Page 1 of 115

Incident ID	NAPP2236129464
District RP	
Facility ID	fAPP2203848018
Application ID	

Closure

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

Closure Report Attachment Checklist: Each of the following items	must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.11 NM	MAC
Photographs of the remediated site prior to backfill or photos of the must be notified 2 days prior to liner inspection)	ne liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODC Dist	trict 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 and regulations all operators are required to report and/or file certain relemay endanger public health or the environment. The acceptance of a C-1 should their operations have failed to adequately investigate and remedia human health or the environment. In addition, OCD acceptance of a C-1 compliance with any other federal, state, or local laws and/or regulations. restore, reclaim, and re-vegetate the impacted surface area to the condition accordance with 19.15.29.13 NMAC including notification to the OCD with the Name:Justin Carlile	ease notifications and perform corrective actions for releases which 141 report by the OCD does not relieve the operator of liability at contamination that pose a threat to groundwater, surface water, 141 report does not relieve the operator of responsibility for s. The responsible party acknowledges they must substantially ons that existed prior to the release or their final land use in
OCD Only	
Received by:	Date: 04/20/2023
Closure approval by the OCD does not relieve the responsible party of lia remediate contamination that poses a threat to groundwater, surface water party of compliance with any other federal, state, or local laws and/or reg	r, human health, or the environment nor does not relieve the responsible
Closure Approved by: Robert Hamlet	Date: 9/8/2023
Printed Name: Robert Hamlet	Title: Environmental Specialist - Advanced



April 13, 2023

New Mexico Oil Conservation Division

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

Re: Closure Request

Cabo Wabo Federal Com 705H Incident Number NAPP2236129464 Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of COG Operating, LLC (COG), has prepared this *Closure Request* to document assessment, excavation, and soil sampling activities performed at the Cabo Wabo Federal Com 705H (Site). The purpose of the Site assessment, excavation, and soil sampling activities was to address impacted soil resulting from a release of brackish water into the surrounding pasture area and onto the lease road. Based on field observations, excavation activities, and laboratory analytical results from soil sampling events, COG is submitting this *Closure Request*, describing remediation that has occurred and requesting no further action for Incident Number NAPP2236129464.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit L, Section 35, Township 25 South, Range 29 East, in Eddy County, New Mexico (32.0861°, -103.9633°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On December 18, 2022, a connection clamp on a production flowline failed, resulting in the release of approximately 20.90 barrels (bbls) of brackish water into the surrounding pasture area and onto the lease road. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; approximately 17 bbls of released brackish water were recovered. COG reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on December 27, 2022. The release was assigned Incident Number NAPP2236129464.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well C-04558 POD 1, located approximately 1.6 miles north of the Site. The groundwater well has a reported depth to groundwater,

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants
601 North Marienfeld Street | Midland, TX 79701 | ensolum.com
Texas PG Firm No. 50588 | Texas PE Firm No. F-21843

COG Operating, LLC Closure Request Cabo Wabo Federal Com 705H April 13, 2023

Page 2

measured in July 2021, greater than 109 feet bgs. Ground surface elevation at the groundwater well location is 3,082 feet above mean sea level (amsl), which is approximately 89 feet higher in elevation than the Site. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a riverine, located approximately 275 feet northwest 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, or church. The site is less than 300 feet from a 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 (medium potential karst designation area). Site receptors are identified on Figure 1.

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

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH): 100 mg/kg
- Chloride: 600 mg/kg

DELINEATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On February 14, 2023, delineation activities were conducted at the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Three delineation soil samples (SS01/SS01A through SS03/SS03A) were collected within the release extent to assess the vertical extent of the release. Delineation soil samples were collected at depths of 0.2 feet and 0.5 feet bgs. In addition, four soil samples (SS04 through SS07) were collected adjacent to the observed release extent at an approximate depth of 0.2 feet bgs to confirm the lateral extent of the release. The soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride Hach® chloride QuanTab® test strips. Field screening results and observations were logged on lithologic/soil sampling logs, which are included in Appendix B. The release extent and delineation soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included in Appendix C.

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

Laboratory analytical results for delineation soil sample locations SS01 through SS03 indicate chloride concentrations exceeding the Site Closure Criteria were present up to 0.5 feet bgs. Laboratory analytical results for delineation soil samples SS04 through SS07 indicate all COC concentrations were compliant with the Site Closure Criteria and successfully defined the lateral extent of the release.



COG Operating, LLC Closure Request Cabo Wabo Federal Com 705H April 13, 2023

Page 3

Based on visible staining in the release area, elevated field screening results, and laboratory analytical results for delineation soil samples SS01 through SS03 indicating chloride concentrations exceeding the Site Closure Criteria to a depth of approximately 0.5 feet bgs, further remedial actions appeared warranted.

EXCAVATION ACTIVITIES AND ANALYTICAL RESULTS

On March 9, 2023, Ensolum personnel were at the Site to oversee excavation activities. Impacted soil was excavated as indicated by visible staining and laboratory analytical results for the delineation soil sample locations SS01 through SS03. Excavation activities were performed using a backhoe and transport vehicles. To direct excavation activities, soil was screened for VOCs and chloride.

Following removal of impacted soil, 5-point composite excavation confirmation 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. Confirmation soil samples FS01 through FS13 were collected from the floor of the excavation from a depth of 0.5 feet bgs. Due to the shallow depth of the excavation, soil from the sidewalls were incorporated into the floor samples. The excavation confirmation soil samples were handled and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations were mapped utilizing a handheld GPS and are presented on Figure 3. Photographic documentation of the excavation is included in Appendix C.

Laboratory analytical results for excavation floor samples FS01 through FS13 indicate all COC concentrations were compliant with the applicable Site Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix D.

The final excavation area measured approximately 2,395 square feet in areal size. A total of approximately 45 cubic yards of impacted soil was removed, transported and properly disposed of at R360 Environmental Solutions in Hobbs, New Mexico. After completion of confirmation sampling, the excavation was backfilled.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the December 18, 2022, release of brackish water. Laboratory analytical results for the final excavation confirmation soil samples indicated concentrations of all COCs were compliant with the Site Closure Criteria. Based on the laboratory analytical results, no further remediation appears warranted.

Excavation of impacted soil has mitigated adverse conditions at this Site. COG believes the remedial actions are protective of human health, the environment, and groundwater. As such, COG respectfully requests closure for Incident Number NAPP2236129464. The Final C-141 is included in Appendix F.



COG Operating, LLC Closure Request Cabo Wabo Federal Com 705H April 13, 2023

Page 4

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

Sincerely, **Ensolum, LLC**

Hadlie Green Project Geologist

Kalei Jennings Senior Scientist

cc: Justin Carlile, COG Operating, LLC Bureau of Land Management

Appendices:

Figure 1 Site Receptor Map

Figure 2 Delineation Soil Sample Locations
Figure 3 Excavation Soil Sample Locations
Table 1 Soil Sample Analytical Results
Appendix A Referenced Well Records
Appendix B Lithologic/Soil Sampling Logs

Appendix C Photographic Log

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

Appendix E NMOCD Correspondence and Sample Notifications

Appendix F Final C-141



FIGURES



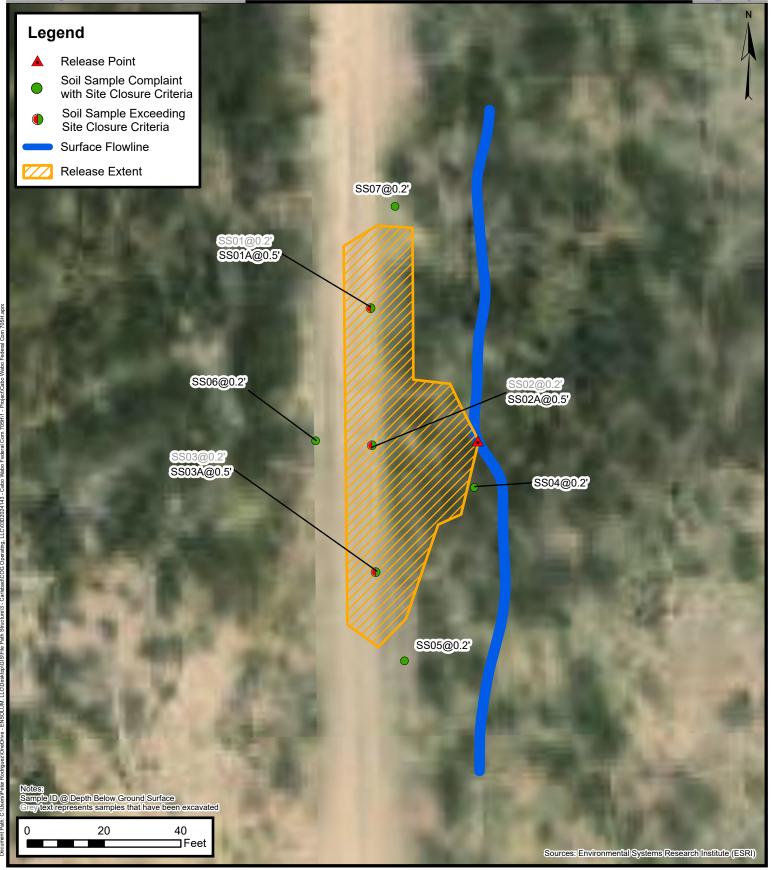
Site Receptor Map

Cabo Wabo Federal Com 705H COG Operating, LLC

Incident Number: NAPP2236129464
Unit L, Section 35, Township 25S, Range 29E
Eddy County, New Mexico

FIGURE

1



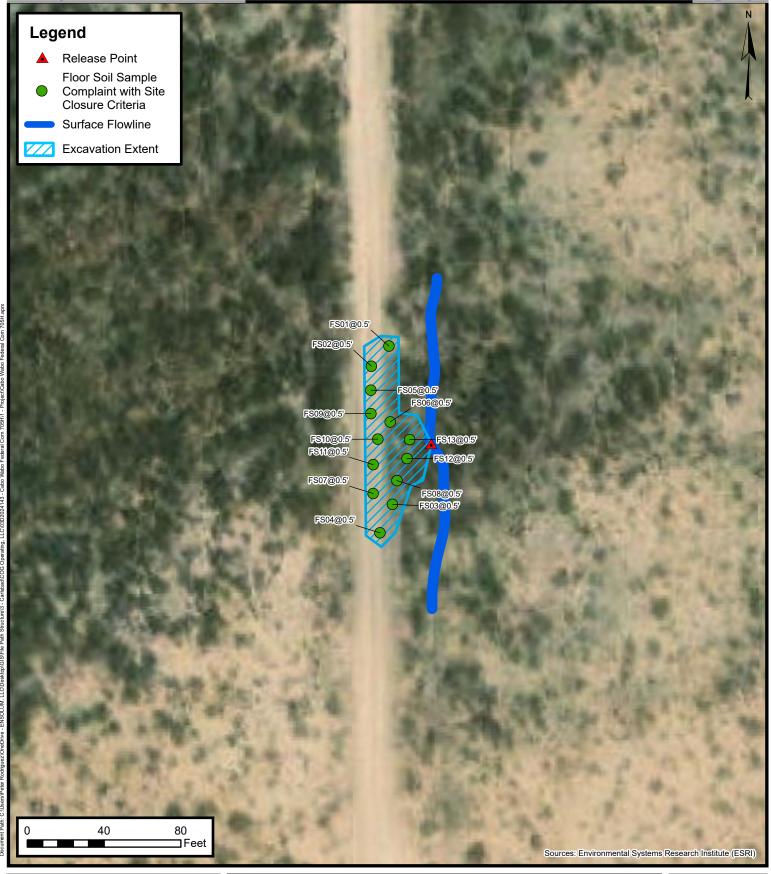


Delineation Soil Sample Locations

Cabo Wabo Federal Com 705H COG Operating, LLC

Incident Number: NAPP2236129464
Unit L, Section 35, Township 25S, Range 29E
Eddy County, New Mexico

FIGURE 2





Excavation Soil Sample Locations

Cabo Wabo Federal Com 705H COG Operating, LLC

Incident Number: NAPP2236129464
Unit L, Section 35, Township 25S, Range 29E
Eddy County, New Mexico

FIGURE 3



TABLES



	TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Cabo Wabo Federal Com 705H COG Operating, LLC Eddy County, New Mexico												
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)			
NMOCD Table I	Closure Criteria	(NMAC 19.15.29)	10	50	NE	NE	NE	NE	100	600			
Delineation Soil Samples													
SS01	02/14/2023	0.2	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	2,720			
SS01A	02/14/2023	0.5	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	49.5			
SS02	02/14/2023	0.2	< 0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	1,140			
SS02A	02/14/2023	0.5	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	42.3			
SS03	02/14/2023	0.2	< 0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	736			
SS03A	02/14/2023	0.5	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	13.5			
SS04	02/14/2023	0.2	<0.00198	<0.00397	<49.8	<49.8	<49.8	<49.8	<49.8	15.3			
SS05	02/14/2023	0.2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	13.0			
SS06	02/14/2023	0.2	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	<50.0	48.0			
SS07	02/14/2023	0.2	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	19.7			
				Excava	tion Floor Soil S	amples							
FS01	03/09/2023	0.5	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	<4.97			
FS02	03/09/2023	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	99.3			
FS03	03/09/2023	0.5	<0.0401	<0.0802	<49.9	<49.9	<49.9	<49.9	<49.9	183			
FS04	03/09/2023	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	398			
FS05	03/09/2023	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	228			
FS06	03/09/2023	0.5	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	13.3			
FS07	03/09/2023	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	5.64			
FS08	03/09/2023	0.5	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	<4.95			
FS09	03/09/2023	0.5	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	31.2			
FS10	03/09/2023	0.5	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	<5.04			
FS11	03/09/2023	0.5	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	395			
FS12	03/09/2023	0.5	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	40.9			
FS13	03/09/2023	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	<4.99			

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

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

Grey text represents samples that have been excavated



APPENDIX A

Referenced Well Records



DSE DJT AUG 17 2021 PMG:21

									.,,,,				
	OSE POD NO.		.)		WELL TAG ID NO.			OSE FILE NO	S).				
GENERAL AND WELL LOCATION	POD1 (BI	I -01)		1	n/a			C-4558					
I	WELL OWNE	٠,						PHONE (OPTI	ONAL)				
S	XTO Energ	y (Kyle I	Littrell)										
ן ד	WELL OWNE	R MAILING	ADDRESS					CITY		STATE		ZIP	
Œ	6401 Holid	ay Hill D	r.					Midland		TX	79707		
6			Di	GREES	MINUTES	SECONE	9						
Z	WELL			32	6	33.90	1	* ACCURACY	REQUIRED: ONE TENT	TH OF A S	PCOND		
₹	LOCATION (FROM GP	2011	TTUDE		N		QUIRED: WGS 84	in or A c	DCOND				
E	(FROM GF	s) LO	NGITUDE	103	57	27.03	3 W	DATOMICS	QUILLD: WOS 64				
8	DESCRIPTIO	N RELATIN	NG WELL LOCATION TO	STREET ADDRE	ESS AND COMMON	LANDMA	RKS – PLS	S (SECTION, TO	WNSHJIP, RANGE) WH	ERE AVA	ILABLE		
-	SE SW Sec	. 23 T258	S R29E										
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	DRILLING ST 07/21/2		07/21/2021		PLETED WELL (F.			LE DEPTH (FT)	DEPTH WATER FIRS	n/a			
			0,,21,2021	compore									
	COMPLETED	WELL IS:	ARTESIAN	DRY HOLE	SHALLO	W (UNCON	FINED)		STATIC WATER LEV	EL IN CO n/a		LL (FT)	
ŏ													
TA	DRILLING FI	.UID:	AIR	☐ MUD	ADDITIV	ES - SPECI	FY:						
2. DRILLING & CASING INFORMATION	DRILLING M	ETHOD:	ROTARY	HAMMER	CABLE T	OOL	✓ OTHE	R - SPECIFY:	Hollo	w Stem	Auger		
6	DEPTH (feet hal)		CASING	ATERIAL ANI	O/OR							
1 2	FROM	TO	BORE HOLE DIAM		GRADE	,,,,,		ASING NECTION	CASING INSIDE DIAM.		NG WALL CKNESS	SLOT SIZE	
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1 100	TACTE AF	/I G S	/ICAL -7174	77 / 4 / 1				THEFT THE CLE	D 110		DAGE	IOF2	

OSE 011 AUG 17 2021 PKS:21

	DEPTH (feet bgl) TO	THICKNESS (feet)	INCLUDE WATE	D TYPE OF MAT R-BEARING CA plemental sheets	VITIES O	R FRAC	TURE ZONE	5	WAT BEAR (YES	ING?	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	0	5	5	Calic	hem moderate con	solidation,	Off Wh	ite	\neg	Y	√ N	
	5	23	18		, poorly graded, so	_	Y	√ N				
	23	39	16	 	ım grain, poorly gr				\neg	Y	√ N	
	39	44	5	Sand, Fine-medium g		own	Y	✓ N				
	44	65	21	 	-medium grain, po	-	Y	√ N				
. 1	65	70	5		Sand, poorly grade	-+	Y	√ N				
HYDROGEOLOGIC LOG OF WELL	70	108	28		-medium grain, po					Y	✓ N	
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ESI	PRINT NAM	ME(S) OF D	RILL RIG SUPER	RVISOR(S) THAT PRO	VIDED ONSITE :	SUPERVI	SION O	F WELL CON	STRUCT	TON O	THER TH	IAN LICENSEE:
5. T	}		elo Trevino, Car									
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e. SIGN	Jack 1	Atkins		Ja	ckie D. Atkins		_			08/16	5/2021	
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National Water Information System: Web Interface

USGS Water Resources

USGS Home Contact USGS Search USGS

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

Click to hideNews Bulletins

- Explore the NEW <u>USGS National Water Dashboard</u> interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs site_no list =

• 320532104001701

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 320532104001701 25S.29E.32.21111

Eddy County, New Mexico
Latitude 32°05'32", Longitude 104°00'17" NAD27
Land-surface elevation 2,988 feet above NAVD88
The depth of the well is 128 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

Table of data	
<u>Tab-separated data</u>	
Graph of data	
Reselect period	

Released to Imaging: 9/8/2023 1:22:18 PM

.

Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status
1949-03-11		D	62610		2871.10	NGVD29	1	Z			А
1949-03-11		D	62611		2872.66	NAVD88	1	Z			А
1949-03-11		D	72019	115.34			1	Z			Α
1958-08-19		D	62610		2887.81	NGVD29	1	Z			А
1958-08-19		D	62611		2889.37	NAVD88	1	Z			Α
1958-08-19		D	72019	98.63			1	Z			А
1959-03-24		D	62610		2887.84	NGVD29	1	Z			Α
1959-03-24		D	62611		2889.40	NAVD88	1	Z			А
1959-03-24		D	72019	98.60			1	Z			Α
1978-01-13		D	62610		2891.21	NGVD29	1	Z			А
1978-01-13		D	62611		2892.77	NAVD88	1	Z			Α
1978-01-13		D	72019	95.23			1	Z			Α
1983-02-01		D	62610		2890.81	NGVD29	1	Z			Α
1983-02-01		D	62611		2892.37	NAVD88	1	Z			Α
1983-02-01		D	72019	95.63			1	Z			Α
1987-10-14		D	62610		2889.75	NGVD29	1	Z			Α
1987-10-14		D	62611		2891.31	NAVD88	1	Z			Α
1987-10-14		D	72019	96.69			1	Z			А
1988-04-06		D	62610		2889.51	NGVD29	1	Z			А
1988-04-06		D	62611		2891.07	NAVD88	1	Z			А
1988-04-06		D	72019	96.93			1	Z			Α
1992-11-03		D	62610		2888.31	NGVD29	1	S			А
1992-11-03		D	62611		2889.87	NAVD88	1	S			Α
1992-11-03		D	72019	98.13			1	S			А

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet

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

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

Accessibility FOIA Privacy Policies and Notices

<u>U.S. Department of the Interior</u> | <u>U.S. Geological Survey</u> **Title: Groundwater for USA: Water Levels**

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2023-02-10 14:24:59 EST

0.34 0.25 nadww01





APPENDIX B

Lithologic Soil Sampling Logs

								Sample Name: SS01	Date: 02/14/2023			
	7						B .4	Site Name: Cabo Wabo Federal 70				
			N	3	OL	_ U	V	Incident Number: NAPP2236129464				
								Job Number: 03D2024143				
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Peter Van Patten Method: Hand Auger				
Coordinates: 32.086373,-103.963575								Hole Diameter: 4"	Total Depth: 0.5'			
Comm	ents: Fie	ld screen	ing co	nducted w			PID for chloride and vapor, respec	tively. Chloride test				
perfor	erformed with 1:4 dilution factor of soil to distilled water. 40% chloride correction factor included. M - Moist											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic De	scriptions			
Dry	3421	1.4	N	SS01	0.2	0	ССНЕ	Caliche: tan, pink, off white	, some sand/gravel			
М	ND	1.1	N	SS01A	0.5	- - _ 1	SP-SM	Sand: tan to brown, mediui graded with silt, some grav	m to fine grain, poorly el			
					+	-						
					}	2						
					_	-						
					†	3						
					†	<u>-</u> -						
					-	4						
					+	<u>-</u> 5						
]	_						
					-	6						
					1	<u>-</u> -						
					-	_ 7 -						
					+	- - _ 8						
]	- -						
					+	9						
					-	 10						
					1	~ - -						
					+	11						
					† 	- -						
						12						

							Sample Name: SS02	Date: 02/14/2023			
						B.4	Site Name: Cabo Wabo Federal 70				
		N	3	OL	_ U	V	Incident Number: NAPP2236129464				
							Job Number: 03D2024143				
	LITHOL	IOGIO	/ SOIL S	SAMPLING		Logged By: Peter Van Patten Method: Hand Auger					
Coordinates: 3						Hole Diameter: 4"	Total Depth: 0.5'				
Comments: Fi	eld screen	ning co	nducted w			PID for chloride and vapor, respec orrection factor included. M - Moi	tively. Chloride test				
Moisture Content Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic De	scriptions			
Dry 1276	1.6	N	SS02	0.2	0	CCHE	Caliche: tan, pink, off white	, some sand/gravel			
M ND	1.5	N	SS02A	0.5	- - _ 1	SP-SM	Sand: tan to brown, mediur graded with silt, some grav	m to fine grain, poorly el			
					2						

							Sample Name: SS03	Date: 02/14/2023	
						B .4	Site Name: Cabo Wabo Federal 70		
	E	N	5	OL	J	M	Incident Number: NAPP22361294		
							Job Number: 03D2024143		
	LITHOL	OGI	^ / SOIL S	SAMPLING	LOG		Logged By: Peter Van Patten	Method: Hand Auger	
Coordinates: 3				AIVII LIIVO	100		Hole Diameter: 4"	Total Depth: 0.5'	
				rith HACH Ch	loride Test S	Strips and	PID for chloride and vapor, respec	·	
		-					orrection factor included. M - Moi	•	
Moisture Content Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic De	scriptions	
Dry 571	1.3	Z	SS03	0.2	0	ССНЕ	Caliche: tan, pink, off white	, some sand/gravel	
M ND	1.3	N	SS03A	0.5	_ 1	SP-SM	Sand: tan to brown, mediur graded with silt, some grav	m to fine grain, poorly el	
					- 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11				



APPENDIX C

Photographic Log

ENSOLUM

Photographic Log

COG Operating, LLC
Cabo Wabo Federal Com 705H
Incident Number NAPP2236129464



Photograph: 1 Date: 1/15/2023

Description: Soil staining in release footprint.

