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

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible l	Party			OGRID	OGRID			
Contact Nam	e			Contact T	Contact Telephone			
Contact emai	1			Incident #	t (assigned by OCL	0)		
Contact maili	ng address			<u> </u>				
			Location	of Release S	ource			
Latitude				Longitude				
			(NAD 83 in dec	cimal degrees to 5 deci	mal places)			
Site Name				Site Type				
Date Release	Discovered			API# (if ap	plicable)			
Unit Letter	Section	Township	Range	Cou	nty			
Surface Owner				l Volume of		ne volumes provided below)		
Crude Oil		Volume Release		calculations of specific		overed (bbls)		
Produced	Water	Volume Release	d (bbls)		Volume Recovered (bbls)			
		Is the concentrate produced water	ion of dissolved c	hloride in the	Yes 1	No		
Condensat	te	Volume Release			Volume Rec	overed (bbls)		
Natural G	as	Volume Release	d (Mcf)		Volume Rec	overed (Mcf)		
Other (describe) Volume/Weight Released (provide un			e units)	Volume/Wei	ight Recovered (provide units)			
Cause of Rele	ease							

Received by OCD: 5/28/2024 11:54:22 AM Form C-141 State of New Mexico Page 2 Oil Conservation Division

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100	700		വ	' /	71	ſ
	50	And .	v	-	-	Ų

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by	If YES, for what reason(s) does the	e responsible party consider this a major release?
19.15.29.7(A) NMAC?		
☐ Yes ☐ No		
If VEC was immediate to	otics siven to the OCD? Dr. whom?	To whom? When and by what means (phone, email, etc)?
II 1 ES, was ininediate no	once given to the OCD? By whom?	10 whom? when and by what means (phone, email, etc)?
	Initi	al Response
The responsible p	party must undertake the following actions im	mediately unless they could create a safety hazard that would result in injury
☐ The source of the rele	ase has been stopped.	
☐ The impacted area has	s been secured to protect human hea	Ith and the environment.
Released materials ha	we been contained via the use of ber	ms or dikes, absorbent pads, or other containment devices.
	ecoverable materials have been remo	
If all the actions described	d above have <u>not</u> been undertaken, ex	xplain why:
D 10.15.20.0 D (4) ND	404 71	
has begun, please attach a	a narrative of actions to date. If rer	nence remediation immediately after discovery of a release. If remediation nedial efforts have been successfully completed or if the release occurred IAC), please attach all information needed for closure evaluation.
regulations all operators are public health or the environm failed to adequately investigations.	required to report and/or file certain rele ment. The acceptance of a C-141 report ate and remediate contamination that pos	e to the best of my knowledge and understand that pursuant to OCD rules and ase notifications and perform corrective actions for releases which may endanger by the OCD does not relieve the operator of liability should their operations have se a threat to groundwater, surface water, human health or the environment. In rator of responsibility for compliance with any other federal, state, or local laws
Printed Name		Title:
Signature:	tan Esparge	Date:
email:		Telephone:
OCD Only		
Received by:		Date:

Provinced by OCD	5/20/2	002/11	1.54-22 AM	2007 TW 200	L	48 Spill Vo	olume Estimate	Form	Barre 2 of 226
Received by OCD:	3/20/2	Facility	Name & Number:	Alamo Maroon Core	/ Cabo Wabo Fe	d Com 704H, 7	705H, 706H		Page 3 of 226
		10000		Deleware Basin We			***		
Ü	Releas	e Disco	very Date & Time:	1/5/2023					
Control Control	-	5459-554-78	Release Type:	Produced Water	-272				
Provide ar	ny know	n details	s about the event:	Produced Water/Fra	ac Fluids				
				¢	Spil	Calculation	- On Pad Surface	Pool Spill	-21
Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Deepest point in each of the areas (in.)	No. of boundaries of "shore" in each area	Estimated <u>Pool</u> Area (sq. ft.)	Estimated Average Depth (ft.)	Estimated volume of each pool area (bbl.)	Penetration allowance (ft.)	Total Estimated Volume of Spill (bbl.)
Rectangle A	12.0	36.0	0.25	3	432.000	0.007	0.534	0.000	0.534
Rectangle B	48.0	60.0	0.25	2	2880.000	0.010	5.340	0.001	5.343
Rectangle C	36.0	33.0	0.25	3	1188.000	0.007	1.469	0.000	1.469
Rectangle D		0 0			0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle E		0 0	8		0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle F	*	0 0	8		0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle G		0 0			0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle H		0 0	*		0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

0.000

0.000

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

Total Volume Release:

#DIV/0!

#DIV/0!

7.346

Rectangle I

Rectangle J Released to Imaging: 5/29/2024 10:49:53 AM

L48 Spill Volume Estimate Form Received by OCD: 5/28/2024 11/15/4622 MMber: Alamo Maroon Core / Cabo Wabo Fed Com 704-706H Page 4 of 226 Asset Area: Deleware Basin West Release Discovery Date & Time: 1/5/23 01:30am Release Type: Produced Water

No. of boundaries Estimated Pool

of "shore" in each

area

3

Spill Calculation - On Pad Surface Pool Spill

Estimated volume

of each pool area

(bbl.)

0.138

0.138

0.193

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

Penetration

allowance

(ft.)

0.000

0.000

0.000

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

Total Volume Release:

Total Estimated

Volume of Spill

(bbl.)

0.138

0.138

0.193

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

0.470

Estimated

Average

Depth

(ft.)

0.007

0.007

0.007

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

#DIV/0!

Provide any known details about the event: Produced Water/Frac Fluids

Deepest point in

each of the

areas

(in.)

0.25

0.25

0.25

Width

(ft.)

2.0

2.0

3.0

Length

(ft.)

56.0

56.0

52.0

Refeased to Imaging: 5/29/2024 10:49:53 AM

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

156,000 0.000 0.000

0.000

0.000

0.000 0.000

0.000

Area

(sq. ft.)

112,000

112,000



March 21, 2024

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 Addendum
Cabo Wabo Federal 24 B CTB
Incident Number NAPP2301933240
Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of COG Operating, LLC (COG), has prepared this *Closure Request Addendum* to document additional soil sampling activities performed at the Cabo Wabo Federal 24 B CTB (Site), in response to the denial of the original *Closure Request*, dated June 29, 2023.

On December 26, 2023, the New Mexico Oil Conservation Division (NMOCD) denied the original *Closure Request* for the following reasons:

• The Remediation Closure Report is Denied. The OCD requires an accurate scaled site map diagram with sample points clearly marked. Site photos are outdated and show pasture instead of the actual active well pad. Please, include photos of the actual well pad. When equipment is located in and around the release area, samples must come from the sidewalls of the release area excavation. The OCD needs to know if the release went in, around, or under equipment/tanks. Not having sidewall samples from the actual excavation won't give us those sampling data points that we need. "Step-out" samples should only be taken a maximum of 1-2 feet off the observed edge of the release area. "Step-out" samples should never be conducted if equipment is in the vicinity of the release area. Please conduct sidewalls in the release area excavation. Please make sure that the edge of the release extent is accurately defined. The work will need to occur in 90 days after the report has been reviewed.

Based on laboratory analytical results from the additional soil sampling activities, COG is submitting this *Closure Request Addendum*, and requesting closure for Incident Number NAPP2301933240.

Details regarding the release, Site characterization, and previous excavation and soil sampling activities can be referenced in the original June 29, 2023, *Closure Request*. The June 29, 2023, *Closure Request* is included as an attachment to this report.

BACKGROUND

The Site is located in Unit C, Section 24, Township 25 South, Range 29 East, in Eddy County, New Mexico (32.1222°, -103.9408°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

Cabo Wabo Federal 24 B CTB Closure Request Addendum COG Operating, LLC



On January 5, 2023, corrosion on a flowback tank resulted in the release of approximately 7.816 barrels (bbls) of produced water onto the surrounding well pad. A vacuum truck was dispatched to the Site to recover free-standing fluids; approximately 7 bbls of released produced water were recovered. COG reported the release to the NMOCD on a Release Notification Form C-141 (Form C-141) on January 19, 2023. The release was assigned Incident Number NAPP2301933240.

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Based on the results of the Site Characterization, as described in the June 29, 2023, *Closure Request*, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

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

SOIL SAMPLING ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

In response to the NMOCD denial, Ensolum personnel returned to the Site on January 31, 2024, and February 27, 2024, to complete additional soil sampling activities. Eleven additional assessment soil samples (SS13 through SS23) were collected around the release extent at a depth of approximately 0.25 feet bgs to further confirm the lateral extent of the release. 5-point composite samples SW01 through SW04 were collected every 200 square feet from the sidewalls of the backfilled excavation. The sidewall samples were collected via hand auger at depths ranging from the ground surface to 0.5 feet bgs. 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.

The assessment and excavation soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. The soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2 and Figure 3. Photographic documentation was completed during the Site visit and a photographic log is included as Appendix A.

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

Laboratory analytical results for assessment samples SS13 through SS23 indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria and further confirmed the lateral extent of the release. Laboratory analytical results for excavation sidewall soil samples SW01 through SW04 indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria and further confirmed successful removal of the impacted soil. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix B.

Cabo Wabo Federal 24 B CTB Closure Request Addendum COG Operating, LLC



The excavation measured approximately 1,950 square feet in areal extent. A total of approximately 40 cubic yards of impacted soil was excavated, transported, and properly disposed at R360 Environmental Solutions in Hobbs, New Mexico.

CLOSURE REQUEST

In response to the NMOCD denial of the June 29, 2023, Closure Request, additional soil sampling activities were conducted at the Site to further assess for the presence or absence of impacted soil resulting from the January 5, 2023, release of produced water. Laboratory analytical results or the assessment soil samples, collected around the release extent, indicated all COC concentrations were compliant with the Site Closure Criteria and further confirmed the lateral extent of the release. Laboratory analytical results for the excavation sidewall samples indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria and further confirmed successful removal of the impacted soil. Based on laboratory analytical results, impacted soil exceeding the Site Closure Criteria has been excavated and no further remediation is required at this time. However, soil on the well pad exceeding the reclamation requirements of NMAC 19.15.29.13.D (1) will be removed during plugging and abandonment of the wells and final reclamation of the well pad.

Initial response activities and excavation of impacted soil have mitigated impacts at this site. Depth to groundwater has been estimated to be greater than 100 feet bgs and no other sensitive receptors were identified near the release extent. As such, COG respectfully requests closure for Incident Number NAPP2301933240.

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

Sincerely, **Ensolum. LLC**

Hadlie Green

Project Geologist

Aimee Cole

Senior Managing Scientist

CC: Justin Carlile, COG Operating, LLC

Bureau of Land Management

Appendices:

Figure 1 Site Receptor Map

Figure 2 Assessment Soil Sample Locations Figure 3 **Excavation Soil Sample Locations** Table 1 Soil Sample Analytical Results

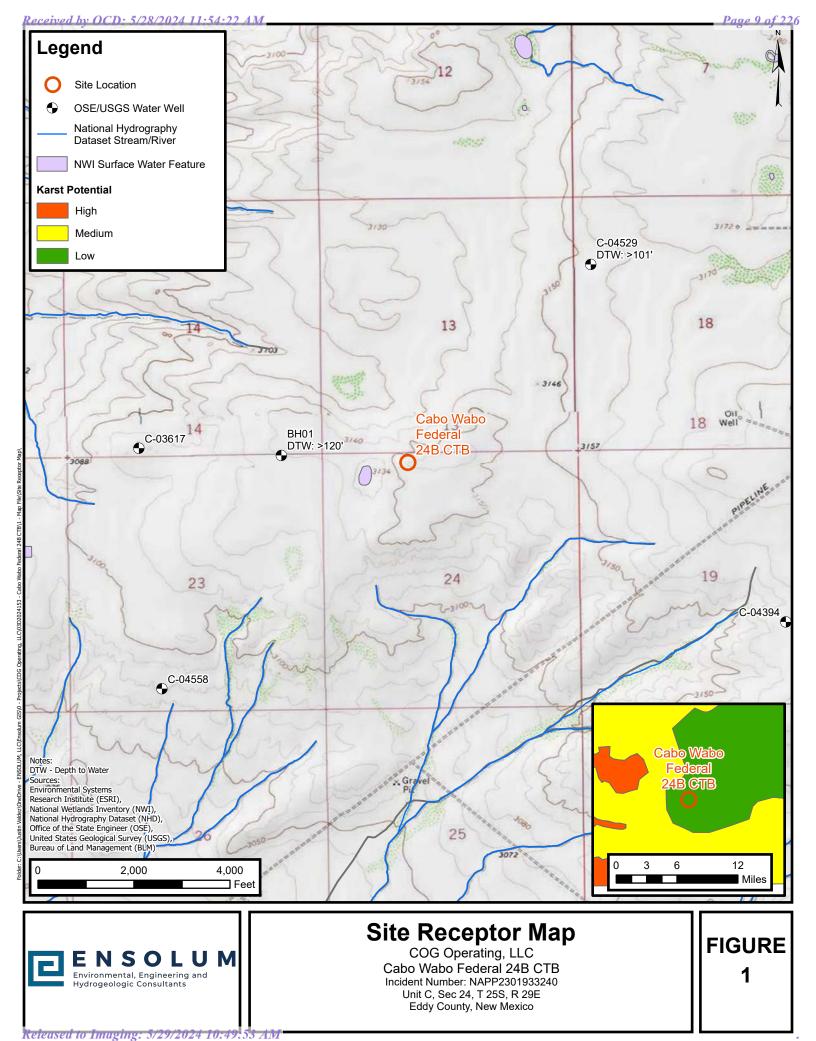
Appendix A Photographic Log

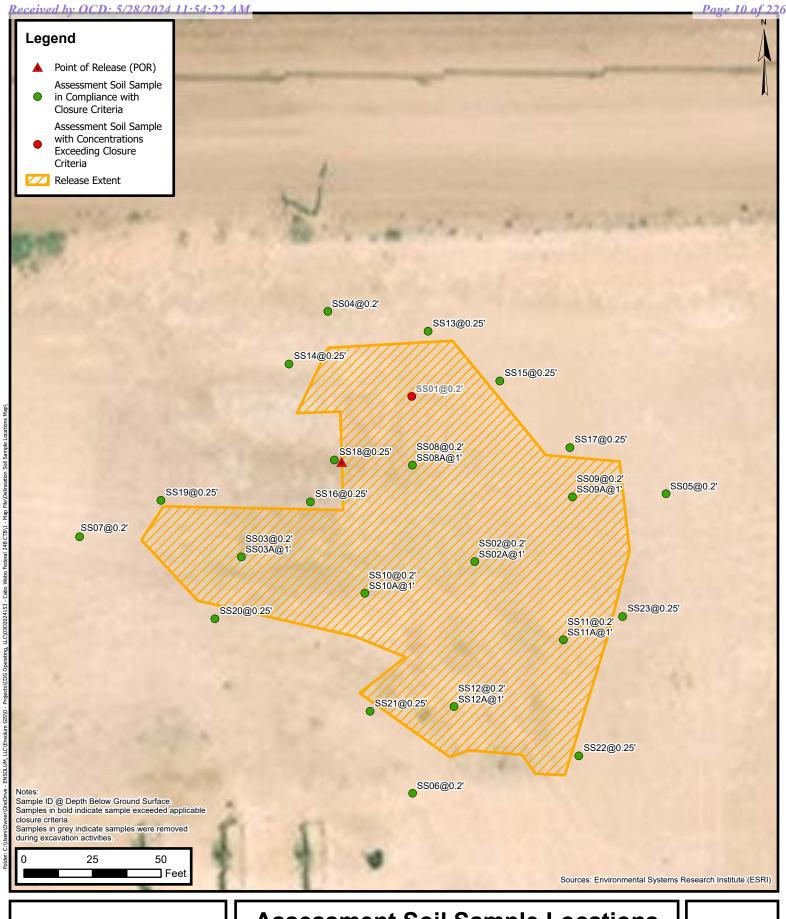
Appendix B Laboratory Analytical Reports & Chain-of-Custody Documentation

