104	09/09/22 12:32	KS	EET MID
Soluble	Analysis	300.0		1			34474	09/14/22 10:10	CH	EET MID

Client Sample ID: BH03 Lab Sample ID: 890-2910-5

Date Collected: 09/09/22 10:20 **Matrix: Solid**

Date Received: 09/09/22 09:22

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	34858	09/19/22 15:06	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34895	09/21/22 11:17	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35087	09/21/22 15:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			34447	09/14/22 08:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34341	09/13/22 08:23	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34338	09/13/22 16:43	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	34104	09/09/22 12:32	KS	EET MID
Soluble	Analysis	300.0		1			34474	09/14/22 10:15	CH	EET MID

Client Sample ID: BH03 Lab Sample ID: 890-2910-6

Date Collected: 09/09/22 10:30 Date Received: 09/09/22 09:22

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	34858	09/19/22 15:06	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	34895	09/21/22 11:37	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35087	09/21/22 15:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			34447	09/14/22 08:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34341	09/13/22 08:23	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34338	09/13/22 17:04	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	34104	09/09/22 12:32	KS	EET MID
Soluble	Analysis	300.0		1			34474	09/14/22 10:20	CH	EET MID

Laboratory References:

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

Matrix: Solid

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Windward 2H

Job ID: 890-2910-1
SDG: Lea County NM

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	T104704400-22-24	06-30-23
The following analytes	are included in this report, but	t the laboratory is not certific	ed by the governing authority. This list ma	av include analytes fo
the agency does not of	• •	it the laboratory is not certific	su by the governing authority. This list his	ay include analytes to
,	• •	Matrix	Analyte	ay include analytes to
the agency does not of	fer certification.	,	, , ,	ay illoude allalytes lo

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Method Summary

Client: Ensolum Project/Site: Windward 2H Job ID: 890-2910-1

SDG: Lea County NM

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: Windward 2H

Job ID: 890-2910-1

SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2910-1	BH01	Solid	09/09/22 10:00	09/09/22 09:22	1
890-2910-2	BH01	Solid	09/09/22 10:05	09/09/22 09:22	2
890-2910-3	BH02	Solid	09/09/22 10:10	09/09/22 09:22	1
890-2910-4	BH02	Solid	09/09/22 10:15	09/09/22 09:22	2
890-2910-5	BH03	Solid	09/09/22 10:20	09/09/22 09:22	1
890-2910-6	BH03	Solid	09/09/22 10:30	09/09/22 09:22	2

Date/Time

Received by: (Signature)

Relinquished by: (Signature)

Pate/Time

Received by: (Signature)

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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

Environment Testing

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Work Order No:

											W	www.xenco.com	Page	or
Project Manager: Jo	Joe Gable			Bill to: (if	(if different)	S	Joe Gable					Work Order Comments	omments	
	Ensolum			Company Name	/ Name:	Ē	Ensolum				Program: UST/PST	☐ PRP☐ Brownfields ☐ RRC [fields 🗌 RRC	☐ Superfund ☐
	3122 National Parks Hwy	Hwy.		Address:		31	3122 National Parks Hwy	mal Pan	ks Hwy.		State of Project:			
e ZIP:	Carlsbad, NM 88220			City, State ZIP:	e ZIP:	Ö	Carlsbad, NM 88220	NM 882	50		Reporting: Level II	Level III PST/I	UST [] TRRP	☐ Level IV☐
	903-386-8073		Email	Email: igable@ensolum.com	ensolun	n.com					Deliverables: EDD	☐ ADaPT ☐	Other:	
Project Name:	Windward 2H	¥	Tur	Turn Around						ANALYSIS	ANALYSIS REQUEST		Preserva	Preservative Codes
Project Number:	03D2024080	180	✓ Routine	Rush		Pres. Code						_	None: NO	DI Water: H ₂ O
Project Location:	Lea County, NM	NZ Z	Due Date:	5 Day TAT	TAT							<u> </u>	Cool: Cool	MeOH: Me
Sampler's Name:	Liz Cheli N/A		TAT starts the day received by the lab, if received by 4:30pm	ne day rece ceived by 4	eived by 4:30pm	SJ							HCL: HC H₂S04: H₂	HNO ₃ : HN NaOH: Na
SAMPLE RECEIPT	T Tomp Blank:	(Ves) No	Wet Ice:	3	ş	eten (0	(n·					<u>+</u>	H₃PO₄: HP	
Samples Received Intact:	(Yes) N	Thermometer ID:	er ID:	NWO	100		200					Z :	NaHSO4: NABIS	
Cooler Custody Seals:	Yes No (N/A	N/A Correction Factor:	Factor:	0	CO	-	:A-1:					<u> </u>	Na ₂ S ₂ O ₃ : NaSO ₃	
Sample Custody Seals:	Yes No NA.	Temperature Reading:	e Reading:	1.		_, 3	_			0167-060	osu-zellu Chain of Custody	2	Zn Acetate+NaOH: Zn	H: Zu
Total Containers:		Corrected	Corrected Temperature:	-	7		-	_		_	_	<u>-</u>	NaOH+Ascorbic Acid: SAPC	Acid: SAPC
Sample Identification	ication Matrix	Date Sampled	Time	Depth	Grab/ #	Cont	CHLOR TPH (8) хэта					Sample C	Sample Comments
BH01	S	9/9/2022	1000	1.	Grab/	-	×	×					INCIDENT NUMBER	MPEC:
BH01	S	9/9/2022	1005	2.	Grab/	-	×	×					NAPP227234789	トルタイト
BH02	S	9/9/2022	1010	1.	Grab/	-	×	×						
BH02	S	9/9/2022	1015	2'	Grab/	-	×	×						
BH03	S	9/9/2022	1020	1,	Grab/	-	×	×						
BH03	S	9/9/2022	1030	2'	Grab/	-	×	×						
						\dashv								
							_		Y	1				
				1		-			1					
Total 200.7 / 6010	0 200.8 / 6020:		BRCRA 13	13PPM Te	exas 11	Al Sb	Sb As Ba	æ	B Cd Ca	Cr Co Cu Fe	Pb Mg Mn Mo Ni K	Se Ag SiO ₂ Na	Sr TI Sn U	V Zn
Circle Method(s) and Metal(s) to be analyzed	Metal(s) to be anal	lyzed	TCLP / ;	TCLP / SPLP 6010: 8RCRA	0: 8RC		As E	a Be	JO PS	Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni	MoNiSe Ag TIU	Hg: 1631 / 2	245.1 / 7470 /	/ 7471
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase	cument and relinquishmer	nt of samples co	nstitutes a valid	I purchase o	der from c	for any	pany to E	urofins X	enco, its af	iliates and subcontra	order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions are accounted by the client if such losses are due to circumstances beyond the control	and conditions		
of Eurofins Xenco. A minim	um charge of \$85.00 will t	be applied to eac	h project and a	charge of \$4	for each s	ample su	bmitted to	Eurofins	Xenco, bu	not analyzed. These	or Eurofins Xenco. A minimum charge of \$55.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	viously negotiated.		

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-2910-1 SDG Number: Lea County NM

Login Number: 2910 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	

Eurofins Carlsbad

Released to Imaging: 1/17/2023 2:32:42 PM

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-2910-1 SDG Number: Lea County NM

List Source: Eurofins Midland

Login Number: 2910 List Number: 2 List Creation: 09/12/22 09:08 AM

Creator: Rodriguez, Leticia

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

<6mm (1/4").



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2911-1

Laboratory Sample Delivery Group: Lea County NM

Client Project/Site: Windward 2H

For:

eurofins

Ensolum 2351 W. Northwest Hwy **Suite 1203** Dallas, Texas 75220

Attn: Joe Gable

RAMER

9/22/2022 4:43:07 PM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

Authorized for release by:

Have a Question?

EOL

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Review your project results through

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This report has been electronically signed and authorized by the signatory. Electronic

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

Client: Ensolum

Project/Site: Windward 2H

Laboratory Job ID: 890-2911-1

SDG: Lea County NM

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Definitions/Glossary

Job ID: 890-2911-1 Client: Ensolum Project/Site: Windward 2H SDG: Lea County NM

Qualifiers

GC VOA Qualifier

F1 MS and/or MSD recovery exceeds control limits. F2 MS/MSD RPD exceeds control limits S1+ Surrogate recovery exceeds control limits, high biased. U Indicates the analyte was analyzed for but not detected.