View: South



Photograph: 2 Date: 2/14/2023

Description: Delineation activities.

View: North



Photograph: 3 Date: 3/9/2023

Description: Excavation activities.

View: South



Photograph: 4 Date: 3/13/2023

Description: Backfill Activities

View: South



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 2/20/2023 2:49:57 PM

JOB DESCRIPTION

Cabo Wabo Federal Com 705H SDG NUMBER 03D2024143

JOB NUMBER

890-4106-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

Authorization

Generated 2/20/2023 2:49:57 PM

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

Client: Ensolum Project/Site: Cabo Wabo Federal Com 705H Laboratory Job ID: 890-4106-1 SDG: 03D2024143

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Definitions/Glossary

Job ID: 890-4106-1 Client: Ensolum Project/Site: Cabo Wabo Federal Com 705H SDG: 03D2024143

Qualifiers

GC VOA Qualifier

LCS and/or LCSD is outside acceptance limits, high biased.

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

GC Semi VOA

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

Qualifier Description

Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

U Indicates the analyte was analyzed for but not detected.

Glossary

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

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

Duplicate Error Ratio (normalized absolute difference)

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

Eurofins Carlsbad

Case Narrative

Client: Ensolum

Job ID: 890-4106-1 Project/Site: Cabo Wabo Federal Com 705H SDG: 03D2024143

Job ID: 890-4106-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4106-1

Receipt

The samples were received on 2/14/2023 2:30 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.4°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS01 (890-4106-1), SS02 (890-4106-2), SS03 (890-4106-3), SS04 (890-4106-4), SS05 (890-4106-5), SS06 (890-4106-6), SS07 (890-4106-7), SS01A (890-4106-8), SS02A (890-4106-9) and SS03A (890-4106-10).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: SS01 (890-4106-1), SS02 (890-4106-2), SS03 (890-4106-3), SS04 (890-4106-4), SS05 (890-4106-5), SS06 (890-4106-6), SS07 (890-4106-7), SS01A (890-4106-8), SS02A (890-4106-9), SS03A (890-4106-10), (890-4110-A-4-C MS), (890-4110-A-4-D MSD), (880-24215-A-5-A MB), (880-24215-A-5-B MDLV) and (880-24215-A-6-A MDLV). Evidence of matrix interferences is not obvious.

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

GC Semi VOA

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-46577 and analytical batch 880-46560 was outside control limits. Sample non-homogeneity is suspected.

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

HPLC/IC

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

Matrix: Solid

Lab Sample ID: 890-4106-1

Client Sample Results

Client: Ensolum Job ID: 890-4106-1
Project/Site: Cabo Wabo Federal Com 705H SDG: 03D2024143

Client Sample ID: SS01

Date Collected: 02/14/23 09:40 Date Received: 02/14/23 14:30

Sample Depth: 0.2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U *+	0.00202	mg/Kg		02/17/23 11:13	02/17/23 19:30	1
Toluene	<0.00202	U	0.00202	mg/Kg		02/17/23 11:13	02/17/23 19:30	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		02/17/23 11:13	02/17/23 19:30	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		02/17/23 11:13	02/17/23 19:30	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		02/17/23 11:13	02/17/23 19:30	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		02/17/23 11:13	02/17/23 19:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130			02/17/23 11:13	02/17/23 19:30	1
1,4-Difluorobenzene (Surr)	105		70 - 130			02/17/23 11:13	02/17/23 19:30	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			02/20/23 14:09	1
: Method: SW846 8015 NM - Diese	•		GC)					·
Method: SW846 8015 NM - Diese Analyte	Result	Qualifier		Unit	D	Prepared	Analyzed	Dil Fac
	•	Qualifier	GC)		<u>D</u>	Prepared		Dil Fac
Analyte Total TPH	Result <49.9	Qualifier U	RL 49.9	Unit	<u>D</u>	Prepared	Analyzed	
Analyte	Result <49.9 sel Range Orga	Qualifier U	RL 49.9	Unit	<u>D</u>	Prepared Prepared	Analyzed	1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result <49.9 sel Range Orga Result	Qualifier U	RL 49.9 (GC)	Unit mg/Kg			Analyzed 02/19/23 12:20	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9 sel Range Orga Result <49.9	Qualifier U nics (DRO) Qualifier U F2	(GC) RL 49.9 (GC) RL 49.9	Unit mg/Kg Unit mg/Kg		Prepared 02/17/23 08:57	Analyzed 02/19/23 12:20 Analyzed 02/17/23 21:26	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U F2	(GC) RL RL RL	Unit mg/Kg		Prepared	Analyzed 02/19/23 12:20 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9 sel Range Orga Result <49.9	Qualifier U nics (DRO) Qualifier U F2	(GC) RL 49.9 (GC) RL 49.9	Unit mg/Kg Unit mg/Kg		Prepared 02/17/23 08:57	Analyzed 02/19/23 12:20 Analyzed 02/17/23 21:26	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U nics (DRO) Qualifier U F2	(GC) RL 49.9 (GC) RL 49.9 49.9	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 02/17/23 08:57 02/17/23 08:57	Analyzed 02/19/23 12:20 Analyzed 02/17/23 21:26 02/17/23 21:26	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier U nics (DRO) Qualifier U F2 U	GC) RL 49.9 (GC) RL 49.9 49.9 49.9	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 02/17/23 08:57 02/17/23 08:57	Analyzed 02/19/23 12:20 Analyzed 02/17/23 21:26 02/17/23 21:26 02/17/23 21:26	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <49.9	Qualifier U nics (DRO) Qualifier U F2 U	GC) RL 49.9 (GC) RL 49.9 49.9 49.9 Limits	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 02/17/23 08:57 02/17/23 08:57 02/17/23 08:57 Prepared	Analyzed 02/19/23 12:20 Analyzed 02/17/23 21:26 02/17/23 21:26 Analyzed Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <49.9	Qualifier U nics (DRO) Qualifier U F2 U U Qualifier	GC) RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 02/17/23 08:57 02/17/23 08:57 02/17/23 08:57 Prepared 02/17/23 08:57	Analyzed 02/19/23 12:20 Analyzed 02/17/23 21:26 02/17/23 21:26 Analyzed 02/17/23 21:26	Dil Fac 1 1 Dil Fac 1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U nics (DRO) Qualifier U F2 U U Qualifier	GC) RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 02/17/23 08:57 02/17/23 08:57 02/17/23 08:57 Prepared 02/17/23 08:57	Analyzed 02/19/23 12:20 Analyzed 02/17/23 21:26 02/17/23 21:26 Analyzed 02/17/23 21:26	Dil Fac 1 1 1 Dil Fac

Client Sample ID: SS02

Date Collected: 02/14/23 09:30 Date Received: 02/14/23 14:30

Sample Depth: 0.2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *+	0.00199	mg/Kg		02/17/23 11:13	02/17/23 19:50	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/17/23 11:13	02/17/23 19:50	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/17/23 11:13	02/17/23 19:50	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		02/17/23 11:13	02/17/23 19:50	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/17/23 11:13	02/17/23 19:50	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/17/23 11:13	02/17/23 19:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	155	S1+	70 - 130			02/17/23 11:13	02/17/23 19:50	1

Eurofins Carlsbad

Lab Sample ID: 890-4106-2

Matrix: Solid

2

3

5

10

15

13

Job ID: 890-4106-1

Client: Ensolum Project/Site: Cabo Wabo Federal Com 705H SDG: 03D2024143

Lab Sample ID: 890-4106-2

Client Sample ID: SS02 Date Collected: 02/14/23 09:30 Date Received: 02/14/23 14:30

Matrix: Solid

Sample Depth: 0.2

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

Surrogate	%Recovery (Qualifier	Limits	Prepared	Analyzed	Dil Fac
1.4-Difluorobenzene (Surr)	106		70 - 130	02/17/23 11:13	02/17/23 19:50	

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398 U	0.00398	mg/Kg			02/20/23 14:09	1

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

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 U	50.0	ma/Ka			02/19/23 12:20	

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

······································								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/17/23 08:57	02/17/23 22:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/17/23 08:57	02/17/23 22:31	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/17/23 08:57	02/17/23 22:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91	70 - 130	02/17/23 08:57	02/17/23 22:31	1
o-Terphenyl	86	70 - 130	02/17/23 08:57	02/17/23 22:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte		Qualifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1140	25.0	mg/Kg			02/17/23 20:19	5

Client Sample ID: SS03 Lab Sample ID: 890-4106-3

Date Collected: 02/14/23 09:20 Date Received: 02/14/23 14:30

Sample Depth: 0.2

ı	Method: SW846 8021B	Valatila Ossasia	O = (OO)

mountain criterio cozarza ronat	no organio comp	Janua (Ja	,					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *+	0.00200	mg/Kg		02/17/23 11:13	02/17/23 20:10	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/17/23 11:13	02/17/23 20:10	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/17/23 11:13	02/17/23 20:10	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		02/17/23 11:13	02/17/23 20:10	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/17/23 11:13	02/17/23 20:10	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		02/17/23 11:13	02/17/23 20:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	145	S1+	70 - 130			02/17/23 11:13	02/17/23 20:10	1
1 4 Diffuorabanzana (Surr)	100		70 120			00/17/00 11:10	02/17/22 20:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Anaiyzea	DII Fac
4-Bromofluorobenzene (Surr)	145	S1+	70 - 130	02/17/23 11:13	02/17/23 20:10	1
1,4-Difluorobenzene (Surr)	109		70 - 130	02/17/23 11:13	02/17/23 20:10	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00399	U	0.00399	mg/Kg			02/20/23 14:09	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			02/19/23 12:20	1

Eurofins Carlsbad

Matrix: Solid

2/20/2023

Client Sample Results

Client: Ensolum Job ID: 890-4106-1 Project/Site: Cabo Wabo Federal Com 705H SDG: 03D2024143

Client Sample ID: SS03 Lab Sample ID: 890-4106-3 Matrix: Solid

Date Collected: 02/14/23 09:20 Date Received: 02/14/23 14:30

Sample Depth: 0.2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8	mg/Kg		02/17/23 08:57	02/17/23 22:53	1
GRO)-C6-C10								
Diesel Range Organics (Over	<49.8	U	49.8	mg/Kg		02/17/23 08:57	02/17/23 22:53	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		02/17/23 08:57	02/17/23 22:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
I-Chlorooctane	94		70 - 130			02/17/23 08:57	02/17/23 22:53	1
p-Terphenyl	89		70 - 130			02/17/23 08:57	02/17/23 22:53	1

Client Sample ID: SS04 Lab Sample ID: 890-4106-4 Matrix: Solid

4.99

mg/Kg

736

Date Collected: 02/14/23 11:30

Date Received: 02/14/23 14:30

Sample Depth: 0.2

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U *+	0.00198	mg/Kg		02/17/23 11:13	02/17/23 20:31	1
Toluene	<0.00198	U	0.00198	mg/Kg		02/17/23 11:13	02/17/23 20:31	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		02/17/23 11:13	02/17/23 20:31	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		02/17/23 11:13	02/17/23 20:31	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		02/17/23 11:13	02/17/23 20:31	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		02/17/23 11:13	02/17/23 20:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	144	S1+	70 - 130			02/17/23 11:13	02/17/23 20:31	1
1,4-Difluorobenzene (Surr)	105		70 - 130			02/17/23 11:13	02/17/23 20:31	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			02/20/23 14:09	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			02/19/23 12:20	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		02/17/23 08:57	02/17/23 23:14	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		02/17/23 08:57	02/17/23 23:14	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		02/17/23 08:57	02/17/23 23:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
			70 - 130			02/17/23 08:57	02/17/23 23:14	1
1-Chlorooctane	77		10 - 130			02/11/23 06.57	02/11/23 23.14	1

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02/17/23 20:25

Job ID: 890-4106-1

Client: Ensolum Project/Site: Cabo Wabo Federal Com 705H SDG: 03D2024143

Lab Sample ID: 890-4106-4

Date Collected: 02/14/23 11:30 Date Received: 02/14/23 14:30

Client Sample ID: SS04

Matrix: Solid

Sample Depth: 0.2

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	15.3		4.95	mg/Kg			02/17/23 20:31	1	

Client Sample ID: SS05 Lab Sample ID: 890-4106-5 Matrix: Solid

Date Collected: 02/14/23 11:35 Date Received: 02/14/23 14:30

Sample Depth: 0.2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U *+	0.00199	mg/Kg		02/17/23 11:13	02/17/23 20:51	
Toluene	< 0.00199	U	0.00199	mg/Kg		02/17/23 11:13	02/17/23 20:51	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		02/17/23 11:13	02/17/23 20:51	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		02/17/23 11:13	02/17/23 20:51	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		02/17/23 11:13	02/17/23 20:51	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/17/23 11:13	02/17/23 20:51	,
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	143	S1+	70 - 130			02/17/23 11:13	02/17/23 20:51	1
1,4-Difluorobenzene (Surr)	106		70 - 130			02/17/23 11:13	02/17/23 20:51	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/20/23 14:09	1
Method: SW846 8015 NM - Diese		, , ,	,					
Analyte		Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			02/19/23 12:20	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	-50.0	U	50.0	mg/Kg		02/17/23 08:57	02/17/23 23:37	1
5 5	<50.0		30.0	mg/rtg		02/11/20 00:01	02/11/23 23.37	
(GRO)-C6-C10 Diesel Range Organics (Over	<50.0 <50.0		50.0	mg/Kg		02/17/23 08:57	02/17/23 23:37	1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)		U						1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/17/23 08:57	02/17/23 23:37	
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<50.0 <50.0	U	50.0	mg/Kg		02/17/23 08:57 02/17/23 08:57	02/17/23 23:37 02/17/23 23:37	1 Dil Fac
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<50.0 <50.0 %Recovery	U	50.0 50.0 <i>Limits</i>	mg/Kg		02/17/23 08:57 02/17/23 08:57 Prepared	02/17/23 23:37 02/17/23 23:37 Analyzed	Dil Fac
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<50.0 <50.0 	U U Qualifier	50.0 50.0 Limits 70 - 130 70 - 130	mg/Kg		02/17/23 08:57 02/17/23 08:57 Prepared 02/17/23 08:57	02/17/23 23:37 02/17/23 23:37 Analyzed 02/17/23 23:37	1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<50.0 <50.0 **Recovery 75 73 Chromatograp	U U Qualifier	50.0 50.0 Limits 70 - 130 70 - 130	mg/Kg	D	02/17/23 08:57 02/17/23 08:57 Prepared 02/17/23 08:57	02/17/23 23:37 02/17/23 23:37 Analyzed 02/17/23 23:37	1 Dil Fac

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Client Sample Results

Client: Ensolum Job ID: 890-4106-1
Project/Site: Cabo Wabo Federal Com 705H SDG: 03D2024143

Client Sample ID: SS06 Lab Sample ID: 890-4106-6

Date Collected: 02/14/23 11:40 Matrix: Solid
Date Received: 02/14/23 14:30

Sample Depth: 0.2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U *+	0.00198	mg/Kg		02/17/23 11:13	02/17/23 21:12	1
Toluene	<0.00198	U	0.00198	mg/Kg		02/17/23 11:13	02/17/23 21:12	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		02/17/23 11:13	02/17/23 21:12	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		02/17/23 11:13	02/17/23 21:12	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		02/17/23 11:13	02/17/23 21:12	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		02/17/23 11:13	02/17/23 21:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	146	S1+	70 - 130			02/17/23 11:13	02/17/23 21:12	1
1,4-Difluorobenzene (Surr)	107		70 - 130			02/17/23 11:13	02/17/23 21:12	1
- Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			02/20/23 14:09	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) ((3C)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			02/19/23 12:20	1
- Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/17/23 08:57	02/17/23 23:59	1
<u> </u>	-50.0					02/17/23 08:57	02/17/23 23:59	
5 5 ,	<50.0	U	50.0	mg/Kg			02/11/20 20.09	1
Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<50.0 <50.0		50.0 50.0	mg/Kg mg/Kg		02/17/23 08:57	02/17/23 23:59	
C10-C28)		U				02/17/23 08:57 Prepared		1
C10-C28) OII Range Organics (Over C28-C36)	<50.0	U	50.0				02/17/23 23:59	1 Dil Fac
C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<50.0	U	50.0			Prepared	02/17/23 23:59 Analyzed	1 Dil Fac
C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<50.0 	U Qualifier	50.0 Limits 70 - 130 70 - 130			Prepared 02/17/23 08:57	02/17/23 23:59 Analyzed 02/17/23 23:59	1 1 Dil Fac
C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<50.0 **Recovery	U Qualifier	50.0 Limits 70 - 130 70 - 130		D	Prepared 02/17/23 08:57	02/17/23 23:59 Analyzed 02/17/23 23:59	1 Dil Fac

Client Sample ID: SS07 Lab Sample ID: 890-4106-7

Date Collected: 02/14/23 11:50 Date Received: 02/14/23 14:30

Sample Depth: 0.2

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

Allalyte	Result	Qualifier	NL.	Ollit L	riepaieu	Allalyzeu	Dil Fac
Benzene	<0.00198	U *+	0.00198	mg/Kg	02/17/23 11:13	02/17/23 21:32	1
Toluene	<0.00198	U	0.00198	mg/Kg	02/17/23 11:13	02/17/23 21:32	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg	02/17/23 11:13	02/17/23 21:32	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg	02/17/23 11:13	02/17/23 21:32	1
o-Xylene	<0.00198	U	0.00198	mg/Kg	02/17/23 11:13	02/17/23 21:32	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg	02/17/23 11:13	02/17/23 21:32	1
Surramata	0/ D agayamı	Ovalifian	Limits		Dramarad	Amalumad	Dil Fac
Surrogate	%Recovery	Quaimer	Limits		Prepared	Analyzed	DII Fac
4-Bromofluorobenzene (Surr)	149	S1+	70 - 130		02/17/23 11:13	02/17/23 21:32	1

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10

12

13

Matrix: Solid

Client: Ensolum Job ID: 890-4106-1 Project/Site: Cabo Wabo Federal Com 705H SDG: 03D2024143

Client Sample ID: SS07 Lab Sample ID: 890-4106-7

Date Collected: 02/14/23 11:50 Matrix: Solid Date Received: 02/14/23 14:30

Sample Depth: 0.2

Method: SW846 8021B - Vol	platile Organic Compounds	(GC) (Continued)
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Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	108	70 - 130	02/17/23 11:13	02/17/23 21:32	1

Method: TAL SOP Total BTEX - Total BTE	X Calculation

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396 11	0.00396	ma/Ka			02/20/23 14:09	1

ı								
ı	Method: 9	SW846 8	1015 NM	- Diasal	Range	Organics	(DRO)	(GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	IJ	49.9	ma/Ka			02/19/23 12:20	1

Method: SW846 8015B NM - Diesel Range Organics	(DRO)	(GC)	١
motified. Offerto College Ithin Biodol Rungo Organico	(5.10)	, , , , ,	,

		(,	\ - - /					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		02/17/23 08:57	02/18/23 00:21	1
(GRO)-C6-C10	40.0		40.0			00/47/00 00 57	00/40/00 00 04	
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		02/17/23 08:57	02/18/23 00:21	1
C10-C28)	40.0		40.0			00/47/00 00 57	00/40/00 00 04	
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/17/23 08:57	02/18/23 00:21	1
Surrogato	% Pacayony	Ovalifian	Limite			Propared	Analyzod	Dil Eac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	78	70 - 130	02/17/23 08:57	02/18/23 00:21	1
o-Terphenyl	75	70 - 130	02/17/23 08:57	02/18/23 00:21	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19.7		4.99	mg/Kg			02/17/23 20:59	1

Client Sample ID: SS01A Lab Sample ID: 890-4106-8

Date Collected: 02/14/23 11:00 Date Received: 02/14/23 14:30

Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC))
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Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U *+	0.00202	mg/Kg		02/17/23 11:13	02/17/23 21:53	1
Toluene	<0.00202	U	0.00202	mg/Kg		02/17/23 11:13	02/17/23 21:53	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		02/17/23 11:13	02/17/23 21:53	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		02/17/23 11:13	02/17/23 21:53	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		02/17/23 11:13	02/17/23 21:53	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		02/17/23 11:13	02/17/23 21:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	145	S1+	70 - 130			02/17/23 11:13	02/17/23 21:53	1
4 4 5 7 7 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4								

Surrogate	%Recovery	Qualifier	Limits	Prepared	Anaiyzea	DII Fac
4-Bromofluorobenzene (Surr)	145	S1+	70 - 130	02/17/23 11:13	02/17/23 21:53	1
1,4-Difluorobenzene (Surr)	106		70 - 130	02/17/23 11:13	02/17/23 21:53	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00403	U	0.00403	ma/Ka			02/20/23 14:09	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			02/19/23 12:20	1

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Matrix: Solid

Released to Imaging: 9/8/2023 1:22:18 PM

Client: Ensolum Job ID: 890-4106-1 Project/Site: Cabo Wabo Federal Com 705H SDG: 03D2024143

Client Sample ID: SS01A Lab Sample ID: 890-4106-8

Date Collected: 02/14/23 11:00 Matrix: Solid Date Received: 02/14/23 14:30

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		02/17/23 08:57	02/18/23 00:43	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		02/17/23 08:57	02/18/23 00:43	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/17/23 08:57	02/18/23 00:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130			02/17/23 08:57	02/18/23 00:43	1
o-Terphenyl	73		70 - 130			02/17/23 08:57	02/18/23 00:43	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
			D.	Unit	D	Duamanad	Amalumad	Dil Fac
Analyte	Result	Qualifier	RL	Unit	U	Prepared	Analyzed	DII Fac

Lab Sample ID: 890-4106-9 Client Sample ID: SS02A Matrix: Solid

Date Collected: 02/14/23 11:10 Date Received: 02/14/23 14:30

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U *+	0.00198	mg/Kg		02/17/23 11:13	02/17/23 22:13	1
Toluene	<0.00198	U	0.00198	mg/Kg		02/17/23 11:13	02/17/23 22:13	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		02/17/23 11:13	02/17/23 22:13	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		02/17/23 11:13	02/17/23 22:13	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		02/17/23 11:13	02/17/23 22:13	
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		02/17/23 11:13	02/17/23 22:13	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	145	S1+	70 - 130			02/17/23 11:13	02/17/23 22:13	-
1,4-Difluorobenzene (Surr)	103		70 - 130			02/17/23 11:13	02/17/23 22:13	
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)					
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9		49.9	mg/Kg	=		02/19/23 12:20	
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/17/23 08:57	02/18/23 01:06	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/17/23 08:57	02/18/23 01:06	
•	<49.9	U	49.9	mg/Kg		02/17/23 08:57	02/18/23 01:06	
Oll Range Organics (Over C28-C36)	\43.5							
Oll Range Organics (Over C28-C36) Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