Appendix C June 29, 2023, Closure Request



FIGURES







Assessment Soil Sample Locations

COG Operating, LLC
Cabo Wabo Federal 24B CTB
Incident Number: NAPP2301933240
Unit C, Sec 24, T 25S, R 29E
Eddy County, New Mexico

FIGURE 2

Released to Imaging: 5/29/2024 10:49:53 AM



Excavation Soil Sample Locations

COG Operating, LLC
Cabo Wabo Federal 24B CTB
Incident Number: NAPP2301933240
Unit C, Sec 24, T 25S, R 29E
Eddy County, New Mexico

FIGURE 3



TABLES



TABLE 1

SOIL SAMPLE ANALYTICAL RESULTS

Cabo Wabo Federal 24 B CTB COG Operating, LLC

Eddy County, New Mexico

					County, New W	57.100				
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I	Closure Criteria	(NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
				Asse	ssment Soil San	nples				
SS01	02/16/2023	0.2	<0.00200	<0.00401	<50.0	3740	<50.0	3,740	3,740	7,030
SS02	02/16/2023	0.2	<0.00200	<0.00399	<49.9	487	<49.9	487	487	776
SS02A	05/15/2023	1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	1050
SS03	02/16/2023	0.2	<0.00198	<0.00396	<49.9	78.3	<49.9	78.3	78.3	1,530
SS03A	05/15/2023	1	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	701
SS04	02/16/2023	0.2	<0.00199	<0.00398	<49.9	83.7	<49.9	83.7	83.7	395
SS05	02/16/2023	0.2	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	152
SS06	02/16/2023	0.2	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	92.4
SS07	02/16/2023	0.2	<0.00199	<0.00398	<49.9	11.6	<49.9	11.6	11.6	303
SS08	05/15/2023	0.2	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	892
SS08A	05/15/2023	1	< 0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	420
SS09	05/15/2023	0.2	<0.00199	<0.00398	<50.0	78.3	<50.0	78.3	78.3	1,740
SS09A	05/15/2023	1	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	804
SS10	05/15/2023	0.2	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	635
SS10A	05/15/2023	1	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	809
SS11	05/15/2023	0.2	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	1,400
SS11A	05/15/2023	1	<0.00199	<0.00398	<49.9	54.6	<49.9	54.6	54.6	246
SS12	05/15/2023	0.2	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	2,260
SS12A	05/15/2023	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	732



TABLE 1

SOIL SAMPLE ANALYTICAL RESULTS

Cabo Wabo Federal 24 B CTB COG Operating, LLC

Eddy County, New Mexico

	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	1,000	2,500	20,000
SS13	01/31/2024	0.25	<0.00200	<0.00399	<49.8	57.3	<49.8	57.3	57.3	371
SS14	01/31/2024	0.25	<0.00201	<0.00402	<49.6	77.8	<49.6	77.8	77.8	314
SS15	01/31/2024	0.25	<0.00200	<0.00402	<50.1	70.0	<50.1	70.0	70.0	389
SS16	01/31/2024	0.25	<0.00199	<0.00398	<50.2	90.7	<50.2	90.7	90.7	383
SS17	01/31/2024	0.25	<0.00199	<0.00398	<49.9	69.7	<49.9	69.7	69.7	349
SS18	01/31/2024	0.25	<0.00200	<0.00399	<50.0	81.3	<50.0	81.3	81.3	371
SS19	01/31/2024	0.25	<0.00201	<0.00402	<49.8	89.4	<49.8	89.4	89.4	371
SS20	01/31/2024	0.25	<0.00200	<0.00401	<50.1	92.6	<50.1	92.6	92.6	369
SS21	01/31/2024	0.25	<0.00199	<0.00398	<50.4	82.4	<50.4	82.4	82.4	300
SS22	01/31/2024	0.25	<0.00199	<0.00398	<50.2	95.6	<50.2	95.6	95.6	600
SS23	01/31/2024	0.25	<0.00200	<0.00399	<49.6	76.4	<49.6	76.4	76.4	547
				Exc	avation Soil Sam	ples				
FS01	05/15/2023	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	3,090
FS02	05/15/2023	0.5	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	849
FS03	05/15/2023	0.5	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	654
FS04	05/15/2023	0.5	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	2,040
FS05	05/15/2023	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	1,740
FS06	05/15/2023	0.5	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	598
FS07	05/15/2023	0.5	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	1,430
FS08	05/15/2023	0.5	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	627
FS09	05/15/2023	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	2,620
FS10	05/15/2023	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	287

Page 14 of 226



TABLE 1

SOIL SAMPLE ANALYTICAL RESULTS

Cabo Wabo Federal 24 B CTB
COG Operating, LLC
Eddy County, New Mexico

	Eddy Gounty, 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	1,000	2,500	20,000
SW01	02/27/2024	0 - 0.5	<0.000388	<0.00102	28.0	10.5	20.9	59.4	59.4	166
SW02	02/27/2024	0 - 0.5	<0.000387	0.00129	25.8	57.8	<15.1	83.6	83.6	296
SW03	02/27/2024	0 - 0.5	<0.000386	<0.00101	45.2	35.3	<15.1	80.5	80.5	82.7
SW04	02/27/2024	0 - 0.5	<0.000381	<0.00100	37.0	30.6	<15.1	67.6	67.6	303

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

Photographic Log



Photographic Log COG Operating, LLC Cabo Wabo Federal 24 B CTB Incident Number NAPP230193240





Photograph 1

Date:

1/5/2023 Photograph 2

Date:

5/15/2023

Description: Initial release

View: Northwest

View: South

Description: Release staining





Photograph 3

Date:

5/15/2023 Photograph 4

Date:

1/31/2024

Description: Completed excavation

Description: Additional sampling activities

View: North

View: South



APPENDIX B

Laboratory Analytical Reports & Chain of Custody Documentation

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 2/13/2024 12:21:32 PM

JOB DESCRIPTION

CABO WABO FEDERAL 24B CTB 03D2024153

JOB NUMBER

890-6079-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

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Job Notes

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

Authorization

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Client: Ensolum Project/Site: CABO WABO FEDERAL 24B CTB Laboratory Job ID: 890-6079-1 SDG: 03D2024153

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Definitions/Glossary

Client: Ensolum Job ID: 890-6079-1 Project/Site: CABO WABO FEDERAL 24B CTB SDG: 03D2024153

Qualifiers

GC VOA

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

MS and/or MSD recovery exceeds control limits.

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.
HPLC/IC	
Qualifier	Qualifier Description

F1

U

LOD

Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)

LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)

Limit of Detection (DoD/DOE)

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

NC Not Calculated

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

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

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

Too Numerous To Count **TNTC**

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Case Narrative

Client: Ensolum Job ID: 890-6079-1

Project: CABO WABO FEDERAL 24B CTB

Job ID: 890-6079-1 Eurofins Carlsbad

Job Narrative 890-6079-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt

The samples were received on 1/31/2024 11:49 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.8°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS 13 (890-6079-1), SS 14 (890-6079-2), SS 15 (890-6079-3), SS 16 (890-6079-4), SS 17 (890-6079-5), SS 18 (890-6079-6), SS 19 (890-6079-7), SS 20 (890-6079-8), SS 21 (890-6079-9), SS 22 (890-6079-10) and SS 23 (890-6079-11).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: SS 13 (890-6079-1), SS 15 (890-6079-3), SS 16 (890-6079-4), SS 18 (890-6079-6), SS 19 (890-6079-7), SS 20 (890-6079-8) and (890-6078-A-1-F). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (890-6078-A-1-E MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-72343 and analytical batch 880-72615 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (890-6077-A-1-B) and (890-6077-A-1-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SS 23 (890-6079-11). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The method blank for preparation batch 880-72343 and analytical batch 880-72615 contained Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: Spike compounds were inadvertently omitted during the extraction process for the matrix spike/matrix spike duplicate (MS/MSD); therefore, matrix spike recoveries are unavailable for preparation batch 880-72343 and analytical batch 880-72615. The associated laboratory control sample (LCS) met acceptance criteria.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-72386 and analytical batch 880-72614 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SS 13 (890-6079-1), SS 14 (890-6079-2), SS 17 (890-6079-5), SS 21 (890-6079-9) and SS 22 (890-6079-10). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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Case Narrative

Client: Ensolum Job ID: 890-6079-1

Project: CABO WABO FEDERAL 24B CTB

Job ID: 890-6079-1 (Continued)

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-72129 and analytical batch 880-72321 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-72130 and analytical batch 880-72328 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

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Client Sample Results

Client: Ensolum Job ID: 890-6079-1
Project/Site: CABO WABO FEDERAL 24B CTB SDG: 03D2024153

Client Sample ID: SS 13

Date Collected: 01/31/24 09:00

Lab Sample ID: 890-6079-1

Matrix: Solid

Date Collected: 01/31/24 09:00
Date Received: 01/31/24 11:49

Sample Depth: 0.25'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/11/24 13:26	02/12/24 15:21	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/11/24 13:26	02/12/24 15:21	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/11/24 13:26	02/12/24 15:21	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		02/11/24 13:26	02/12/24 15:21	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/11/24 13:26	02/12/24 15:21	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		02/11/24 13:26	02/12/24 15:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	178	S1+	70 - 130			02/11/24 13:26	02/12/24 15:21	1
1,4-Difluorobenzene (Surr)	108		70 - 130			02/11/24 13:26	02/12/24 15:21	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			02/12/24 15:21	1
		O 11.C			_			B.: E
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	
Total TPH	Result 57.3	Qualifier	49.8	mg/Kg	<u>D</u>	Prepared	Analyzed 02/09/24 00:53	
	57.3 sel Range Orga	nics (DRO)	49.8		<u>D</u>	Prepared	02/09/24 00:53	
Total TPH	57.3 sel Range Orga Result	nics (DRO) Qualifier	49.8	mg/Kg	<u>D</u>	Prepared Prepared		1
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	57.3 sel Range Orga	nics (DRO) Qualifier	49.8 (GC)	mg/Kg			02/09/24 00:53	Dil Fac
Total TPH Method: SW846 8015B NM - Dies	57.3 sel Range Orga Result	nics (DRO) Qualifier	49.8 (GC)	mg/Kg		Prepared	02/09/24 00:53 Analyzed	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	57.3 sel Range Orga Result 849.8	nics (DRO) Qualifier U	49.8 (GC) RL 49.8	mg/Kg Unit mg/Kg		Prepared 02/05/24 13:54	02/09/24 00:53 Analyzed 02/09/24 00:53	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	57.3 sel Range Orga Result <49.8 57.3 <49.8	nics (DRO) Qualifier U	49.8 (GC) RL 49.8 49.8	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/05/24 13:54 02/05/24 13:54	02/09/24 00:53 Analyzed 02/09/24 00:53 02/09/24 00:53	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)	57.3 sel Range Orga Result <49.8 57.3 <49.8	nics (DRO) Qualifier U	49.8 (GC) RL 49.8 49.8 49.8 49.8	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/05/24 13:54 02/05/24 13:54 02/05/24 13:54	02/09/24 00:53 Analyzed 02/09/24 00:53 02/09/24 00:53 02/09/24 00:53	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	57.3 sel Range Orga Result <49.8 57.3 <49.8 %Recovery 51	nics (DRO) Qualifier U	49.8 (GC) RL 49.8 49.8 49.8 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/05/24 13:54 02/05/24 13:54 02/05/24 13:54 Prepared	02/09/24 00:53 Analyzed 02/09/24 00:53 02/09/24 00:53 02/09/24 00:53 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	57.3 sel Range Orga Result <49.8 57.3 <49.8 %Recovery 51 46	U Qualifier U Qualifier S1- S1-	49.8 (GC) RL 49.8 49.8 49.8 49.8 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/05/24 13:54 02/05/24 13:54 02/05/24 13:54 Prepared 02/05/24 13:54	02/09/24 00:53 Analyzed 02/09/24 00:53 02/09/24 00:53 02/09/24 00:53 Analyzed 02/09/24 00:53	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	57.3 sel Range Orga Result <49.8 57.3 <49.8 %Recovery 51 46 Chromatograp	U Qualifier U Qualifier S1- S1-	49.8 (GC) RL 49.8 49.8 49.8 49.8 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/05/24 13:54 02/05/24 13:54 02/05/24 13:54 Prepared 02/05/24 13:54	02/09/24 00:53 Analyzed 02/09/24 00:53 02/09/24 00:53 02/09/24 00:53 Analyzed 02/09/24 00:53	Dil Fac

Client Sample ID: SS 14 Lab Sample ID: 890-6079-2

Date Collected: 01/31/24 09:05 Date Received: 01/31/24 11:49

Sample Depth: 0.25'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		02/11/24 13:26	02/12/24 15:47	1
Toluene	<0.00201	U	0.00201	mg/Kg		02/11/24 13:26	02/12/24 15:47	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		02/11/24 13:26	02/12/24 15:47	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		02/11/24 13:26	02/12/24 15:47	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		02/11/24 13:26	02/12/24 15:47	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		02/11/24 13:26	02/12/24 15:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130			02/11/24 13:26	02/12/24 15:47	1