Qualifier Description

GC Semi VOA

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

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

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

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

DFR Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

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

Decision Level Concentration (Radiochemistry) DLC

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

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

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

Not Calculated

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

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

PRES Presumptive

QC

Quality Control RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Eurofins Carlsbad

9/22/2022

Case Narrative

Job ID: 890-2911-1 Client: Ensolum Project/Site: Windward 2H SDG: Lea County NM

Job ID: 890-2911-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2911-1

Receipt

The samples were received on 9/9/2022 9:22 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.2°C

Receipt Exceptions

The container label for the following samples did not match the information listed on the Chain-of-Custody (COC): FS01 (890-2911-1), FS02 (890-2911-2), FS03 (890-2911-3), FS04 (890-2911-4), FS05 (890-2911-5), FS06 (890-2911-6), FS07 (890-2911-7) and FS08 (890-2911-8). The container labels list <SAMPLE ID>, while the COC lists <SAMPLEID>. The client was contacted, and the lab was instructed to <EXPLANATION_REQUIRED>. samples were taken on 9-8-22 not 9-9-22

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-34943 and analytical batch 880-35129 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (890-2911-A-1-F MS). 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

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

HPLC/IC

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

Lab Sample ID: 890-2911-1

Client Sample Results

Client: Ensolum Job ID: 890-2911-1 Project/Site: Windward 2H SDG: Lea County NM

Client Sample ID: FS01

Date Collected: 09/08/22 12:45 Date Received: 09/09/22 09:22

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F2 F1	0.00200	mg/Kg		09/20/22 13:33	09/22/22 12:02	1
Toluene	<0.00200	U F2 F1	0.00200	mg/Kg		09/20/22 13:33	09/22/22 12:02	1
Ethylbenzene	<0.00200	U F2 F1	0.00200	mg/Kg		09/20/22 13:33	09/22/22 12:02	1
m-Xylene & p-Xylene	<0.00399	U F2 F1	0.00399	mg/Kg		09/20/22 13:33	09/22/22 12:02	1
o-Xylene	<0.00200	U F2 F1	0.00200	mg/Kg		09/20/22 13:33	09/22/22 12:02	1
Xylenes, Total	<0.00399	U F2 F1	0.00399	mg/Kg		09/20/22 13:33	09/22/22 12:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130			09/20/22 13:33	09/22/22 12:02	
1,4-Difluorobenzene (Surr)	79		70 - 130			09/20/22 13:33	09/22/22 12:02	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			09/22/22 13:52	1
	•	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Total TPH	Result <50.0	Qualifier	RL 50.0	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 09/13/22 09:59	
Total TPH	<50.0	Qualifier U			<u>D</u>	Prepared		
Total TPH Method: 8015B NM - Diesel Ran	<50.0	Qualifier U RO) (GC)	50.0	mg/Kg	<u> </u>		09/13/22 09:59	1
Total TPH Method: 8015B NM - Diesel Ran Analyte	<50.0	Qualifier U RO) (GC) Qualifier			<u>D</u>	Prepared Prepared 09/12/22 08:43		Dil Fac
Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10	<50.0 ge Organics (Di Result <50.0	Qualifier U RO) (GC) Qualifier U	50.0 RL 50.0	mg/Kg Unit mg/Kg	<u> </u>	Prepared 09/12/22 08:43	09/13/22 09:59 Analyzed 09/12/22 17:28	Dil Fac
<u> </u>	<50.0 ge Organics (D	Qualifier U RO) (GC) Qualifier U	50.0	mg/Kg	<u> </u>	Prepared	09/13/22 09:59 Analyzed	Dil Fac
Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<50.0 ge Organics (Di Result <50.0	Qualifier U RO) (GC) Qualifier U	50.0 RL 50.0	mg/Kg Unit mg/Kg	<u> </u>	Prepared 09/12/22 08:43	09/13/22 09:59 Analyzed 09/12/22 17:28	Dil Fac
Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<50.0 ge Organics (Di Result <50.0 <50.0	Qualifier U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg	<u> </u>	Prepared 09/12/22 08:43	09/13/22 09:59 Analyzed 09/12/22 17:28 09/12/22 17:28	Dil Fac
Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<50.0 ge Organics (D) Result <50.0 <50.0 <50.0	Qualifier U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg	<u> </u>	Prepared 09/12/22 08:43 09/12/22 08:43	09/13/22 09:59 Analyzed 09/12/22 17:28 09/12/22 17:28	Dil Face
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	<50.0 ge Organics (D) Result <50.0 <50.0 <50.0 %Recovery	Qualifier U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0 50.0 Limits	mg/Kg Unit mg/Kg mg/Kg	<u> </u>	Prepared 09/12/22 08:43 09/12/22 08:43 09/12/22 08:43 Prepared	09/13/22 09:59 Analyzed 09/12/22 17:28 09/12/22 17:28 09/12/22 17:28 Analyzed	Dil Fac
Total TPH Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<50.0 ge Organics (D) Result <50.0 <50.0 <50.0 <50.0 *Recovery 119 107	Qualifier U RO) (GC) Qualifier U U Qualifier	50.0 RL 50.0 50.0 50.0 Limits 70 - 130	mg/Kg Unit mg/Kg mg/Kg	<u> </u>	Prepared 09/12/22 08:43 09/12/22 08:43 09/12/22 08:43 Prepared 09/12/22 08:43	09/13/22 09:59 Analyzed 09/12/22 17:28 09/12/22 17:28 Analyzed 09/12/22 17:28	Dil Fac
Total TPH Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<50.0 ge Organics (D) Result <50.0 <50.0 <50.0 <50.0 *Recovery 119 107 omatography -	Qualifier U RO) (GC) Qualifier U U Qualifier	50.0 RL 50.0 50.0 50.0 Limits 70 - 130	mg/Kg Unit mg/Kg mg/Kg	<u> </u>	Prepared 09/12/22 08:43 09/12/22 08:43 09/12/22 08:43 Prepared 09/12/22 08:43	09/13/22 09:59 Analyzed 09/12/22 17:28 09/12/22 17:28 Analyzed 09/12/22 17:28	Dil Fac

Client Sample ID: FS02

Date Collected: 09/08/22 12:50

Date Received: 09/09/22 09:22

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/20/22 13:33	09/22/22 12:23	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/20/22 13:33	09/22/22 12:23	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/20/22 13:33	09/22/22 12:23	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		09/20/22 13:33	09/22/22 12:23	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/20/22 13:33	09/22/22 12:23	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/20/22 13:33	09/22/22 12:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			09/20/22 13:33	09/22/22 12:23	1

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Lab Sample ID: 890-2911-2

Matrix: Solid

Job ID: 890-2911-1

Client: Ensolum Project/Site: Windward 2H SDG: Lea County NM

Client Sample ID: FS02 Lab Sample ID: 890-2911-2 Date Collected: 09/08/22 12:50 Date Received: 09/09/22 09:22

Sample Depth: 1

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

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	82	70 - 130	09/20/22 13:33	09/22/22 12:23	1

Method: Total	BTEX -	Total BTEX	Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			09/22/22 13:52	1

П				
ı	Method: 8015 NM	Diocal Rand	no Organice	(DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			09/13/22 09:59	1

Method: 8015B	NM Discol	Dange Ore	aaniee (DD()) (CC)
MICHIOU. OU IOD	INIVI - DIESEI	Rallue Oli	ualiics lunc	JI (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/12/22 08:43	09/12/22 17:49	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/12/22 08:43	09/12/22 17:49	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/12/22 08:43	09/12/22 17:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Pr	repared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	09/12	2/22 08:43	09/12/22 17:49	1
o-Terphenyl	94		70 - 130	09/12	2/22 08:43	09/12/22 17:49	1

Method: 300.0 - Anions, lor	n Chromatography - Soluble

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.1	5.00	mg/Kg			09/14/22 10:39	1

Client Sample ID: FS03 Lab Sample ID: 890-2911-3 Matrix: Solid

Date Collected: 09/08/22 13:00 Date Received: 09/09/22 09:22

Sample Depth: 1

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

Michiga. 002 1D - Volatile Orga	ine compounds	(30)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		09/20/22 13:33	09/22/22 12:43	1
Toluene	<0.00198	U	0.00198	mg/Kg		09/20/22 13:33	09/22/22 12:43	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		09/20/22 13:33	09/22/22 12:43	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		09/20/22 13:33	09/22/22 12:43	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		09/20/22 13:33	09/22/22 12:43	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		09/20/22 13:33	09/22/22 12:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130			09/20/22 13:33	09/22/22 12:43	1
1,4-Difluorobenzene (Surr)	88		70 - 130			09/20/22 13:33	09/22/22 12:43	1