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02/18/23 01:06

02/17/23 08:57

70 - 130

o-Terphenyl

Client: Ensolum Job ID: 890-4106-1 Project/Site: Cabo Wabo Federal Com 705H

SDG: 03D2024143

Client Sample ID: SS02A

Lab Sample ID: 890-4106-9

Date Collected: 02/14/23 11:10 Date Received: 02/14/23 14:30 Matrix: Solid

Sample Depth: 0.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	42.3		4.95	mg/Kg			02/17/23 21:10	1	

Lab Sample ID: 890-4106-10 Client Sample ID: SS03A

Matrix: Solid

Date Collected: 02/14/23 11:20 Date Received: 02/14/23 14:30

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00201	U *+	0.00201	mg/Kg		02/17/23 11:13	02/17/23 22:33	
Toluene	<0.00201	U	0.00201	mg/Kg		02/17/23 11:13	02/17/23 22:33	
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		02/17/23 11:13	02/17/23 22:33	
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		02/17/23 11:13	02/17/23 22:33	
o-Xylene	<0.00201	U	0.00201	mg/Kg		02/17/23 11:13	02/17/23 22:33	
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		02/17/23 11:13	02/17/23 22:33	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	145	S1+	70 - 130			02/17/23 11:13	02/17/23 22:33	
1,4-Difluorobenzene (Surr)	106		70 - 130			02/17/23 11:13	02/17/23 22:33	
· Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00402	U	0.00402	mg/Kg			02/20/23 14:09	
Method: SW846 8015 NM - Diese	al Range Organ	ics (DRO) ((GC)					
mothod. Offoro out of the Biood	n italige Olgan							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Analyte Total TPH			•	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 02/19/23 12:20	
	<49.9	U	RL 49.9		<u>D</u>	Prepared		
Total TPH	<49.9	U	RL 49.9		<u>D</u>	Prepared Prepared		,
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	<49.9	unics (DRO) Qualifier	RL 49.9 (GC)	mg/Kg			02/19/23 12:20	Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<49.9 sel Range Orga Result	unics (DRO) Qualifier	RL 49.9 (GC)	mg/Kg		Prepared	02/19/23 12:20 Analyzed	Dil Fa
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	<49.9 sel Range Orga Result <49.9	unics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9	mg/Kg Unit mg/Kg		Prepared 02/17/23 08:57	02/19/23 12:20 Analyzed 02/18/23 01:28	Dil Fa
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.9 sel Range Orga Result <49.9 <49.9	unics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/17/23 08:57 02/17/23 08:57	02/19/23 12:20 Analyzed 02/18/23 01:28 02/18/23 01:28	Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<49.9 sel Range Orga Result <49.9 <49.9 <49.9	unics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/17/23 08:57 02/17/23 08:57 02/17/23 08:57	02/19/23 12:20 Analyzed 02/18/23 01:28 02/18/23 01:28 02/18/23 01:28	Dil Fa
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<49.9 sel Range Orga Result <49.9 <49.9 <49.9 %Recovery	unics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/17/23 08:57 02/17/23 08:57 02/17/23 08:57 Prepared	02/19/23 12:20 Analyzed 02/18/23 01:28 02/18/23 01:28 02/18/23 01:28 Analyzed	Dil Fa
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<49.9 sel Range Orga Result <49.9 <49.9 <49.9 **Recovery 76 73	U unics (DRO) Qualifier U U U Qualifier	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/17/23 08:57 02/17/23 08:57 02/17/23 08:57 Prepared 02/17/23 08:57	02/19/23 12:20 Analyzed 02/18/23 01:28 02/18/23 01:28 02/18/23 01:28 Analyzed 02/18/23 01:28	Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	\$\text{sel Range Orga Result} \\	U unics (DRO) Qualifier U U U Qualifier	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/17/23 08:57 02/17/23 08:57 02/17/23 08:57 Prepared 02/17/23 08:57	02/19/23 12:20 Analyzed 02/18/23 01:28 02/18/23 01:28 02/18/23 01:28 Analyzed 02/18/23 01:28	Dil Fac

Surrogate Summary

Client: Ensolum

Project/Site: Cabo Wabo Federal Com 705H

SDG: 03D2024143

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
390-4106-1	SS01	138 S1+	105	
390-4106-2	SS02	155 S1+	106	
390-4106-3	SS03	145 S1+	109	
390-4106-4	SS04	144 S1+	105	
390-4106-5	SS05	143 S1+	106	
390-4106-6	SS06	146 S1+	107	
390-4106-7	SS07	149 S1+	108	
90-4106-8	SS01A	145 S1+	106	
90-4106-9	SS02A	145 S1+	103	
90-4106-10	SS03A	145 S1+	106	
90-4110-A-4-C MS	Matrix Spike	134 S1+	105	
90-4110-A-4-D MSD	Matrix Spike Duplicate	131 S1+	104	
CS 880-46597/1-A	Lab Control Sample	119	106	
CSD 880-46597/2-A	Lab Control Sample Dup	119	106	
MB 880-46597/5-A	Method Blank	126	101	
Surrogate Legend				
BFB = 4-Bromofluorober	nzene (Surr)			
DFBZ = 1,4-Difluorobenz	zene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

				Tiop type: Total
-				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-4106-1	SS01	94	88	
890-4106-1 MS	SS01	104	90	
890-4106-1 MSD	SS01	98	79	
890-4106-2	SS02	91	86	
890-4106-3	SS03	94	89	
890-4106-4	SS04	77	75	
890-4106-5	SS05	75	73	
890-4106-6	SS06	79	77	
890-4106-7	SS07	78	75	
890-4106-8	SS01A	76	73	
890-4106-9	SS02A	74	71	
890-4106-10	SS03A	76	73	
LCS 880-46577/2-A	Lab Control Sample	105	106	
LCSD 880-46577/3-A	Lab Control Sample Dup	103	93	
MB 880-46577/1-A	Method Blank	88	91	
Surrogate Legend				
1CO = 1-Chlorooctane				
OTPH = o-Terphenyl				

QC Sample Results

Client: Ensolum Job ID: 890-4106-1 SDG: 03D2024143 Project/Site: Cabo Wabo Federal Com 705H

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-46597/5-A

Matrix: Solid Analysis Batch: 46567 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 46597

	MB N	MB						
Analyte	Result 0	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200 U	U	0.00200	mg/Kg		02/17/23 11:13	02/17/23 13:38	
Toluene	<0.00200 L	U	0.00200	mg/Kg		02/17/23 11:13	02/17/23 13:38	
Ethylbenzene	<0.00200 L	U	0.00200	mg/Kg		02/17/23 11:13	02/17/23 13:38	
m-Xylene & p-Xylene	<0.00400 L	U	0.00400	mg/Kg		02/17/23 11:13	02/17/23 13:38	
o-Xylene	<0.00200 L	U	0.00200	mg/Kg		02/17/23 11:13	02/17/23 13:38	
Xylenes, Total	<0.00400 L	U	0.00400	mg/Kg		02/17/23 11:13	02/17/23 13:38	

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepare	ed	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130	02/17/23	11:13	02/17/23 13:38	1
1,4-Difluorobenzene (Surr)	101		70 - 130	02/17/23	11:13	02/17/23 13:38	1

Client Sample ID: Lab Control Sample Lab Sample ID: LCS 880-46597/1-A

Matrix: Solid

Analysis Batch: 46567

Prep Type: Total/NA

Prep Batch: 46597

	Spike	LCS	LCS				%Rec	
Analyte	Added R	esult	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	1328	*+	mg/Kg		133	70 - 130	
Toluene	0.100 0.	1239		mg/Kg		124	70 - 130	
Ethylbenzene	0.100 0.	1222		mg/Kg		122	70 - 130	
m-Xylene & p-Xylene	0.200 0.	2523		mg/Kg		126	70 - 130	
o-Xylene	0.100 0.	1202		mg/Kg		120	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	119	70 - 130
1,4-Difluorobenzene (Surr)	106	70 - 130

Lab Sample ID: LCSD 880-46597/2-A

Matrix: Solid

Analysis Batch: 46567

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 46597

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1267		mg/Kg		127	70 - 130	5	35	
Toluene	0.100	0.1183		mg/Kg		118	70 - 130	5	35	
Ethylbenzene	0.100	0.1165		mg/Kg		117	70 - 130	5	35	
m-Xylene & p-Xylene	0.200	0.2414		mg/Kg		121	70 - 130	4	35	
o-Xylene	0.100	0.1161		mg/Kg		116	70 - 130	3	35	

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1.4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 890-4110-A-4-C MS

Matrix: Solid

Analysis Batch: 46567

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

Prep Batch: 46597

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00202	U *+	0.101	0.1162		mg/Kg		115	70 - 130	
Toluene	<0.00202	U	0.101	0.1214		mg/Kg		120	70 - 130	

QC Sample Results

Job ID: 890-4106-1 Client: Ensolum Project/Site: Cabo Wabo Federal Com 705H SDG: 03D2024143

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

Lab Sample ID: 890-4110-A-4-C MS

Lab Sample ID: 890-4110-A-4-D MSD

Matrix: Solid

Matrix: Solid

Analysis Batch: 46567

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 46597

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Ethylbenzene <0.00202 U 0.101 0.1211 120 70 - 130 mg/Kg m-Xylene & p-Xylene <0.00403 U F1 0.202 0.2589 mg/Kg 128 70 - 130 o-Xylene <0.00202 U 0.101 0.1237 70 - 130 mg/Kg 122

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 46597

RPD

Analysis Batch: 46567 Sample Sample Spike MSD MSD Result Qualifier Result Qualifier RPD Limit Analyte babbA Unit %Rec Limits Benzene <0.00202 U*+ 0.0996 0.1139 mg/Kg 114 70 - 130 2 35 Toluene <0.00202 U 0.0996 0.1203 mg/Kg 121 70 - 130 35 Ethylbenzene <0.00202 U 0.0996 0.1211 122 70 - 130 35 mg/Kg 0 0.199 35 m-Xylene & p-Xylene <0.00403 UF1 0.2602 F1 mg/Kg 131 70 - 130 0.0996 <0.00202 U 0.1236 70 - 130 o-Xylene mg/Kg 124 0

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

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

Lab Sample ID: MB 880-46577/1-A

Matrix: Solid

Analysis Batch: 46560

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 46577

мв мв Result Qualifier RL Unit D Prepared Analyzed Dil Fac Analyte 50.0 02/17/23 08:57 02/17/23 20:20 <50.0 U Gasoline Range Organics mg/Kg (GRO)-C6-C10 02/17/23 08:57 02/17/23 20:20 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg C10-C28) OII Range Organics (Over C28-C36) <50.0 U 50.0 02/17/23 08:57 02/17/23 20:20 mg/Kg

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepare	d A	nalyzed	Dil Fac
1-Chlorooctane	88		70 - 130	02/17/23 0	8:57 02/1	7/23 20:20	1
o-Terphenyl	91		70 - 130	02/17/23 0	8:57 02/1	7/23 20:20	1

Lab Sample ID: LCS 880-46577/2-A

Matrix: Solid Analysis Batch: 46560 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Prep Batch: 46577

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics	1000	1016		mg/Kg		102	70 - 130
(GRO)-C6-C10							
Diesel Range Organics (Over	1000	1052		mg/Kg		105	70 - 130
C10-C28)							

Job ID: 890-4106-1

SDG: 03D2024143

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

LCS LCS

Lab Sample ID: LCS 880-46577/2-A

Project/Site: Cabo Wabo Federal Com 705H

Matrix: Solid

Client: Ensolum

Analysis Batch: 46560

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 46577

Surrogate %Recovery Qualifier

1-Chlorooctane 105 70 - 130 o-Terphenyl 106 70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 46577

Lab Sample ID: LCSD 880-46577/3-A **Matrix: Solid**

Analysis Batch: 46560

Spike LCSD LCSD %Rec Analyte Added Result Qualifier Unit D %Rec Limits **RPD** 1000 965.5 97 70 - 1305 Gasoline Range Organics mg/Kg

Limits

(GRO)-C6-C10 Diesel Range Organics (Over 1000 936.3 94 mg/Kg 70 - 13012 20

C10-C28)

LCSD LCSD Surrogate %Recovery Qualifier Limits 103 70 - 130 1-Chlorooctane

93 70 - 130 o-Terphenyl

Lab Sample ID: 890-4106-1 MS **Client Sample ID: SS01**

Matrix: Solid Prep Type: Total/NA

Analysis Batch: 46560 Prep Batch: 46577 Sample Sample MS MS Spike

Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.9 U F2 1000 1122 mg/Kg 110 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 1000 911.1 mg/Kg 89 70 - 130

C10-C28)

MS MS %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 104 o-Terphenyl 90 70 - 130

Lab Sample ID: 890-4106-1 MSD Client Sample ID: SS01

Matrix: Solid

Analysis Batch: 46560 Prep Batch: 46577 Sample Sample MSD MSD RPD Spike %Rec

Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit U F2 1000 773.8 F2 75 Gasoline Range Organics <49.9 70 - 130 37 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 1000 798.8 mg/Kg 78 70 - 130 13 20

C10-C28)

MSD MSD %Recovery Qualifier Surrogate Limits 1-Chlorooctane 98 70 - 130 79 70 - 130 o-Terphenyl

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Prep Type: Total/NA

RPD

Limit

20

Dil Fac

QC Sample Results

Job ID: 890-4106-1 Client: Ensolum Project/Site: Cabo Wabo Federal Com 705H SDG: 03D2024143

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-46531/1-A

Matrix: Solid

Analysis Batch: 46690

Analysis Batch: 46690

Lab Sample ID: LCS 880-46531/2-A

мв мв Analyte

Chloride <5.00 U

Result Qualifier

RL 5.00

Prepared

D

Unit

mg/Kg

02/17/23 19:45

Client Sample ID: Lab Control Sample

Client Sample ID: SS01 **Prep Type: Soluble**

Prep Type: Soluble

Prep Type: Soluble

Analyzed

Client Sample ID: Method Blank

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 243.7 mg/Kg 97 90 - 110

Lab Sample ID: LCSD 880-46531/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 46690

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 250 244.3 mg/Kg 90 - 110

Lab Sample ID: 890-4106-1 MS **Client Sample ID: SS01 Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 46690

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added Qualifier Unit %Rec Result Limits 1250 Chloride 2720 4033 106 90 - 110 mg/Kg

Lab Sample ID: 890-4106-1 MSD

Matrix: Solid

Analysis Batch: 46690

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 1250 2720 4044 mg/Kg 107 90 - 110 0 20

QC Association Summary

Client: Ensolum

Project/Site: Cabo Wabo Federal Com 705H

SDG: 03D2024143

GC VOA

Analysis Batch: 46567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4106-1	SS01	Total/NA	Solid	8021B	46597
890-4106-2	SS02	Total/NA	Solid	8021B	46597
890-4106-3	SS03	Total/NA	Solid	8021B	46597
890-4106-4	SS04	Total/NA	Solid	8021B	46597
890-4106-5	SS05	Total/NA	Solid	8021B	46597
890-4106-6	SS06	Total/NA	Solid	8021B	46597
890-4106-7	SS07	Total/NA	Solid	8021B	46597
890-4106-8	SS01A	Total/NA	Solid	8021B	46597
890-4106-9	SS02A	Total/NA	Solid	8021B	46597
890-4106-10	SS03A	Total/NA	Solid	8021B	46597
MB 880-46597/5-A	Method Blank	Total/NA	Solid	8021B	46597
LCS 880-46597/1-A	Lab Control Sample	Total/NA	Solid	8021B	46597
LCSD 880-46597/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	46597
890-4110-A-4-C MS	Matrix Spike	Total/NA	Solid	8021B	46597
890-4110-A-4-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	46597

Prep Batch: 46597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4106-1	SS01	Total/NA	Solid	5035	_
890-4106-2	SS02	Total/NA	Solid	5035	
890-4106-3	SS03	Total/NA	Solid	5035	
890-4106-4	SS04	Total/NA	Solid	5035	
890-4106-5	SS05	Total/NA	Solid	5035	
890-4106-6	SS06	Total/NA	Solid	5035	
890-4106-7	SS07	Total/NA	Solid	5035	
890-4106-8	SS01A	Total/NA	Solid	5035	
890-4106-9	SS02A	Total/NA	Solid	5035	
890-4106-10	SS03A	Total/NA	Solid	5035	
MB 880-46597/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-46597/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-46597/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4110-A-4-C MS	Matrix Spike	Total/NA	Solid	5035	
890-4110-A-4-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 46736

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-4106-1	SS01	Total/NA	Solid	Total BTEX	
890-4106-2	SS02	Total/NA	Solid	Total BTEX	
890-4106-3	SS03	Total/NA	Solid	Total BTEX	
890-4106-4	SS04	Total/NA	Solid	Total BTEX	
890-4106-5	SS05	Total/NA	Solid	Total BTEX	
890-4106-6	SS06	Total/NA	Solid	Total BTEX	
890-4106-7	SS07	Total/NA	Solid	Total BTEX	
890-4106-8	SS01A	Total/NA	Solid	Total BTEX	
890-4106-9	SS02A	Total/NA	Solid	Total BTEX	
890-4106-10	SS03A	Total/NA	Solid	Total BTEX	

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Released to Imaging: 9/8/2023 1:22:18 PM

QC Association Summary

Client: Ensolum Job ID: 890-4106-1 Project/Site: Cabo Wabo Federal Com 705H SDG: 03D2024143

GC Semi VOA

Analysis Batch: 46560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4106-1	SS01	Total/NA	Solid	8015B NM	46577
890-4106-2	SS02	Total/NA	Solid	8015B NM	46577
890-4106-3	SS03	Total/NA	Solid	8015B NM	46577
890-4106-4	SS04	Total/NA	Solid	8015B NM	46577
890-4106-5	SS05	Total/NA	Solid	8015B NM	46577
890-4106-6	SS06	Total/NA	Solid	8015B NM	46577
890-4106-7	SS07	Total/NA	Solid	8015B NM	46577
890-4106-8	SS01A	Total/NA	Solid	8015B NM	46577
890-4106-9	SS02A	Total/NA	Solid	8015B NM	46577
890-4106-10	SS03A	Total/NA	Solid	8015B NM	46577
MB 880-46577/1-A	Method Blank	Total/NA	Solid	8015B NM	46577
LCS 880-46577/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	46577
LCSD 880-46577/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	46577
890-4106-1 MS	SS01	Total/NA	Solid	8015B NM	46577
890-4106-1 MSD	SS01	Total/NA	Solid	8015B NM	46577

Prep Batch: 46577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4106-1	SS01	Total/NA	Solid	8015NM Prep	
890-4106-2	SS02	Total/NA	Solid	8015NM Prep	
890-4106-3	SS03	Total/NA	Solid	8015NM Prep	
890-4106-4	SS04	Total/NA	Solid	8015NM Prep	
890-4106-5	SS05	Total/NA	Solid	8015NM Prep	
890-4106-6	SS06	Total/NA	Solid	8015NM Prep	
890-4106-7	SS07	Total/NA	Solid	8015NM Prep	
890-4106-8	SS01A	Total/NA	Solid	8015NM Prep	
890-4106-9	SS02A	Total/NA	Solid	8015NM Prep	
890-4106-10	SS03A	Total/NA	Solid	8015NM Prep	
MB 880-46577/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-46577/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-46577/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4106-1 MS	SS01	Total/NA	Solid	8015NM Prep	
890-4106-1 MSD	SS01	Total/NA	Solid	8015NM Prep	

Analysis Batch: 46665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4106-1	SS01	Total/NA	Solid	8015 NM	
890-4106-2	SS02	Total/NA	Solid	8015 NM	
890-4106-3	SS03	Total/NA	Solid	8015 NM	
890-4106-4	SS04	Total/NA	Solid	8015 NM	
890-4106-5	SS05	Total/NA	Solid	8015 NM	
890-4106-6	SS06	Total/NA	Solid	8015 NM	
890-4106-7	SS07	Total/NA	Solid	8015 NM	
890-4106-8	SS01A	Total/NA	Solid	8015 NM	
890-4106-9	SS02A	Total/NA	Solid	8015 NM	
890-4106-10	SS03A	Total/NA	Solid	8015 NM	

Eurofins Carlsbad

Page 20 of 33

QC Association Summary

Client: Ensolum Job ID: 890-4106-1 Project/Site: Cabo Wabo Federal Com 705H SDG: 03D2024143

HPLC/IC

Leach Batch: 46531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-4106-1	SS01	Soluble	Solid	DI Leach	
890-4106-2	SS02	Soluble	Solid	DI Leach	
890-4106-3	SS03	Soluble	Solid	DI Leach	
890-4106-4	SS04	Soluble	Solid	DI Leach	
890-4106-5	SS05	Soluble	Solid	DI Leach	
890-4106-6	SS06	Soluble	Solid	DI Leach	
890-4106-7	SS07	Soluble	Solid	DI Leach	
890-4106-8	SS01A	Soluble	Solid	DI Leach	
890-4106-9	SS02A	Soluble	Solid	DI Leach	
890-4106-10	SS03A	Soluble	Solid	DI Leach	
MB 880-46531/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-46531/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-46531/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4106-1 MS	SS01	Soluble	Solid	DI Leach	
890-4106-1 MSD	SS01	Soluble	Solid	DI Leach	

Analysis Batch: 46690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4106-1	SS01	Soluble	Solid	300.0	46531
890-4106-2	SS02	Soluble	Solid	300.0	46531
890-4106-3	SS03	Soluble	Solid	300.0	46531
890-4106-4	SS04	Soluble	Solid	300.0	46531
890-4106-5	SS05	Soluble	Solid	300.0	46531
890-4106-6	SS06	Soluble	Solid	300.0	46531
890-4106-7	SS07	Soluble	Solid	300.0	46531
890-4106-8	SS01A	Soluble	Solid	300.0	46531
890-4106-9	SS02A	Soluble	Solid	300.0	46531
890-4106-10	SS03A	Soluble	Solid	300.0	46531
MB 880-46531/1-A	Method Blank	Soluble	Solid	300.0	46531
LCS 880-46531/2-A	Lab Control Sample	Soluble	Solid	300.0	46531
LCSD 880-46531/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	46531
890-4106-1 MS	SS01	Soluble	Solid	300.0	46531
890-4106-1 MSD	SS01	Soluble	Solid	300.0	46531

Client: Ensolum Job ID: 890-4106-1 Project/Site: Cabo Wabo Federal Com 705H SDG: 03D2024143

Client Sample ID: SS01 Lab Sample ID: 890-4106-1

Matrix: Solid

Date Collected: 02/14/23 09:40 Date Received: 02/14/23 14:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	46597	02/17/23 11:13	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46567	02/17/23 19:30	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46736	02/20/23 14:09	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46665	02/19/23 12:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	46577	02/17/23 08:57	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46560	02/17/23 21:26	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	46531	02/16/23 13:11	KS	EET MID
Soluble	Analysis	300.0		5			46690	02/17/23 20:02	CH	EET MID

Client Sample ID: SS02 Lab Sample ID: 890-4106-2

Date Collected: 02/14/23 09:30 Matrix: Solid

Date Received: 02/14/23 14:30

	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	46597	02/17/23 11:13	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46567	02/17/23 19:50	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46736	02/20/23 14:09	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46665	02/19/23 12:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46577	02/17/23 08:57	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46560	02/17/23 22:31	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	46531	02/16/23 13:11	KS	EET MID
Soluble	Analysis	300.0		5			46690	02/17/23 20:19	CH	EET MID