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Matrix: Solid

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Job ID: 890-6079-1

Client: Ensolum Project/Site: CABO WABO FEDERAL 24B CTB SDG: 03D2024153

Client Sample ID: SS 14 Lab Sample ID: 890-6079-2 Date Collected: 01/31/24 09:05 Matrix: Solid

Date Received: 01/31/24 11:49 Sample Depth: 0.25'

Method: SW846 8021B	- Volatile Organic	Compounds	(GC)	(Continued)	
Michiga: Circat Collin	Tolutile Organic	Compounds	100,	(Oontiniaca)	

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1.4-Difluorobenzene (Surr)	78	70 - 130	02/11/24 13:26	02/12/24 15:47	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			02/12/24 15:47	1

Mathada CMO4C CO4E NM Disaal Dawns Comenica (DDC) (C	~ \
Method: SW846 8015 NM - Diesel Range Organics (DRO) (G	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	77.8		49.6	mg/Kg			02/09/24 01:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6	mg/Kg		02/05/24 13:54	02/09/24 01:15	1
Diesel Range Organics (Over C10-C28)	77.8		49.6	mg/Kg		02/05/24 13:54	02/09/24 01:15	1
Oll Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		02/05/24 13:54	02/09/24 01:15	1
0	0/ 5	O	1 5 54			D	A I I	D# F

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	67	S1-	70 - 130	02/05/24 13:54	02/09/24 01:15	1
o-Terphenyl	61	S1-	70 - 130	02/05/24 13:54	02/09/24 01:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	314		4.97	mg/Kg			02/05/24 15:51	1

Client Sample ID: SS 15 Lab Sample ID: 890-6079-3

Date Collected: 01/31/24 09:10 Date Received: 01/31/24 11:49

Sample Depth: 0.25'

Method: SW846	0024D	1/-1-4:1-	O	C	α
i wemon: 50046	OUZID -	voiatile	Organic	Compounds	1136.1

			,					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/11/24 13:26	02/12/24 16:14	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/11/24 13:26	02/12/24 16:14	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/11/24 13:26	02/12/24 16:14	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		02/11/24 13:26	02/12/24 16:14	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/11/24 13:26	02/12/24 16:14	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		02/11/24 13:26	02/12/24 16:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	143	S1+	70 - 130			02/11/24 13:26	02/12/24 16:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzea	DII Fac
4-Bromofluorobenzene (Surr)	143	S1+	70 - 130	02/11/24 13:26	02/12/24 16:14	1
1,4-Difluorobenzene (Surr)	108		70 - 130	02/11/24 13:26	02/12/24 16:14	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00401	U	0.00401	mg/Kg			02/12/24 16:14	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	70.0		50.1	mg/Kg			02/09/24 01:37	1

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Matrix: Solid

Client: Ensolum Job ID: 890-6079-1 Project/Site: CABO WABO FEDERAL 24B CTB SDG: 03D2024153

Client Sample ID: SS 15 Lab Sample ID: 890-6079-3

Date Collected: 01/31/24 09:10 Matrix: Solid Date Received: 01/31/24 11:49

Sample Depth: 0.25'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1	mg/Kg		02/05/24 13:54	02/09/24 01:37	1
Diesel Range Organics (Over C10-C28)	70.0		50.1	mg/Kg		02/05/24 13:54	02/09/24 01:37	1
Oll Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		02/05/24 13:54	02/09/24 01:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130			02/05/24 13:54	02/09/24 01:37	1
o-Terphenyl	73		70 - 130			02/05/24 13:54	02/09/24 01:37	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: SS 16 Lab Sample ID: 890-6079-4

Date Collected: 01/31/24 09:15 Matrix: Solid

Date Received: 01/31/24 11:49

Sample Depth: 0.25'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/11/24 13:26	02/12/24 18:00	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/11/24 13:26	02/12/24 18:00	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		02/11/24 13:26	02/12/24 18:00	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		02/11/24 13:26	02/12/24 18:00	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/11/24 13:26	02/12/24 18:00	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/11/24 13:26	02/12/24 18:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130			02/11/24 13:26	02/12/24 18:00	1
1,4-Difluorobenzene (Surr)	93		70 - 130			02/11/24 13:26	02/12/24 18:00	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			02/12/24 18:00	1
Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	90.7		50.2	mg/Kg			02/09/24 01:59	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	<50.2	U	50.2	mg/Kg		02/05/24 13:54	02/09/24 01:59	1
Diesel Range Organics (Over C10-C28)	90.7		50.2	mg/Kg		02/05/24 13:54	02/09/24 01:59	1
Oll Range Organics (Over C28-C36)	<50.2	U	50.2	mg/Kg		02/05/24 13:54	02/09/24 01:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130			02/05/24 13:54	02/09/24 01:59	1

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Job ID: 890-6079-1

Client: Ensolum Project/Site: CABO WABO FEDERAL 24B CTB SDG: 03D2024153

Client Sample ID: SS 16 Lab Sample ID: 890-6079-4

Date Collected: 01/31/24 09:15 Matrix: Solid Date Received: 01/31/24 11:49

Sample Depth: 0.25'

Method: EPA 300.0 - Anions, Ion Ch	romatograph	ny - Soluble						
Analyte	Result (Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	383		5.05	mg/Kg			02/05/24 16:01	1

Lab Sample ID: 890-6079-5 Client Sample ID: SS 17 Matrix: Solid

Date Collected: 01/31/24 09:20 Date Received: 01/31/24 11:49

Sample Depth: 0.25'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/11/24 13:26	02/12/24 18:27	1
Toluene	< 0.00199	U	0.00199	mg/Kg		02/11/24 13:26	02/12/24 18:27	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/11/24 13:26	02/12/24 18:27	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		02/11/24 13:26	02/12/24 18:27	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/11/24 13:26	02/12/24 18:27	1
Kylenes, Total	<0.00398	U	0.00398	mg/Kg		02/11/24 13:26	02/12/24 18:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
I-Bromofluorobenzene (Surr)	110		70 - 130			02/11/24 13:26	02/12/24 18:27	1
1,4-Difluorobenzene (Surr)	75		70 - 130			02/11/24 13:26	02/12/24 18:27	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			02/12/24 18:27	1
Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	69.7		49.9	mg/Kg			02/09/24 02:21	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		02/05/24 13:54	02/09/24 02:21	1
Diesel Range Organics (Over C10-C28)	69.7		49.9	mg/Kg		02/05/24 13:54	02/09/24 02:21	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/05/24 13:54	02/09/24 02:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	68	S1-	70 - 130			02/05/24 13:54	02/09/24 02:21	1
o-Terphenyl	71		70 - 130			02/05/24 13:54	02/09/24 02:21	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Released to Imaging: 5/29/2024 10:49:53 AM

Matrix: Solid

Client Sample Results

Client: Ensolum Job ID: 890-6079-1
Project/Site: CABO WABO FEDERAL 24B CTB SDG: 03D2024153

Client Sample ID: SS 18 Lab Sample ID: 890-6079-6

Date Collected: 01/31/24 09:25
Date Received: 01/31/24 11:49

Sample Depth: 0.25'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/11/24 13:26	02/12/24 18:53	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/11/24 13:26	02/12/24 18:53	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/11/24 13:26	02/12/24 18:53	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		02/11/24 13:26	02/12/24 18:53	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/11/24 13:26	02/12/24 18:53	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		02/11/24 13:26	02/12/24 18:53	,
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130			02/11/24 13:26	02/12/24 18:53	1
1,4-Difluorobenzene (Surr)	79		70 - 130			02/11/24 13:26	02/12/24 18:53	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			02/12/24 18:53	1
- Mothod: SW946 9045 NM Diggs	l Banga Organ	ico (DBO) (CC)					
Method: SW846 8015 NM - Diese Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	81.3		50.0	mg/Kg		Trepared	02/09/24 02:43	1
	01.0		00.0	mg/ng			02/00/21 02:10	
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL					
			INL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	Unit mg/Kg	D	Prepared 02/05/24 13:54	Analyzed 02/09/24 02:43	Dil Fac
(GRO)-C6-C10	<50.0	U	50.0	mg/Kg	<u>D</u>	<u>·</u>	02/09/24 02:43	
(GRO)-C6-C10 Diesel Range Organics (Over	<50.0 81.3				<u> </u>	<u>·</u>		1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	81.3		50.0	mg/Kg	<u>D</u>	02/05/24 13:54	02/09/24 02:43	1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28)			50.0	mg/Kg	<u> </u>	02/05/24 13:54	02/09/24 02:43	1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	81.3	U	50.0	mg/Kg	<u>D</u>	02/05/24 13:54	02/09/24 02:43	1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	81.3 <50.0	U	50.0 50.0 50.0	mg/Kg	<u>D</u>	02/05/24 13:54 02/05/24 13:54 02/05/24 13:54	02/09/24 02:43 02/09/24 02:43 02/09/24 02:43	1 1 1 Dil Fac
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	81.3 <50.0 <i>%Recovery</i>	U	50.0 50.0 50.0 <i>Limits</i>	mg/Kg	<u> </u>	02/05/24 13:54 02/05/24 13:54 02/05/24 13:54 Prepared	02/09/24 02:43 02/09/24 02:43 02/09/24 02:43 Analyzed	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	81.3 <50.0 **Recovery 89 92	U Qualifier	50.0 50.0 50.0 Limits 70 - 130 70 - 130	mg/Kg	<u>D</u>	02/05/24 13:54 02/05/24 13:54 02/05/24 13:54 Prepared 02/05/24 13:54	02/09/24 02:43 02/09/24 02:43 02/09/24 02:43 Analyzed 02/09/24 02:43	
Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	81.3 <50.0	U Qualifier	50.0 50.0 50.0 Limits 70 - 130 70 - 130	mg/Kg	<u>D</u>	02/05/24 13:54 02/05/24 13:54 02/05/24 13:54 Prepared 02/05/24 13:54	02/09/24 02:43 02/09/24 02:43 02/09/24 02:43 Analyzed 02/09/24 02:43	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Client Sample ID: SS 19 Lab Sample ID: 890-6079-7

Date Collected: 01/31/24 09:30 Date Received: 01/31/24 11:49

Sample Depth: 0.25'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		02/11/24 13:26	02/12/24 19:19	1
Toluene	<0.00201	U	0.00201	mg/Kg		02/11/24 13:26	02/12/24 19:19	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		02/11/24 13:26	02/12/24 19:19	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		02/11/24 13:26	02/12/24 19:19	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		02/11/24 13:26	02/12/24 19:19	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		02/11/24 13:26	02/12/24 19:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	142	S1+	70 - 130			02/11/24 13:26	02/12/24 19:19	1

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Matrix: Solid

Job ID: 890-6079-1

Client: Ensolum Project/Site: CABO WABO FEDERAL 24B CTB SDG: 03D2024153

Client Sample ID: SS 19 Lab Sample ID: 890-6079-7

Date Collected: 01/31/24 09:30 Matrix: Solid

Date Received: 01/31/24 11:49 Sample Depth: 0.25'

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

%Recovery Qualifier Limits Prepared Surrogate Analyzed Dil Fac 70 - 130 02/11/24 13:26 1,4-Difluorobenzene (Surr) 02/12/24 19:19

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte Result Qualifier RL Unit D Analyzed Dil Fac Prepared Total BTEX <0.00402 0.00402 02/12/24 19:19 mg/Kg

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

Result Qualifier RL Unit D Prepared Analyzed Dil Fac **Total TPH** 49.8 mg/Kg 02/09/24 03:04 89.4

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

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac <49.8 U 02/05/24 13:54 02/09/24 03:04 Gasoline Range Organics 49.8 mg/Kg (GRO)-C6-C10 49.8 mg/Kg 02/05/24 13:54 02/09/24 03:04 **Diesel Range Organics (Over** 89.4 C10-C28) OII Range Organics (Over C28-C36) <49.8 U 49.8 mg/Kg 02/05/24 13:54 02/09/24 03:04

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 80 70 - 130 02/05/24 13:54 02/09/24 03:04 o-Terphenyl 85 70 - 130 02/05/24 13:54 02/09/24 03:04

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac 5.01 02/05/24 16:16 Chloride 371 mg/Kg

Lab Sample ID: 890-6079-8 Client Sample ID: SS 20

Date Collected: 01/31/24 09:35 Date Received: 01/31/24 11:49

Sample Depth: 0.25'

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

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Benzene <0.00200 U 0.00200 mg/Kg 02/11/24 13:26 02/12/24 19:47 Toluene <0.00200 U 0.00200 02/11/24 13:26 02/12/24 19:47 mg/Kg Ethylbenzene <0.00200 U 0.00200 02/11/24 13:26 02/12/24 19:47 mg/Kg 0.00401 02/11/24 13:26 02/12/24 19:47 m-Xylene & p-Xylene <0.00401 U mg/Kg o-Xylene <0.00200 U 0.00200 mg/Kg 02/11/24 13:26 02/12/24 19:47 Xylenes, Total <0.00401 U 0.00401 mg/Kg 02/11/24 13:26 02/12/24 19:47

%Recovery Qualifier Limits Dil Fac Surrogate Prepared Analyzed S1+ 70 - 130 02/11/24 13:26 4-Bromofluorobenzene (Surr) 133 02/12/24 19:47 1,4-Difluorobenzene (Surr) 112 70 - 130 02/11/24 13:26 02/12/24 19:47

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte Result Qualifier RL D Unit Prepared Analyzed Dil Fac Total BTEX <0.00401 0.00401 02/12/24 19:47 mg/Kg

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

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac **Total TPH** 50.1 mg/Kg 02/09/24 03:26 92.6

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Matrix: Solid

Client: Ensolum Job ID: 890-6079-1
Project/Site: CABO WABO FEDERAL 24B CTB SDG: 03D2024153

Client Sample ID: SS 20 Lab Sample ID: 890-6079-8

Date Collected: 01/31/24 09:35

Date Received: 01/31/24 11:49

Matrix: Solid

Sample Depth: 0.25'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1	mg/Kg		02/05/24 13:54	02/09/24 03:26	1
Diesel Range Organics (Over C10-C28)	92.6		50.1	mg/Kg		02/05/24 13:54	02/09/24 03:26	1
Oll Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		02/05/24 13:54	02/09/24 03:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130			02/05/24 13:54	02/09/24 03:26	1
o-Terphenyl	92		70 - 130			02/05/24 13:54	02/09/24 03:26	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
y								