Method:	Total R	TFY - T	ntal RT	FX Calcu	ılation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00396	U	0.00396	ma/Ka			09/22/22 13:52	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/13/22 09:59	1

Lab Sample ID: 890-2911-3

Client Sample Results

Client: Ensolum Job ID: 890-2911-1 Project/Site: Windward 2H SDG: Lea County NM

Client Sample ID: FS03

Date Collected: 09/08/22 13:00 Date Received: 09/09/22 09:22

Sample Depth: 1

Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/12/22 08:43	09/12/22 18:11	,
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/12/22 08:43	09/12/22 18:11	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/12/22 08:43	09/12/22 18:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130			09/12/22 08:43	09/12/22 18:11	1
o-Terphenyl	92		70 - 130			09/12/22 08:43	09/12/22 18:11	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.74		4.99	mg/Kg			09/14/22 10:54	1

Client Sample ID: FS04 Lab Sample ID: 890-2911-4 Date Collected: 09/08/22 13:15 Matrix: Solid

Date Received: 09/09/22 09:22

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		09/20/22 13:33	09/22/22 13:04	1
Toluene	<0.00198	U	0.00198	mg/Kg		09/20/22 13:33	09/22/22 13:04	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		09/20/22 13:33	09/22/22 13:04	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		09/20/22 13:33	09/22/22 13:04	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		09/20/22 13:33	09/22/22 13:04	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		09/20/22 13:33	09/22/22 13:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130			09/20/22 13:33	09/22/22 13:04	1
1,4-Difluorobenzene (Surr)	112		70 - 130			09/20/22 13:33	09/22/22 13:04	1
Method: Total BTEX - Total BTEX	(Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			09/22/22 13:52	1
Total BTEX Method: 8015 NM - Diesel Range			0.00397	mg/Kg			09/22/22 13:52	1
-	Organics (DR		0.00397	mg/Kg Unit	D	Prepared	09/22/22 13:52 Analyzed	
: Method: 8015 NM - Diesel Range	Organics (DR	O) (GC) Qualifier			<u>D</u>	Prepared		Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH	e Organics (DR) Result < 49.9	O) (GC) Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang	Organics (DR Result <49.9	O) (GC) Qualifier	RL	Unit	D	Prepared Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte	Organics (DR Result <49.9	Qualifier U RO) (GC) Qualifier	RL 49.9	Unit mg/Kg		<u> </u>	Analyzed 09/13/22 09:59	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10	e Organics (DR Result <49.9 ge Organics (Di Result <49.9	Qualifier U RO) (GC) Qualifier U	RL 49.9	Unit mg/Kg Unit mg/Kg		Prepared 09/12/22 08:43	Analyzed 09/13/22 09:59 Analyzed 09/12/22 18:32	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics	e Organics (DR Result <49.9 ge Organics (DI Result	Qualifier U RO) (GC) Qualifier U	RL 49.9	Unit mg/Kg		Prepared	Analyzed 09/13/22 09:59 Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	e Organics (DR Result <49.9 ge Organics (Di Result <49.9	Qualifier U RO) (GC) Qualifier U U U U	RL 49.9	Unit mg/Kg Unit mg/Kg		Prepared 09/12/22 08:43	Analyzed 09/13/22 09:59 Analyzed 09/12/22 18:32	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	e Organics (DR Result <49.9 ge Organics (Di Result <49.9	Qualifier U RO) (GC) Qualifier U U U U	RL 49.9 RL 49.9 49.9	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 09/12/22 08:43 09/12/22 08:43	Analyzed 09/13/22 09:59 Analyzed 09/12/22 18:32 09/12/22 18:32	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	ge Organics (DR/sesult <49.9 Result <49.9 Ge Organics (D/sesult <49.9 <49.9 <49.9	Qualifier U RO) (GC) Qualifier U U U U	RL 49.9 RL 49.9 49.9 49.9	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 09/12/22 08:43 09/12/22 08:43	Analyzed 09/13/22 09:59 Analyzed 09/12/22 18:32 09/12/22 18:32	Dil Fac Dil Fac 1

Job ID: 890-2911-1

Matrix: Solid

Client: Ensolum Project/Site: Windward 2H SDG: Lea County NM

Client Sample ID: FS04 Lab Sample ID: 890-2911-4 Date Collected: 09/08/22 13:15

Matrix: Solid

Date Received: 09/09/22 09:22 Sample Depth: 1

Method: 300.0 - Anions, Ion Chromatography - Soluble									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	17.5		4.96	mg/Kg			09/14/22 10:59	1

Client Sample ID: FS05 Lab Sample ID: 890-2911-5

Date Collected: 09/08/22 13:50

Date Received: 09/09/22 09:22

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199	mg/Kg		09/20/22 13:33	09/22/22 13:24	
Toluene	< 0.00199	U	0.00199	mg/Kg		09/20/22 13:33	09/22/22 13:24	
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		09/20/22 13:33	09/22/22 13:24	
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		09/20/22 13:33	09/22/22 13:24	
o-Xylene	< 0.00199	U	0.00199	mg/Kg		09/20/22 13:33	09/22/22 13:24	
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/20/22 13:33	09/22/22 13:24	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	107		70 - 130			09/20/22 13:33	09/22/22 13:24	
1,4-Difluorobenzene (Surr)	81		70 - 130			09/20/22 13:33	09/22/22 13:24	:
Method: Total BTEX - Total BTEX	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			09/22/22 13:52	•
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			09/13/22 09:59	
Method: 8015B NM - Diesel Rang	na Ornaniaa (D							
metriod. Of 19D MM - Diesel Kall	ge Organics (D.	RO) (GC)						
_		RO) (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Gasoline Range Organics		Qualifier	RL 49.8	Unit mg/Kg	D	Prepared 09/12/22 08:43	Analyzed 09/12/22 18:54	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U			<u>D</u>			
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.8	Qualifier U	49.8	mg/Kg	<u>D</u>	09/12/22 08:43	09/12/22 18:54	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.8 <49.8	Qualifier U U U	49.8	mg/Kg	<u>D</u>	09/12/22 08:43 09/12/22 08:43	09/12/22 18:54 09/12/22 18:54	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <49.8 <49.8 <49.8	Qualifier U U U	49.8 49.8 49.8	mg/Kg	<u>D</u>	09/12/22 08:43 09/12/22 08:43 09/12/22 08:43	09/12/22 18:54 09/12/22 18:54 09/12/22 18:54	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <49.8 <49.8 <49.8 <49.8 <49.8 %Recovery	Qualifier U U U	49.8 49.8 49.8 <i>Limits</i>	mg/Kg	<u> </u>	09/12/22 08:43 09/12/22 08:43 09/12/22 08:43 Prepared	09/12/22 18:54 09/12/22 18:54 09/12/22 18:54 Analyzed	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate	Result	Qualifier U U Qualifier	49.8 49.8 49.8 Limits 70 - 130	mg/Kg	<u>D</u>	09/12/22 08:43 09/12/22 08:43 09/12/22 08:43 Prepared 09/12/22 08:43	09/12/22 18:54 09/12/22 18:54 09/12/22 18:54 09/12/22 18:54 Analyzed 09/12/22 18:54	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U Qualifier	49.8 49.8 49.8 Limits 70 - 130	mg/Kg	<u>D</u>	09/12/22 08:43 09/12/22 08:43 09/12/22 08:43 Prepared 09/12/22 08:43	09/12/22 18:54 09/12/22 18:54 09/12/22 18:54 09/12/22 18:54 Analyzed 09/12/22 18:54	Dil Fa