Client Sample ID: SS03 Lab Sample ID: 890-4106-3

Date Collected: 02/14/23 09:20 Date Received: 02/14/23 14:30

	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	46597	02/17/23 11:13	EL	EET MIC
Total/NA	Analysis	8021B		1	5 mL	5 mL	46567	02/17/23 20:10	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46736	02/20/23 14:09	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46665	02/19/23 12:20	SM	EET MIC
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	46577	02/17/23 08:57	SM	EET MIC
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46560	02/17/23 22:53	SM	EET MIC
Soluble	Leach	DI Leach			5.01 g	50 mL	46531	02/16/23 13:11	KS	EET MID
Soluble	Analysis	300.0		1			46690	02/17/23 20:25	CH	EET MID

Client Sample ID: SS04 Lab Sample ID: 890-4106-4

Date Collected: 02/14/23 11:30 Date Received: 02/14/23 14:30

	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	46597	02/17/23 11:13	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46567	02/17/23 20:31	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46736	02/20/23 14:09	AJ	EET MID

Eurofins Carlsbad

Matrix: Solid

Matrix: Solid

Client: Ensolum Job ID: 890-4106-1 Project/Site: Cabo Wabo Federal Com 705H SDG: 03D2024143

Client Sample ID: SS04 Lab Sample ID: 890-4106-4

Date Collected: 02/14/23 11:30 Matrix: Solid Date Received: 02/14/23 14:30

	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			46665	02/19/23 12:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	46577	02/17/23 08:57	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46560	02/17/23 23:14	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	46531	02/16/23 13:11	KS	EET MID
Soluble	Analysis	300.0		1			46690	02/17/23 20:31	CH	EET MID

Client Sample ID: SS05 Lab Sample ID: 890-4106-5

Date Collected: 02/14/23 11:35 Date Received: 02/14/23 14:30

	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	46597	02/17/23 11:13	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46567	02/17/23 20:51	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46736	02/20/23 14:09	AJ	EET MIC
Total/NA	Analysis	8015 NM		1			46665	02/19/23 12:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46577	02/17/23 08:57	SM	EET MIC
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46560	02/17/23 23:37	SM	EET MIC
Soluble	Leach	DI Leach			5 g	50 mL	46531	02/16/23 13:11	KS	EET MIC
Soluble	Analysis	300.0		1			46690	02/17/23 20:36	CH	EET MID

Client Sample ID: SS06 Lab Sample ID: 890-4106-6

Date Collected: 02/14/23 11:40 Date Received: 02/14/23 14:30

	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	46597	02/17/23 11:13	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46567	02/17/23 21:12	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46736	02/20/23 14:09	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46665	02/19/23 12:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	46577	02/17/23 08:57	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46560	02/17/23 23:59	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	46531	02/16/23 13:11	KS	EET MID
Soluble	Analysis	300.0		1			46690	02/17/23 20:53	CH	EET MID

Client Sample ID: SS07 Lab Sample ID: 890-4106-7

Date Collected: 02/14/23 11:50 Date Received: 02/14/23 14:30

	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	46597	02/17/23 11:13	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46567	02/17/23 21:32	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46736	02/20/23 14:09	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46665	02/19/23 12:20	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.02 g 1 uL	10 mL 1 uL	46577 46560	02/17/23 08:57 02/18/23 00:21	SM SM	EET MID EET MID

Eurofins Carlsbad

Matrix: Solid

Matrix: Solid

Matrix: Solid

Client: Ensolum Project/Site: Cabo Wabo Federal Com 705H

Job ID: 890-4106-1

SDG: 03D2024143

Client Sample ID: SS07

Lab Sample ID: 890-4106-7

Matrix: Solid

Date Collected: 02/14/23 11:50 Date Received: 02/14/23 14:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	46531	02/16/23 13:11	KS	EET MID
Soluble	Analysis	300.0		1			46690	02/17/23 20:59	CH	EET MID

Lab Sample ID: 890-4106-8

Matrix: Solid

Date Collected: 02/14/23 11:00 Date Received: 02/14/23 14:30

Client Sample ID: SS01A

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	46597	02/17/23 11:13	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46567	02/17/23 21:53	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46736	02/20/23 14:09	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46665	02/19/23 12:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	46577	02/17/23 08:57	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46560	02/18/23 00:43	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	46531	02/16/23 13:11	KS	EET MID
Soluble	Analysis	300.0		1			46690	02/17/23 21:05	CH	EET MID

Client Sample ID: SS02A Lab Sample ID: 890-4106-9

Date Collected: 02/14/23 11:10

Date Received: 02/14/23 14:30

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	46597	02/17/23 11:13	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46567	02/17/23 22:13	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46736	02/20/23 14:09	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46665	02/19/23 12:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	46577	02/17/23 08:57	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46560	02/18/23 01:06	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	46531	02/16/23 13:11	KS	EET MID
Soluble	Analysis	300.0		1			46690	02/17/23 21:10	CH	EET MID

Client Sample ID: SS03A Lab Sample ID: 890-4106-10

Date Collected: 02/14/23 11:20 Date Received: 02/14/23 14:30

	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	46597	02/17/23 11:13	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46567	02/17/23 22:33	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46736	02/20/23 14:09	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46665	02/19/23 12:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46577	02/17/23 08:57	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46560	02/18/23 01:28	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	46531	02/16/23 13:11	KS	EET MID
Soluble	Analysis	300.0		1			46690	02/17/23 21:16	CH	EET MID

Lab Chronicle

Client: Ensolum

Project/Site: Cabo Wabo Federal Com 705H

Job ID: 890-4106-1 SDG: 03D2024143

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-4106-1 Project/Site: Cabo Wabo Federal Com 705H

Total BTEX

SDG: 03D2024143

Laboratory: Eurofins Midland

Total BTEX

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

Authority	Program		Identification Number	Expiration Date			
Texas	NEL		P T104704400-22-25				
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 for wh			
Analysis Method	Prep Method	Matrix	Analyte				

Solid

Method Summary

Job ID: 890-4106-1 Client: Ensolum Project/Site: Cabo Wabo Federal Com 705H

SDG: 03D2024143

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum

Project/Site: Cabo Wabo Federal Com 705H

Job ID: 890-4106-1

SDG: 03D2024143

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4106-1	SS01	Solid	02/14/23 09:40	02/14/23 14:30	0.2
890-4106-2	SS02	Solid	02/14/23 09:30	02/14/23 14:30	0.2
890-4106-3	SS03	Solid	02/14/23 09:20	02/14/23 14:30	0.2
890-4106-4	SS04	Solid	02/14/23 11:30	02/14/23 14:30	0.2
890-4106-5	SS05	Solid	02/14/23 11:35	02/14/23 14:30	0.2
890-4106-6	SS06	Solid	02/14/23 11:40	02/14/23 14:30	0.2
890-4106-7	SS07	Solid	02/14/23 11:50	02/14/23 14:30	0.2
890-4106-8	SS01A	Solid	02/14/23 11:00	02/14/23 14:30	0.5
890-4106-9	SS02A	Solid	02/14/23 11:10	02/14/23 14:30	0.5
890-4106-10	SS03A	Solid	02/14/23 11:20	02/14/23 14:30	0.5

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12

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12

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

Total 200.7 / 6010

200.8 / 6020:

Relinquished by: (Signature)

Received by: (Signature)

シロ・カ・ Date/Time

128/11

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

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

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 iterms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U

Phone:

PO #

Chain of Custody

				(Chair of Custony	y					0/
eurotins	Environment	Testing	Ho	uston, T)	((281)	240-42 4-5440	00, Dall San An	as, TX (tonio, T)	Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334	-0300 09-3334		Work Order No:	der No:	2/2
	Xenco		ELF	aso, TX	(915) 6	85-34	13, Lubb	ock, TX	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296	1-1296				
			Hob	bs, NM (575) 39	2-755), Carlsb	ad, NM	Hobbs, NM (575) 392-7550. Carlsbad, NM (575) 988-3199	3-3199			Dane (of	
			Dill to: (if differen		Kalai	Kalai lannings	8					Work	,	
Toject Maliagei.	order		On to the emotions	any		90	8							
Company Name: Ensolum, LLC	1, LLC		Company Name:	Ē	Ensol	Ensolum, LLC	C					Program: UST/PST PRP] PRP Brownfields RRC Superfund	
	601 N Marienfeld St Suite 400		Address:		601 N	Marie	nfeld S	601 N Marienfeld St Suite 400	400			State of Project:		
e ZIP:	Midland, TX 79701		City, State ZIP:		Midla	nd, Tx	Midland, TX 79701					Reporting: Level II Level I	Reporting: Level II	
	-8895	Email	Email: kiennings@ensolum.com, hgreen@ensolum.com	nsolum	l.com,	hgre	en@er	solum	com		L	Deliverables: EDD	ADaPT Other:	
Name:	Cabo Wabo Federal Com 705H		Turn Around						A	NALYS	IS RE	ANALYSIS REQUEST	Preservative Codes	
ä	03D2024143	☑ Routine	☐ Rush	Code									None: NO DI Water: H ₂ O	
Project Location:	32.0861,-103.9633	Due Date:											Cool: Cool MeOH: Me	
Sampler's Name:	Peter Van Patten	TAT starts ti	TAT starts the day received by						_	_	-			
PO#:		the lab, if re	the lab, if received by 4:30pm	ers					_				H ₂ SO ₄ : H ₂ NaOH: Na	
SAMPLE RECEIPT	Ferap Blank: (Yes	No Wet Ice:	Yes) No	net).0)								H ₃ PO ₄ : HP	
Samples Received Intact:	Yes No Thermo	Thermometer ID: 1/1	MUC 7	ara	300								NaHSO ₄ : NABIS	3
Cooler Custody Seals: Yo	Yes No NIA Correcti	Correction Factor:	100	P	PA				2 =				Na ₂ S ₂ O ₃ . NaSO ₃	33
Sample Custody Seals: You	Yes No N/A Temper	Temperature Reading:	7.		S (E	1	1)		0	090-4106		Chain of Custody	Zn Acetate+NaOH: Zn	of
Total Containers:	Corrects	Corrected Temperature:	77.72		RIDE	015)	802		_	_	-		NaOH+Ascorbic Acid: SAPC	29
Sample Identification	Matrix Date Sampled	e Time led Sampled	Depth Comp	/ # of Cont	CHLO	TPH (8	BTEX						Sample Comments	⊃age
SS01	Soil 2/14/2023	2023 940	0.2' Comp	1	×	×	×							I
SS02	Soil 2/14/2023	2023 930	0.2' Comp	7	×	×	×			-				
SS03	Soil 2/14/2023	2023 920	0.2' Comp	7	×	×	×			H				
SS04	Soil 2/14/2023	2023 1130	0.2' Comp	<u>-</u>	×	×	×		_					
SS05	Soil 2/14/2023	2023 1135	0.2' Comp	7	×	×	×			-				
SS06	Soil 2/14/2023	2023 1140	0.2' Comp		×	×	×		L		-			r
SS07	Soil 2/14/2023	2023 1150	0.2' Comp	-	×	×	×		_					РM
SSOTA	Soll 2/14/2023	2023 1100	0.5' Comp	4	*	*	*							18
SS02A	Soil 2/14/2023	2023 1110	0.5' Comp	D -	×	×	×			_				22:
SS03A	Soil 2/14/2023	2023 1120	0.5' Comp	<u>-</u>	×	×	×			-				1:2

Hg: 1631 / 245.1 / 7470 / 7471

1089 N Canal St

Eurofins Carlsbad

13 14

Chain of Custody Record

eurofins &

Environment Testing

State Zip.
TX 79701 SS02A (890-4106-9) SS01A (890-4106-8) SS07 (890-4106-7) SS06 (890-4106-6) SS05 (890-4106-5) SS04 (890-4106-4) SS03 (890-4106-3) SS02 (890-4106-2) SS01 (890-4106-1) 432-704-5440(Tel) Carlsbad NM 88220 Phone 575-988-3199 Fax 575-988-3199 tote Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central LLC places the ownership of method analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the aboratory does not currently maintain accreditation in the State of Origin-listed above for analysis/tests/matrix-being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central—LLC-laboratory or other instructions will be provided. "Any changes to accreditation status should be brought to Eurofins Environment Testing South Central—LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central—LLC. Sample Identification - Client ID (Lab ID ossible Hazard Identification Cabo Wabo Federal Com 705H Midland Shipping/Receiving Client Information elinquished by Deliverable Requested | II III IV Other (specify) roject Name: 1211 W Florida Ave linquished by mpty Kit Relinquished by urofins Environment Testing South Centr linquished by E (Sub Contract Lab) Custody Seal No WO#: Due Date Requested. 2/20/2023 Phone Date/Time Date/Time Primary Deliverable Rank 89000094 TAT Requested (days) Sample Date roject #. 2/14/23 2/14/23 2/14/23 2/14/23 2/14/23 2/14/23 2/14/23 2/14/23 2/14/23 Date Mountain 11 00 Mountain 11 50 Mountain 11 40 Mountain 11 35 Mountain 11 30 Mountain 09 20 Mountain 09 30 Mountain Sample 09 40 N (C=comp, G=grab) Sample Preservation Code: Type Company Company Company Matrix Solid Solid Solid Solid Solid Solid Solid Solid Solid Jessica Kramer@et.eurofinsus.com Kramer, Jessica E-Mai Ime NELAP - Texas ccreditations Required (See note): Perform MS/MSD (Yes or No) Special Instructions/QC Requirements Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) × × × 8016MOD_NM/8016NM_S_Prep (MOD) Full TPH Cooler Temperature(s) °C and Other Remarks. Received by: × × \times \times × × Return To Client × × × × × × × 8015MOD_Calc × × × × × × × × 300_ORGFM_28D/DI_LEACH Chloride × × × × × × × × × × 8021B/5035FP Calc (MOD) BTEX Analysis Requested Total_BTEX_GCV × × × × × × Disposal By Lab State of Origin
New Mexico Method of Shipment Tracking No(s) Date/Time Date/Time Archive For Total Number of containers 1 A HCL
North Acid
North COC No: 890-1135 1 rage: Preservation Codes 890-4106-1 age 1 of 2 Special Instructions/Note M Hexane
N None
O - AsNaO2
P Na2O4S
Q Na2SO3
R Na2SC33
S - H2SO4
T TSP Dodecahydrate
U Acetone
V MCAA
W pH 4-5
Y Tizma
Z other (specify) Company Company Months

Ver: 06/08/2021

089 N Canal St

Eurofins Carlsbad

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Chain of Custody Record

	🛟 eurofins
Environment Testing	

State Zip: TX 79701 Possible Hazard Identification SS03A (890-4106-10) 432-704-5440(Tel) lote Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the aboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central LLC. Sample Identification - Client ID (Lab ID) Cabo Wabo Federal Com 705H Midland Carlsbad NM 88220 Phone: 575-988-3199 Fax. 575-988-3199 eliverable Requested | II III IV Other (specify) roject Name 211 W Florida Ave linquished by: linquished by linquished by: npty Kit Relinquished by rofins Environment Testing South Centr ipping/Receiving lient Information E (Sub Contract Lab) Custody Seal No Project #: 89000094 Due Date Requested 2/20/2023 Primary Deliverable Rank 2 Phone: Date/Time Date/Time: TAT Requested (days) Sample Date 2/14/23 Date Mountain Sample 11 20 (C=comp. G=grab) Sample Preservation Code: Type Company Company Matrix Solid Kramer Jessica E-Mail: Jessica Kramer@et.eurofinsus com lime. Field Filtered Sample (Yes or No) **NELAP** - Texas Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mon Perform MS/MSD (Yes or No) Special Instructions/QC Requirements reditations Required (See note) Received by 8015MOD_NM/8015NM_S_Prep (MOD) Full TPH Cooler Temperature(s) °C and Other Remarks. × × 8015MOD_Calc 300_ORGFM_28D/DI_LEACH Chloride × 8021B/5035FP_Calc (MOD) BTEX Analysis Requested Total_BTEX_GCV × State of Origin New Mexico Carrier Tracking No(s) Nethod of Shipment: Date/Time Total Number of containers A HCL B NaOH C Zn Acetate D-Nitric Acid E NaHSO4 F Mehor H - Ascorbic Acid I lee J DI Water K EDTA L EDA COC No 890-1135 2 Page 2 of 2 Preservation Codes 390-4106-1 Special Instructions/Note M Hexane
N None
O AsNaO2
P Na2O4S
Q Na2SO3
R Na2SO3
R Na2SO4
T TSP Dodecahydrate
U Acetone
V- MCAA
W pH 4-5
Y Trizma
Z other (specify) Company Company Company Months

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4106-1 SDG Number: 03D2024143

Login Number: 4106 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

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

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4106-1 SDG Number: 03D2024143

List Source: Eurofins Midland

List Number: 2 Creator: Teel, Brianna

Login Number: 4106

List Creation: 02/16/23 10:28 AM

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	
ooler Temperature is acceptable.	True	
poler Temperature is recorded.	True	
OC is present.	True	
OC is filled out in ink and legible.	True	
OC is filled out with all pertinent information.	True	
the Field Sampler's name present on COC?	True	
nere are no discrepancies between the containers received and the COC.	True	
amples are received within Holding Time (excluding tests with immediate Ts)	True	
ample containers have legible labels.	True	
ontainers are not broken or leaking.	True	
ample collection date/times are provided.	True	
propriate sample containers are used.	True	
ample bottles are completely filled.	True	
ample Preservation Verified.	True	
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").	True	

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 3/22/2023 3:03:30 PM

JOB DESCRIPTION

Cabo Wabo Federal Com 705H SDG NUMBER 03D2024143

JOB NUMBER

890-4276-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

Authorization

Generated 3/22/2023 3:03:30 PM

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

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

Client: Ensolum Project/Site: Cabo Wabo Federal Com 705H Laboratory Job ID: 890-4276-1 SDG: 03D2024143

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Definitions/Glossary

Job ID: 890-4276-1 Client: Ensolum Project/Site: Cabo Wabo Federal Com 705H SDG: 03D2024143

Qualifiers

GC VOA Qualifier

F1 MS and/or MSD recovery exceeds control limits.

Qualifier Description

F2 MS/MSD RPD exceeds control limits

S1-Surrogate recovery exceeds control limits, low biased.

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description** LCS/LCSD RPD exceeds control limits. S1+ Surrogate recovery exceeds control limits, high biased. Indicates the analyte was analyzed for but not detected. U

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 CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

Detection Limit (DoD/DOE) DL

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)

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

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

MDL Method Detection Limit MI 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

Practical Quantitation Limit **PQL**

PRES Presumptive **Quality Control** QC

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Project/Site: Cabo Wabo Federal Com 705H

Job ID: 890-4276-1

SDG: 03D2024143

Job ID: 890-4276-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4276-1

Receipt

The samples were received on 3/10/2023 8:57 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 4.4°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: FS01 (890-4276-1), FS02 (890-4276-2), FS03 (890-4276-3), FS04 (890-4276-4), FS05 (890-4276-5), FS06 (890-4276-6), FS07 (890-4276-7), FS08 (890-4276-8), FS09 (890-4276-9), FS10 (890-4276-10), FS11 (890-4276-11), FS12 (890-4276-12) and FS13 (890-4276-13).

GC VOA

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-48754 and analytical batch 880-48949 were outside control limits. Non-homogeneity is 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: FS07 (890-4276-7). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-48754 and analytical batch 880-48949 was outside the upper control limits.

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

GC Semi VOA

Method 8015MOD NM: The surrogate recovery for the blank associated with preparation batch 880-48481 and analytical batch 880-48420 was outside the upper control limits.

Method 8015MOD NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-48481 and analytical batch 880-48420 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28).

Method 8015MOD NM: The surrogate recovery for the blank associated with preparation batch 880-48480 and analytical batch 880-48423 was outside the upper control limits.

Method 8015MOD NM: Surrogate recovery for the following sample was outside control limits: (MB 880-48614/1-A). Evidence of matrix interferences is not obvious.