Client Sample ID: SS 21 Lab Sample ID: 890-6079-9

Date Collected: 01/31/24 09:40 Matrix: Solid

Date Received: 01/31/24 11:49

Sample Depth: 0.25'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/11/24 13:26	02/12/24 20:14	1
Toluene	< 0.00199	U	0.00199	mg/Kg		02/11/24 13:26	02/12/24 20:14	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/11/24 13:26	02/12/24 20:14	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		02/11/24 13:26	02/12/24 20:14	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/11/24 13:26	02/12/24 20:14	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/11/24 13:26	02/12/24 20:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130			02/11/24 13:26	02/12/24 20:14	1
1,4-Difluorobenzene (Surr)	97		70 - 130			02/11/24 13:26	02/12/24 20:14	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			02/12/24 20:14	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	82.4		50.4	mg/Kg			02/09/24 03:48	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	<50.4	U	50.4	mg/Kg		02/05/24 13:54	02/09/24 03:48	1
Diesel Range Organics (Over C10-C28)	82.4		50.4	mg/Kg		02/05/24 13:54	02/09/24 03:48	1
Oll Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg		02/05/24 13:54	02/09/24 03:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	69	S1-	70 - 130			02/05/24 13:54	02/09/24 03:48	1

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2

2

4

6

8

10

4.0

13

14

Client: Ensolum Project/Site: CABO WABO FEDERAL 24B CTB Job ID: 890-6079-1

SDG: 03D2024153

Client Sample ID: SS 21

Lab Sample ID: 890-6079-9

Matrix: Solid

Date Collected: 01/31/24 09:40 Date Received: 01/31/24 11:49

Sample Depth: 0.25'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	300	F1	24.9	mg/Kg			02/05/24 12:54	5

Client Sample ID: SS 22 Lab Sample ID: 890-6079-10 **Matrix: Solid**

Date Collected: 01/31/24 09:45 Date Received: 01/31/24 11:49

%Recovery Qualifier

68

71

600

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

S1-

Result Qualifier

Sample Depth: 0.25'

Surrogate

o-Terphenyl

Analyte

Chloride

1-Chlorooctane

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/11/24 13:26	02/12/24 20:41	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/11/24 13:26	02/12/24 20:41	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		02/11/24 13:26	02/12/24 20:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		02/11/24 13:26	02/12/24 20:41	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		02/11/24 13:26	02/12/24 20:41	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/11/24 13:26	02/12/24 20:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			02/11/24 13:26	02/12/24 20:41	1
1,4-Difluorobenzene (Surr)	92		70 - 130			02/11/24 13:26	02/12/24 20:41	1
Method: TAL SOP Total BTEX - Analyte Total BTEX		Qualifier	RL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 02/12/24 20:41	Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Diese	Result <0.00398 el Range Organ	Qualifier U	0.00398 GC)	mg/Kg		<u> </u>	02/12/24 20:41	1
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte	Result <0.00398 el Range Organ Result	Qualifier U	0.00398 GC)	mg/Kg	<u>D</u>	Prepared Prepared	02/12/24 20:41 Analyzed	1
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH	Result <0.00398 el Range Organ Result 95.6	Qualifier U ics (DRO) (Qualifier	0.00398 GC) RL 50.2	mg/Kg		<u> </u>	02/12/24 20:41	1
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte	Result <0.00398 el Range Organ Result 95.6 sel Range Orga	Qualifier U ics (DRO) (Qualifier	0.00398 GC) RL 50.2	mg/Kg		<u> </u>	02/12/24 20:41 Analyzed	Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Die	Result <0.00398 el Range Organ Result 95.6 sel Range Orga	Qualifier U ics (DRO) (Qualifier unics (DRO) Qualifier	0.00398 GC) RL 50.2	mg/Kg Unit mg/Kg	<u>D</u>	Prepared	02/12/24 20:41 Analyzed 02/09/24 04:10	Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics	el Range Organ Result 95.6 sel Range Orga Result	Qualifier U ics (DRO) (Qualifier unics (DRO) Qualifier	0.00398 GC) RL 50.2 (GC) RL	mg/Kg Unit mg/Kg Unit	<u>D</u>	Prepared Prepared	02/12/24 20:41 Analyzed 02/09/24 04:10 Analyzed	Dil Fac Dil Fac 1 Dil Fac 1 1 1

Limits

70 - 130

70 - 130

RL

24.9

Unit

mg/Kg

Prepared

02/05/24 13:54

02/05/24 13:54

Prepared

D

Dil Fac

Dil Fac

Analyzed

02/09/24 04:10

02/09/24 04:10

Analyzed

02/05/24 13:41

Matrix: Solid

Lab Sample ID: 890-6079-11

Client Sample Results

Client: Ensolum Job ID: 890-6079-1
Project/Site: CABO WABO FEDERAL 24B CTB SDG: 03D2024153

Client Sample ID: SS 23

Date Collected: 01/31/24 09:50 Date Received: 01/31/24 11:49

Sample Depth: 0.25'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/11/24 13:26	02/12/24 21:09	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/11/24 13:26	02/12/24 21:09	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/11/24 13:26	02/12/24 21:09	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		02/11/24 13:26	02/12/24 21:09	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/11/24 13:26	02/12/24 21:09	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		02/11/24 13:26	02/12/24 21:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130			02/11/24 13:26	02/12/24 21:09	1
1,4-Difluorobenzene (Surr)	111		70 - 130			02/11/24 13:26	02/12/24 21:09	1
- Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			02/12/24 21:09	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)					
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	76.4		49.6	mg/Kg			02/08/24 18:21	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	<49.6	U	49.6	mg/Kg		02/05/24 10:14	02/08/24 18:21	1
Diesel Range Organics (Over C10-C28)	76.4		49.6	mg/Kg		02/05/24 10:14	02/08/24 18:21	1
Oll Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		02/05/24 10:14	02/08/24 18:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	131	S1+	70 - 130			02/05/24 10:14	02/08/24 18:21	1
o-Terphenyl	110		70 - 130			02/05/24 10:14	02/08/24 18:21	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solub	le					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	547		24.8	mg/Kg			02/05/24 13:48	5

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Surrogate Summary

Client: Ensolum Job ID: 890-6079-1 Project/Site: CABO WABO FEDERAL 24B CTB SDG: 03D2024153

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-6078-A-1-D MS	Matrix Spike	107	79	
890-6078-A-1-E MSD	Matrix Spike Duplicate	132 S1+	105	
890-6079-1	SS 13	178 S1+	108	
890-6079-2	SS 14	124	78	
890-6079-3	SS 15	143 S1+	108	
890-6079-4	SS 16	141 S1+	93	
890-6079-5	SS 17	110	75	
890-6079-6	SS 18	138 S1+	79	
890-6079-7	SS 19	142 S1+	76	
890-6079-8	SS 20	133 S1+	112	
890-6079-9	SS 21	121	97	
890-6079-10	SS 22	107	92	
890-6079-11	SS 23	127	111	
LCS 880-72819/1-A	Lab Control Sample	124	82	
LCSD 880-72819/2-A	Lab Control Sample Dup	128	77	
MB 880-72819/5-A	Method Blank	84	109	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Li
		1CO1	OTPH1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
390-6075-A-21-E MS	Matrix Spike	90	91	
390-6075-A-21-F MSD	Matrix Spike Duplicate	98	98	
890-6077-A-1-C MS	Matrix Spike	115	91	
890-6077-A-1-D MSD	Matrix Spike Duplicate	146 S1+	122	
390-6079-1	SS 13	51 S1-	46 S1-	
390-6079-2	SS 14	67 S1-	61 S1-	
390-6079-3	SS 15	74	73	
390-6079-4	SS 16	89	88	
390-6079-5	SS 17	68 S1-	71	
390-6079-6	SS 18	89	92	
390-6079-7	SS 19	80	85	
390-6079-8	SS 20	87	92	
390-6079-9	SS 21	69 S1-	71	
390-6079-10	SS 22	68 S1-	71	
390-6079-11	SS 23	131 S1+	110	
.CS 880-72343/2-A	Lab Control Sample	97	95	
.CS 880-72386/2-A	Lab Control Sample	100	103	
.CSD 880-72343/3-A	Lab Control Sample Dup	96	95	
.CSD 880-72386/3-A	Lab Control Sample Dup	95	98	
ИВ 880-72343/1-A	Method Blank	161 S1+	141 S1+	
MB 880-72386/1-A	Method Blank	140 S1+	159 S1+	

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Surrogate Summary

Client: Ensolum

Project/Site: CABO WABO FEDERAL 24B CTB

OTPH = o-Terphenyl

Job ID: 890-6079-1 SDG: 03D2024153

2024153

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Client: Ensolum Project/Site: CABO WABO FEDERAL 24B CTB Job ID: 890-6079-1

SDG: 03D2024153

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-72819/5-A

Analysis Batch: 72833

Matrix: Solid

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 72819

	МВ	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/11/24 13:26	02/12/24 11:49	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/11/24 13:26	02/12/24 11:49	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/11/24 13:26	02/12/24 11:49	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/11/24 13:26	02/12/24 11:49	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/11/24 13:26	02/12/24 11:49	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/11/24 13:26	02/12/24 11:49	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130	02/11/24 13:2	26 02/12/24 11:49	1
1,4-Difluorobenzene (Surr)	109		70 - 130	02/11/24 13:2	26 02/12/24 11:49	1

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 880-72819/1-A Matrix: Solid Prep Type: Total/NA **Analysis Batch: 72833** Prep Batch: 72819

	Бріке	LCS	LUS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09323	-	mg/Kg		93	70 - 130	
Toluene	0.100	0.1125		mg/Kg		113	70 - 130	
Ethylbenzene	0.100	0.1134		mg/Kg		113	70 - 130	
m-Xylene & p-Xylene	0.200	0.2559		mg/Kg		128	70 - 130	
o-Xylene	0.100	0.1187		mg/Kg		119	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	124	70 - 130
1,4-Difluorobenzene (Surr)	82	70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 72819

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Limit Benzene 0.100 0.08552 mg/Kg 86 70 - 130 9 35 Toluene 0.100 0.09515 mg/Kg 95 70 - 130 17 35 Ethylbenzene 0.100 0.1075 mg/Kg 108 70 - 130 5 35 0.200 m-Xylene & p-Xylene 0.2537 mg/Kg 127 70 - 130 35 0.100 0.1023 102 o-Xylene mg/Kg 70 - 130 15 35

LCSD LCSD

Surrogate	%Recovery Qu	ualifier	Limits		
4-Bromofluorobenzene (Surr)	128		70 - 130		
1.4-Difluorobenzene (Surr)	77		70 - 130		

Lab Sample ID: 890-6078-A-1-D MS

Lab Sample ID: LCSD 880-72819/2-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 72833

Analysis Batch: 72833

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

Prep Batch: 72819

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.0996	0.09774		mg/Kg		98	70 - 130	
Toluene	<0.00200	U	0.0996	0.09090		mg/Kg		91	70 - 130	

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Prep Batch: 72819

Prep Type: Total/NA

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

QC Sample Results

Job ID: 890-6079-1 Client: Ensolum Project/Site: CABO WABO FEDERAL 24B CTB SDG: 03D2024153

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

Lab Sample ID: 890-6078-A-1-D MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid Analysis Batch: 72833

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Ethylbenzene <0.00200 U 0.0996 0.08805 88 70 - 130 mg/Kg m-Xylene & p-Xylene <0.00401 U F2 F1 0.199 0.2238 mg/Kg 112 70 - 130 0.0996 <0.00200 U 0.09037 70 - 130 o-Xylene mg/Kg 91

MS MS Surrogate %Recovery Qualifier Limits 70 - 130 4-Bromofluorobenzene (Surr) 107 1,4-Difluorobenzene (Surr) 79 70 - 130

Lab Sample ID: 890-6078-A-1-E MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid **Analysis Batch: 72833**

Analysis Batch: 72833									Prep	Batch:	72819
	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	0.09057		mg/Kg		91	70 - 130	8	35
Toluene	<0.00200	U	0.0990	0.09825		mg/Kg		99	70 - 130	8	35
Ethylbenzene	<0.00200	U	0.0990	0.09332		mg/Kg		94	70 - 130	6	35
m-Xylene & p-Xylene	<0.00401	U F2 F1	0.198	0.2400		mg/Kg		121	70 - 130	7	35
o-Xylene	<0.00200	U	0.0990	0.1040		mg/Kg		105	70 - 130	14	35

MSD MSD Surrogate Qualifier Limits %Recovery S1+ 70 - 130 4-Bromofluorobenzene (Surr) 132 1,4-Difluorobenzene (Surr) 105 70 - 130

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

Lab Sample ID: MB 880-72343/1-A

Matrix: Solid

Analysis Batch: 72615							Prep Batch	: 72343
	МВ	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/05/24 10:14	02/08/24 07:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/05/24 10:14	02/08/24 07:47	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/05/24 10:14	02/08/24 07:47	1

MB MB Dil Fac Surrogate %Recovery Qualifier Limits Prepared Analyzed 70 - 130 1-Chlorooctane 161 S1+ 02/05/24 10:14 02/08/24 07:47 o-Terphenyl 141 S1+ 70 - 130 02/05/24 10:14 02/08/24 07:47

Lab Sample ID: LCS 880-72343/2-A

Matrix: Solid

Analysis Batch: 72615							Prep	Batch: 72343
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	811.1		mg/Kg		81	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	872.0		mg/Kg		87	70 - 130	
C10-C28)								

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Prep Type: Total/NA

Job ID: 890-6079-1 Client: Ensolum Project/Site: CABO WABO FEDERAL 24B CTB SDG: 03D2024153

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

LCS LCS

%Recovery Qualifier

97

95

Lab Sample ID: LCS 880-72343/2-A Client Sample ID: Lab Control Sample

Limits

70 - 130

70 - 130

1000

Matrix: Solid

Surrogate

o-Terphenyl

1-Chlorooctane

Analysis Batch: 72615

88

70 - 130

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 72343

Lab Sample ID: LCSD 880-72343/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 72615** Prep Batch: 72343

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 1000 848.3 85 70 - 13020 Gasoline Range Organics mg/Kg 4 (GRO)-C6-C10

876.8

mg/Kg

Diesel Range Organics (Over C10-C28)

LCSD LCSD Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 96 95 70 - 130 o-Terphenyl

Lab Sample ID: 890-6077-A-1-C MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 72615