Lab Sample ID: 890-2911-6

Job ID: 890-2911-1 SDG: Lea County NM

Client Sample ID: FS06

Project/Site: Windward 2H

Date Collected: 09/08/22 14:00 Date Received: 09/09/22 09:22

Sample Depth: 0.5

Client: Ensolum

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/20/22 13:33	09/22/22 13:45	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/20/22 13:33	09/22/22 13:45	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/20/22 13:33	09/22/22 13:45	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		09/20/22 13:33	09/22/22 13:45	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/20/22 13:33	09/22/22 13:45	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/20/22 13:33	09/22/22 13:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			09/20/22 13:33	09/22/22 13:45	1
1,4-Difluorobenzene (Surr)	83		70 - 130			09/20/22 13:33	09/22/22 13:45	1
- Method: Total BTEX - Total BTE	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			09/22/22 13:52	1
Analyte	Result	Qualifier						
			RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	141		50.0	mg/Kg	— D	Prepared	Analyzed 09/13/22 09:59	
	141					Prepared		
Method: 8015B NM - Diesel Ran	141 ge Organics (D				D	Prepared		1
Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics	141 ge Organics (D	RO) (GC) Qualifier	50.0	mg/Kg	<u> </u>	<u> </u>	09/13/22 09:59	1 Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (D Result	RO) (GC) Qualifier	50.0	mg/Kg	<u> </u>	Prepared	09/13/22 09:59 Analyzed	Dil Fac
Method: 8015B NM - Diesel Ran- Analyte Gasoline Range Organics (GRO)-C6-C10	ge Organics (Di Result <50.0	RO) (GC) Qualifier	50.0 RL 50.0	mg/Kg Unit mg/Kg	<u> </u>	Prepared 09/12/22 08:43	09/13/22 09:59 Analyzed 09/12/22 19:15	Dil Fac
Method: 8015B NM - Diesel Randanalyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (DI Result <50.0	RO) (GC) Qualifier U	50.0 RL 50.0 50.0	mg/Kg Unit mg/Kg	<u> </u>	Prepared 09/12/22 08:43 09/12/22 08:43	09/13/22 09:59 Analyzed 09/12/22 19:15 09/12/22 19:15	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)	141 ge Organics (Di Result <50.0 141 <50.0	RO) (GC) Qualifier U	50.0 RL 50.0 50.0 50.0	mg/Kg Unit mg/Kg	<u> </u>	Prepared 09/12/22 08:43 09/12/22 08:43	09/13/22 09:59 Analyzed 09/12/22 19:15 09/12/22 19:15	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 1-Chlorooctane	141 ge Organics (Digital Result	RO) (GC) Qualifier U	50.0 RL 50.0 50.0 50.0 Limits	mg/Kg Unit mg/Kg	<u> </u>	Prepared 09/12/22 08:43 09/12/22 08:43 09/12/22 08:43 Prepared	09/13/22 09:59 Analyzed 09/12/22 19:15 09/12/22 19:15 Analyzed	Dil Fac
Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	141 ge Organics (Display Result <50.0 141 <50.0	RO) (GC) Qualifier U	50.0 RL 50.0 50.0 50.0 Limits 70 - 130	mg/Kg Unit mg/Kg	<u> </u>	Prepared 09/12/22 08:43 09/12/22 08:43 09/12/22 08:43 Prepared 09/12/22 08:43	09/13/22 09:59 Analyzed 09/12/22 19:15 09/12/22 19:15 Analyzed 09/12/22 19:15	Dil Fac
Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	141 ge Organics (Di Result <50.0 141 <50.0	RO) (GC) Qualifier U	50.0 RL 50.0 50.0 50.0 Limits 70 - 130	mg/Kg Unit mg/Kg	<u> </u>	Prepared 09/12/22 08:43 09/12/22 08:43 09/12/22 08:43 Prepared 09/12/22 08:43	09/13/22 09:59 Analyzed 09/12/22 19:15 09/12/22 19:15 Analyzed 09/12/22 19:15	Dil Fac

Client Sample ID: FS07

Date Collected: 09/08/22 14:10 Date Received: 09/09/22 09:22

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/20/22 13:33	09/22/22 14:05	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/20/22 13:33	09/22/22 14:05	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/20/22 13:33	09/22/22 14:05	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		09/20/22 13:33	09/22/22 14:05	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/20/22 13:33	09/22/22 14:05	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/20/22 13:33	09/22/22 14:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			09/20/22 13:33	09/22/22 14:05	

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Lab Sample ID: 890-2911-7

Matrix: Solid

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Job ID: 890-2911-1

Client: Ensolum Project/Site: Windward 2H SDG: Lea County NM

Client Sample ID: FS07 Date Collected: 09/08/22 14:10 Lab Sample ID: 890-2911-7 Matrix: Solid

09/12/22 19:37

09/12/22 19:37

Matrix: Solid

Date Received: 09/09/22 09:22 Sample Depth: 0.5

Method: 8021B - Volatile Or	rganic Compounds	(GC)	(Continued)	
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Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	86	70 - 130	09/20/22 13:33	09/22/22 14:05	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			09/22/22 13:52	1

П				
ı	Method: 8015 NM	Diocal Rand	no Organice	(DRO) (GC)

Analyte	Result Qu	ualifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	931	49.9	mg/Kg			09/13/22 09:59	1

	, 3 (, (,						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/12/22 08:43	09/12/22 19:37	1
Diesel Range Organics (Over C10-C28)	931		49.9	mg/Kg		09/12/22 08:43	09/12/22 19:37	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/12/22 08:43	09/12/22 19:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

1-Chlorooctane	120	70 - 130	09/12/22 08:43
o-Terphenyl	105	70 - 130	09/12/22 08:43

Method: 300.0 - Anions, Ion Chromatography - Soluble									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	17.8		4.97	mg/Kg			09/14/22 11:13	1

Client Sample ID: FS08 Lab Sample ID: 890-2911-8

Date Collected: 09/08/22 14:20 Date Received: 09/09/22 09:22

Sample Depth: 0.5

nic Compounds ((GC)						
Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
<0.00200	U	0.00200	mg/Kg		09/20/22 13:33	09/22/22 16:30	1
<0.00200	U	0.00200	mg/Kg		09/20/22 13:33	09/22/22 16:30	1
<0.00200	U	0.00200	mg/Kg		09/20/22 13:33	09/22/22 16:30	1
<0.00399	U	0.00399	mg/Kg		09/20/22 13:33	09/22/22 16:30	1
<0.00200	U	0.00200	mg/Kg		09/20/22 13:33	09/22/22 16:30	1
<0.00399	U	0.00399	mg/Kg		09/20/22 13:33	09/22/22 16:30	1
%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
112		70 - 130			09/20/22 13:33	09/22/22 16:30	1
93		70 - 130			09/20/22 13:33	09/22/22 16:30	1
	Result <0.00200 <0.00200 <0.00200 <0.00399 <0.00399 <0.00399		Result Qualifier RL	Result Qualifier RL Unit <0.00200	Result Qualifier RL Unit D <0.00200	Result Qualifier RL Unit D Prepared <0.00200	Result Qualifier RL Unit D Prepared Analyzed <0.00200 U

Method:	Total	RTFY -	Total RTFX	Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			09/22/22 13:52	1

н	Made al. COAF NIM Diana	D O! (DDO)	(00)
ı	Method: 8015 NM - Diese	Rande Ordanics (DRO)	1 ((=(.)
ı	Michiga. Colo IVIII Dicoc	range Organico (Bra	, , , , ,

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	148	50.0	mg/Kg			09/13/22 09:59	1

Lab Sample ID: 890-2911-8

Client Sample Results

Client: Ensolum

Project/Site: Windward 2H

SDG: Lea County NM

Client Sample ID: FS08

Date Collected: 09/08/22 14:20 Date Received: 09/09/22 09:22

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/12/22 08:43	09/12/22 19:58	1
Diesel Range Organics (Over C10-C28)	148		50.0	mg/Kg		09/12/22 08:43	09/12/22 19:58	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/12/22 08:43	09/12/22 19:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130			09/12/22 08:43	09/12/22 19:58	1
o-Terphenyl	92		70 - 130			09/12/22 08:43	09/12/22 19:58	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

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Surrogate Summary

Client: Ensolum Job ID: 890-2911-1 Project/Site: Windward 2H SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