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

HPLC/IC

Method 300 ORGFM 28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-48591 and 880-48591 and analytical batch 880-49126 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. The associated samples are: FS01 (890-4276-1), FS02 (890-4276-2), FS03 (890-4276-3), FS04 (890-4276-4), (890-4272-A-1-B), (890-4272-A-1-C MS) and (890-4272-A-1-E MSD),

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

Matrix: Solid

Lab Sample ID: 890-4276-1

Client Sample Results

Client: Ensolum Job ID: 890-4276-1
Project/Site: Cabo Wabo Federal Com 705H SDG: 03D2024143

Client Sample ID: FS01

Date Collected: 03/09/23 12:30 Date Received: 03/10/23 08:57

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/20/23 11:49	03/21/23 03:46	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/20/23 11:49	03/21/23 03:46	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/20/23 11:49	03/21/23 03:46	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		03/20/23 11:49	03/21/23 03:46	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/20/23 11:49	03/21/23 03:46	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		03/20/23 11:49	03/21/23 03:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130			03/20/23 11:49	03/21/23 03:46	1
1,4-Difluorobenzene (Surr)	115		70 - 130			03/20/23 11:49	03/21/23 03:46	1
- Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			03/22/23 15:38	1
Method: SW846 8015 NM - Diese	ol Bango Organ	ice (DBO) (3C)					
Method. 344040 0013 MM - Diese	i Kalige Organ	ica (DICO) (i	301					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Total TPH	Result <49.9		•	Mg/Kg	<u>D</u>	Prepared	Analyzed 03/21/23 09:46	Dil Fac
Total TPH	<49.9	U	RL 49.9		<u>D</u>	Prepared		
	<49.9	U	RL 49.9		<u>D</u>	Prepared		
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	<49.9	nics (DRO) Qualifier	RL 49.9	mg/Kg	<u> </u>		03/21/23 09:46	1
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<49.9 sel Range Orga Result	nics (DRO) Qualifier	RL 49.9 (GC)	mg/Kg	<u> </u>	Prepared	03/21/23 09:46 Analyzed	Dil Fac
Total TPH Method: SW846 8015B NM - Dies	<49.9 sel Range Orga Result <49.9	nics (DRO) Qualifier U	(GC) RL 49.9	mg/Kg Unit mg/Kg	<u> </u>	Prepared 03/14/23 13:44	03/21/23 09:46 Analyzed 03/14/23 21:19	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.9 sel Range Orga Result <49.9 <49.9	Unics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9	mg/Kg Unit mg/Kg mg/Kg	<u> </u>	Prepared 03/14/23 13:44 03/14/23 13:44	03/21/23 09:46 Analyzed 03/14/23 21:19 03/14/23 21:19	1 Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<49.9 sel Range Orga Result <49.9 <49.9 <49.9	Unics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg	<u> </u>	Prepared 03/14/23 13:44 03/14/23 13:44 03/14/23 13:44	03/21/23 09:46 Analyzed 03/14/23 21:19 03/14/23 21:19	Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<49.9 sel Range Orga Result <49.9 <49.9 <49.9 %Recovery	Unics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9 49.9 Limits	mg/Kg Unit mg/Kg mg/Kg	<u> </u>	Prepared 03/14/23 13:44 03/14/23 13:44 03/14/23 13:44 Prepared	03/21/23 09:46 Analyzed 03/14/23 21:19 03/14/23 21:19 03/14/23 21:19 Analyzed	Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<49.9 sel Range Orga Result <49.9 <49.9 <49.9 **Recovery 101 115	Oualifier U Qualifier U Qualifier	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg	<u> </u>	Prepared 03/14/23 13:44 03/14/23 13:44 03/14/23 13:44 Prepared 03/14/23 13:44	03/21/23 09:46 Analyzed 03/14/23 21:19 03/14/23 21:19 Analyzed 03/14/23 21:19	1 Dil Fac 1 1
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	sel Range Orga Result <49.9 <49.9 <49.9 *Recovery 101 115 Chromatograp	Oualifier U Qualifier U Qualifier	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg	<u> </u>	Prepared 03/14/23 13:44 03/14/23 13:44 03/14/23 13:44 Prepared 03/14/23 13:44	03/21/23 09:46 Analyzed 03/14/23 21:19 03/14/23 21:19 Analyzed 03/14/23 21:19	1 Dil Fac 1 1 1 1 Dil Fac 1

Client Sample ID: FS02

Date Collected: 03/09/23 13:40 Date Received: 03/10/23 08:57

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		03/20/23 11:49	03/21/23 04:06	1
Toluene	<0.00201	U	0.00201	mg/Kg		03/20/23 11:49	03/21/23 04:06	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		03/20/23 11:49	03/21/23 04:06	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		03/20/23 11:49	03/21/23 04:06	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		03/20/23 11:49	03/21/23 04:06	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		03/20/23 11:49	03/21/23 04:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			03/20/23 11:49	03/21/23 04:06	

Eurofins Carlsbad

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Lab Sample ID: 890-4276-2

Matrix: Solid

Job ID: 890-4276-1

Client: Ensolum Project/Site: Cabo Wabo Federal Com 705H SDG: 03D2024143

Client Sample ID: FS02 Lab Sample ID: 890-4276-2

Date Collected: 03/09/23 13:40 **Matrix: Solid** Date Received: 03/10/23 08:57

Sample Depth: 0.5'

Method: SW846 8021B	Volatile Organic Compounds ((GC) (Continued)
Michiga, Offord Out 1D	Volunie Organie Compounds ((OO) (Oontiniaca)

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1 4-Difluorobenzene (Surr)	111	70 - 130	03/20/23 11:49	03/21/23 04:06	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402 U	0.00402	ma/Ka			03/22/23 15:38	1

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

Analyte	Result (Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 L	U	50.0	ma/Ka			03/21/23 09:46	

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

		(=:::=)	()					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/14/23 13:44	03/14/23 22:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/14/23 13:44	03/14/23 22:24	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/14/23 13:44	03/14/23 22:24	1
Surrogate	%Pecovery	Qualifier	l imite			Propared	Analyzod	Dil Eac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130	03/14/23 13:44	03/14/23 22:24	1
o-Terphenyl	107		70 - 130	03/14/23 13:44	03/14/23 22:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	99.3		4.99	mg/Kg			03/20/23 03:47	1

Client Sample ID: FS03 Lab Sample ID: 890-4276-3

Date Collected: 03/09/23 13:50 Date Received: 03/10/23 08:57

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0401	U	0.0401	mg/Kg		03/20/23 11:49	03/21/23 05:28	20
Toluene	<0.0401	U	0.0401	mg/Kg		03/20/23 11:49	03/21/23 05:28	20
Ethylbenzene	<0.0401	U	0.0401	mg/Kg		03/20/23 11:49	03/21/23 05:28	20
m-Xylene & p-Xylene	<0.0802	U	0.0802	mg/Kg		03/20/23 11:49	03/21/23 05:28	20
o-Xylene	<0.0401	U	0.0401	mg/Kg		03/20/23 11:49	03/21/23 05:28	20
Xylenes, Total	<0.0802	U	0.0802	mg/Kg		03/20/23 11:49	03/21/23 05:28	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			03/20/23 11:49	03/21/23 05:28	20

4-Bromofluorobenzene (Surr)	108	70 - 130	03/20/23 11:49	03/21/23 05:28	20
1,4-Difluorobenzene (Surr)	114	70 - 130	03/20/23 11:49	03/21/23 05:28	20

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0802	U	0.0802	mg/Kg			03/22/23 15:38	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			03/21/23 09:46	1

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Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-4276-3

03/20/23 03:52

Job ID: 890-4276-1

Client: Ensolum Project/Site: Cabo Wabo Federal Com 705H SDG: 03D2024143

Client Sample ID: FS03

Date Collected: 03/09/23 13:50 Date Received: 03/10/23 08:57

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		03/14/23 13:44	03/14/23 22:46	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		03/14/23 13:44	03/14/23 22:46	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/14/23 13:44	03/14/23 22:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130			03/14/23 13:44	03/14/23 22:46	1
o-Terphenyl	113		70 - 130			03/14/23 13:44	03/14/23 22:46	1

Client Sample ID: FS04 Lab Sample ID: 890-4276-4 Date Collected: 03/09/23 13:55 Matrix: Solid

4.99

mg/Kg

183

Date Received: 03/10/23 08:57

Sample Depth: 0.5'

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/20/23 11:49	03/21/23 04:27	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/20/23 11:49	03/21/23 04:27	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		03/20/23 11:49	03/21/23 04:27	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/20/23 11:49	03/21/23 04:27	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		03/20/23 11:49	03/21/23 04:27	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/20/23 11:49	03/21/23 04:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			03/20/23 11:49	03/21/23 04:27	1
1,4-Difluorobenzene (Surr)	108		70 - 130			03/20/23 11:49	03/21/23 04:27	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			03/22/23 15:38	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			03/21/23 09:46	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		03/14/23 13:44	03/14/23 23:08	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		03/14/23 13:44	03/14/23 23:08	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/14/23 13:44	03/14/23 23:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130			03/14/23 13:44	03/14/23 23:08	1
o-Terphenyl	112		70 - 130			03/14/23 13:44	03/14/23 23:08	1

Job ID: 890-4276-1

Client: Ensolum Project/Site: Cabo Wabo Federal Com 705H SDG: 03D2024143

Client Sample ID: FS04 Lab Sample ID: 890-4276-4

Date Collected: 03/09/23 13:55 Date Received: 03/10/23 08:57

Matrix: Solid

Sample Depth: 0.5'

Method: EPA 300.0 - Anions, Ion Cl	hromatograp	hy - Soluble	•					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	398		4.99	mg/Kg			03/20/23 03:57	1

Client Sample ID: FS05 Lab Sample ID: 890-4276-5 **Matrix: Solid**

Date Collected: 03/09/23 14:15 Date Received: 03/10/23 08:57

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/20/23 11:49	03/21/23 04:47	1
Toluene	< 0.00199	U	0.00199	mg/Kg		03/20/23 11:49	03/21/23 04:47	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		03/20/23 11:49	03/21/23 04:47	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/20/23 11:49	03/21/23 04:47	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		03/20/23 11:49	03/21/23 04:47	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/20/23 11:49	03/21/23 04:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130			03/20/23 11:49	03/21/23 04:47	1
1,4-Difluorobenzene (Surr)	114		70 - 130			03/20/23 11:49	03/21/23 04:47	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			03/22/23 15:38	1
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			03/21/23 09:46	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		03/14/23 13:44	03/14/23 23:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		03/14/23 13:44	03/14/23 23:30	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/14/23 13:44	03/14/23 23:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130			03/14/23 13:44	03/14/23 23:30	1
o-Terphenyl	114		70 - 130			03/14/23 13:44	03/14/23 23:30	1

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Analyzed 03/18/23 15:25

RL

5.01

Unit

mg/Kg

D

Prepared

Dil Fac

Analyte

Chloride

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier

228

Matrix: Solid

Lab Sample ID: 890-4276-6

Client Sample Results

Client: Ensolum Job ID: 890-4276-1
Project/Site: Cabo Wabo Federal Com 705H SDG: 03D2024143

Client Sample ID: FS06

Date Collected: 03/09/23 14:20 Date Received: 03/10/23 08:57

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/20/23 11:49	03/21/23 05:08	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/20/23 11:49	03/21/23 05:08	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/20/23 11:49	03/21/23 05:08	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		03/20/23 11:49	03/21/23 05:08	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/20/23 11:49	03/21/23 05:08	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		03/20/23 11:49	03/21/23 05:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			03/20/23 11:49	03/21/23 05:08	1
1,4-Difluorobenzene (Surr)	109		70 - 130			03/20/23 11:49	03/21/23 05:08	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			03/22/23 15:38	1
Method: SW846 8015 NM - Diese Analyte		ics (DRO) (Qualifier	GC) RL	Unit	D	Prepared	Analyzed	Dil Fac
								Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			03/21/23 09:46	
• •				mg/Kg				
: Method: SW846 8015B NM - Die	sel Range Orga			mg/Kg		Prepared		1
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	sel Range Orga	nics (DRO) Qualifier	(GC)		D	Prepared 03/14/23 13:44	03/21/23 09:46	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	sel Range Orga Result	nics (DRO) Qualifier	(GC)	Unit	<u>D</u>		03/21/23 09:46 Analyzed	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	sel Range Orga Result <50.0	nics (DRO) Qualifier U	(GC) RL 50.0	<mark>Unit</mark> mg/Kg	<u>D</u>	03/14/23 13:44	03/21/23 09:46 Analyzed 03/14/23 23:52	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	sel Range Orga Result <50.0	nics (DRO) Qualifier U U	(GC) RL 50.0	<mark>Unit</mark> mg/Kg mg/Kg	<u>D</u>	03/14/23 13:44 03/14/23 13:44	03/21/23 09:46 Analyzed 03/14/23 23:52 03/14/23 23:52	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	sel Range Orga Result <50.0 <50.0	nics (DRO) Qualifier U U	(GC) RL 50.0 50.0 50.0	<mark>Unit</mark> mg/Kg	<u>D</u>	03/14/23 13:44 03/14/23 13:44 03/14/23 13:44	03/21/23 09:46 Analyzed 03/14/23 23:52 03/14/23 23:52	Dil Face 1 1 1 Dil Face
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Sel Range Orga Result <50.0 <50.0 <50.0 %Recovery	nics (DRO) Qualifier U U	(GC) RL 50.0 50.0 50.0 Limits	<mark>Unit</mark> mg/Kg	<u>D</u>	03/14/23 13:44 03/14/23 13:44 03/14/23 13:44 <i>Prepared</i>	03/21/23 09:46 Analyzed 03/14/23 23:52 03/14/23 23:52 03/14/23 23:52 Analyzed	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	sel Range Orga Result <50.0	U Qualifier U Qualifier	RL 50.0 50.0 50.0 50.0 Limits 70 - 130 70 - 130	<mark>Unit</mark> mg/Kg	<u>D</u>	03/14/23 13:44 03/14/23 13:44 03/14/23 13:44 Prepared 03/14/23 13:44	03/21/23 09:46 Analyzed 03/14/23 23:52 03/14/23 23:52 Analyzed 03/14/23 23:52	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	sel Range Orga Result <50.0	U Qualifier U Qualifier	RL 50.0 50.0 50.0 50.0 Limits 70 - 130 70 - 130	<mark>Unit</mark> mg/Kg	<u>D</u>	03/14/23 13:44 03/14/23 13:44 03/14/23 13:44 Prepared 03/14/23 13:44	03/21/23 09:46 Analyzed 03/14/23 23:52 03/14/23 23:52 Analyzed 03/14/23 23:52	Dil Fac

Client Sample ID: FS07

Date Collected: 03/09/23 14:25 Date Received: 03/10/23 08:57

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/16/23 13:22	03/21/23 05:37	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/16/23 13:22	03/21/23 05:37	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/16/23 13:22	03/21/23 05:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/16/23 13:22	03/21/23 05:37	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/16/23 13:22	03/21/23 05:37	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/16/23 13:22	03/21/23 05:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130			03/16/23 13:22	03/21/23 05:37	

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Matrix: Solid

Lab Sample ID: 890-4276-7

Sample Depth: 0.5'

Job ID: 890-4276-1

Client: Ensolum Project/Site: Cabo Wabo Federal Com 705H SDG: 03D2024143

Client Sample ID: FS07 Lab Sample ID: 890-4276-7

Date Collected: 03/09/23 14:25 Matrix: Solid Date Received: 03/10/23 08:57

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

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1.4-Difluorobenzene (Surr)	69 S1-	70 - 130	03/16/23 13:22	03/21/23 05:37	1

Method: TAL SOP Total BTEX - To	otal BTEX Calculation						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Analyte	Result	Qualifier	NL.	Offic	U	riepaieu	Allalyzeu	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			03/22/23 15:38	1

Method: SW846 8015 NM - Diesel R	Range Organics (DRO) (GC	;)					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 U	50.0	mg/Kg			03/21/23 09:46	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/14/23 13:44	03/15/23 00:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/14/23 13:44	03/15/23 00:14	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/14/23 13:44	03/15/23 00:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepare	d Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	03/14/23 13	3:44 03/15/23 00:1	4 1
o-Terphenyl	112		70 - 130	03/14/23 13	3:44 03/15/23 00:1	4 1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	5.64		4.97	mg/Kg			03/18/23 15:35	1

Client Sample ID: FS08 Lab Sample ID: 890-4276-8

Date Collected: 03/09/23 14:30 **Matrix: Solid** Date Received: 03/10/23 08:57

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/16/23 13:22	03/21/23 05:57	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/16/23 13:22	03/21/23 05:57	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/16/23 13:22	03/21/23 05:57	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/16/23 13:22	03/21/23 05:57	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/16/23 13:22	03/21/23 05:57	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/16/23 13:22	03/21/23 05:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130			03/16/23 13:22	03/21/23 05:57	1
1,4-Difluorobenzene (Surr)	87		70 - 130			03/16/23 13:22	03/21/23 05:57	1
Method: TAL SOP Total BTEX	- Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			03/22/23 15:38	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Total TPH	<49.8	U	49.8	mg/Kg			03/21/23 09:46	1

Job ID: 890-4276-1

Client: Ensolum Project/Site: Cabo Wabo Federal Com 705H SDG: 03D2024143

Client Sample ID: FS08

Date Collected: 03/09/23 14:30 Date Received: 03/10/23 08:57

Sample Depth: 0.5'

Lab Sample ID: 890-4276-8

03/18/23 15:40

Lab Sample ID: 890-4276-9

Matrix: Solid

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		03/13/23 12:16	03/13/23 21:00	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		03/13/23 12:16	03/13/23 21:00	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		03/13/23 12:16	03/13/23 21:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130			03/13/23 12:16	03/13/23 21:00	1
o-Terphenyl	107		70 - 130			03/13/23 12:16	03/13/23 21:00	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

4.95

mg/Kg

Client Sample ID: FS09

<4.95 U

Date Collected: 03/09/23 15:00

Date Received: 03/10/23 08:57

Sample Depth: 0.5'

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/16/23 13:22	03/21/23 06:18	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/16/23 13:22	03/21/23 06:18	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/16/23 13:22	03/21/23 06:18	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		03/16/23 13:22	03/21/23 06:18	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/16/23 13:22	03/21/23 06:18	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		03/16/23 13:22	03/21/23 06:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130			03/16/23 13:22	03/21/23 06:18	1
1,4-Difluorobenzene (Surr)	88		70 - 130			03/16/23 13:22	03/21/23 06:18	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			03/22/23 15:38	1
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) ((00)					
			3C)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Total TPH		Qualifier	•	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 03/21/23 09:46	Dil Fac
Total TPH	Result <49.9	Qualifier U	RL 49.9		<u>D</u>	Prepared		
Total TPH Method: SW846 8015B NM - Dies	Result <49.9 sel Range Orga	Qualifier U	RL 49.9		<u>D</u>	Prepared Prepared		
Total TPH Method: SW846 8015B NM - Dies Analyte	Result <49.9 sel Range Orga	Qualifier Unics (DRO) Qualifier	RL 49.9	mg/Kg			03/21/23 09:46	1
	Result <49.9 sel Range Orga Result	Qualifier Unics (DRO) Qualifier	RL 49.9 (GC)	mg/Kg		Prepared	03/21/23 09:46 Analyzed	1 Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U	RL 49.9 (GC)	mg/Kg		Prepared	03/21/23 09:46 Analyzed	1 Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U nics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/13/23 12:16 03/13/23 12:16	03/21/23 09:46 Analyzed 03/13/23 21:23 03/13/23 21:23	1 Dil Fac 1
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9 sel Range Orga Result <49.9	Qualifier U nics (DRO) Qualifier U	(GC) RL 49.9	mg/Kg Unit mg/Kg		Prepared 03/13/23 12:16	03/21/23 09:46 Analyzed 03/13/23 21:23	Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9	Qualifier U nics (DRO) Qualifier U U	RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/13/23 12:16 03/13/23 12:16	03/21/23 09:46 Analyzed 03/13/23 21:23 03/13/23 21:23	1 Dil Fac 1
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result <49.9 sel Range Orga Result <49.9 <49.9 <49.9	Qualifier U nics (DRO) Qualifier U U	RL 49.9 (GC) RL 49.9 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/13/23 12:16 03/13/23 12:16 03/13/23 12:16	03/21/23 09:46 Analyzed 03/13/23 21:23 03/13/23 21:23	1 Dil Fac 1 1

Job ID: 890-4276-1

Client: Ensolum Project/Site: Cabo Wabo Federal Com 705H SDG: 03D2024143

Client Sample ID: FS09 Lab Sample ID: 890-4276-9

Date Collected: 03/09/23 15:00 Matrix: Solid Date Received: 03/10/23 08:57

Sample Depth: 0.5'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble								
	Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	31.2	5.00	mg/Kg			03/18/23 15:45	1

Client Sample ID: FS10 Lab Sample ID: 890-4276-10 Matrix: Solid

Date Collected: 03/09/23 14:40 Date Received: 03/10/23 08:57

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/17/23 16:23	03/21/23 14:15	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/17/23 16:23	03/21/23 14:15	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/17/23 16:23	03/21/23 14:15	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		03/17/23 16:23	03/21/23 14:15	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/17/23 16:23	03/21/23 14:15	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		03/17/23 16:23	03/21/23 14:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130			03/17/23 16:23	03/21/23 14:15	1
1,4-Difluorobenzene (Surr)	90		70 - 130			03/17/23 16:23	03/21/23 14:15	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			03/22/23 15:38	1
Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (0	3C)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			03/21/23 09:46	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		03/13/23 12:24	03/13/23 20:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9	mg/Kg		03/13/23 12:24	03/13/23 20:14	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/13/23 12:24	03/13/23 20:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130			03/13/23 12:24	03/13/23 20:14	1
o-Terphenyl	110		70 - 130			03/13/23 12:24	03/13/23 20:14	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	е					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Allalyte	rtoouit	Qualifici		O.I.I.	_	rioparoa	Allalyzou	

Matrix: Solid

Lab Sample ID: 890-4276-11

Client Sample Results

Client: Ensolum Job ID: 890-4276-1
Project/Site: Cabo Wabo Federal Com 705H SDG: 03D2024143

Client Sample ID: FS11

Date Collected: 03/09/23 14:45 Date Received: 03/10/23 08:57

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/17/23 16:23	03/21/23 14:36	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/17/23 16:23	03/21/23 14:36	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/17/23 16:23	03/21/23 14:36	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		03/17/23 16:23	03/21/23 14:36	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/17/23 16:23	03/21/23 14:36	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		03/17/23 16:23	03/21/23 14:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130			03/17/23 16:23	03/21/23 14:36	1
1,4-Difluorobenzene (Surr)	98		70 - 130			03/17/23 16:23	03/21/23 14:36	1
- Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			03/22/23 15:38	1
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH		Qualifier	•	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 03/21/23 09:46	Dil Fac
Analyte Total TPH	Result <49.9	Qualifier U	RL 49.9		<u>D</u>	Prepared		
Analyte Total TPH Method: SW846 8015B NM - Dies	Result <49.9	Qualifier U	RL 49.9		<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result <49.9	Qualifier U nics (DRO) Qualifier	RL 49.9 (GC)	mg/Kg			03/21/23 09:46	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U	RL 49.9 (GC)	mg/Kg		Prepared	03/21/23 09:46 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result 49.9 sel Range Orga Result <49.9	Qualifier U nics (DRO) Qualifier U U *1	RL 49.9 (GC) RL 49.9	mg/Kg Unit mg/Kg		Prepared 03/13/23 12:24	03/21/23 09:46 Analyzed 03/13/23 20:35	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9 sel Range Orga Result <49.9 <49.9	Qualifier U nics (DRO) Qualifier U U*1	RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/13/23 12:24 03/13/23 12:24	03/21/23 09:46 Analyzed 03/13/23 20:35 03/13/23 20:35	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result	Qualifier U nics (DRO) Qualifier U U*1	RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/13/23 12:24 03/13/23 12:24 03/13/23 12:24	03/21/23 09:46 Analyzed 03/13/23 20:35 03/13/23 20:35	Dil Fac 1 1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies	Result	Qualifier U nics (DRO) Qualifier U U*1	RL 49.9 (GC) RL 49.9 49.9 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/13/23 12:24 03/13/23 12:24 03/13/23 12:24 Prepared	03/21/23 09:46 Analyzed 03/13/23 20:35 03/13/23 20:35 03/13/23 20:35 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U nics (DRO) Qualifier U U*1 U Qualifier	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/13/23 12:24 03/13/23 12:24 03/13/23 12:24 Prepared 03/13/23 12:24	03/21/23 09:46 Analyzed 03/13/23 20:35 03/13/23 20:35 Analyzed 03/13/23 20:35	1 Dil Fac 1 1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U nics (DRO) Qualifier U U*1 U Qualifier	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/13/23 12:24 03/13/23 12:24 03/13/23 12:24 Prepared 03/13/23 12:24	03/21/23 09:46 Analyzed 03/13/23 20:35 03/13/23 20:35 Analyzed 03/13/23 20:35	1 Dil Fac 1 Dil Fac 1

Client Sample ID: FS12

Date Collected: 03/09/23 14:50 Date Received: 03/10/23 08:57

Date Received. 05/10/25

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/17/23 16:23	03/21/23 14:56	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/17/23 16:23	03/21/23 14:56	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/17/23 16:23	03/21/23 14:56	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/17/23 16:23	03/21/23 14:56	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/17/23 16:23	03/21/23 14:56	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/17/23 16:23	03/21/23 14:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130			03/17/23 16:23	03/21/23 14:56	

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Lab Sample ID: 890-4276-12

Matrix: Solid

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Client Sample Results

Client: Ensolum Job ID: 890-4276-1 Project/Site: Cabo Wabo Federal Com 705H SDG: 03D2024143

Client Sample ID: FS12 Lab Sample ID: 890-4276-12

Date Collected: 03/09/23 14:50 Matrix: Solid Date Received: 03/10/23 08:57

Sample Depth: 0.5'

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

Surrogate	%Recovery Qua	ıalifier Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	96	70 - 130	03/17/23 16:23	03/21/23 14:56	1

Method: TAL SOP Total BTEX - Total BTE	X Calculation

Analyte	Result Qual		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398 U	0.00398	ma/Ka			03/22/23 15:38	1

Mothod: CIMOAC	8015 NM - Diesel	Dongo Organico	(DDO) (CC)
i weliiou. Swo46	ou io ivivi - Diesei	Range Organics	(DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			03/21/23 09:46	1

Method: SW846 8015B	NM - Diesel Range	Organics (DRO) (G	C)
Michiga. Offoto ou lob	THIN - Dicaci Italige	organics (bito) (c	, – ,