Prep Batch: 72343 MS MS Sample Sample Spike Added Analyte Result Qualifier Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.9 U F1 F2 999 1190 mg/Kg 116 70 - 130

(GRO)-C6-C10 Diesel Range Organics (Over <49.9 U F1 F2 999 920.2 mg/Kg 90 70 - 130

70 - 130

C10-C28)

o-Terphenyl

MS MS %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 115

91

Lab Sample ID: 890-6077-A-1-D MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Prep Type: Total/NA Analysis Batch: 72615 Prep Batch: 72343

Sample Sample MSD MSD RPD Spike %Rec

Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit <49.9 U F1 F2 999 <50.0 U F1 F2 Gasoline Range Organics 0.9 70 - 130 186 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U F1 F2 999 <50.0 U F1 F2 mg/Kg 0.3 70 - 130 191 20

C10-C28)

MSD MSD %Recovery Qualifier Surrogate Limits 1-Chlorooctane 146 S1+ 70 - 130 122 70 - 130 o-Terphenyl

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Client: Ensolum Project/Site: CABO WABO FEDERAL 24B CTB

Job ID: 890-6079-1

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA Prep Batch: 72386

RPD

RPD

Limit

20

20

Prep Batch: 72386

Prep Batch: 72386

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

%Rec

91

87

%Rec

Limits

70 - 130

70 - 130

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 72386

SDG: 03D2024153

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

Lab Sample ID: MB 880-72386/1-A **Matrix: Solid**

Analysis Batch: 72614

_	МВ	MB					•	
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/05/24 13:54	02/08/24 19:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/05/24 13:54	02/08/24 19:04	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/05/24 13:54	02/08/24 19:04	1
	МВ	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	140	S1+	70 - 130			02/05/24 13:54	02/08/24 19:04	1
o-Terphenyl	159	S1+	70 - 130			02/05/24 13:54	02/08/24 19:04	1

Lab Sample ID: LCS 880-72386/2-A

Matrix: Solid

Analysis Batch: 72614

	Spike	LCS I	LCS				%Rec	
Analyte	Added	Result (Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1041		mg/Kg		104	70 - 130	
(GRO)-C6-C10 Diesel Range Organics (Over	1000	903.4		mg/Kg		90	70 - 130	
C10-C28)								

Spike

Added

1000

1000

LCSD LCSD

912.7

866.9

Result Qualifier

Unit

mg/Kg

mg/Kg

	LCS		
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	103		70 - 130

Lab Sample ID: LCSD 880-72386/3-A

Matrix: Solid

Gasoline Range Organics

Diesel Range Organics (Over

(GRO)-C6-C10

Analysis	Batch:	72014	
Analyto			

C10-C28)			
	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	98		70 ₋ 130

Lab Sample ID: 890-6075-A-21-E MS

Matrix: Solid

Analysis Batch: 72614

-	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	1010	1089		mg/Kg		103	70 - 130	
Diesel Range Organics (Over C10-C28)	<50.1	U	1010	744.3		mg/Kg		71	70 - 130	

Project/Site: CABO WABO FEDERAL 24B CTB

Client: Ensolum

Job ID: 890-6079-1

SDG: 03D2024153

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

Lab Sample ID: 890-6075-A-21-E MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 72614 Prep Batch: 72386

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	90		70 - 130
o-Terphenyl	91		70 - 130

Lab Sample ID: 890-6075-A-21-F MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Prep Type: Total/NA Analysis Batch: 72614 Prep Batch: 72386

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit <50.1 U 1010 1193 113 70 - 1309 20 Gasoline Range Organics mg/Kg

(GRO)-C6-C10 Diesel Range Organics (Over 1010 792.5 <50.1 U mg/Kg 76 70 - 1306 20 C10-C28)

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

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-72129/1-A Client Sample ID: Method Blank

Matrix: Solid Prep Type: Soluble

Analysis Batch: 72321

Analyte Result Qualifier RL Unit D Dil Fac Prepared Analyzed Chloride 5.00 <5.00 U mg/Kg 02/05/24 13:43

Lab Sample ID: LCS 880-72129/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 72321

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits

мв мв

Chloride 250 244.2 mg/Kg 98 90 - 110 Lab Sample ID: LCSD 880-72129/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Soluble

Analysis Batch: 72321 Spike LCSD LCSD %Rec RPD Added D Limits RPD

Analyte Result Qualifier Unit %Rec Limit Chloride 250 244.2 98 90 - 110 20 mg/Kg

Lab Sample ID: 890-6078-A-6-B MS Client Sample ID: Matrix Spike

Matrix: Solid Prep Type: Soluble Analysis Batch: 72321

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits F1 251 F1 Chloride 404 625.8 mg/Kg 90 - 110

QC Sample Results

Client: Ensolum Job ID: 890-6079-1 Project/Site: CABO WABO FEDERAL 24B CTB

SDG: 03D2024153

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-6078-A-6-C MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 72321

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	404	F1	251	640.5		mg/Kg		94	90 - 110	2	20	

Lab Sample ID: MB 880-72130/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 72328

мв мв

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			02/05/24 12:34	1

Lab Sample ID: LCS 880-72130/2-A **Client Sample ID: Lab Control Sample** Matrix: Solid **Prep Type: Soluble**

Analysis Batch: 72328

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	 250	245.4		mg/Kg		98	90 - 110	

Lab Sample ID: LCSD 880-72130/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 72328

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	243.4		mg/Kg		97	90 - 110	1	20

Lab Sample ID: 890-6079-9 MS Client Sample ID: SS 21 **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 72328

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	300	F1	1240	1733	F1	ma/Ka		115	90 - 110		_

Lab Sample ID: 890-6079-9 MSD Client Sample ID: SS 21 **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 72328

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte			Added	Result		Unit	п	%Rec	Limits	RPD	Limit	
		Qualifier			Quanner			/01100				
Chloride	300	F1	1240	1722	F1	ma/Ka		114	90 - 110	1	20	

Client: Ensolum
Project/Site: CABO WABO FEDERAL 24B CTB
Job ID: 890-6079-1
SDG: 03D2024153

GC VOA

Prep Batch: 72819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-6079-1	SS 13	Total/NA	Solid	5035	
890-6079-2	SS 14	Total/NA	Solid	5035	
890-6079-3	SS 15	Total/NA	Solid	5035	
890-6079-4	SS 16	Total/NA	Solid	5035	
890-6079-5	SS 17	Total/NA	Solid	5035	
890-6079-6	SS 18	Total/NA	Solid	5035	
890-6079-7	SS 19	Total/NA	Solid	5035	
890-6079-8	SS 20	Total/NA	Solid	5035	
890-6079-9	SS 21	Total/NA	Solid	5035	
890-6079-10	SS 22	Total/NA	Solid	5035	
890-6079-11	SS 23	Total/NA	Solid	5035	
MB 880-72819/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-72819/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-72819/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-6078-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
890-6078-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 72833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6079-1	SS 13	Total/NA	Solid	8021B	72819
890-6079-2	SS 14	Total/NA	Solid	8021B	72819
890-6079-3	SS 15	Total/NA	Solid	8021B	72819
890-6079-4	SS 16	Total/NA	Solid	8021B	72819
890-6079-5	SS 17	Total/NA	Solid	8021B	72819
890-6079-6	SS 18	Total/NA	Solid	8021B	72819
890-6079-7	SS 19	Total/NA	Solid	8021B	72819
890-6079-8	SS 20	Total/NA	Solid	8021B	72819
890-6079-9	SS 21	Total/NA	Solid	8021B	72819
890-6079-10	SS 22	Total/NA	Solid	8021B	72819
890-6079-11	SS 23	Total/NA	Solid	8021B	72819
MB 880-72819/5-A	Method Blank	Total/NA	Solid	8021B	72819
LCS 880-72819/1-A	Lab Control Sample	Total/NA	Solid	8021B	72819
LCSD 880-72819/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	72819
890-6078-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	72819
890-6078-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	72819

Analysis Batch: 73048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-6079-1	SS 13	Total/NA	Solid	Total BTEX	
890-6079-2	SS 14	Total/NA	Solid	Total BTEX	
890-6079-3	SS 15	Total/NA	Solid	Total BTEX	
890-6079-4	SS 16	Total/NA	Solid	Total BTEX	
890-6079-5	SS 17	Total/NA	Solid	Total BTEX	
890-6079-6	SS 18	Total/NA	Solid	Total BTEX	
890-6079-7	SS 19	Total/NA	Solid	Total BTEX	
890-6079-8	SS 20	Total/NA	Solid	Total BTEX	
890-6079-9	SS 21	Total/NA	Solid	Total BTEX	
890-6079-10	SS 22	Total/NA	Solid	Total BTEX	
890-6079-11	SS 23	Total/NA	Solid	Total BTEX	

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Client: Ensolum Job ID: 890-6079-1 Project/Site: CABO WABO FEDERAL 24B CTB SDG: 03D2024153

GC Semi VOA

Prep Batch: 72343

Lab Sample ID 890-6079-11	Client Sample ID SS 23	Prep Type Total/NA	Matrix Solid	Method 8015NM Prep	Prep Batch
MB 880-72343/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-72343/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-72343/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-6077-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-6077-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 72386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6079-1	SS 13	Total/NA	Solid	8015NM Prep	
890-6079-2	SS 14	Total/NA	Solid	8015NM Prep	
890-6079-3	SS 15	Total/NA	Solid	8015NM Prep	
890-6079-4	SS 16	Total/NA	Solid	8015NM Prep	
890-6079-5	SS 17	Total/NA	Solid	8015NM Prep	
890-6079-6	SS 18	Total/NA	Solid	8015NM Prep	
890-6079-7	SS 19	Total/NA	Solid	8015NM Prep	
890-6079-8	SS 20	Total/NA	Solid	8015NM Prep	
890-6079-9	SS 21	Total/NA	Solid	8015NM Prep	
890-6079-10	SS 22	Total/NA	Solid	8015NM Prep	
MB 880-72386/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-72386/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-72386/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-6075-A-21-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-6075-A-21-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 72614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6079-1	SS 13	Total/NA	Solid	8015B NM	72386
890-6079-2	SS 14	Total/NA	Solid	8015B NM	72386
890-6079-3	SS 15	Total/NA	Solid	8015B NM	72386
890-6079-4	SS 16	Total/NA	Solid	8015B NM	72386
890-6079-5	SS 17	Total/NA	Solid	8015B NM	72386
890-6079-6	SS 18	Total/NA	Solid	8015B NM	72386
890-6079-7	SS 19	Total/NA	Solid	8015B NM	72386
890-6079-8	SS 20	Total/NA	Solid	8015B NM	72386
890-6079-9	SS 21	Total/NA	Solid	8015B NM	72386
890-6079-10	SS 22	Total/NA	Solid	8015B NM	72386
MB 880-72386/1-A	Method Blank	Total/NA	Solid	8015B NM	72386
LCS 880-72386/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	72386
LCSD 880-72386/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	72386
890-6075-A-21-E MS	Matrix Spike	Total/NA	Solid	8015B NM	72386
890-6075-A-21-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	72386

Analysis Batch: 72615

Lab Sample ID 890-6079-11	Client Sample ID SS 23	Prep Type Total/NA	Matrix Solid	Method 8015B NM	Prep Batch 72343
MB 880-72343/1-A	Method Blank	Total/NA	Solid	8015B NM	72343
LCS 880-72343/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	72343
LCSD 880-72343/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	72343
890-6077-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	72343
890-6077-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	72343

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Client: Ensolum Job ID: 890-6079-1 Project/Site: CABO WABO FEDERAL 24B CTB SDG: 03D2024153

GC Semi VOA

Analysis Batch: 72769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6079-1	SS 13	Total/NA	Solid	8015 NM	
890-6079-2	SS 14	Total/NA	Solid	8015 NM	
890-6079-3	SS 15	Total/NA	Solid	8015 NM	
890-6079-4	SS 16	Total/NA	Solid	8015 NM	
890-6079-5	SS 17	Total/NA	Solid	8015 NM	
890-6079-6	SS 18	Total/NA	Solid	8015 NM	
890-6079-7	SS 19	Total/NA	Solid	8015 NM	
890-6079-8	SS 20	Total/NA	Solid	8015 NM	
890-6079-9	SS 21	Total/NA	Solid	8015 NM	
890-6079-10	SS 22	Total/NA	Solid	8015 NM	
890-6079-11	SS 23	Total/NA	Solid	8015 NM	
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HPLC/IC

Leach Batch: 72129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6079-1	SS 13	Soluble	Solid	DI Leach	
890-6079-2	SS 14	Soluble	Solid	DI Leach	
890-6079-3	SS 15	Soluble	Solid	DI Leach	
890-6079-4	SS 16	Soluble	Solid	DI Leach	
890-6079-5	SS 17	Soluble	Solid	DI Leach	
890-6079-6	SS 18	Soluble	Solid	DI Leach	
890-6079-7	SS 19	Soluble	Solid	DI Leach	
890-6079-8	SS 20	Soluble	Solid	DI Leach	
MB 880-72129/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-72129/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-72129/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-6078-A-6-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-6078-A-6-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 72130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-6079-9	SS 21	Soluble	Solid	DI Leach	_
890-6079-10	SS 22	Soluble	Solid	DI Leach	
890-6079-11	SS 23	Soluble	Solid	DI Leach	
MB 880-72130/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-72130/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-72130/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-6079-9 MS	SS 21	Soluble	Solid	DI Leach	
890-6079-9 MSD	SS 21	Soluble	Solid	DI Leach	

Analysis Batch: 72321

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6079-1	SS 13	Soluble	Solid	300.0	72129
890-6079-2	SS 14	Soluble	Solid	300.0	72129
890-6079-3	SS 15	Soluble	Solid	300.0	72129
890-6079-4	SS 16	Soluble	Solid	300.0	72129
890-6079-5	SS 17	Soluble	Solid	300.0	72129
890-6079-6	SS 18	Soluble	Solid	300.0	72129
890-6079-7	SS 19	Soluble	Solid	300.0	72129
890-6079-8	SS 20	Soluble	Solid	300.0	72129

Client: Ensolum
Project/Site: CABO WABO FEDERAL 24B CTB
SDG: 03D2024153

HPLC/IC (Continued)

Analysis Batch: 72321 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-72129/1-A	Method Blank	Soluble	Solid	300.0	72129
LCS 880-72129/2-A	Lab Control Sample	Soluble	Solid	300.0	72129
LCSD 880-72129/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	72129
890-6078-A-6-B MS	Matrix Spike	Soluble	Solid	300.0	72129
890-6078-A-6-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	72129