•				Percent Surrogate Re
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2911-1	FS01	98	79	
890-2911-1 MS	FS01	134 S1+	102	
890-2911-1 MSD	FS01	112	74	
890-2911-2	FS02	110	82	
890-2911-3	FS03	115	88	
890-2911-4	FS04	123	112	
890-2911-5	FS05	107	81	
890-2911-6	FS06	113	83	
890-2911-7	FS07	111	86	
890-2911-8	FS08	112	93	
LCS 880-34943/1-A	Lab Control Sample	115	107	
LCSD 880-34943/2-A	Lab Control Sample Dup	115	109	
MB 880-34943/5-A	Method Blank	101	85	
Surrogate Legend				
BFB = 4-Bromofluorobenzene	(Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2904-A-1-E MS	Matrix Spike	111	93	
890-2904-A-1-F MSD	Matrix Spike Duplicate	114	95	
890-2911-1	FS01	119	107	
890-2911-2	FS02	101	94	
890-2911-3	FS03	102	92	
890-2911-4	FS04	109	97	
890-2911-5	FS05	118	105	
890-2911-6	FS06	120	105	
890-2911-7	FS07	120	105	
890-2911-8	FS08	106	92	
LCS 880-34180/2-A	Lab Control Sample	117	117	
LCSD 880-34180/3-A	Lab Control Sample Dup	119	121	
MB 880-34180/1-A	Method Blank	106	105	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Job ID: 890-2911-1 Client: Ensolum Project/Site: Windward 2H SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-34943/5-A

Lab Sample ID: LCS 880-34943/1-A

Matrix: Solid

Analysis Batch: 35129

Matrix: Solid Analysis Batch: 35129 Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 34943

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200	mg/Kg		09/20/22 13:33	09/22/22 11:41	
Toluene	<0.00200	U	0.00200	mg/Kg		09/20/22 13:33	09/22/22 11:41	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/20/22 13:33	09/22/22 11:41	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		09/20/22 13:33	09/22/22 11:41	
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/20/22 13:33	09/22/22 11:41	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/20/22 13:33	09/22/22 11:41	

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	09/20/22 13:3	3 09/22/22 11:41	1
1,4-Difluorobenzene (Surr)	85		70 - 130	09/20/22 13:3	3 09/22/22 11:41	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 34943

Prep Type: Total/NA

Prep Batch: 34943

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1008 mg/Kg 101 70 - 130 Toluene 0.100 0.09064 mg/Kg 91 70 - 130 0.100 0.09612 Ethylbenzene mg/Kg 96 70 - 130 0.200 0.1960 98 70 - 130 m-Xylene & p-Xylene mg/Kg 0.100 0.1139 70 - 130 o-Xylene mg/Kg 114

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	115	70 - 130
1,4-Difluorobenzene (Surr)	107	70 - 130

Lab Sample ID: LCSD 880-34943/2-A **Client Sample ID: Lab Control Sample Dup**

Matrix: Solid

Analysis Batch: 35129

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09785		mg/Kg		98	70 - 130	3	35
Toluene	0.100	0.08600		mg/Kg		86	70 - 130	5	35
Ethylbenzene	0.100	0.09015		mg/Kg		90	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.1817		mg/Kg		91	70 - 130	8	35
o-Xvlene	0.100	0 1054		ma/Ka		105	70 - 130	8	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1.4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: 890-2911-1 MS	Client Sample ID: FS01
Matrix: Solid	Prep Type: Total/NA
Analysis Ratch: 35129	Pron Batch: 3/0/3

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U F2 F1	0.0998	0.05776	F1	mg/Kg		58	70 - 130	
Toluene	<0.00200	U F2 F1	0.0998	0.05516	F1	mg/Kg		55	70 - 130	

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Client: Ensolum Job ID: 890-2911-1 Project/Site: Windward 2H SDG: Lea County NM

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

Lab Sample ID: 890-2911-1 MS **Matrix: Solid**

Analysis Batch: 35129

Client Sample ID: FS01 Prep Type: Total/NA Prep Batch: 34943

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00200	U F2 F1	0.0998	0.06394	F1	mg/Kg		64	70 - 130	
m-Xylene & p-Xylene	<0.00399	U F2 F1	0.200	0.1274	F1	mg/Kg		64	70 - 130	
o-Xylene	<0.00200	U F2 F1	0.0998	0.07919		mg/Kg		79	70 - 130	

MS MS Surrogate %Recovery Qualifier Limits 70 - 130 4-Bromofluorobenzene (Surr) 134 S1+ 1,4-Difluorobenzene (Surr) 102 70 - 130

Lab Sample ID: 890-2911-1 MSD

Client Sample ID: FS01 Matrix: Solid Prep Type: Total/NA Analysis Batch: 35129 Prep Batch: 34943

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U F2 F1	0.100	0.02841	F2 F1	mg/Kg		28	70 - 130	68	35
Toluene	<0.00200	U F2 F1	0.100	0.03755	F2 F1	mg/Kg		37	70 - 130	38	35
Ethylbenzene	<0.00200	U F2 F1	0.100	0.04302	F2 F1	mg/Kg		43	70 - 130	39	35
m-Xylene & p-Xylene	<0.00399	U F2 F1	0.201	0.07806	F2 F1	mg/Kg		39	70 - 130	48	35
o-Xylene	<0.00200	U F2 F1	0.100	0.05038	F2 F1	mg/Kg		50	70 - 130	44	35

MSD MSD Surrogate Qualifier Limits %Recovery 70 - 130 4-Bromofluorobenzene (Surr) 112 1,4-Difluorobenzene (Surr) 74 70 - 130

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

Lab Sample ID: MB 880-34180/1-A Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 34169

MB MB Result Qualifier RL Unit D Prepared Analyzed Dil Fac Analyte 50.0 09/12/22 08:43 09/12/22 10:56 <50.0 U Gasoline Range Organics mg/Kg (GRO)-C6-C10 09/12/22 10:56 Diesel Range Organics (Over <50.0 U 50.0 09/12/22 08:43 mg/Kg C10-C28) Oll Range Organics (Over C28-C36) <50.0 U 50.0 09/12/22 08:43 09/12/22 10:56 mg/Kg

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	09/12/22 08	:43 09/12/22 10:56	1
o-Terphenyl	105		70 - 130	09/12/22 08	:43 09/12/22 10:56	1

Lab Sample ID: LCS 880-34180/2-A **Client Sample ID: Lab Control Sample Matrix: Solid**

Prep Type: Total/NA Analysis Batch: 34169 Prep Batch: 34180

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	1000	902.7		mg/Kg	<u> </u>	90	70 - 130	
Diesel Range Organics (Over	1000	1104		mg/Kg		110	70 - 130	
C10-C28)								

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Prep Batch: 34180

Job ID: 890-2911-1 SDG: Lea County NM

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

LCS LCS

Lab Sample ID: LCS 880-34180/2-A

Matrix: Solid

Client: Ensolum

Analysis Batch: 34169

Project/Site: Windward 2H

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 34180

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

Lab Sample ID: LCSD 880-34180/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 34169

Prep Type: Total/NA

Prep Batch: 34180

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 819.5 82 70 - 13010 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1035 103 mg/Kg 70 - 1306 20 C10-C28)

LCSD LCSD

Surrogate %Recovery Qualifier Limits 119 70 - 130 1-Chlorooctane 121 70 - 130 o-Terphenyl

Lab Sample ID: 890-2904-A-1-E MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 34169

Prep Type: Total/NA

Prep Batch: 34180

Sample Sample Spike MS MS Added Analyte Result Qualifier Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.9 U 997 815.3 mg/Kg 82 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 111 997 838.4 mg/Kg 73 70 - 130 C10-C28)

MS MS %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 111 o-Terphenyl 93 70 - 130

Lab Sample ID: 890-2904-A-1-F MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid**

Analysis Batch: 34169

Prep Type: Total/NA

Prep Batch: 34180

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	<49.9	U	999	850.4		mg/Kg		85	70 - 130	4	20	
(GRO)-C6-C10												
Diesel Range Organics (Over	111		999	875.8		mg/Kg		77	70 - 130	4	20	
C10 C20)												

C10-C28)

MSD MSD %Recovery Qualifier Surrogate Limits 1-Chlorooctane 114 70 - 130 95 70 - 130 o-Terphenyl

Dil Fac

QC Sample Results

Client: Ensolum Job ID: 890-2911-1 Project/Site: Windward 2H SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-34104/1-A

Matrix: Solid

Analysis Batch: 34474

MB MB

Analyte Result Qualifier RL Unit D Chloride <5.00 U

5.00

mg/Kg

09/14/22 08:57

Client Sample ID: Lab Control Sample Dup

Prepared

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Client Sample ID: Method Blank