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		03/13/23 12:24	03/13/23 20:57	1
Diesel Range Organics (Over C10-C28)	<49.8	U *1	49.8	mg/Kg		03/13/23 12:24	03/13/23 20:57	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		03/13/23 12:24	03/13/23 20:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111	70 - 130	03/13/23 12:24	03/13/23 20:57	1
o-Terphenyl	117	70 - 130	03/13/23 12:24	03/13/23 20:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	40.9		5.00	mg/Kg			03/18/23 16:21	1

Client Sample ID: FS13 Lab Sample ID: 890-4276-13 Matrix: Solid

Date Collected: 03/09/23 14:55 Date Received: 03/10/23 08:57

Sample Depth: 0.5'

ı	Method: SW846 8021B	Malatila Ossasia	O = (OO)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/17/23 16:23	03/21/23 15:17	1
Toluene	< 0.00199	U	0.00199	mg/Kg		03/17/23 16:23	03/21/23 15:17	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		03/17/23 16:23	03/21/23 15:17	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/17/23 16:23	03/21/23 15:17	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		03/17/23 16:23	03/21/23 15:17	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/17/23 16:23	03/21/23 15:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			03/17/23 16:23	03/21/23 15:17	1
4.4.Diff	00		70 400			00/47/00 40:00	00/04/00 45:47	

4-Bromofluorobenzene (Surr)	107	70 - 130	03/17/23 16:23	03/21/23 15:17 1
1,4-Difluorobenzene (Surr)	92	70 - 130	03/17/23 16:23	03/21/23 15:17 1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			03/22/23 15:38	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			03/21/23 09:46	1

Matrix: Solid

Lab Sample ID: 890-4276-13

Client Sample Results

Client: EnsolumJob ID: 890-4276-1Project/Site: Cabo Wabo Federal Com 705HSDG: 03D2024143

Client Sample ID: FS13

Date Collected: 03/09/23 14:55 Date Received: 03/10/23 08:57

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		03/13/23 12:24	03/13/23 21:18	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U *1	50.0	mg/Kg		03/13/23 12:24	03/13/23 21:18	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/13/23 12:24	03/13/23 21:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130			03/13/23 12:24	03/13/23 21:18	1
o-Terphenyl	116		70 - 130			03/13/23 12:24	03/13/23 21:18	1

Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.99	U	4.99	mg/Kg			03/18/23 16:26	1

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Surrogate Summary

Client: Ensolum Job ID: 890-4276-1 Project/Site: Cabo Wabo Federal Com 705H SDG: 03D2024143

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	Percent Surrogate Recovery (Acceptance Limi
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-26024-A-1-B MS	Matrix Spike	110	113	
880-26024-A-1-C MSD	Matrix Spike Duplicate	102	114	
890-4270-A-21-E MS	Matrix Spike	91	110	
390-4270-A-21-F MSD	Matrix Spike Duplicate	92	91	
390-4276-1	FS01	114	115	
390-4276-2	FS02	111	111	
390-4276-3	FS03	108	114	
390-4276-4	FS04	105	108	
390-4276-5	FS05	111	114	
390-4276-6	FS06	107	109	
390-4276-7	FS07	92	69 S1-	
390-4276-8	FS08	88	87	
390-4276-9	FS09	86	88	
90-4276-10	FS10	98	90	
90-4276-10 MS	FS10	106	97	
90-4276-10 MSD	FS10	118	95	
90-4276-11	FS11	96	98	
90-4276-12	FS12	100	96	
90-4276-13	FS13	107	92	
CS 880-48754/1-A	Lab Control Sample	108	98	
.CS 880-48857/1-A	Lab Control Sample	99	101	
CS 880-48991/1-A	Lab Control Sample	104	112	
CSD 880-48754/2-A	Lab Control Sample Dup	117	99	
CSD 880-48857/2-A	Lab Control Sample Dup	101	94	
CSD 880-48991/2-A	Lab Control Sample Dup	107	111	
/IB 880-48754/5-A	Method Blank	73	67 S1-	
MB 880-48857/5-A	Method Blank	96	78	
/IB 880-48951/5-A	Method Blank	72	86	
MB 880-48991/5-A	Method Blank	98	106	

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Accept
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-25796-A-1-B MS	Matrix Spike	104	104	
880-25796-A-1-C MSD	Matrix Spike Duplicate	105	105	
890-4267-A-61-B MS	Matrix Spike	127	112	
890-4267-A-61-C MSD	Matrix Spike Duplicate	128	117	
890-4276-1	FS01	101	115	
890-4276-1 MS	FS01	93	95	
890-4276-1 MSD	FS01	112	115	
890-4276-2	FS02	93	107	
890-4276-3	FS03	99	113	
890-4276-4	FS04	99	112	

Surrogate Summary

Client: Ensolum Job ID: 890-4276-1
Project/Site: Cabo Wabo Federal Com 705H SDG: 03D2024143

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

Matrix: Solid Prep Type: Total/NA

		1001	OTPH1	Percent Surrogate Recovery (Acceptance Limits)
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
0-4276-5	FS05	101	114	
0-4276-6	FS06	97	109	
0-4276-7	FS07	98	112	
0-4276-8	FS08	94	107	
0-4276-9	FS09	88	100	
90-4276-10	FS10	104	110	
90-4276-11	FS11	108	114	
0-4276-12	FS12	111	117	
0-4276-13	FS13	110	116	
S 880-48480/2-A	Lab Control Sample	92	102	
S 880-48481/2-A	Lab Control Sample	87	83	
S 880-48614/2-A	Lab Control Sample	98	108	
SD 880-48480/3-A	Lab Control Sample Dup	107	118	
SD 880-48481/3-A	Lab Control Sample Dup	95	87	
SD 880-48614/3-A	Lab Control Sample Dup	94	103	
B 880-48480/1-A	Method Blank	151 S1+	174 S1+	
B 880-48481/1-A	Method Blank	136 S1+	138 S1+	
3 880-48614/1-A	Method Blank	135 S1+	155 S1+	
Surrogate Legend				
CO = 1-Chlorooctane				

OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-4276-1 SDG: 03D2024143 Project/Site: Cabo Wabo Federal Com 705H

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-48754/5-A

Matrix: Solid

Analysis Batch: 48949

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 48754

MB	MB
D 14	0

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/16/23 13:22	03/20/23 22:46	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/16/23 13:22	03/20/23 22:46	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/16/23 13:22	03/20/23 22:46	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/16/23 13:22	03/20/23 22:46	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/16/23 13:22	03/20/23 22:46	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/16/23 13:22	03/20/23 22:46	1

мв мв

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73	70 - 130	03/16/23 13:2	2 03/20/23 22:46	1
1,4-Difluorobenzene (Surr)	67 S1-	70 - 130	03/16/23 13:2	2 03/20/23 22:46	1

Lab Sample ID: LCS 880-48754/1-A

Matrix: Solid

Analysis Batch: 48949

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 48754

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09926		mg/Kg		99	70 - 130	
Toluene	0.100	0.1001		mg/Kg		100	70 - 130	
Ethylbenzene	0.100	0.1052		mg/Kg		105	70 - 130	
m-Xylene & p-Xylene	0.200	0.2201		mg/Kg		110	70 - 130	
o-Xylene	0.100	0.1089		mg/Kg		109	70 - 130	

LCS LCS

Surrogate	%Recovery (Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: LCSD 880-48754/2-A

Matrix: Solid

Analysis Batch: 48949

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 48754

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.07941		mg/Kg		79	70 - 130	22	35
Toluene	0.100	0.08604		mg/Kg		86	70 - 130	15	35
Ethylbenzene	0.100	0.09577		mg/Kg		96	70 - 130	9	35
m-Xylene & p-Xylene	0.200	0.2087		mg/Kg		104	70 - 130	5	35
o-Xylene	0.100	0.1046		mg/Kg		105	70 - 130	4	35

LCSD LCSD

Surrogate	%Recovery Qualifi	er Limits
4-Bromofluorobenzene (Surr)		70 - 130
1.4-Difluorobenzene (Surr)	99	70 - 130

Lab Sample ID: 890-4270-A-21-E MS

Matrix: Solid

Analysis Batch: 48949

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

Prep Batch: 48754

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00198	U F1 F2	0.0998	0.1039		mg/Kg	_	104	70 - 130	
Toluene	<0.00198	U F1	0.0998	0.08965		mg/Kg		90	70 - 130	

QC Sample Results

Client: Ensolum Job ID: 890-4276-1 Project/Site: Cabo Wabo Federal Com 705H SDG: 03D2024143

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

Lab Sample ID: 890-4270-A-21-E MS

Matrix: Solid

Analysis Batch: 48949

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 48754

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00198	U F1	0.0998	0.08062		mg/Kg		81	70 - 130	
m-Xylene & p-Xylene	<0.00396	U F1	0.200	0.1630		mg/Kg		82	70 - 130	
o-Xylene	<0.00198	U F1	0.0998	0.07974		mg/Kg		80	70 - 130	

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	91	70 - 130
1,4-Difluorobenzene (Surr)	110	70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 48754

Lab Sample ID: 890-4270-A-21-F MSD **Matrix: Solid**

Analysis Batch: 48949

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00198	U F1 F2	0.101	0.06395	F1 F2	mg/Kg		63	70 - 130	48	35
Toluene	<0.00198	U F1	0.101	0.06970	F1	mg/Kg		69	70 - 130	25	35
Ethylbenzene	<0.00198	U F1	0.101	0.06457	F1	mg/Kg		64	70 - 130	22	35
m-Xylene & p-Xylene	<0.00396	U F1	0.202	0.1305	F1	mg/Kg		65	70 - 130	22	35
o-Xylene	<0.00198	U F1	0.101	0.06461	F1	mg/Kg		64	70 - 130	21	35

MSD MSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	92	70 - 130
1,4-Difluorobenzene (Surr)	91	70 - 130

Lab Sample ID: MB 880-48857/5-A

Matrix: Solid

Analysis Batch: 49106

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 48857

INIR	INIE

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/17/23 16:23	03/21/23 13:53	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/17/23 16:23	03/21/23 13:53	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/17/23 16:23	03/21/23 13:53	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/17/23 16:23	03/21/23 13:53	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/17/23 16:23	03/21/23 13:53	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/17/23 16:23	03/21/23 13:53	1

MB MB

Surrogate	%Recovery Q	Qualifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96	70 - 130	03/17/23 16:23	03/21/23 13:53	1
1,4-Difluorobenzene (Surr)	78	70 - 130	03/17/23 16:23	03/21/23 13:53	1

Lab Sample ID: LCS 880-48857/1-A

Matrix: Solid

Analysis Batch: 49106

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 48857

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09970		mg/Kg		100	70 - 130	
Toluene	0.100	0.09729		mg/Kg		97	70 - 130	
Ethylbenzene	0.100	0.09785		mg/Kg		98	70 - 130	
m-Xylene & p-Xylene	0.200	0.1970		mg/Kg		99	70 - 130	

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QC Sample Results

Client: Ensolum Job ID: 890-4276-1
Project/Site: Cabo Wabo Federal Com 705H SDG: 03D2024143

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

Lab Sample ID: LCS 880-48857/1-A

Matrix: Solid

Analysis Batch: 49106

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 48857

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
o-Xylene	0.100	0.09809		mg/Kg		98	70 - 130	

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

Lab Sample ID: LCSD 880-48857/2-A

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Prep Type: Total/NA

Matrix: Solid Prep Type: Total/NA
Analysis Batch: 49106 Prep Batch: 48857

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09119		mg/Kg		91	70 - 130	9	35
Toluene	0.100	0.09262		mg/Kg		93	70 - 130	5	35
Ethylbenzene	0.100	0.09236		mg/Kg		92	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.1882		mg/Kg		94	70 - 130	5	35
o-Xylene	0.100	0.09421		mg/Kg		94	70 - 130	4	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

97

Lab Sample ID: 890-4276-10 MS

Matrix: Solid

Client Sample ID: FS10

Prep Type: Total/NA

Analysis Batch: 49106 Prep Batch: 48857

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.100	0.08050		mg/Kg		80	70 - 130	
Toluene	<0.00200	U	0.100	0.08331		mg/Kg		83	70 - 130	
Ethylbenzene	<0.00200	U	0.100	0.08221		mg/Kg		82	70 - 130	
m-Xylene & p-Xylene	<0.00401	U	0.201	0.1756		mg/Kg		87	70 - 130	
o-Xylene	<0.00200	U	0.100	0.08729		mg/Kg		87	70 - 130	

m-Xylene & p-Xylene	<0.00401	U	0.201	0.1756	mg/Kg	87	70 - 130	
o-Xylene	<0.00200	U	0.100	0.08729	mg/Kg	87	70 - 130	
	MS	MS						
Surrogate	%Recovery	Qualifier	Limits					
4-Bromofluorobenzene (Surr)	106		70 - 130					

70 - 130

Lab Sample ID: 890-4276-10 MSD

Matrix: Solid

Client Sample ID: FS10

Prep Type: Total/NA

Analysis Batch: 49106 Prep Batch: 48857

, and the second	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.0990	0.08018		mg/Kg		81	70 - 130	0	35
Toluene	<0.00200	U	0.0990	0.09049		mg/Kg		91	70 - 130	8	35
Ethylbenzene	<0.00200	U	0.0990	0.1028		mg/Kg		104	70 - 130	22	35
m-Xylene & p-Xylene	<0.00401	U	0.198	0.2090		mg/Kg		106	70 - 130	17	35
o-Xylene	<0.00200	U	0.0990	0.1043		mg/Kg		105	70 - 130	18	35

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1,4-Difluorobenzene (Surr)

Lab Sample ID: 890-4276-10 MSD

QC Sample Results

Job ID: 890-4276-1 Client: Ensolum

Project/Site: Cabo Wabo Federal Com 705H SDG: 03D2024143

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

MB MB

Matrix: Solid

Analysis Batch: 49106

Client Sample ID: FS10 Prep Type: Total/NA

Prep Batch: 48857

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: MB 880-48951/5-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 48949

Prep Type: Total/NA

Prep Batch: 48951

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac <0.00200 U 0.00200 03/20/23 08:52 03/20/23 12:12 Benzene mg/Kg Toluene <0.00200 U 0.00200 mg/Kg 03/20/23 08:52 03/20/23 12:12 <0.00200 U 0.00200 03/20/23 08:52 03/20/23 12:12 Ethylbenzene mg/Kg m-Xylene & p-Xylene <0.00400 U 0.00400 mg/Kg 03/20/23 08:52 03/20/23 12:12 o-Xylene <0.00200 U 0.00200 03/20/23 08:52 03/20/23 12:12 mg/Kg Xylenes, Total <0.00400 U 0.00400 mg/Kg 03/20/23 08:52 03/20/23 12:12

MB MB Qualifier Limits Dil Fac Surrogate %Recovery Prepared Analyzed 4-Bromofluorobenzene (Surr) 72 70 - 130 03/20/23 08:52 03/20/23 12:12 1,4-Difluorobenzene (Surr) 86 70 - 130 03/20/23 08:52 03/20/23 12:12

Lab Sample ID: MB 880-48991/5-A

Matrix: Solid

Analysis Batch: 48961

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 48991

	MB	MB					-	
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/20/23 11:49	03/21/23 02:36	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/20/23 11:49	03/21/23 02:36	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/20/23 11:49	03/21/23 02:36	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/20/23 11:49	03/21/23 02:36	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/20/23 11:49	03/21/23 02:36	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/20/23 11:49	03/21/23 02:36	1

MB MB Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 98 70 - 130 03/20/23 11:49 03/21/23 02:36 03/20/23 11:49 1,4-Difluorobenzene (Surr) 106 70 - 130 03/21/23 02:36

Lab Sample ID: LCS 880-48991/1-A

Matrix: Solid

Analysis Batch: 48961

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

Prep Batch: 48991

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09859		mg/Kg		99	70 - 130	
Toluene	0.100	0.1122		mg/Kg		112	70 - 130	
Ethylbenzene	0.100	0.08586		mg/Kg		86	70 - 130	
m-Xylene & p-Xylene	0.200	0.1673		mg/Kg		84	70 - 130	
o-Xylene	0.100	0.08513		mg/Kg		85	70 - 130	

Client: Ensolum Job ID: 890-4276-1 Project/Site: Cabo Wabo Federal Com 705H SDG: 03D2024143

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

Lab Sample ID: LCS 880-48991/1-A

Matrix: Solid

Analysis Batch: 48961

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 48991

LCS LCS

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 104 70 - 130 1,4-Difluorobenzene (Surr) 112 70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 48991

Lab Sample ID: LCSD 880-48991/2-A **Matrix: Solid**

Analysis Batch: 48961

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09737		mg/Kg		97	70 - 130	1	35
Toluene	0.100	0.1136		mg/Kg		114	70 - 130	1	35
Ethylbenzene	0.100	0.08534		mg/Kg		85	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.1667		mg/Kg		83	70 - 130	0	35
o-Xylene	0.100	0.08544		mg/Kg		85	70 - 130	0	35

LCSD LCSD %Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene (Surr) 107 70 - 130 70 - 130 1,4-Difluorobenzene (Surr) 111

Lab Sample ID: 880-26024-A-1-B MS

Matrix: Solid

Analysis Batch: 48961

Client Sample ID: Matrix Spike	
Prep Type: Total/NA	
Pron Batch: 48991	

Prep Batch: 48991

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.0998	0.09019		mg/Kg		90	70 - 130	
Toluene	<0.00199	U	0.0998	0.1061		mg/Kg		106	70 - 130	
Ethylbenzene	<0.00199	U	0.0998	0.07582		mg/Kg		76	70 - 130	
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1466		mg/Kg		73	70 - 130	
o-Xylene	<0.00199	U	0.0998	0.07463		mg/Kg		74	70 - 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	113		70 - 130

Lab Sample ID: 880-26024-A-1-C MSD

Matrix: Solid

Analysis Batch: 48961

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 48991

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	<0.00199	U	0.100	0.09357		mg/Kg		93	70 - 130	4	35	
Toluene	<0.00199	U	0.100	0.1053		mg/Kg		105	70 - 130	1	35	
Ethylbenzene	< 0.00199	U	0.100	0.07659		mg/Kg		76	70 - 130	1	35	
m-Xylene & p-Xylene	<0.00398	U	0.201	0.1477		mg/Kg		74	70 - 130	1	35	
o-Xylene	<0.00199	U	0.100	0.07399		mg/Kg		73	70 - 130	1	35	

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	102	70 - 130
1,4-Difluorobenzene (Surr)	114	70 - 130

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Client Sample ID: Method Blank

03/13/23 08:55

Prep Type: Total/NA

QC Sample Results

Job ID: 890-4276-1 Client: Ensolum Project/Site: Cabo Wabo Federal Com 705H SDG: 03D2024143

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

Lab Sample ID: MB 880-48480/1-A

Analysis Batch: 48423

Oll Range Organics (Over C28-C36)

Matrix: Solid

Prep Batch: 48480 мв мв Dil Fac Analyte Result Qualifier RLUnit D Prepared Analyzed Gasoline Range Organics <50.0 U 50.0 mg/Kg 03/13/23 08:16 03/13/23 08:55 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 03/13/23 08:16 03/13/23 08:55 mg/Kg C10-C28)

MB MB

<50.0 U

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 151 S1+ 70 - 130 03/13/23 08:16 03/13/23 08:55 o-Terphenyl 174 S1+ 70 - 130 03/13/23 08:16 03/13/23 08:55

50.0

mg/Kg

Lab Sample ID: LCS 880-48480/2-A

Client Sample ID: Lab Control Sample **Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 48423** Prep Batch: 48480

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics 1000 935.0 94 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 947.3 mg/Kg 95 70 - 130C10-C28)

LCS LCS

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	92	70 - 130
o-Terphenyl	102	70 - 130

Lab Sample ID: LCSD 880-48480/3-A

Matrix: Solid

Analysis Batch: 48423

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

Prep Batch: 48480

03/13/23 08:16

LCSD LCSD Spike %Rec RPD Analyte Added Result Qualifier RPD Limit Unit D %Rec Limits Gasoline Range Organics 1000 1035 mg/Kg 104 70 - 130 10 20 (GRO)-C6-C10 Diesel Range Organics (Over 1000 1092 mg/Kg 109 70 - 130 14 20 C10-C28)

LCSD LCSD

Surrogate	%Recovery C	Qualifier	Limits
1-Chlorooctane	107		70 - 130
o-Terphenyl	118		70 - 130

C10-C28)

Analysis Batch: 48423

Lab Sample ID: 880-25796-A-1-B MS Client Sample ID: Matrix Spike **Matrix: Solid** Prep Type: Total/NA

Sample Sample Spike MS MS %Rec Result Qualifier Result Qualifier Added Analyte Unit %Rec Limits Gasoline Range Organics <49.9 997 934.1 mg/Kg 92 70 - 130 (GRO)-C6-C10 997 982.3 Diesel Range Organics (Over 63.7 mg/Kg 92 70 - 130

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Prep Batch: 48480

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Job ID: 890-4276-1

Project/Site: Cabo Wabo Federal Com 705H SDG: 03D2024143

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

Lab Sample ID: 880-25796-A-1-B MS

Matrix: Solid

Client: Ensolum

Analysis Batch: 48423

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 48480

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

Lab Sample ID: 880-25796-A-1-C MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Matrix: Solid

Analysis Batch: 48420

Analysis Batch: 48423

Prep Type: Total/NA

Prep Batch: 48480

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits **RPD** Limit <49.9 Ū 996 932 5 92 70 - 130O 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 996 998.3 94 63.7 mg/Kg 70 - 1302 20 C10-C28)

MSD MSD

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

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 48481

MB MB Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Gasoline Range Organics <50.0 U 50.0 mg/Kg 03/13/23 09:04 03/13/23 09:20 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 03/13/23 09:04 03/13/23 09:20 C10-C28) 50.0 OII Range Organics (Over C28-C36) <50.0 U 03/13/23 09:04 03/13/23 09:20 mg/Kg

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 136 S1+ 70 - 130 03/13/23 09:04 03/13/23 09:20 138 S1+ 70 - 130 03/13/23 09:04 o-Terphenyl 03/13/23 09:20

Lab Sample ID: LCS 880-48481/2-A

Lab Sample ID: MB 880-48481/1-A

Matrix: Solid

Analysis Batch: 48420

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

Prep Batch: 48481

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics	1000	932.0		mg/Kg		93	70 - 130
(GRO)-C6-C10							
Diesel Range Organics (Over	1000	788.7		mg/Kg		79	70 - 130

C10-C28)

LCS LCS

Surrogate	%Recovery Qua	alifier Limits
1-Chlorooctane	87	70 - 130
o-Terphenyl	83	70 - 130

QC Sample Results

Client: Ensolum Job ID: 890-4276-1 Project/Site: Cabo Wabo Federal Com 705H SDG: 03D2024143

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

Lab Sample ID: LCSD 880-48481/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 48420

Prep Batch: 48481

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	 1000	1097		mg/Kg		110	70 - 130	16	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	1108	*1	mg/Kg		111	70 - 130	34	20	
C10 C20\										

LCSD LCSD

C10-C28)

%Recovery Qualifier Limits Surrogate 1-Chlorooctane 70 - 130 95 o-Terphenyl 87 70 - 130