Analysis Batch: 72328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6079-9	SS 21	Soluble	Solid	300.0	72130
890-6079-10	SS 22	Soluble	Solid	300.0	72130
890-6079-11	SS 23	Soluble	Solid	300.0	72130
MB 880-72130/1-A	Method Blank	Soluble	Solid	300.0	72130
LCS 880-72130/2-A	Lab Control Sample	Soluble	Solid	300.0	72130
LCSD 880-72130/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	72130
890-6079-9 MS	SS 21	Soluble	Solid	300.0	72130
890-6079-9 MSD	SS 21	Soluble	Solid	300.0	72130

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Job ID: 890-6079-1

Client: Ensolum Project/Site: CABO WABO FEDERAL 24B CTB SDG: 03D2024153

Client Sample ID: SS 13 Lab Sample ID: 890-6079-1 Date Collected: 01/31/24 09:00

Matrix: Solid

Date Received: 01/31/24 11:49

	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	72819	02/11/24 13:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72833	02/12/24 15:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73048	02/12/24 15:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			72769	02/09/24 00:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	72386	02/05/24 13:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72614	02/09/24 00:53	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	72129	02/01/24 11:18	SMC	EET MID
Soluble	Analysis	300.0		1			72321	02/05/24 15:37	CH	EET MID

Client Sample ID: SS 14 Lab Sample ID: 890-6079-2

Date Collected: 01/31/24 09:05 Matrix: Solid Date Received: 01/31/24 11:49

	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	72819	02/11/24 13:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72833	02/12/24 15:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73048	02/12/24 15:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			72769	02/09/24 01:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	72386	02/05/24 13:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72614	02/09/24 01:15	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	72129	02/01/24 11:18	SMC	EET MIC
Soluble	Analysis	300.0		1			72321	02/05/24 15:51	CH	EET MID

Client Sample ID: SS 15 Lab Sample ID: 890-6079-3

Date Collected: 01/31/24 09:10 **Matrix: Solid** Date Received: 01/31/24 11:49

	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	72819	02/11/24 13:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72833	02/12/24 16:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73048	02/12/24 16:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			72769	02/09/24 01:37	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	72386	02/05/24 13:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72614	02/09/24 01:37	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	72129	02/01/24 11:18	SMC	EET MID
Soluble	Analysis	300.0		1			72321	02/05/24 15:56	CH	EET MID

Client Sample ID: SS 16 Lab Sample ID: 890-6079-4 Date Collected: 01/31/24 09:15

Date Received: 01/31/24 11:49

Released to Imaging: 5/29/2024 10:49:53 AM

	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	72819	02/11/24 13:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72833	02/12/24 18:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73048	02/12/24 18:00	SM	EET MID

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Client: Ensolum

Project/Site: CABO WABO FEDERAL 24B CTB

SDG: 03D2024153

Lab Sample ID: 890-6079-4

Matrix: Solid

Job ID: 890-6079-1

Date Collected: 01/31/24 09:15 Date Received: 01/31/24 11:49

Client Sample ID: SS 16

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			72769	02/09/24 01:59	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	72386	02/05/24 13:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72614	02/09/24 01:59	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	72129	02/01/24 11:18	SMC	EET MID
Soluble	Analysis	300.0		1			72321	02/05/24 16:01	CH	EET MID

Client Sample ID: SS 17 Lab Sample ID: 890-6079-5 **Matrix: Solid**

Date Collected: 01/31/24 09:20 Date Received: 01/31/24 11:49

	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	72819	02/11/24 13:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72833	02/12/24 18:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73048	02/12/24 18:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			72769	02/09/24 02:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	72386	02/05/24 13:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72614	02/09/24 02:21	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	72129	02/01/24 11:18	SMC	EET MID
Soluble	Analysis	300.0		1			72321	02/05/24 16:06	CH	EET MID

Client Sample ID: SS 18 Lab Sample ID: 890-6079-6

Date Collected: 01/31/24 09:25 Date Received: 01/31/24 11:49

	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	72819	02/11/24 13:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72833	02/12/24 18:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73048	02/12/24 18:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			72769	02/09/24 02:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	72386	02/05/24 13:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72614	02/09/24 02:43	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	72129	02/01/24 11:18	SMC	EET MID
Soluble	Analysis	300.0		1			72321	02/05/24 16:11	CH	EET MID

Client Sample ID: SS 19 Lab Sample ID: 890-6079-7

Date Collected: 01/31/24 09:30 Date Received: 01/31/24 11:49

_	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	72819	02/11/24 13:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72833	02/12/24 19:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73048	02/12/24 19:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			72769	02/09/24 03:04	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.05 g 1 uL	10 mL 1 uL	72386 72614	02/05/24 13:54 02/09/24 03:04	TKC SM	EET MID EET MID

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Matrix: Solid

Client: Ensolum

Project/Site: CABO WABO FEDERAL 24B CTB

Job ID: 890-6079-1

SDG: 03D2024153

Client Sample ID: SS 19

Date Collected: 01/31/24 09:30 Date Received: 01/31/24 11:49

Lab Sample ID: 890-6079-7

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			4.99 g	50 mL	72129	02/01/24 11:18	SMC	EET MID
Soluble	Analysis	300.0		1			72321	02/05/24 16:16	CH	EET MID

Client Sample ID: SS 20 Lab Sample ID: 890-6079-8

Date Collected: 01/31/24 09:35 Date Received: 01/31/24 11:49

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	72819	02/11/24 13:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72833	02/12/24 19:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73048	02/12/24 19:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			72769	02/09/24 03:26	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	72386	02/05/24 13:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72614	02/09/24 03:26	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	72129	02/01/24 11:18	SMC	EET MID
Soluble	Analysis	300.0		1			72321	02/05/24 16:21	CH	EET MID

Client Sample ID: SS 21 Lab Sample ID: 890-6079-9

Date Collected: 01/31/24 09:40 Date Received: 01/31/24 11:49

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	72819	02/11/24 13:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72833	02/12/24 20:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73048	02/12/24 20:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			72769	02/09/24 03:48	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	72386	02/05/24 13:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72614	02/09/24 03:48	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	72130	02/01/24 11:22	SMC	EET MID
Soluble	Analysis	300.0		5			72328	02/05/24 12:54	CH	EET MID

Client Sample ID: SS 22 Lab Sample ID: 890-6079-10

Date Collected: 01/31/24 09:45 Date Received: 01/31/24 11:49

	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	72819	02/11/24 13:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72833	02/12/24 20:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73048	02/12/24 20:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			72769	02/09/24 04:10	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	72386	02/05/24 13:54	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72614	02/09/24 04:10	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	72130	02/01/24 11:22	SMC	EET MID
Soluble	Analysis	300.0		5			72328	02/05/24 13:41	CH	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum Job ID: 890-6079-1
Project/Site: CABO WABO FEDERAL 24B CTB SDG: 03D2024153

Client Sample ID: SS 23 Lab Sample ID: 890-6079-11

Date Collected: 01/31/24 09:50

Date Received: 01/31/24 11:49

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			5.01 g	5 mL	72819	02/11/24 13:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72833	02/12/24 21:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73048	02/12/24 21:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			72769	02/08/24 18:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	72343	02/05/24 10:14	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72615	02/08/24 18:21	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	72130	02/01/24 11:22	SMC	EET MID
Soluble	Analysis	300.0		5			72328	02/05/24 13:48	CH	EET MID

Laboratory References:

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

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Accreditation/Certification Summary

Client: Ensolum
Project/Site: CABO WABO FEDERAL 24B CTB
SDG: 03D2024153

Laboratory: Eurofins Midland

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

Authority	Progr	am	Identification Number	Expiration Date
Texas	NELA	Р	T104704400-23-26	06-30-24
,	are included in this report, but oes not offer certification.	it the laboratory is not certif	fied by the governing authority. This lis	t may include analytes
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	
Total BTEX	Total BTEX Solid Total BTEX		Total BTEX	

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Method Summary

Client: Ensolum

Project/Site: CABO WABO FEDERAL 24B CTB

Job ID: 890-6079-1

SDG: 03D2024153

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 24B CTB

Job ID: 890-6079-1

SDG: 03D2024153

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
890-6079-1	SS 13	Solid	01/31/24 09:00	01/31/24 11:49	0.25'	
890-6079-2	SS 14	Solid	01/31/24 09:05	01/31/24 11:49	0.25'	
890-6079-3	SS 15	Solid	01/31/24 09:10	01/31/24 11:49	0.25'	
890-6079-4	SS 16	Solid	01/31/24 09:15	01/31/24 11:49	0.25'	
890-6079-5	SS 17	Solid	01/31/24 09:20	01/31/24 11:49	0.25'	
890-6079-6	SS 18	Solid	01/31/24 09:25	01/31/24 11:49	0.25'	
890-6079-7	SS 19	Solid	01/31/24 09:30	01/31/24 11:49	0.25'	
890-6079-8	SS 20	Solid	01/31/24 09:35	01/31/24 11:49	0.25'	
890-6079-9	SS 21	Solid	01/31/24 09:40	01/31/24 11:49	0.25'	
890-6079-10	SS 22	Solid	01/31/24 09:45	01/31/24 11:49	0.25'	
890-6079-11	SS 23	Solid	01/31/24 09:50	01/31/24 11:49	0.25'	

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 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 circumstance relinquished by: (Signature) Beach project and a charge of \$5 for each samples submitted to Eurofine Xenco Automatical Project and a charge of \$5 for each samples submitted to Eurofine Xenco Automatical Project and a charge of \$5 for each samples submitted to Eurofine Xenco Automatical Project Automatical Proje	Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	5522	5521	820	25/9	5517	91195	5516	2012	3	Sample Identification	Total Containers:	Cooler Custody Seals:	Samples Received Intact:	SAMPLE RECEIPT	PO #:		Project Number: 0		Phone: 4	City, State ZIP:	Address:	Company Name:	Project Manager:		eurofins
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Received by: (Signature)	Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Tl Sn U V Zn Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471										NaC	Zn	Na ₂	Nat	H. 7.	HCI.	Coc	No		EDD ADaPT	Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	Lan C Brown	UST/PST PRP Brownfields PBC	3		Work Order No:
Date/Time	n U V Zn 0 /7471									Sample Comments	NaOH+Ascorbic Acid: SAPC	Zn Acetate+NaOH: Zn	Na ₂ S ₂ O ₃ : NaSO ₃	NaHSO 4: NABIS		HCL: HC HNO 3: HN		None: NO DI Water: H ₂ O	Preservative Codes	Other	IST TRRP Leve	ans vuc abenuna			Page of	

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Zn Acetate+NaOH: Zn		10	/ X		Temperature Reading:	No N/A Temp	eals:	Sample Custody Seals:	
Na 5,0 S, NASO		<u> </u>		Box	Correction Factor:	N/A	als: Yes	Cooler Custody Seals:	
H ₃ PO ₄ ; HP			ame		eter			Samples Received Intact:	
H ₂ SO ₄ : H ₂ NaOH: Na			ters		-	Temp Blank: Yes No		SAMPLE RECEIPT	
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2/13/2024

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-6079-1 SDG Number: 03D2024153

Login Number: 6079 List Source: Eurofins Carlsbad

List Number: 1

Creator: Bruns, Shannon

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 N

Job Number: 890-6079-1 SDG Number: 03D2024153

List Source: Eurofins Midland
List Number: 2
List Creation: 02/01/24 11:02 AM

Creator: Rodriguez, Leticia

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

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Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green Ensolum 601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 3/5/2024 12:44:49 PM

JOB DESCRIPTION

Cabo Wabo Federl 24B CTB Eddy County

JOB NUMBER

880-40019-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization

Generated 3/5/2024 12:44:49 PM

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

3/5/2024

Released to Imaging: 5/29/2024 10:49:53 AM

Client: Ensolum Project/Site: Cabo Wabo Federl 24B CTB Laboratory Job ID: 880-40019-1

SDG: Eddy County

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Definitions/Glossary

Job ID: 880-40019-1 Client: Ensolum Project/Site: Cabo Wabo Federl 24B CTB SDG: Eddy County

Qualifiers

GC VOA Qualifier

Qualifier Description Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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

GC Semi VOA

Qualifier	Qualifier Description
В	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

DL, RA, RE, IN

DLC

EDL

LOD

LOQ

Abbreviation	These commonly used abbreviations may or may not be present in this report.					
п	Listed under the "D" column to designate that the result is reported on a dry weight basis					
%R	Percent Recovery					
CFL	Contains Free Liquid					
CFU	Colony Forming Unit					
CNF	Contains No Free Liquid					
DER	Duplicate Error Ratio (normalized absolute difference)					
Dil Fac	Dilution Factor					
DL	Detection Limit (DoD/DOE)					

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

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

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

NC Not Calculated

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

Decision Level Concentration (Radiochemistry)

Estimated Detection Limit (Dioxin)

Limit of Quantitation (DoD/DOE)

Limit of Detection (DoD/DOE)

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

Presumptive **PRES** QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum Job ID: 880-40019-1

Project: Cabo Wabo Federl 24B CTB

Job ID: 880-40019-1 Eurofins Midland

Job Narrative 880-40019-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt

The samples were received on 2/27/2024 4:47 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 0.5°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SW01 (880-40019-1), SW02 (880-40019-2), SW03 (880-40019-3) and SW04 (880-40019-4).

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-74384 and analytical batch 880-74314 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 TX_1005: The surrogate recovery for the blank associated with preparation batch 880-74530 and analytical batch 880-74564 was outside the upper control limits.