Analyzed

Lab Sample ID: LCS 880-34104/2-A

Matrix: Solid

Analysis Batch: 34474

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 238.3 mg/Kg 95 90 - 110

Lab Sample ID: LCSD 880-34104/3-A

Matrix: Solid

Analysis Batch: 34474

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 238.8 mg/Kg 90 - 110

Lab Sample ID: 890-2910-A-6-B MS

Matrix: Solid

Analysis Batch: 34474

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added Qualifier %Rec Result Unit Limits Chloride 70.8 249 319.6 100 90 - 110 mg/Kg

Lab Sample ID: 890-2910-A-6-C MSD

Matrix: Solid

Analysis Batch: 34474

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 249 70.8 319.0 mg/Kg 100 90 - 110 0 20

Client: Ensolum Job ID: 890-2911-1 Project/Site: Windward 2H SDG: Lea County NM

GC VOA

Prep Batch: 34943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2911-1	FS01	Total/NA	Solid	5035	
890-2911-2	FS02	Total/NA	Solid	5035	
890-2911-3	FS03	Total/NA	Solid	5035	
890-2911-4	FS04	Total/NA	Solid	5035	
890-2911-5	FS05	Total/NA	Solid	5035	
890-2911-6	FS06	Total/NA	Solid	5035	
890-2911-7	FS07	Total/NA	Solid	5035	
890-2911-8	FS08	Total/NA	Solid	5035	
MB 880-34943/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-34943/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-34943/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2911-1 MS	FS01	Total/NA	Solid	5035	
890-2911-1 MSD	FS01	Total/NA	Solid	5035	

Analysis Batch: 35129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2911-1	FS01	Total/NA	Solid	8021B	34943
890-2911-2	FS02	Total/NA	Solid	8021B	34943
890-2911-3	FS03	Total/NA	Solid	8021B	34943
890-2911-4	FS04	Total/NA	Solid	8021B	34943
890-2911-5	FS05	Total/NA	Solid	8021B	34943
890-2911-6	FS06	Total/NA	Solid	8021B	34943
890-2911-7	FS07	Total/NA	Solid	8021B	34943
890-2911-8	FS08	Total/NA	Solid	8021B	34943
MB 880-34943/5-A	Method Blank	Total/NA	Solid	8021B	34943
LCS 880-34943/1-A	Lab Control Sample	Total/NA	Solid	8021B	34943
LCSD 880-34943/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	34943
890-2911-1 MS	FS01	Total/NA	Solid	8021B	34943
890-2911-1 MSD	FS01	Total/NA	Solid	8021B	34943

Analysis Batch: 35182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2911-1	FS01	Total/NA	Solid	Total BTEX	
890-2911-2	FS02	Total/NA	Solid	Total BTEX	
890-2911-3	FS03	Total/NA	Solid	Total BTEX	
890-2911-4	FS04	Total/NA	Solid	Total BTEX	
890-2911-5	FS05	Total/NA	Solid	Total BTEX	
890-2911-6	FS06	Total/NA	Solid	Total BTEX	
890-2911-7	FS07	Total/NA	Solid	Total BTEX	
890-2911-8	FS08	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 34169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2911-1	FS01	Total/NA	Solid	8015B NM	34180
890-2911-2	FS02	Total/NA	Solid	8015B NM	34180
890-2911-3	FS03	Total/NA	Solid	8015B NM	34180
890-2911-4	FS04	Total/NA	Solid	8015B NM	34180
890-2911-5	FS05	Total/NA	Solid	8015B NM	34180
890-2911-6	FS06	Total/NA	Solid	8015B NM	34180

Client: Ensolum Job ID: 890-2911-1 Project/Site: Windward 2H SDG: Lea County NM

GC Semi VOA (Continued)

Analysis Batch: 34169 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2911-7	FS07	Total/NA	Solid	8015B NM	34180
890-2911-8	FS08	Total/NA	Solid	8015B NM	34180
MB 880-34180/1-A	Method Blank	Total/NA	Solid	8015B NM	34180
LCS 880-34180/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	34180
LCSD 880-34180/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	34180
890-2904-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	34180
890-2904-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	34180

Prep Batch: 34180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2911-1	FS01	Total/NA	Solid	8015NM Prep	
890-2911-2	FS02	Total/NA	Solid	8015NM Prep	
890-2911-3	FS03	Total/NA	Solid	8015NM Prep	
890-2911-4	FS04	Total/NA	Solid	8015NM Prep	
890-2911-5	FS05	Total/NA	Solid	8015NM Prep	
890-2911-6	FS06	Total/NA	Solid	8015NM Prep	
890-2911-7	FS07	Total/NA	Solid	8015NM Prep	
890-2911-8	FS08	Total/NA	Solid	8015NM Prep	
MB 880-34180/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-34180/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-34180/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2904-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2904-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 34367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2911-1	FS01	Total/NA	Solid	8015 NM	
890-2911-2	FS02	Total/NA	Solid	8015 NM	
890-2911-3	FS03	Total/NA	Solid	8015 NM	
890-2911-4	FS04	Total/NA	Solid	8015 NM	
890-2911-5	FS05	Total/NA	Solid	8015 NM	
890-2911-6	FS06	Total/NA	Solid	8015 NM	
890-2911-7	FS07	Total/NA	Solid	8015 NM	
890-2911-8	FS08	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 34104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2911-1	FS01	Soluble	Solid	DI Leach	
890-2911-2	FS02	Soluble	Solid	DI Leach	
890-2911-3	FS03	Soluble	Solid	DI Leach	
890-2911-4	FS04	Soluble	Solid	DI Leach	
890-2911-5	FS05	Soluble	Solid	DI Leach	
390-2911-6	FS06	Soluble	Solid	DI Leach	
890-2911-7	FS07	Soluble	Solid	DI Leach	
890-2911-8	FS08	Soluble	Solid	DI Leach	
MB 880-34104/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-34104/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-34104/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2910-A-6-B MS	Matrix Spike	Soluble	Solid	DI Leach	

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Released to Imaging: 1/17/2023 2:32:42 PM

Client: Ensolum
Project/Site: Windward 2H

Job ID: 890-2911-1
SDG: Lea County NM

HPLC/IC (Continued)

Leach Batch: 34104 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2910-A-6-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 34474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2911-1	FS01	Soluble	Solid	300.0	34104
890-2911-2	FS02	Soluble	Solid	300.0	34104
890-2911-3	FS03	Soluble	Solid	300.0	34104
890-2911-4	FS04	Soluble	Solid	300.0	34104
890-2911-5	FS05	Soluble	Solid	300.0	34104
890-2911-6	FS06	Soluble	Solid	300.0	34104
890-2911-7	FS07	Soluble	Solid	300.0	34104
890-2911-8	FS08	Soluble	Solid	300.0	34104
MB 880-34104/1-A	Method Blank	Soluble	Solid	300.0	34104
LCS 880-34104/2-A	Lab Control Sample	Soluble	Solid	300.0	34104
LCSD 880-34104/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	34104
890-2910-A-6-B MS	Matrix Spike	Soluble	Solid	300.0	34104
890-2910-A-6-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	34104

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Project/Site: Windward 2H

Client: Ensolum

Date Collected: 09/08/22 12:45

Date Received: 09/09/22 09:22

	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	34943	09/20/22 13:33	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35129	09/22/22 12:02	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35182	09/22/22 13:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			34367	09/13/22 09:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34180	09/12/22 08:43	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34169	09/12/22 17:28	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	34104	09/09/22 12:32	KS	EET MID
Soluble	Analysis	300.0		1			34474	09/14/22 10:34	CH	EET MID

Client Sample ID: FS02 Lab Sample ID: 890-2911-2

Date Collected: 09/08/22 12:50 Date Received: 09/09/22 09:22

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	34943	09/20/22 13:33	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35129	09/22/22 12:23	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35182	09/22/22 13:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			34367	09/13/22 09:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	34180	09/12/22 08:43	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34169	09/12/22 17:49	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	34104	09/09/22 12:32	KS	EET MID
Soluble	Analysis	300.0		1			34474	09/14/22 10:39	CH	EET MID