Lab Sample ID: 890-4267-A-61-B MS Client Sample ID: Matrix Spike

Matrix: Solid

Prep Type: Total/NA

Prep Batch: 48481

Analysis Batch: 48420

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	1145		mg/Kg		113	70 - 130	
Diesel Range Organics (Over C10-C28)	<50.0	U *1	998	931.1		mg/Kg		89	70 - 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	127		70 - 130
o-Terphenyl	112		70 - 130

Lab Sample ID: 890-4267-A-61-C MSD

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analysis Batch: 48420

Matrix: Solid

Prep Batch: 48481

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	1143		mg/Kg		113	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<50.0	U *1	997	977.1		mg/Kg		94	70 - 130	5	20

RL

50.0

50.0

50.0

Unit

mg/Kg

mg/Kg

mg/Kg

D

03/14/23 13:44

Matrix: Solid

(GRO)-C6-C10

Gasoline Range Organics

Diesel Range Organics (Over

Oll Range Organics (Over C28-C36)

Analyte

C10-C28)

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	128		70 - 130
o-Terphenyl	117		70 - 130

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 48614

Analysis Batch: 48566

Lab Sample ID: MB 880-48614/1-A

MB MB Result Qualifier

<50.0 U

<50.0 U

<50.0 U

Prepared Analyzed Dil Fac 03/14/23 13:44 03/14/23 20:14 03/14/23 13:44 03/14/23 20:14

03/14/23 20:14

Job ID: 890-4276-1

Client: Ensolum SDG: 03D2024143 Project/Site: Cabo Wabo Federal Com 705H

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

Lab Sample ID: MB 880-48614/1-A

Matrix: Solid

Analysis Batch: 48566

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 48614

MB MB

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	135	S1+	70 - 130		03/14/23 13:44	03/14/23 20:14	1
o-Terphenyl	155	S1+	70 - 130	C	03/14/23 13:44	03/14/23 20:14	1

Lab Sample ID: LCS 880-48614/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Analysis Batch: 48566

Prep Type: Total/NA

Prep Batch: 48614

	Sp	ike LCS	LCS			%Rec	
Analyte	Add	ed Resul	t Qualifier Uni	t D	%Rec	Limits	
Gasoline Range Organics		1078	mg/	/Kg	108	70 - 130	
(GRO)-C6-C10							
Diesel Range Organics (Over	10	903.0) mg/	/Kg	90	70 - 130	
C10-C28)							

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenyl	108		70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 48566

Lab Sample ID: LCSD 880-48614/3-A

Prep Batch: 48614

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	1000	1069		mg/Kg		107	70 - 130	1	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	862.6		mg/Kg		86	70 - 130	5	20	
C10-C28)										

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	94		70 - 130
o-Ternhenyl	103		70 130

Lab Sample ID: 890-4276-1 MS Client Sample ID: FS01

Matrix: Solid Prep Type: Total/NA

Analysis Batch: 48566 Prep Batch: 48614 Spike

	Sample	Sample	Spike	IVIS	IVIO				/orec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.9	U	998	1255		mg/Kg		124	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.9	U	998	858.5		mg/Kg		86	70 - 130	
C10-C28)										

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	93	70 - 130
o-Terphenyl	95	70 - 130

QC Sample Results

Client: Ensolum Job ID: 890-4276-1 Project/Site: Cabo Wabo Federal Com 705H SDG: 03D2024143

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

Lab Sample ID: 890-4276-1 MSD **Client Sample ID: FS01 Matrix: Solid** Prep Type: Total/NA Analysis Batch: 48566 Prep Batch: 48614

	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	1046		mg/Kg		103	70 - 130	18	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<49.9	U	999	1044		mg/Kg		105	70 - 130	20	20
	Analyte Gasoline Range Organics (GRO)-C6-C10	Analyte Result Gasoline Range Organics <49.9 (GRO)-C6-C10	Analyte Result Qualifier Gasoline Range Organics <49.9	Analyte Result Qualifier Added Gasoline Range Organics <49.9	AnalyteResult Gasoline Range OrganicsQualifierAdded UAdded 999Result 1046(GRO)-C6-C10 Cample SpikeMSDWashQualifierAddedResultQualifierAddedPesult	AnalyteResult Gasoline Range OrganicsAdded (GRO)-C6-C10Result (Sample QualifierQualifier UAdded 999Result 1046Qualifier	Sample Sample Spike MSD MSD Analyte Result Qualifier Added Result Qualifier Unit Gasoline Range Organics <49.9 U 999 1046 mg/Kg (GRO)-C6-C10	Sample Sample Spike MSD MSD Analyte Result Qualifier Added Result Qualifier Unit D Gasoline Range Organics <49.9 U 999 1046 mg/Kg (GRO)-C6-C10	Sample Sample Spike MSD MSD Analyte Result Qualifier Added Result Qualifier Unit D %Rec Gasoline Range Organics <49.9 U 999 1046 mg/Kg 103 (GRO)-C6-C10	Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.9 U 999 1046 mg/Kg 103 70 - 130 (GRO)-C6-C10	Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Gasoline Range Organics <49.9

C10-C28)

MSD MSD %Recovery Qualifier Limits Surrogate 1-Chlorooctane 70 - 130 112 o-Terphenyl 115 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-48583/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 49027

мв мв Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 mg/Kg 03/18/23 13:11

Lab Sample ID: LCS 880-48583/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 49027

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	259.5		mg/Kg		104	90 - 110	

Lab Sample ID: LCSD 880-48583/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 49027

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 260.7 104 90 - 110 mg/Kg 0

Lab Sample ID: 890-4276-9 MS **Client Sample ID: FS09 Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 49027

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	31.2		250	290.3		ma/Ka	_	104	90 110	

Lab Sample ID: 890-4276-9 MSD **Client Sample ID: FS09 Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 49027

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	31.2		250	291.6		mg/Kg		104	90 - 110	0	20

QC Sample Results

Client: Ensolum Job ID: 890-4276-1 Project/Site: Cabo Wabo Federal Com 705H

SDG: 03D2024143

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 880-48591/1-A Client Sample ID: Method Blank **Matrix: Solid**

Prep Type: Soluble

Analysis Batch: 49126

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/k	(g		03/20/23 01:26	1

Lab Sample ID: LCS 880-48591/2-A **Client Sample ID: Lab Control Sample Matrix: Solid**

Prep Type: Soluble

Analysis Batch: 49126

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	268.8	-	mg/Kg		108	90 - 110	

Lab Sample ID: LCSD 880-48591/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 49126

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit Limits **RPD** Limit Chloride 250 268.7 107 90 - 110 mg/Kg

Lab Sample ID: 890-4272-A-1-C MS Client Sample ID: Matrix Spike **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 49126

-	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	<4.98	U F1	249	281.0	F1	mg/Kg		111	90 - 110	

Lab Sample ID: 890-4272-A-1-E MSD Client Sample ID: Matrix Spike Duplicate **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 49126

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	<4.98	U F1	249	280.1	F1	mg/Kg		111	90 - 110	0	20	

Client: Ensolum Job ID: 890-4276-1 Project/Site: Cabo Wabo Federal Com 705H SDG: 03D2024143

GC VOA

Prep Batch: 48754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4276-7	FS07	Total/NA	Solid	5035	
890-4276-8	FS08	Total/NA	Solid	5035	
890-4276-9	FS09	Total/NA	Solid	5035	
MB 880-48754/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-48754/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-48754/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4270-A-21-E MS	Matrix Spike	Total/NA	Solid	5035	
890-4270-A-21-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 48857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4276-10	FS10	Total/NA	Solid	5035	<u> </u>
890-4276-11	FS11	Total/NA	Solid	5035	
890-4276-12	FS12	Total/NA	Solid	5035	
890-4276-13	FS13	Total/NA	Solid	5035	
MB 880-48857/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-48857/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-48857/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4276-10 MS	FS10	Total/NA	Solid	5035	
890-4276-10 MSD	FS10	Total/NA	Solid	5035	

Analysis Batch: 48949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4276-7	FS07	Total/NA	Solid	8021B	48754
890-4276-8	FS08	Total/NA	Solid	8021B	48754
890-4276-9	FS09	Total/NA	Solid	8021B	48754
MB 880-48754/5-A	Method Blank	Total/NA	Solid	8021B	48754
MB 880-48951/5-A	Method Blank	Total/NA	Solid	8021B	48951
LCS 880-48754/1-A	Lab Control Sample	Total/NA	Solid	8021B	48754
LCSD 880-48754/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	48754
890-4270-A-21-E MS	Matrix Spike	Total/NA	Solid	8021B	48754
890-4270-A-21-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	48754

Prep Batch: 48951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-48951/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 48961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4276-1	FS01	Total/NA	Solid	8021B	48991
890-4276-2	FS02	Total/NA	Solid	8021B	48991
890-4276-3	FS03	Total/NA	Solid	8021B	48991
890-4276-4	FS04	Total/NA	Solid	8021B	48991
890-4276-5	FS05	Total/NA	Solid	8021B	48991
890-4276-6	FS06	Total/NA	Solid	8021B	48991
MB 880-48991/5-A	Method Blank	Total/NA	Solid	8021B	48991
LCS 880-48991/1-A	Lab Control Sample	Total/NA	Solid	8021B	48991
LCSD 880-48991/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	48991
880-26024-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	48991
880-26024-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	48991

Client: Ensolum Job ID: 890-4276-1
Project/Site: Cabo Wabo Federal Com 705H SDG: 03D2024143

GC VOA

Prep Batch: 48991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4276-1	FS01	Total/NA	Solid	5035	
890-4276-2	FS02	Total/NA	Solid	5035	
890-4276-3	FS03	Total/NA	Solid	5035	
890-4276-4	FS04	Total/NA	Solid	5035	
890-4276-5	FS05	Total/NA	Solid	5035	
890-4276-6	FS06	Total/NA	Solid	5035	
MB 880-48991/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-48991/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-48991/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-26024-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-26024-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 49106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4276-10	FS10	Total/NA	Solid	8021B	48857
890-4276-11	FS11	Total/NA	Solid	8021B	48857
890-4276-12	FS12	Total/NA	Solid	8021B	48857
890-4276-13	FS13	Total/NA	Solid	8021B	48857
MB 880-48857/5-A	Method Blank	Total/NA	Solid	8021B	48857
LCS 880-48857/1-A	Lab Control Sample	Total/NA	Solid	8021B	48857
LCSD 880-48857/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	48857
890-4276-10 MS	FS10	Total/NA	Solid	8021B	48857
890-4276-10 MSD	FS10	Total/NA	Solid	8021B	48857

Analysis Batch: 49220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4276-1	FS01	Total/NA	Solid	Total BTEX	
890-4276-2	FS02	Total/NA	Solid	Total BTEX	
890-4276-3	FS03	Total/NA	Solid	Total BTEX	
890-4276-4	FS04	Total/NA	Solid	Total BTEX	
890-4276-5	FS05	Total/NA	Solid	Total BTEX	
890-4276-6	FS06	Total/NA	Solid	Total BTEX	
890-4276-7	FS07	Total/NA	Solid	Total BTEX	
890-4276-8	FS08	Total/NA	Solid	Total BTEX	
890-4276-9	FS09	Total/NA	Solid	Total BTEX	
890-4276-10	FS10	Total/NA	Solid	Total BTEX	
890-4276-11	FS11	Total/NA	Solid	Total BTEX	
890-4276-12	FS12	Total/NA	Solid	Total BTEX	
890-4276-13	FS13	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 48420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4276-10	FS10	Total/NA	Solid	8015B NM	48481
890-4276-11	FS11	Total/NA	Solid	8015B NM	48481
890-4276-12	FS12	Total/NA	Solid	8015B NM	48481
890-4276-13	FS13	Total/NA	Solid	8015B NM	48481
MB 880-48481/1-A	Method Blank	Total/NA	Solid	8015B NM	48481
LCS 880-48481/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	48481
LCSD 880-48481/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	48481

Eurofins Carlsbad

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Client: Ensolum Job ID: 890-4276-1 Project/Site: Cabo Wabo Federal Com 705H SDG: 03D2024143

GC Semi VOA (Continued)

Analysis Batch: 48420 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4267-A-61-B MS	Matrix Spike	Total/NA	Solid	8015B NM	48481
890-4267-A-61-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	48481

Analysis Batch: 48423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4276-8	FS08	Total/NA	Solid	8015B NM	48480
890-4276-9	FS09	Total/NA	Solid	8015B NM	48480
MB 880-48480/1-A	Method Blank	Total/NA	Solid	8015B NM	48480
LCS 880-48480/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	48480
LCSD 880-48480/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	48480
880-25796-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	48480
880-25796-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	48480

Prep Batch: 48480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4276-8	FS08	Total/NA	Solid	8015NM Prep	
890-4276-9	FS09	Total/NA	Solid	8015NM Prep	
MB 880-48480/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-48480/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-48480/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-25796-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-25796-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 48481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4276-10	FS10	Total/NA	Solid	8015NM Prep	
890-4276-11	FS11	Total/NA	Solid	8015NM Prep	
890-4276-12	FS12	Total/NA	Solid	8015NM Prep	
890-4276-13	FS13	Total/NA	Solid	8015NM Prep	
MB 880-48481/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-48481/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-48481/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4267-A-61-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4267-A-61-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 48566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4276-1	FS01	Total/NA	Solid	8015B NM	48614
890-4276-2	FS02	Total/NA	Solid	8015B NM	48614
890-4276-3	FS03	Total/NA	Solid	8015B NM	48614
890-4276-4	FS04	Total/NA	Solid	8015B NM	48614
890-4276-5	FS05	Total/NA	Solid	8015B NM	48614
890-4276-6	FS06	Total/NA	Solid	8015B NM	48614
890-4276-7	FS07	Total/NA	Solid	8015B NM	48614
MB 880-48614/1-A	Method Blank	Total/NA	Solid	8015B NM	48614
LCS 880-48614/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	48614
LCSD 880-48614/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	48614
890-4276-1 MS	FS01	Total/NA	Solid	8015B NM	48614
890-4276-1 MSD	FS01	Total/NA	Solid	8015B NM	48614

Client: Ensolum Job ID: 890-4276-1
Project/Site: Cabo Wabo Federal Com 705H SDG: 03D2024143

GC Semi VOA

Prep Batch: 48614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4276-1	FS01	Total/NA	Solid	8015NM Prep	
890-4276-2	FS02	Total/NA	Solid	8015NM Prep	
890-4276-3	FS03	Total/NA	Solid	8015NM Prep	
890-4276-4	FS04	Total/NA	Solid	8015NM Prep	
890-4276-5	FS05	Total/NA	Solid	8015NM Prep	
890-4276-6	FS06	Total/NA	Solid	8015NM Prep	
890-4276-7	FS07	Total/NA	Solid	8015NM Prep	
MB 880-48614/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-48614/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-48614/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4276-1 MS	FS01	Total/NA	Solid	8015NM Prep	
890-4276-1 MSD	FS01	Total/NA	Solid	8015NM Prep	

Analysis Batch: 49094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4276-1	FS01	Total/NA	Solid	8015 NM	
890-4276-2	FS02	Total/NA	Solid	8015 NM	
890-4276-3	FS03	Total/NA	Solid	8015 NM	
890-4276-4	FS04	Total/NA	Solid	8015 NM	
890-4276-5	FS05	Total/NA	Solid	8015 NM	
890-4276-6	FS06	Total/NA	Solid	8015 NM	
890-4276-7	FS07	Total/NA	Solid	8015 NM	
890-4276-8	FS08	Total/NA	Solid	8015 NM	
890-4276-9	FS09	Total/NA	Solid	8015 NM	
890-4276-10	FS10	Total/NA	Solid	8015 NM	
890-4276-11	FS11	Total/NA	Solid	8015 NM	
890-4276-12	FS12	Total/NA	Solid	8015 NM	
890-4276-13	FS13	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 48583

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4276-5	FS05	Soluble	Solid	DI Leach	
890-4276-6	FS06	Soluble	Solid	DI Leach	
890-4276-7	FS07	Soluble	Solid	DI Leach	
890-4276-8	FS08	Soluble	Solid	DI Leach	
890-4276-9	FS09	Soluble	Solid	DI Leach	
890-4276-10	FS10	Soluble	Solid	DI Leach	
890-4276-11	FS11	Soluble	Solid	DI Leach	
890-4276-12	FS12	Soluble	Solid	DI Leach	
890-4276-13	FS13	Soluble	Solid	DI Leach	
MB 880-48583/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-48583/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-48583/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4276-9 MS	FS09	Soluble	Solid	DI Leach	
890-4276-9 MSD	FS09	Soluble	Solid	DI Leach	

Leach Batch: 48591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4276-1	FS01	Soluble	Solid	DI Leach	

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Client: Ensolum Job ID: 890-4276-1
Project/Site: Cabo Wabo Federal Com 705H SDG: 03D2024143

HPLC/IC (Continued)

Leach Batch: 48591 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4276-2	FS02	Soluble	Solid	DI Leach	
890-4276-3	FS03	Soluble	Solid	DI Leach	
890-4276-4	FS04	Soluble	Solid	DI Leach	
MB 880-48591/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-48591/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-48591/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4272-A-1-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-4272-A-1-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 49027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4276-5	FS05	Soluble	Solid	300.0	48583
890-4276-6	FS06	Soluble	Solid	300.0	48583
890-4276-7	FS07	Soluble	Solid	300.0	48583
890-4276-8	FS08	Soluble	Solid	300.0	48583
890-4276-9	FS09	Soluble	Solid	300.0	48583
890-4276-10	FS10	Soluble	Solid	300.0	48583
890-4276-11	FS11	Soluble	Solid	300.0	48583
890-4276-12	FS12	Soluble	Solid	300.0	48583
890-4276-13	FS13	Soluble	Solid	300.0	48583
MB 880-48583/1-A	Method Blank	Soluble	Solid	300.0	48583
LCS 880-48583/2-A	Lab Control Sample	Soluble	Solid	300.0	48583
LCSD 880-48583/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	48583
890-4276-9 MS	FS09	Soluble	Solid	300.0	48583
890-4276-9 MSD	FS09	Soluble	Solid	300.0	48583

Analysis Batch: 49126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4276-1	FS01	Soluble	Solid	300.0	48591
890-4276-2	FS02	Soluble	Solid	300.0	48591
890-4276-3	FS03	Soluble	Solid	300.0	48591
890-4276-4	FS04	Soluble	Solid	300.0	48591
MB 880-48591/1-A	Method Blank	Soluble	Solid	300.0	48591
LCS 880-48591/2-A	Lab Control Sample	Soluble	Solid	300.0	48591
LCSD 880-48591/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	48591
890-4272-A-1-C MS	Matrix Spike	Soluble	Solid	300.0	48591
890-4272-A-1-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	48591

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Client: Ensolum Job ID: 890-4276-1 Project/Site: Cabo Wabo Federal Com 705H SDG: 03D2024143

Client Sample ID: FS01 Lab Sample ID: 890-4276-1 Date Collected: 03/09/23 12:30

Matrix: Solid

Date Received: 03/10/23 08:57

	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	48991	03/20/23 11:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48961	03/21/23 03:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49220	03/22/23 15:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:46	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	48614	03/14/23 13:44	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48566	03/14/23 21:19	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	48591	03/14/23 11:19	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49126	03/20/23 03:42	SMC	EET MID

Client Sample ID: FS02 Lab Sample ID: 890-4276-2

Date Collected: 03/09/23 13:40 Matrix: Solid

Date Received: 03/10/23 08:57

	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	48991	03/20/23 11:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48961	03/21/23 04:06	MNR	EET MIC
Total/NA	Analysis	Total BTEX		1			49220	03/22/23 15:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:46	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48614	03/14/23 13:44	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48566	03/14/23 22:24	SM	EET MIC
Soluble	Leach	DI Leach			5.01 g	50 mL	48591	03/14/23 11:19	KS	EET MIC
Soluble	Analysis	300.0		1	50 mL	50 mL	49126	03/20/23 03:47	SMC	EET MID

Client Sample ID: FS03 Lab Sample ID: 890-4276-3 Date Collected: 03/09/23 13:50

Date Received: 03/10/23 08:57

	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	48991	03/20/23 11:49	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	48961	03/21/23 05:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49220	03/22/23 15:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:46	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48614	03/14/23 13:44	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48566	03/14/23 22:46	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	48591	03/14/23 11:19	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49126	03/20/23 03:52	SMC	EET MID

Client Sample ID: FS04 Lab Sample ID: 890-4276-4

Date Collected: 03/09/23 13:55 Date Received: 03/10/23 08:57

	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	48991	03/20/23 11:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48961	03/21/23 04:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49220	03/22/23 15:38	AJ	EET MID

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Matrix: Solid

Matrix: Solid

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Job ID: 890-4276-1

Client: Ensolum Project/Site: Cabo Wabo Federal Com 705H SDG: 03D2024143

Client Sample ID: FS04 Lab Sample ID: 890-4276-4 Date Collected: 03/09/23 13:55

Matrix: Solid Date Received: 03/10/23 08:57

	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			49094	03/21/23 09:46	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	48614	03/14/23 13:44	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48566	03/14/23 23:08	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	48591	03/14/23 11:19	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49126	03/20/23 03:57	SMC	EET MID

Client Sample ID: FS05 Lab Sample ID: 890-4276-5

Date Collected: 03/09/23 14:15 **Matrix: Solid** Date Received: 03/10/23 08:57

	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	48991	03/20/23 11:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48961	03/21/23 04:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49220	03/22/23 15:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:46	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48614	03/14/23 13:44	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48566	03/14/23 23:30	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	48583	03/14/23 11:07	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49027	03/18/23 15:25	SMC	EET MID

Client Sample ID: FS06 Lab Sample ID: 890-4276-6

Date Collected: 03/09/23 14:20 **Matrix: Solid** Date Received: 03/10/23 08:57

	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	48991	03/20/23 11:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48961	03/21/23 05:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49220	03/22/23 15:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:46	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48614	03/14/23 13:44	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48566	03/14/23 23:52	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	48583	03/14/23 11:07	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49027	03/18/23 15:30	SMC	EET MID

Client Sample ID: FS07 Lab Sample ID: 890-4276-7

Date Collected: 03/09/23 14:25 **Matrix: Solid** Date Received: 03/10/23 08:57

	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	48754	03/16/23 13:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48949	03/21/23 05:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49220	03/22/23 15:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:46	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48614	03/14/23 13:44	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48566	03/15/23 00:14	SM	EET MID

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Client: Ensolum Job ID: 890-4276-1
Project/Site: Cabo Wabo Federal Com 705H SDG: 03D2024143

Client Sample ID: FS07 Lab Sample ID: 890-4276-7

Date Collected: 03/09/23 14:25

Date Received: 03/10/23 08:57

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			5.03 g	50 mL	48583	03/14/23 11:07	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49027	03/18/23 15:35	SMC	EET MID

Client Sample ID: FS08 Lab Sample ID: 890-4276-8

Date Collected: 03/09/23 14:30 Matrix: Solid
Date Received: 03/10/23 08:57

	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	48754	03/16/23 13:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48949	03/21/23 05:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49220	03/22/23 15:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:46	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	48480	03/13/23 12:16	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48423	03/13/23 21:00	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	48583	03/14/23 11:07	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49027	03/18/23 15:40	SMC	EET MID