Method TX_1005: The method blank for preparation batch 880-74530 and analytical batch 880-74564 contained C6-C12 Range Hydrocarbons above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method TX_1005: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-74530 and analytical batch 880-74564 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

HPLC/IC

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-74240 and analytical batch 880-74484 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Eurofins Midland

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Matrix: Solid

Lab Sample ID: 880-40019-1

Job ID: 880-40019-1

Client: Ensolum Project/Site: Cabo Wabo Federl 24B CTB SDG: Eddy County

Client Sample ID: SW01

Date Collected: 02/27/24 11:05 Date Received: 02/27/24 16:47

Sample Depth: 0-0.5'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000388	mg/Kg		02/29/24 13:08	03/01/24 06:42	1
Toluene	<0.00202	U	0.00202	0.000460	mg/Kg		02/29/24 13:08	03/01/24 06:42	1
Ethylbenzene	<0.00202	U	0.00202	0.000570	mg/Kg		02/29/24 13:08	03/01/24 06:42	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	0.00102	mg/Kg		02/29/24 13:08	03/01/24 06:42	1
o-Xylene	<0.00202	U	0.00202	0.000347	mg/Kg		02/29/24 13:08	03/01/24 06:42	1
Xylenes, Total	<0.00403	U	0.00403	0.00102	mg/Kg		02/29/24 13:08	03/01/24 06:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130				02/29/24 13:08	03/01/24 06:42	1
1,4-Difluorobenzene (Surr)	108		70 - 130				02/29/24 13:08	03/01/24 06:42	1

Method: TAL SOP Total BTEX - Total	BTEX Cal	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	0.00102	mg/Kg			03/01/24 06:42	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12 Range Hydrocarbons	28.0	JB	49.6	14.9	mg/Kg		03/03/24 00:37	03/04/24 13:24	1
>C12-C28 Range Hydrocarbons	10.5		49.6	14.9	mg/Kg		03/03/24 00:37	03/04/24 13:24	1
>C28-C35 Range Hydrocarbons	20.9	J	49.6	14.9	mg/Kg		03/03/24 00:37	03/04/24 13:24	1
Total Petroleum Hydrocarbons (C6-C35)	59.4		49.6	14.9	mg/Kg			03/04/24 13:24	1

Surrogate	%Recovery	Qualifier Limit	S Prepared	d Analyzed	Dil Fac
1-Chlorooctane (Surr)	111	70 - 1	30 03/03/24 00	03/04/24 13:24	1
o-Terphenyl (Surr)	113	70 - 1	30 03/03/24 00	03/04/24 13:24	1

Method: EPA 300.0 - Anions, Ion C	hromatography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	166	5.03	0.397 mg/Kg			03/03/24 15:48	1

Client Sample ID: SW02 Lab Sample ID: 880-40019-2 Date Collected: 02/27/24 11:07 **Matrix: Solid**

Date Received: 02/27/24 16:47

Sample Depth: 0-0.5'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg		02/29/24 13:08	03/01/24 07:03	1
Toluene	0.000607	J	0.00201	0.000459	mg/Kg		02/29/24 13:08	03/01/24 07:03	1
Ethylbenzene	<0.00201	U	0.00201	0.000568	mg/Kg		02/29/24 13:08	03/01/24 07:03	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00102	mg/Kg		02/29/24 13:08	03/01/24 07:03	1
o-Xylene	0.000680	J	0.00201	0.000346	mg/Kg		02/29/24 13:08	03/01/24 07:03	1
Xylenes, Total	<0.00402	U	0.00402	0.00102	mg/Kg		02/29/24 13:08	03/01/24 07:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130				02/29/24 13:08	03/01/24 07:03	1
1,4-Difluorobenzene (Surr)	104		70 ₋ 130				02/29/24 13:08	03/01/24 07:03	1

Client: Ensolum

Job ID: 880-40019-1

SDG: Eddy County

Project/Site: Cabo Wabo Federl 24B CTB **Client Sample ID: SW02** Lab Sample ID: 880-40019-2

Matrix: Solid

Date Received: 02/27/24 16:47 Sample Depth: 0-0.5'

Date Collected: 02/27/24 11:07

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00129	J	0.00402	0.00102	mg/Kg			03/01/24 07:03	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12 Range Hydrocarbons	25.8	JB	50.4	15.1	mg/Kg		03/03/24 00:37	03/04/24 13:45	1
>C12-C28 Range Hydrocarbons	57.8		50.4	15.1	mg/Kg		03/03/24 00:37	03/04/24 13:45	1
>C28-C35 Range Hydrocarbons	<50.4	U	50.4	15.1	mg/Kg		03/03/24 00:37	03/04/24 13:45	1
Total Petroleum Hydrocarbons (C6-C35)	83.6		50.4	15.1	mg/Kg			03/04/24 13:45	1

Surrogate	%Recovery Qu	ualifier Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	112	70 - 130	03/03/24 00:37	03/04/24 13:45	1
o-Terphenyl (Surr)	119	70 - 130	03/03/24 00:37	03/04/24 13:45	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
	Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac	
	Chloride	296	4.98	0.393 mg/Kg			03/03/24 16:18	1	

Client Sample ID: SW03 Lab Sample ID: 880-40019-3

Date Collected: 02/27/24 11:09 Date Received: 02/27/24 16:47

Sample Depth: 0-0.5'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000386	mg/Kg		02/29/24 13:08	03/01/24 07:23	1
Toluene	<0.00200	U	0.00200	0.000457	mg/Kg		02/29/24 13:08	03/01/24 07:23	1
Ethylbenzene	<0.00200	U	0.00200	0.000566	mg/Kg		02/29/24 13:08	03/01/24 07:23	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	0.00101	mg/Kg		02/29/24 13:08	03/01/24 07:23	1
o-Xylene	<0.00200	U	0.00200	0.000345	mg/Kg		02/29/24 13:08	03/01/24 07:23	1
Xylenes, Total	<0.00401	U	0.00401	0.00101	mg/Kg		02/29/24 13:08	03/01/24 07:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130				02/29/24 13:08	03/01/24 07:23	1
1,4-Difluorobenzene (Surr)	106		70 - 130				02/29/24 13:08	03/01/24 07:23	1
1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX		culation	70 - 130				02/29/24 13:08	03/01/24 07:23	1
- '	- Total BTEX Cald	culation Qualifier	70 ₋ 130 R L	MDL	Unit	D	02/29/24 13:08 Prepared	03/01/24 07:23 Analyzed	1 Dil Fac
Method: TAL SOP Total BTEX	- Total BTEX Cald	Qualifier		MDL 0.00101	Unit mg/Kg	<u>D</u>			
Method: TAL SOP Total BTEX Analyte	- Total BTEX Calc Result <0.00401	Qualifier U	RL 0.00401			<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX	- Total BTEX Calc Result <0.00401	Qualifier U	RL 0.00401	0.00101		<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: TCEQ TX 1005 - Texas	- Total BTEX Calc Result <0.00401	Qualifier U m Hydrocar Qualifier	RL 0.00401	0.00101	mg/Kg		Prepared	Analyzed 03/01/24 07:23	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: TCEQ TX 1005 - Texas Analyte	- Total BTEX Calc Result <0.00401 s - Total Petroleu Result	Qualifier U M Hydrocar Qualifier J B	RL 0.00401 bon (GC) RL	0.00101 MDL	mg/Kg		Prepared Prepared	Analyzed 03/01/24 07:23 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: TCEQ TX 1005 - Texas Analyte C6-C12 Range Hydrocarbons	- Total BTEX Calc Result <0.00401 s - Total Petroleu Result 45.2	Qualifier U M Hydrocar Qualifier J B	RL 0.00401 rbon (GC) RL 50.4	0.00101 MDL 15.1	mg/Kg Unit mg/Kg		Prepared Prepared 03/03/24 00:37	Analyzed 03/01/24 07:23 Analyzed 03/04/24 14:07	Dil Fac

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Analyzed

03/04/24 14:07

03/04/24 14:07

Prepared

03/03/24 00:37

03/03/24 00:37

Limits

70 - 130

70 - 130

%Recovery Qualifier

107

117

Dil Fac

Released to Imaging: 5/29/2024 10:49:53 AM

Surrogate

1-Chlorooctane (Surr)

o-Terphenyl (Surr)

Job ID: 880-40019-1

Client: Ensolum Project/Site: Cabo Wabo Federl 24B CTB SDG: Eddy County

Lab Sample ID: 880-40019-3

Client Sample ID: SW03 Date Collected: 02/27/24 11:09 Date Received: 02/27/24 16:47

Matrix: Solid

Sample Depth: 0-0.5'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	82.7		4.96	0.392	mg/Kg			03/03/24 16:28	1

Lab Sample ID: 880-40019-4 **Client Sample ID: SW04**

Matrix: Solid

Date Collected: 02/27/24 11:11 Date Received: 02/27/24 16:47

Sample Depth: 0-0.5'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	0.000381	mg/Kg		02/29/24 13:08	03/01/24 07:44	1
Toluene	<0.00198	U	0.00198	0.000451	mg/Kg		02/29/24 13:08	03/01/24 07:44	1
Ethylbenzene	<0.00198	U	0.00198	0.000559	mg/Kg		02/29/24 13:08	03/01/24 07:44	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	0.00100	mg/Kg		02/29/24 13:08	03/01/24 07:44	1
o-Xylene	<0.00198	U	0.00198	0.000341	mg/Kg		02/29/24 13:08	03/01/24 07:44	1
Xylenes, Total	<0.00396	U	0.00396	0.00100	mg/Kg		02/29/24 13:08	03/01/24 07:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				02/29/24 13:08	03/01/24 07:44	1
1,4-Difluorobenzene (Surr)	109		70 ₋ 130				02/29/24 13:08	03/01/24 07:44	1

Method: TAL SOP Total BTEX - Total	al BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	0.00100	mg/Kg			03/01/24 07:44	1

Method: TCEQ TX 1005 - Texas - 1	Total Petroleu	m Hydrocarb	on (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12 Range Hydrocarbons	37.0	JB	50.4	15.1	mg/Kg		03/03/24 00:37	03/04/24 14:28	1
>C12-C28 Range Hydrocarbons	30.6		50.4	15.1	mg/Kg		03/03/24 00:37	03/04/24 14:28	1
>C28-C35 Range Hydrocarbons	<50.4	U	50.4	15.1	mg/Kg		03/03/24 00:37	03/04/24 14:28	1
Total Petroleum Hydrocarbons (C6-C35)	67.6		50.4	15.1	mg/Kg			03/04/24 14:28	1

	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	1-Chlorooctane (Surr)	100		70 - 130	03/03/24 00:37	03/04/24 14:28	1
l	o-Terphenyl (Surr)	103		70 - 130	03/03/24 00:37	03/04/24 14:28	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	303		4.97	0.393	mg/Kg			03/03/24 16:37	1

Surrogate Summary

Client: Ensolum
Project/Site: Cabo Wabo Federl 24B CTB

SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-40019-1	SW01	123	108
880-40019-2	SW02	123	104
880-40019-3	SW03	123	106
880-40019-4	SW04	113	109
LCS 880-74384/1-A	Lab Control Sample	100	101
LCSD 880-74384/2-A	Lab Control Sample Dup	103	98
MB 880-74189/5-A	Method Blank	114	125
MB 880-74384/5-A	Method Blank	133 S1+	137 S1+

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Matrix: Solid Prep Type: Total/NA

		100	ОТРН
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-40019-1	SW01	111	113
880-40019-2	SW02	112	119
880-40019-3	SW03	107	117
880-40019-4	SW04	100	103
LCS 880-74530/2-A	Lab Control Sample	102	110
LCSD 880-74530/3-A	Lab Control Sample Dup	101	113
MB 880-74530/1-A	Method Blank	123	142 S1+

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

Client: Ensolum Project/Site: Cabo Wabo Federl 24B CTB

Job ID: 880-40019-1

SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-74189/5-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 74314

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 74189

		MB	МВ							
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		02/27/24 14:20	02/29/24 12:19	1
	Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		02/27/24 14:20	02/29/24 12:19	1
	Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		02/27/24 14:20	02/29/24 12:19	1
	m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		02/27/24 14:20	02/29/24 12:19	1
	o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		02/27/24 14:20	02/29/24 12:19	1
	Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		02/27/24 14:20	02/29/24 12:19	1
ı										

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	02/27/24 14:2	02/29/24 12:19	1
1,4-Difluorobenzene (Surr)	125		70 - 130	02/27/24 14:2	0 02/29/24 12:19	1

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 74384

MR MR

Analysis Batch: 74314

Lab Sample ID: MB 880-74384/5-A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		02/29/24 13:08	02/29/24 23:56	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		02/29/24 13:08	02/29/24 23:56	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		02/29/24 13:08	02/29/24 23:56	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		02/29/24 13:08	02/29/24 23:56	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		02/29/24 13:08	02/29/24 23:56	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		02/29/24 13:08	02/29/24 23:56	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130	02/29/24 13:08	02/29/24 23:56	1
1,4-Difluorobenzene (Surr)	137	S1+	70 - 130	02/29/24 13:08	02/29/24 23:56	1

Lab Sample ID: LCS 880-74384/1-A

Matrix: Solid

o-Xylene

Analysis Batch: 74314

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 74384

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.09449 mg/Kg 94 70 - 130 Toluene 0.100 0.09116 mg/Kg 91 70 - 130 Ethylbenzene 0.100 0.08691 mg/Kg 87 70 - 130 0.200 70 - 130 m-Xylene & p-Xylene 0.1846 mg/Kg 92 0.100 0.09168 70 - 130

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	100	70 - 130
1,4-Difluorobenzene (Surr)	101	70 - 130

Lab Sample ID: LCSD 880-74384/2-A

Matrix: Solid

Analysis Batch: 74314

Client Sample ID: Lab Control Sample Dup

92

mg/Kg

Prep Type: Total/NA

Prep Batch: 74384 DDD

	Spike	LCSD LCSD				70 KeC		KPD
Analyte	Added	Result Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09672	mg/Kg		97	70 - 130	2	35

LCCD LCCD

Cnika

Eurofins Midland

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QC Sample Results

Client: Ensolum Job ID: 880-40019-1 Project/Site: Cabo Wabo Federl 24B CTB SDG: Eddy County

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

Lab Sample ID: LCSD 880-74384/2-A **Matrix: Solid**

Analysis Batch: 74314

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 74384

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.08990		mg/Kg		90	70 - 130	1	35
Ethylbenzene	0.100	0.09149		mg/Kg		91	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.1997		mg/Kg		100	70 - 130	8	35
o-Xylene	0.100	0.09856		mg/Kg		99	70 - 130	7	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Lab Sample ID: MB 880-74530/1-A

Matrix: Solid

Analysis Batch: 74564

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 74530

MB MB Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Analyte C6-C12 Range Hydrocarbons 23.62 J 50.0 15.0 mg/Kg 03/03/24 00:37 03/04/24 09:03 <50.0 U 50.0 03/03/24 00:37 03/04/24 09:03 >C12-C28 Range Hydrocarbons 15.0 mg/Kg >C28-C35 Range Hydrocarbons <50.0 U 50.0 15.0 mg/Kg 03/03/24 00:37 03/04/24 09:03

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	123		70 - 130	03/03/24 00:37	03/04/24 09:03	1
o-Terphenyl (Surr)	142	S1+	70 - 130	03/03/24 00:37	03/04/24 09:03	1