Client Sample ID: FS03 Lab Sample ID: 890-2911-3

Date Collected: 09/08/22 13:00 Date Received: 09/09/22 09:22

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	34943	09/20/22 13:33	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35129	09/22/22 12:43	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35182	09/22/22 13:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			34367	09/13/22 09:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34180	09/12/22 08:43	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34169	09/12/22 18:11	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	34104	09/09/22 12:32	KS	EET MID
Soluble	Analysis	300.0		1			34474	09/14/22 10:54	CH	EET MID

Client Sample ID: FS04 Lab Sample ID: 890-2911-4

Date Collected: 09/08/22 13:15 Date Received: 09/09/22 09:22

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	34943	09/20/22 13:33	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35129	09/22/22 13:04	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35182	09/22/22 13:52	SM	EET MID

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Matrix: Solid

Matrix: Solid

Lab Chronicle

Client: Ensolum Job ID: 890-2911-1 Project/Site: Windward 2H SDG: Lea County NM

Client Sample ID: FS04

Lab Sample ID: 890-2911-4 Date Collected: 09/08/22 13:15

Matrix: Solid

Date Received: 09/09/22 09:22

	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			34367	09/13/22 09:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	34180	09/12/22 08:43	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34169	09/12/22 18:32	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	34104	09/09/22 12:32	KS	EET MID
Soluble	Analysis	300.0		1			34474	09/14/22 10:59	CH	EET MID

Client Sample ID: FS05 Lab Sample ID: 890-2911-5

Date Collected: 09/08/22 13:50 **Matrix: Solid**

Date Received: 09/09/22 09:22

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	34943	09/20/22 13:33	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35129	09/22/22 13:24	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35182	09/22/22 13:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			34367	09/13/22 09:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	34180	09/12/22 08:43	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34169	09/12/22 18:54	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	34104	09/09/22 12:32	KS	EET MID
Soluble	Analysis	300.0		1			34474	09/14/22 11:04	CH	EET MID

Client Sample ID: FS06 Lab Sample ID: 890-2911-6

Date Collected: 09/08/22 14:00 Date Received: 09/09/22 09:22

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	34943	09/20/22 13:33	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35129	09/22/22 13:45	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35182	09/22/22 13:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			34367	09/13/22 09:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	34180	09/12/22 08:43	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34169	09/12/22 19:15	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	34104	09/09/22 12:32	KS	EET MID
Soluble	Analysis	300.0		1			34474	09/14/22 11:08	CH	EET MID

Client Sample ID: FS07 Lab Sample ID: 890-2911-7

Date Collected: 09/08/22 14:10 Date Received: 09/09/22 09:22

_	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	34943	09/20/22 13:33	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35129	09/22/22 14:05	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35182	09/22/22 13:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			34367	09/13/22 09:59	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.03 g 1 uL	10 mL 1 uL	34180 34169	09/12/22 08:43 09/12/22 19:37	AM SM	EET MID EET MID

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Matrix: Solid

Matrix: Solid

Lab Chronicle

Client: Ensolum Job ID: 890-2911-1 Project/Site: Windward 2H SDG: Lea County NM

Client Sample ID: FS07

Date Collected: 09/08/22 14:10 Date Received: 09/09/22 09:22 Lab Sample ID: 890-2911-7

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	34104	09/09/22 12:32	KS	EET MID
Soluble	Analysis	300.0		1			34474	09/14/22 11:13	CH	EET MID

Client Sample ID: FS08 Lab Sample ID: 890-2911-8

Date Collected: 09/08/22 14:20 Date Received: 09/09/22 09:22 **Matrix: Solid**

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	34943	09/20/22 13:33	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35129	09/22/22 16:30	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35182	09/22/22 13:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			34367	09/13/22 09:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34180	09/12/22 08:43	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34169	09/12/22 19:58	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	34104	09/09/22 12:32	KS	EET MID
Soluble	Analysis	300.0		1			34474	09/14/22 11:18	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: Windward 2H

Job ID: 890-2911-1
SDG: Lea County NM

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	are included in this report hi	it the laboratory is not certific	ed by the governing authority. This list ma	v include analytes for y
the agency does not of	' '	it the laboratory is not certify	ed by the governing additionty. This list the	ay illolude allalytes for v
0 ,	' '	Matrix	Analyte	ay include analytes for v
the agency does not of	fer certification.	•	, , ,	ay include analytes for v

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Method Summary

Client: Ensolum Job ID: 890-2911-1 Project/Site: Windward 2H SDG: Lea County NM

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: Windward 2H

Job ID: 890-2911-1

SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2911-1	FS01	Solid	09/08/22 12:45	09/09/22 09:22	1
890-2911-2	FS02	Solid	09/08/22 12:50	09/09/22 09:22	1
890-2911-3	FS03	Solid	09/08/22 13:00	09/09/22 09:22	1
890-2911-4	FS04	Solid	09/08/22 13:15	09/09/22 09:22	1
890-2911-5	FS05	Solid	09/08/22 13:50	09/09/22 09:22	1
890-2911-6	FS06	Solid	09/08/22 14:00	09/09/22 09:22	0.5
890-2911-7	FS07	Solid	09/08/22 14:10	09/09/22 09:22	0.5
890-2911-8	FS08	Solid	09/08/22 14:20	09/09/22 09:22	0.5

Date/Time

Chain of Custody

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

Environment Testing

eurofins ...

Work Order No:

<u></u>				Bill to: (if different)	ferent)	Joe Gable	anne			Work Order Comments
				Company N	ny Name:	Ensolum	шn		Program: UST/PST PR	Program: UST/PST 🗌 PRP 🗎 Brownfields 🔲 RRC 📋 Superfund 📙
Carlsbad,	3122 National Parks Hwy	-lwy.		Address:		3122	Nations	3122 National Parks Hwy.		
903-388-1	Carlsbad, NM 88220			City, State ZIP:	ZIP:	Carls	bad, NN	Carlsbad, NM 88220	Reporting: Level II	el III 🗌 PST/UST 🗍 TRRP 📋 Level IV
	073		Email	Email: jgable@e	gensolum.com	om			Deliverables: EDD	ADaPT ☐ Other:
Project Name:	Windward 2H	I	Turn	Turn Around					ANALYSIS REQUEST	Preservative Codes
Lie	03D2024080	20	✓ Routine	□ Rush	Pres. Code	60				None: NO DI Water: H ₂ O
Project Location:	Lea County, NM	NA	Due Date:	5 Day TAT	AT					_
Sampler's Name:	Liz Cheli		TAT starts the day received by	e day receive	d by					
PO#:	N/A		the lab, if received by	eived by 4:3	4:30pm					H ₂ SO ₄ : H ₂ NaOH: Na
SAMPLE RECEIPT TE	Temp Blank:	(Yes) No	Wet Ice:	Kes	S	(0.				H₃PO₄: HP
Samples Received Intact:	oN (sa)	Thermometer ID:	3r 10:	NWOO	П	300				NaHSO4: NABIS
Cooler Custody Seals: Yes	S	MA Correction Factor:	actor:			: A 9				Na ₂ S ₂ O ₃ : NaSO ₃
Sample Custody Seals: Yes	S _N	WA Temperature Reading	Reading:	1,		3) S				Zn Acetate+NaOH: Zn
Total Containers:		Corrected Temperature:	emperature:	(;		IDE	(\$10	1208	890-2911 Chain of Custody	NaOH+Ascorbic Acid: SAPC
Sample Identification	Matrix	Date	Time	Depth C	Grab/ # of Comp Cont	снгов	8) H 9 T) хэта		Sample Comments
FS01	S	9/9/2022	1245	1, C	Comp 1	×	×	×		Incident ID:
FS02	S	9/9/2022	1250	1. C	Comp 1	×	×	×		NAPP2222347897
FS03	S	9/9/2022	1300	1. C	Comp 1	×	×	×		
FS04	S	9/9/2022	1315	1- C	Comp 1	×	×	×		
FS05	S	9/9/2022	1350	1. C	Comp 1	×	×	×		
FS06	S	9/9/2022	1400	0.5' C	Comp 1	×	×	×		
FS07	S	9/9/2022	1410	0.5' C	Comp 1	×	×	×		
FS08	S	9/9/2022	1420	0.5' C	Comp 1	×	×	×		
	_				A	1				
	1			1/2	1					

Received by: (Signature) service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control Eurofins Xenco. A minimum charge of \$55.00 will be enforced unless previously negotiated. Votice: 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 Relinquished by: (Signature) Date/Time

σ 6.6. Received by: (Signature) Relinquished by: (Signature)

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2911-1

SDG Number: Lea County NM

List Source: Eurofins Carlsbad

Login Number: 2911 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	

2

3

A

5

0

1 N

12

TS

14

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-2911-1 SDG Number: Lea County NM

List Source: Eurofins Midland

Login Number: 2911 List Number: 2 List Creation: 09/12/22 09:08 AM

Creator: Rodriguez, Leticia

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

<6mm (1/4").