Client Sample ID: FS09 Lab Sample ID: 890-4276-9

Date Collected: 03/09/23 15:00 Matrix: Solid
Date Received: 03/10/23 08:57

	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	48754	03/16/23 13:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48949	03/21/23 06:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49220	03/22/23 15:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:46	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48480	03/13/23 12:16	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48423	03/13/23 21:23	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	48583	03/14/23 11:07	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49027	03/18/23 15:45	SMC	EET MID

Client Sample ID: FS10 Lab Sample ID: 890-4276-10

Date Collected: 03/09/23 14:40

Date Received: 03/10/23 08:57

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	48857	03/17/23 16:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49106	03/21/23 14:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49220	03/22/23 15:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:46	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	48481	03/13/23 12:24	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48420	03/13/23 20:14	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	48583	03/14/23 11:07	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49027	03/19/23 12:22	SMC	EET MID

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Job ID: 890-4276-1

Client: Ensolum Project/Site: Cabo Wabo Federal Com 705H SDG: 03D2024143

Client Sample ID: FS11 Lab Sample ID: 890-4276-11 Date Collected: 03/09/23 14:45

Matrix: Solid

Date Received: 03/10/23 08:57

	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	48857	03/17/23 16:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49106	03/21/23 14:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49220	03/22/23 15:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:46	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48481	03/13/23 12:24	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48420	03/13/23 20:35	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	48583	03/14/23 11:07	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49027	03/18/23 16:06	SMC	EET MID

Client Sample ID: FS12 Lab Sample ID: 890-4276-12

Date Collected: 03/09/23 14:50 Matrix: Solid

Date Received: 03/10/23 08:57

	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	48857	03/17/23 16:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49106	03/21/23 14:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49220	03/22/23 15:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:46	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	48481	03/13/23 12:24	AM	EET MIC
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48420	03/13/23 20:57	SM	EET MIC
Soluble	Leach	DI Leach			5 g	50 mL	48583	03/14/23 11:07	KS	EET MIC
Soluble	Analysis	300.0		1	50 mL	50 mL	49027	03/18/23 16:21	SMC	EET MID

Client Sample ID: FS13 Lab Sample ID: 890-4276-13

Date Collected: 03/09/23 14:55 **Matrix: Solid** Date Received: 03/10/23 08:57

	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	48857	03/17/23 16:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49106	03/21/23 15:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49220	03/22/23 15:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:46	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	48481	03/13/23 12:24	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48420	03/13/23 21:18	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	48583	03/14/23 11:07	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49027	03/18/23 16:26	SMC	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-4276-1 Project/Site: Cabo Wabo Federal Com 705H

SDG: 03D2024143

Laboratory: Eurofins Midland

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

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

Method Summary

Client: Ensolum Job ID: 890-4276-1 Project/Site: Cabo Wabo Federal Com 705H

SDG: 03D2024143

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum

Project/Site: Cabo Wabo Federal Com 705H

Job ID: 890-4276-1 SDG: 03D2024143

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4276-1	FS01	Solid	03/09/23 12:30	03/10/23 08:57	0.5'
890-4276-2	FS02	Solid	03/09/23 13:40	03/10/23 08:57	0.5'
890-4276-3	FS03	Solid	03/09/23 13:50	03/10/23 08:57	0.5'
890-4276-4	FS04	Solid	03/09/23 13:55	03/10/23 08:57	0.5'
890-4276-5	FS05	Solid	03/09/23 14:15	03/10/23 08:57	0.5'
890-4276-6	FS06	Solid	03/09/23 14:20	03/10/23 08:57	0.5'
890-4276-7	FS07	Solid	03/09/23 14:25	03/10/23 08:57	0.5'
890-4276-8	FS08	Solid	03/09/23 14:30	03/10/23 08:57	0.5'
890-4276-9	FS09	Solid	03/09/23 15:00	03/10/23 08:57	0.5'
890-4276-10	FS10	Solid	03/09/23 14:40	03/10/23 08:57	0.5'
890-4276-11	FS11	Solid	03/09/23 14:45	03/10/23 08:57	0.5'
890-4276-12	FS12	Solid	03/09/23 14:50	03/10/23 08:57	0.5'
890-4276-13	FS13	Solid	03/09/23 14:55	03/10/23 08:57	0.5'

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Relinquished by: (Signature)

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

Received by: (Signature)

Date/Time

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eurofins **Environment Testing** Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

				ū	D	V (01E)	777 307	2 - 1.55	AUG 1908		
				품 :	bbs. NM	(575) 3	92-7550	, Carlsb	Hobbs. NM (575) 392-7550, Carlsbad, NM (575) 988-3199	www.xenco.com	Page of 2
Project Manager:	Hadlie Green			Bill to: (if different)	ent)	Hadli	Hadlie Green	3		Work Order Comments	Comments
	Ensolum, LLC			Company Name:	ne:	Enso	Ensolum, LLC	.0		Program: UST/PST ☐ PRP☐ Brownfields ☐ RRC ☐	/nfields 🗌 RRC 🔲 Superfund 🔲
	601 N Marienfeld St Suite 400	Suite 400		Address:		601 N	V Marie	nfeld S	601 N Marienfeld St Suite 400	State of Project:	
te ZIP:	Midland, TX 79701			City, State ZIP:	. v	Midla	Midland, TX 79701	79701		Reporting: Level II	T/UST TRRP Level IV
	432-557-8895		Email:	Email: hgreen@ensolum.com	solum.c	moc				Deliverables: EDD	other:
Project Name:	Cabo Wabo Federal Com 705H	al Com 705H	Turn	Turn Around					ANALYSIS REQUEST	UEST	Preservative Codes
Project Number:	03D2024143	143	✓ Routine	Rush	Pres. Code						None: NO DI Water: H ₂ O
Project Location:	32.0861,-103.9633	3.9633	Due Date:								Cool: Cool MeOH: Me
Sampler's Name:	Peter Van Patten	atten	TAT starts the	TAT starts the day received by	Ž						HCL: HC HNO ₃ : HN
PO#:			the lab, if rec	the lab, if received by 4:30pm	-						H ₂ SO ₄ : H ₂ NaOH: Na
SAMPLE RECEIPT	Temp Blank:	S No	Wet ice:	West No	nete	.0)					H ₃ PO ₄ : HP
Samples Received Intact:	lact: Kes No	Thermometer ID:	ID:	FOOM (aran	300					NaHSO ₄ : NABIS
Cooler Custody Seals:	Ye	Correction Factor:	ector:	10.2	Pa	PA:					Na ₂ S ₂ O ₃ : NaSO ₃
Sample Custody Seals:	s: Yes No WA	Temperature Reading:	Reading:	9.19		S (E)	890-4276 Chain of Custody	stody	Zn Acetate+NaOH: Zn
Total Containers:		Corrected Temperature:	mperature:	1.1		RIDE	015)	802	-		NaUH+Ascorbic Acid: SAFC
Sample Identification	Hication Matrix	Date Sampled	Time Sampled	Depth Grab/	b/ # of p Cont	CHLOR	TPH (8	втех (Sample Comments
FS01	Soil	3/9/2023	1230	0.5' Comp) 1	×	×	×			
FS02	Soil	3/9/2023	1340	0.5' Comp	ъ 1	×	×	×			
FS03	Soil	3/9/2023	1350	0.5' Comp	<u>5</u>	×	×	×			
FS04	Soil	3/9/2023	1355	0.5' Comp	7	×	×	×			
FS05	Soil	3/9/2023	1415	0.5' Comp	ਰ 1	×	×	×			
FS06	Soil	3/9/2023	1420	0.5' Comp	7	×	×	×			
FS07	Soil	3/9/2023	1425	0.5' Comp	7	×	×	×			
FS08	Soil	3/9/2023	1430	0.5' Comp	4	*	×	×			
FS09	Soil	3/9/2023	1500	0.5' Comp	<u>5</u>	×	×	×			
FS10	Soil	3/9/2023	1440	0.5' Comp	70	×	×	×			
Total 200.7 / 6010	10 200.8 / 6020:	88	8RCRA 13PPM	M Texas 11	≥	Sb As	Ва	Be B Cd	Ca Cr Co Cu Fe Pb N	Mg Mn Mo Ni K Se Ag SiO ₂ Na	a Sr Tl Sn U V Zn
ircle Method(s) and	Circle Method(s) and Metal(s) to be analyzed	yzed	TCLP / S	TCLP / SPLP 6010: 8RCRA	RCRA		As Ba	Sb As Ba Be Cd	Cr Co Cu Pb Mn Mo Ni Se Ag	TI U	Hg: 1631 / 245.1 / 7470 / 7471
otice: Signature of this do	ocument and relinquishmer	it of samples const	titutes a valid pu	rchase order from	n client c	ompany	to Eurof	ins Xenc	s affiliates and subcontractors. It	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	
f service. Eurofins Xenco f Eurofins Xenco. A minin	will be liable only for the c num charge of \$85.00 will t	ost of samples and e applied to each p	shall not assun project and a cha	ne any responsib rge of \$5 for eac	llity for a h sample	ny losse	s or expe	enses inc	ed by the client if such losses are	of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the cilent if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$8 for each sample submitted to Eurofins Xenco. But not analyzed. These terms will be enforced unless previously negotiated.	
						300	ed to En	I OTHER	, out not unuitable		

Environment Testing

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334

Work
Vork Order No:
9

	LIDANI: OTTO						5	Hadlia Craan									A A A	Work	Work Order	Con	Work Order Comments	S		
Company Name:	Ensolum 11 C				Company Name:	ome.	E I	Fosolum LLC	5					9	ogram	UST/	PST	몽	□Bro	wnfie	Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐	RRC		Superfund
Address:	601 N Marienfeld St Suite 400	d St Suite	400		Address:		60	N Ma	ienfeld	601 N Marienfeld St Suite 400	400			St	State of Project:	Projec								
City, State ZIP:	Midland, TX 79701	701			City, State ZIP:	P	M.	dland, 1	Midland, TX 79701	_				Re	porting): Leve		evel		3U/TSc	Reporting: Level II Level III PST/UST TRRP	TRRP		Level IV
Phone:	432-557-8895			Email:	Email: hgreen@ensolum.com	nsolum	ı.com							D D	Deliverables: EDD	les: E	8		A	ADaPT 🗆		Other:		
Project Name:	Cabo Wabo Federal Com 705H	ederal Com	705H	Turn	Turn Around	-	-					ANALYS		IS REQUEST	ST						Pre	serva	Preservative Codes	odes
Project Number:	03D2	03D2024143		Routine	☐ Rush	Pres. Code	Pres. Code									-		-	\vdash	No	None: NO	J	DI V	DI Water: H ₂ O
Project Location:	32.0861	32.0861,-103.9633		Due Date:										_						Co	Cool: Cool	<u> </u>	MeC	MeOH: Me
Sampler's Name:	Peter \	Peter Van Patten		AT starts the	TAT starts the day received by	by				_					•					F.	HCL: HC		INC	HNO3: HN
PO#:				the lab, if rece	the lab, if received by 4:30pm		13													H ₂ .	H ₂ SO ₄ : H ₂	12	NaC	NaOH: Na
SAMPLE RECEIPT	PT Temp Blank:	ank: Yes	o O	Wet Ice:	Yes No	nete													-	H ₃ I	H ₃ PO ₄ : HP	Ū		
Samples Received Intact:			Thermometer ID:							_										Na	NaHSO ₄ : NABIS	NABI	S	
Cooler Custody Seals:	s: Yes No	N/A COFF	Correction Pageor:	19		D.														Za	Na ₂ S ₂ O ₃ : NaSO ₃	Nasc	3	
Sample Custody Seals:	ils: Yes No	N/A Tem	Temperature Reading:	eading:		<u> </u>	S (E		1)											Zn	Zn Acetate+NaOH: Zn	te+Na(IZ :HC	3
Total Containers:		Соп	Corrected Temperature:	perature:			RIDE		802											Z	NaOH+ASCOIDIC ACID. OAF C	SCOLDIC	Acid.	SAF
Sample Identification	tification	Matrix Sa	Date Sampled	Time Sampled	Depth Co	Grab/ # of Comp Cont	EHLOF	TPH (8	BTEX (-			Sai	nple (Sample Comments	ents
FS11		Soil 3	3/9/2023	1445	0.5' Co	Comp	×	×	×					-	-		-	\vdash	-	<u>l</u>				
FS12		Soil 3	3/9/2023	1450	0.5' Co	Comp 1	×	×	×						-	\vdash	-	┝	-	-				
FS13		Soil 3	3/9/2023	1455	0.5' Co	1	×	×	×				-	+	+	+	+	+	+	+				
		_	-			+	+	+	#			\perp	\downarrow	+	+	+	+	+	+	+				
					1	1	11	+	+				_	-	+	-	+	+	+	+				
			1	7	a																			
			12/	4		\mathbb{H}								H		H	Н	H	-	-				
												_	_	-	-	-	-	-	-					
					_	-	-	-				_		-	-	-	-	\parallel	-	-				
Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	10 200.8 / 6020: nd Metal(s) to be an:	20: analyzed	8RC	8RCRA 13PPM TCLP/SPLF	RA 13PPM Texas 11 AI : TCLP / SPLP 6010: 8RCRA	11 A 8RCR	(A)	b As Ba Be B Sb As Ba Be	Be B a Be	Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U	a Cr o	Co Cu Cu Pb	Cu Fe F	Pb Mg Mo Ni S	Mn N	Mn Mo Ni Se Ag TI U	X Se	>	SiO ₂ g: 163	Na Sr 31 / 245		TI Sn U 1 / 7470 /	V Zn /7471	
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control	ocument and relinqui	shment of sam	ples constitu	ites a valid pui	rchase order fr	om clien	t compa	ny to Eu	ofins Xe	nco, its a	filiates a	nd subc	ontracto ch losses	s. It ass	igns sta	ndard to	erms an	d cond	tions					
of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	imum charge of \$85.0	will be applie	d to each pro	ject and a cha	rge of \$5 for ea	ach samp	ole subm	nitted to	urofins	(enco, b	it not an	lyzed. T	hese ter	ns will be	enforc	d unles	s previo	ousty n	gotiate	ª				
Relinquished by: (Signature)	(Signature)	77	Received b	Received by: (Signature)	ure)		Da	Date/Time	Ф	\Z	linquis	Relinquished by:	/: (Sig	(Signature)		R	Received by: (Signature)	d by:	(Sign	ature)			Date/Time	Time
一個一個	202	N)	100%	000						2 (100	1	CO	3.10.2	(N	03	نتا							
3										4		~												
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Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4276-1 SDG Number: 03D2024143

Login Number: 4276 List Source: Eurofins Carlsbad

List Number: 1

Creator: Stutzman, Amanda

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	Refer to job narrative
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	N/A	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	N/A	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4276-1

SDG Number: 03D2024143

List Source: Eurofins Midland List Creation: 03/13/23 08:24 AM

List Number: 2 Creator: Rodriguez, Leticia

Sample collection date/times are provided.

There is sufficient vol. for all requested analyses, incl. any requested

Containers requiring zero headspace have no headspace or bubble is

Appropriate sample containers are used.

Sample bottles are completely filled.

Sample Preservation Verified.

MS/MSDs

<6mm (1/4").

Login Number: 4276

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	

True

True

True

N/A

True

N/A

2

4

6

8

13

14



APPENDIX E

NMOCD Notifications

Thank you,



Hadlie Green Staff Geologist 432-557-8895 hgreen@ensolum.com Ensolum, LLC From: Enviro, OCD, EMNRD

To: Hadlie Green

 Cc:
 Nobui, Jennifer, EMNRD; Bratcher, Michael, EMNRD

 Subject:
 RE: [EXTERNAL] Sampling Notification (Week of 3/6/2023)

Date: Wednesday, March 1, 2023 5:17:02 PM

Attachments: <u>image006.png</u>

image007.png image008.png image009.png

[**EXTERNAL EMAIL**]

Hadlie,

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

JH

Jocelyn Harimon • Environmental Specialist

Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | <u>Jocelyn.Harimon@emnrd.nm.gov</u>

http://www.emnrd.nm.gov



From: Hadlie Green hgreen@ensolum.com>
Sent: Wednesday, March 1, 2023 8:43 AM

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

Cc: Kalei Jennings <kjennings@ensolum.com>

Subject: [EXTERNAL] Sampling Notification (Week of 3/6/2023)

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

All,

ConocoPhillips Company (COP) plans to complete sampling activities at the following site the week of March 6, 2023.

- Baseball Cap 25 M CTB / NAPP2303037207
- Wild Cobra 1 State 002H / NAPP2233946889
- Cabo Wabo Federal Com 705H / NAPP2236129464

From: Enviro, OCD, EMNRD

To: Hadlie Green

Cc: Bratcher, Michael, EMNRD

Subject: RE: [EXTERNAL] COG - Extension Request - Cabo Wabo Federal Com 705H (Incident Number NAPP223612464)

Date: Monday, March 13, 2023 2:33:47 PM

Attachments: image005.jpg

image006.png image007.png image008.png image009.png

[**EXTERNAL EMAIL**]

Hadlie,

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

JH

Jocelyn Harimon • Environmental Specialist

Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov

http://www.emnrd.nm.gov



From: Hadlie Green <hgreen@ensolum.com> Sent: Monday, March 13, 2023 12:51 PM

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

Cc: Carlile, Justin < Justin.Carlile@conocophillips.com>; Kalei Jennings < kjennings@ensolum.com> **Subject:** [EXTERNAL] COG - Extension Request - Cabo Wabo Federal Com 705H (Incident Number NARD222612464)

NAPP223612464)

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

To Whom It May Concern,

Cabo Wabo Federal Com 705H (Incident Number NAPP223612464)

COG Operating, LLC (COG) is requesting an extension for the current deadline of March 18, 2023, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC for Cabo Wabo Federal Com 705H (Incident Number NAPP223612464). The release was discovered on

December 18, 2022. Initial site assessment activities have been completed and excavation of impacted soil has been completed. Based on the most recent field screening results, COG believes all impacted soil has been removed; however, we are waiting for laboratory analytical results to confirm. In order to complete additional remediation activities and submit a remediation work plan or closure report, COG requests a 90-day extension of this deadline until June 16, 2023.

Thank you,



Hadlie Green

Project Manager 432-557-8895 hgreen@ensolum.com 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 email				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)	
Is the concentration of dissolved chloride produced water >10,000 mg/l?		e in the	Yes No					
Condensa		Volume Release				Volume Recov		
Natural Gas Volume Released (Mcf)			Volume Recov	` ′				
Other (describe) Volume/Weight Released (provide units))	Volume/Weig	ht Recovered (pro	vide units)		
Cause of Rele	ease							

Received by OCD: 4/20/2023 11:52:33 AM Form C-141 State of New Mexico Page 2 Oil Conservation Division

	Page 110 of 115
Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by	If YES, for what reason(s) does the respons	ible party consider this a major release?
19.15.29.7(A) NMAC?		
☐ Yes ☐ No		
IfVEC i 1:-4	-tiittt	w.2 When and bounded many (about a small state)
II YES, was immediate no	once given to the OCD? By whom? To who	m? When and by what means (phone, email, etc)?
	Initial Res	sponse
The responsible p	party must undertake the following actions immediately	unless they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.	
	as been secured to protect human health and the	ne environment.
☐ Released materials ha	ave been contained via the use of berms or dil	xes, absorbent pads, or other containment devices.
☐ All free liquids and re	ecoverable materials have been removed and	managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain w	ny:
has begun, please attach	a narrative of actions to date. If remedial ef	nediation immediately after discovery of a release. If remediation forts have been successfully completed or if the release occurred ease attach all information needed for closure evaluation.
		est of my knowledge and understand that pursuant to OCD rules and
public health or the environn	ment. The acceptance of a C-141 report by the OC	cations and perform corrective actions for releases which may endanger D does not relieve the operator of liability should their operations have
		to groundwater, surface water, human health or the environment. In sponsibility for compliance with any other federal, state, or local laws
and/or regulations.		
Printed Name		Title:
Signature:	tanizapartze	Date:
email:		Telephone:
OCD Only		
Received by:		Date:

L48 Spill Volume Estimate Form

Spill Calculation - On Pad Surface Pool Spill

(bbl.)

20.489

0.306

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

Penetration

allowance

(ft.)

0.005

0.002

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

Total Volume Release:

Page 111 of 115

Total Estimated

Volume of Spill

(bbl.)

20.595

0.306

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

20.902

Received by OCD: 4/20/2023 Name & Aumber: Cabo Wabo Fed Com 705H Asset Area: Permian D&C

Release Discovery Date & Time:

Width

(ft.)

17.0

5.0

Length

(ft.)

65.0

11.0

Refeased to Imaging: 9/8/2023 1:22:18 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

Deepest point in

each of the

areas

(in.)

5.00

1.50

12/18/22 1500 Release Type: Other

Provide any known details about the event: Brackish water spill from 12" lay flat from pit to location minion

of "shore" in each

area

No. of boundaries Estimated Pool

Area

(sq. ft.)

1105.000

55.000

0.000

0.000

0.000

0.000

0.000

0.000

0.000

0.000

Estimated Average Depth

(ft.)

0.104

0.031

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

Estimated volume of each pool area Page 112 of 115

Incident ID	NAPP2236129464
District RP	
Facility ID	fAPP2203848018
Application ID	

Site Assessment/Characterization

t his information must be provided to the appropriate district office no taler 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 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.			

Characterization Report Checklist: Each of the following items must be included in the report.			
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.			
Field data			
Data table of soil contaminant concentration data			
Depth to water determination			
Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release			
Boring or excavation logs			
Photographs including date and GIS information			
☐ Topographic/Aerial maps			
Laboratory data including chain of custody			

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

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Incident ID	NAPP2236129464
District RP	
Facility ID	fAPP2203848018
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:Justin Carlile	Title: _Senior Environmental Engineer		
Signature: Justin Carlile	Date:4/13/2023		
email:Justin.Carlile@conocophillips.com	Telephone:432-202-4112		
OCD Only			
Received by: Jocelyn Harimon	Date:04/20/2023		

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Incident ID	NAPP2236129464
District RP	
Facility ID	fAPP2203848018
Application ID	

Closure

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

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.				
□ A scaled site and sampling diagram as described in 19.15.29.11 NMAC				
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)				
☐ Laboratory analyses of final sampling (Note: appropriate ODC District of	office must be notified 2 days prior to final sampling)			
Description of remediation activities				
	otifications and perform corrective actions for releases which eport by the OCD does not relieve the operator of liability intamination that pose a threat to groundwater, surface water, port does not relieve the operator of responsibility for e responsible party acknowledges they must substantially at existed prior to the release or their final land use in			
email:Justin.Carlile@ConocoPhillips.com Telepho	ne:432-202-4112			
OCD Only				
Received by: Jocelyn Harimon	ate:04/20/2023			
Closure approval by the OCD does not relieve the responsible party of liability remediate contamination that poses a threat to groundwater, surface water, hun party of compliance with any other federal, state, or local laws and/or regulation	nan health, or the environment nor does not relieve the responsible			
Closure Approved by:	Date:			
Printed Name:	Title:			

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

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

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

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 209400

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	209400
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Create		Condition Date
rham	We have received your closure report and final C-141 for Incident #NAPP2236129464 CABO WABO FEDERAL COM 705H, thank you. This closure is approved.	9/8/2023