APPENDIX E

NMOCD Notifications

From: Nobui, Jennifer, EMNRD

To: <u>Kalei Jennings</u>

Cc: Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD; Harimon, Jocelyn, EMNRD

Subject: FW: [EXTERNAL] COP- Sampling Notification (Week of 09/19/22-09/23/22)

Date: Tuesday, September 20, 2022 10:26:49 AM

Attachments: <u>image001.png</u>

image002.png image003.png image004.png

[**EXTERNAL EMAIL**]

Kalei

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

Thanks,

Jennifer Nobui

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

Sent: Tuesday, September 20, 2022 8:02 AM

To: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>

Subject: Fw: [EXTERNAL] COP- Sampling Notification (Week of 09/19/22-09/23/22)

From: Kalei Jennings < kjennings@ensolum.com > Sent: Monday, September 19, 2022 8:28 PM

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

Subject: [EXTERNAL] COP- Sampling Notification (Week of 09/19/22-09/23/22)

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

All,

COP plans to complete final sampling activities at the following sites the week of September 19, 2022.

Tuesday (9/20/2022)

- Federal 9 Com/ NAPP2218848721
- Windward 4H Flowline/NAPP2218850477
- Windward 2H CTB Flare Fire/NAPP2222347897

Wednesday (9/21/2022)

- -Federal 9 Com/ NAPP2218848721
- Windward 4H Flowline/NAPP2218850477
- Windward 2H CTB Flare Fire/NAPP2222347897

Thursday (9/22/2022)

• Corvo Federal 4/ NAPP2217430297

Thank you,



Kalei Jennings Senior Scientist 817-683-2503 Ensolum, LLC



APPENDIX F

Final C-141

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

State of New Mexico Energy Minerals and Natural Resources Department

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party O		OGRID	OGRID			
Contact Name Contact		Contact T	t Telephone			
Contact email Inci		Incident #	‡ (assigned by OCL	0)		
Contact mail	ing address			'		
			Location	of Release S	Source	
Latitude				Longitude		
			(NAD 83 in dec	cimal degrees to 5 deci	imal places)	
Site Name				Site Type		
Date Release	Discovered			API# (if ap	pplicable)	
Unit Letter	Section	Township	Range	Cou	nty	
Surface Owner		☐ Federal ☐ Tr	ribal Driveta (Vama		,
Surface Owner	. State		ibai 🔲 Fiivate (i	vame.)
			Nature and	d Volume of	Release	
	Materia	(s) Released (Select al	I that annly and attach	calculations or specifi	c justification for th	ne volumes provided below)
Material(s) Released (Select all that apply and attach calculations or specification Crude Oil Volume Released (bbls)			overed (bbls)			
Produced	Water	Volume Release	d (bbls)		Volume Recovered (bbls)	
	Is the concentration of dissolved chloride in the		Yes No			
	produced water >10,000 mg/l?		W.L. D. 1411)			
	Condensate Volume Released (bbls)			Volume Recovered (bbls)		
Natural Gas Volume Released (Mcf)			Volume Recovered (Mcf)			
Other (describe) Volume/Weight Released (provide units)		e units)	Volume/Wei	ight Recovered (provide units)		
G CD 1						
Cause of Rele	ease					

Received by OCD: 12/20/2022 12:51:54 PM Form C-141 State of New Mexico Page

	Page	224	of	22.
: ID				

2	Oil Conservation Division	Incident ID District RP Facility ID	
		Application ID	
Vas this a major elease as defined by 9.15.29.7(A) NMAC? ☐ Yes ☐ No	If YES, for what reason(s) does the responsible part	ty consider this a major release?	

☐ Yes ☐ No			
If YES, was immediate notice given to the OCD? By whom	? To whom? When and by what means (phone, email, etc)?		
Ini	tial Response		
The responsible party must undertake the following actions i	immediately unless they could create a safety hazard that would result in injury		
☐ The source of the release has been stopped.			
The impacted area has been secured to protect human he	ealth and the environment.		
Released materials have been contained via the use of be	erms or dikes, absorbent pads, or other containment devices.		
All free liquids and recoverable materials have been rem	noved and managed appropriately.		
If all the actions described above have <u>not</u> been undertaken,	explain why:		
D 1015000D (0) D 101			
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.			
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.			
Printed Name	Title:		
Signature: _ Partian Saparage	Date:		
email:	Telephone:		
OCD Only			
Received by:	Date:		

Released to Imaging: 1/17/2023 2:32:42 PM

Spill Calculation - On Pad Surface Pool Spill

Estimated volume

of each pool area

(bbl.)

0.593

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

Penetration

allowance

(ft.)

0.000

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

Total Volume Release:

Estimated

Average

Depth

(ft.)

0.002

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

Page 225 of 229

Total Estimated

Volume of Spill

(bbl.)

0.593

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

0.593

Received by OCD: 12/20/2022 12/31/654 Rimber:	WINDWARD 2H CTB
Asset Area:	DBEN

of "shore" in each

area

No. of boundaries Estimated Pool

Area

(sq. ft.)

1600.000

0.000

0.000

0.000

0.000

0.000

0.000

0.000

0.000

0.000

Release Discovery Date & Time: 7/30/2022 9:45AM

Length

(ft.)

80.0

Refeased to Imaging: 1/17/2023 2:32:42 PM

Width

(ft.)

20.0

Convert Irregular shape

into a series of

rectangles

Rectangle A

Rectangle B

Rectangle C

Rectangle D

Rectangle E

Rectangle F

Rectangle G

Rectangle H

Rectangle I

Release Type: Oil

Deepest point in

each of the

areas

(in.)

0.10

Provide any known details about the event; FLARE FIRE FROM PRODUCTION K.O. DUMP LINE PLUGGED.

State of New Mexico

Incident ID	nAPP2235445306
District RP	
Facility ID	
Application ID	

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Site Assessment/Characterization

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

Did this release impact groundwater or surface water? Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse? Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	0 (ft bgs) Yes ⊠ No Yes ⊠ No Yes ⊠ No		
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse? Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	es ⊠ No		
watercourse? Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?			
ordinary high-water mark)?	'es 🛛 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?	es ⊠ 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?	es ⊠ 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?	es ⊠ No		
Did the release impact areas not on an exploration, development, production, or storage site?	es No		
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.			
Characterization Report Checklist: Each of the following items must be included in the report.			
 Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Roring or excavation logs 			

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.

Topographic/Aerial maps

Photographs including date and GIS information

☐ Laboratory data including chain of custody

Received by OCD: 12/20/2022 12:51:54 PM Form C-141 State of New Mexico Page 4 Oil Conservation Division

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Incident ID	nAPP2235445306
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:Charles Beauvais	Title: _Senior Environmental Engineer		
Signature: Charles R. Beauvais 99	Date:12/20/2022		
email: _Charles.R.Beauvais@conocophillips.com	Telephone:575-988-2043		
OCD Only			
Received by:	Date:		

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Incident ID	nAPP2235445306
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.

Closure Report Attachment Checklist: Each of the following is	items must be included in the closure report.		
A scaled site and sampling diagram as described in 19.15.29.1	11 NMAC		
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	s of the liner integrity if applicable (Note: appropriate OCD District office		
☐ Laboratory analyses of final sampling (Note: appropriate ODG	C District office must be notified 2 days prior to final sampling)		
□ Description of remediation activities			
dereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules degulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which any endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability ould their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, aman health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for mpliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially store, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in cordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Title:Senior Environmental Engineer gnature:Charles Beauvais 99 Date:12/20/2022 Telephone:575-988-2043 Telephone:575-988-2043			
OCD Only			
Received by:	Date:		
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible for regulations.		
Closure Approved by:	Date: 01/17/2023		
Printed Name: Jennifer Nobui	Title: Environmental Specialist A		

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 168957

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	168957
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Create By	d Condition	Condition Date
jnob	ui Closure Report Approved. Please implement 19.15.29.13 NMAC when completing P&A.	1/17/2023