Lab Sample ID: LCS 880-74530/2-A

Matrix: Solid

Analysis Batch: 74564

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 74530

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits C6-C12 Range Hydrocarbons 1000 1011 mg/Kg 101 75 - 125 1000 >C12-C28 Range Hydrocarbons 935.4 75 - 125 mg/Kg 94

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	102		70 - 130
o-Terphenyl (Surr)	### CS LCS ### CS ### CS	70 - 130	

Lab Sample ID: LCSD 880-74530/3-A

Matrix: Solid

Analysis Batch: 74564

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 74530

Spike LCSD LCSD RPD Result Qualifier babbA Limits RPD Limit Analyte Unit %Rec C6-C12 Range Hydrocarbons 1000 1037 mg/Kg 104 75 - 1253 25 >C12-C28 Range Hydrocarbons 1000 992.8 mg/Kg 99 75 - 125 25

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	101		70 - 130
o-Terphenyl (Surr)	113		70 - 130

Chloride

03/03/24 12:20

%Rec

QC Sample Results

Client: Ensolum Job ID: 880-40019-1 Project/Site: Cabo Wabo Federl 24B CTB SDG: Eddy County

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-74240/1-A Client Sample ID: Method Blank

Matrix: Solid Prep Type: Soluble Analysis Batch: 74484

MB MB Dil Fac Analyte Result Qualifier RL MDL Unit D Prepared Analyzed 5.00

Lab Sample ID: LCS 880-74240/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid Prep Type: Soluble

0.395 mg/Kg

Analysis Batch: 74484 Spike LCS LCS

<5.00 U

Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 254.9 mg/Kg 102 90 - 110

Lab Sample ID: LCSD 880-74240/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Soluble Analysis Batch: 74484

LCSD LCSD %Rec RPD Spike

Analyte Added Result Qualifier Unit Limits **RPD** Limit Chloride 250 252.5 101 90 - 110 20 mg/Kg

Client: Ensolum

Project/Site: Cabo Wabo Federl 24B CTB

Job ID: 880-40019-1 SDG: Eddy County

2

GC VOA

Prep Batch: 74189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-74189/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 74314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40019-1	SW01	Total/NA	Solid	8021B	74384
880-40019-2	SW02	Total/NA	Solid	8021B	74384
880-40019-3	SW03	Total/NA	Solid	8021B	74384
880-40019-4	SW04	Total/NA	Solid	8021B	74384
MB 880-74189/5-A	Method Blank	Total/NA	Solid	8021B	74189
MB 880-74384/5-A	Method Blank	Total/NA	Solid	8021B	74384
LCS 880-74384/1-A	Lab Control Sample	Total/NA	Solid	8021B	74384
LCSD 880-74384/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	74384

Prep Batch: 74384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40019-1	SW01	Total/NA	Solid	5035	
880-40019-2	SW02	Total/NA	Solid	5035	
880-40019-3	SW03	Total/NA	Solid	5035	
880-40019-4	SW04	Total/NA	Solid	5035	
MB 880-74384/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-74384/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-74384/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 74483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40019-1	SW01	Total/NA	Solid	Total BTEX	·
880-40019-2	SW02	Total/NA	Solid	Total BTEX	
880-40019-3	SW03	Total/NA	Solid	Total BTEX	
880-40019-4	SW04	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 74530

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40019-1	SW01	Total/NA	Solid	TX_1005_S_Pre	
				p	
880-40019-2	SW02	Total/NA	Solid	TX_1005_S_Pre	
				p	
880-40019-3	SW03	Total/NA	Solid	TX_1005_S_Pre	
				p	
880-40019-4	SW04	Total/NA	Solid	TX_1005_S_Pre	
				p	
MB 880-74530/1-A	Method Blank	Total/NA	Solid	TX_1005_S_Pre	
				p	
LCS 880-74530/2-A	Lab Control Sample	Total/NA	Solid	TX_1005_S_Pre	
				p	
LCSD 880-74530/3-A	Lab Control Sample Dup	Total/NA	Solid	TX_1005_S_Pre	
_				р	

Analysis Batch: 74564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40019-1	SW01	Total/NA	Solid	TX 1005	74530
880-40019-2	SW02	Total/NA	Solid	TX 1005	74530

Client: Ensolum
Project/Site: Cabo Wabo Federl 24B CTB
SDG

Job ID: 880-40019-1 SDG: Eddy County

GC Semi VOA (Continued)

Analysis Batch: 74564 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40019-3	SW03	Total/NA	Solid	TX 1005	74530
880-40019-4	SW04	Total/NA	Solid	TX 1005	74530
MB 880-74530/1-A	Method Blank	Total/NA	Solid	TX 1005	74530
LCS 880-74530/2-A	Lab Control Sample	Total/NA	Solid	TX 1005	74530
LCSD 880-74530/3-A	Lab Control Sample Dup	Total/NA	Solid	TX 1005	74530

Analysis Batch: 74799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40019-1	SW01	Total/NA	Solid	TX 1005	
880-40019-2	SW02	Total/NA	Solid	TX 1005	
880-40019-3	SW03	Total/NA	Solid	TX 1005	
880-40019-4	SW04	Total/NA	Solid	TX 1005	

HPLC/IC

Leach Batch: 74240

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40019-1	SW01	Soluble	Solid	DI Leach	
880-40019-2	SW02	Soluble	Solid	DI Leach	
880-40019-3	SW03	Soluble	Solid	DI Leach	
880-40019-4	SW04	Soluble	Solid	DI Leach	
MB 880-74240/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-74240/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-74240/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 74484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40019-1	SW01	Soluble	Solid	300.0	74240
880-40019-2	SW02	Soluble	Solid	300.0	74240
880-40019-3	SW03	Soluble	Solid	300.0	74240
880-40019-4	SW04	Soluble	Solid	300.0	74240
MB 880-74240/1-A	Method Blank	Soluble	Solid	300.0	74240
LCS 880-74240/2-A	Lab Control Sample	Soluble	Solid	300.0	74240
LCSD 880-74240/3-	A Lab Control Sample Dup	Soluble	Solid	300.0	74240

Project/Site: Cabo Wabo Federl 24B CTB

Client Sample ID: SW01

Client: Ensolum

Date Collected: 02/27/24 11:05 Date Received: 02/27/24 16:47

Lab Sample ID: 880-40019-1

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			74384	EL	EET MID	02/29/24 13:08
Total/NA	Analysis	8021B		1	74314	MNR	EET MID	03/01/24 06:42
Total/NA	Analysis	Total BTEX		1	74483	SM	EET MID	03/01/24 06:42
Total/NA	Prep	TX_1005_S_Prep			74530	TKC	EET MID	03/03/24 00:37
Total/NA	Analysis	TX 1005		1	74564	SM	EET MID	03/04/24 13:24
Total/NA	Analysis	TX 1005		1	74799	SM	EET MID	03/04/24 13:24
Soluble	Leach	DI Leach			74240	SMC	EET MID	02/28/24 10:03
Soluble	Analysis	300.0		1	74484	CH	EET MID	03/03/24 15:48

Lab Sample ID: 880-40019-2 **Client Sample ID: SW02**

Date Collected: 02/27/24 11:07 **Matrix: Solid**

Date Received: 02/27/24 16:47

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor **Number Analyst** Lab or Analyzed Prep 5035 02/29/24 13:08 Total/NA 74384 EL EET MID Total/NA 8021B 03/01/24 07:03 Analysis 1 74314 MNR EET MID Total/NA Total BTEX EET MID 03/01/24 07:03 Analysis 1 74483 SM Total/NA Prep TX_1005_S_Prep 74530 TKC **EET MID** 03/03/24 00:37 Total/NA Analysis TX 1005 1 74564 SM **EET MID** 03/04/24 13:45 Total/NA Analysis TX 1005 1 74799 SM **EET MID** 03/04/24 13:45 Soluble 02/28/24 10:03 DI Leach 74240 SMC **EET MID** Leach Soluble Analysis 300.0 1 74484 CH **EET MID** 03/03/24 16:18

Client Sample ID: SW03 Lab Sample ID: 880-40019-3 Date Collected: 02/27/24 11:09 **Matrix: Solid**

Date Received: 02/27/24 16:47

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			74384	EL	EET MID	02/29/24 13:08
Total/NA	Analysis	8021B		1	74314	MNR	EET MID	03/01/24 07:23
Total/NA	Analysis	Total BTEX		1	74483	SM	EET MID	03/01/24 07:23
Total/NA	Prep	TX_1005_S_Prep			74530	TKC	EET MID	03/03/24 00:37
Total/NA	Analysis	TX 1005		1	74564	SM	EET MID	03/04/24 14:07
Total/NA	Analysis	TX 1005		1	74799	SM	EET MID	03/04/24 14:07
Soluble	Leach	DI Leach			74240	SMC	EET MID	02/28/24 10:03
Soluble	Analysis	300.0		1	74484	CH	EET MID	03/03/24 16:28

Client Sample ID: SW04 Lab Sample ID: 880-40019-4 Date Collected: 02/27/24 11:11

Date Received: 02/27/24 16:47

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			74384	EL	EET MID	02/29/24 13:08
Total/NA	Analysis	8021B		1	74314	MNR	EET MID	03/01/24 07:44
Total/NA	Analysis	Total BTEX		1	74483	SM	EET MID	03/01/24 07:44

Eurofins Midland

Lab Chronicle

Client: Ensolum
Project/Site: Cabo Wabo Federl 24B CTB
SDG: Eddy County

Client Sample ID: SW04

Lab Sample ID: 880-40019-4

Matrix: Solid

Date Collected: 02/27/24 11:11 Date Received: 02/27/24 16:47

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	TX_1005_S_Prep			74530	TKC	EET MID	03/03/24 00:37
Total/NA	Analysis	TX 1005		1	74564	SM	EET MID	03/04/24 14:28
Total/NA	Analysis	TX 1005		1	74799	SM	EET MID	03/04/24 14:28
Soluble	Leach	DI Leach			74240	SMC	EET MID	02/28/24 10:03
Soluble	Analysis	300.0		1	74484	СН	EET MID	03/03/24 16:37

Laboratory References:

Released to Imaging: 5/29/2024 10:49:53 AM

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

Page 16 of 21 3/5/2024

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Accreditation/Certification Summary

Client: Ensolum
Project/Site: Cabo Wabo Federl 24B CTB

SDG: Eddy County

Laboratory: Eurofins Midland

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

Authority	Progra	am	Identification Number	Expiration Date
Texas	NELAI	Р	T104704400-23-26	06-30-24
The following analytes	are included in this report, but	it the laboratory is not certif	fied by the governing authority. This lis	t may include analyte
• •	are included in this report, bu oes not offer certification.	it the laboratory is not certif	fied by the governing authority. This lis	t may include analyte
for which the agency d	oes not offer certification.	•	, , ,	t may include analyte
• •	•	it the laboratory is not certii	fied by the governing authority. This lis Analyte	t may include analyt

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Method Summary

Client: Ensolum Job ID: 880-40019-1 Project/Site: Cabo Wabo Federl 24B CTB SDG: Eddy County

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
TX 1005	Texas - Total Petroleum Hydrocarbon (GC)	TCEQ	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID
TX 1005 S Pren	Extraction - Texas Total netroleum Hyrdocarbons	TCFO	FET 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

TCEQ = Texas Commission of Environmental Quality

Laboratory References:

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

Eurofins Midland

Sample Summary

Client: Ensolum

Project/Site: Cabo Wabo Federl 24B CTB

Job ID: 880-40019-1

SDG: Eddy County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-40019-1	SW01	Solid	02/27/24 11:05	02/27/24 16:47	0-0.5'
880-40019-2	SW02	Solid	02/27/24 11:07	02/27/24 16:47	0-0.5'
880-40019-3	SW03	Solid	02/27/24 11:09	02/27/24 16:47	0-0.5'
880-40019-4	SW04	Solid	02/27/24 11:11	02/27/24 16:47	0-0.5'

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Chain of Custody

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

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Phone: 48 2	482-657-	-884J	Email	horrean		COSCO	@ ensolum.com	2	Deliverables. EDD	ADaPT Other]
Project Name, Cabo	Cabo World Federal 248 CTB Turn Around	iral 248	CTB Tum	Around				ANALYSIS REQUEST	UEST	Presentative Codes	2
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Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and sub-contractors. 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

Revised Date: 08/25/2020 Rev. 2020.2	Re				
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Date/Time	Received by (Signature)	Relinquished by (Signature)	Date/Time	Received by: (Signature)	Relinduished by (Signature)

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-40019-1

SDG Number: Eddy County

List Source: Eurofins Midland

Login Number: 40019 List Number: 1

Creator: Wheeler, Jazmine

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

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APPENDIX C

Closure Request, dated June 29, 2023



June 29, 2023

New Mexico Oil Conservation Division

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

Re: Closure Request

Cabo Wabo Federal 24 B CTB Incident Number NAPP2301933240 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 24 B CTB (Site). The purpose of the Site assessment, excavation, and soil sampling activities was to address impacts to soil resulting from a produced water release at the Site. Based on excavation activities and laboratory analytical results from the soil sampling events, COG is submitting this *Closure Request*, describing remediation that has occurred and requesting closure for Incident Number NAPP2301933240.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit C, Section 24, Township 25 South, Range 29 East, in Eddy County, New Mexico (32.1222°, -103.9408°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On January 5, 2023, corrosion on a flowback tank resulted in the release of approximately 7.816 barrels (bbls) of produced water onto the surrounding well pad. A vacuum truck was dispatched to the Site to recover free-standing fluids; approximately 7 bbls of released produced 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 January 19, 2023. The release was assigned Incident Number NAPP2301933240.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the 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. Depth to groundwater data, presented in the *Closure Request* for Incident Number nRM2034558291 and approved by NMOCD on July 30, 2021, is utilized to confirm depth to water greater than 100 bgs. A soil boring (BH01) was drilled during April 2021 via air rotary drilling rig to a depth of 105 feet bgs. The soil boring was located approximately 0.47 miles west

Cabo Wabo Federal 24 B CTB Closure Request COG Operating, LLC



of the Site, the location of the soil boring is presented on Figure 1. No groundwater was encountered during drilling activities and the boring was properly abandoned. The associated well record is included in Appendix A.

The closest significant watercourse to the Site is an emergent wetland, located approximately 650 feet southwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

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

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

SITE ASSESSMENT ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On February 16, 2023, Ensolum personnel were at the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Eight assessment soil samples (SS01 through SS03 and SS08 through SS12) were collected within the release extent at a depth of approximately 0.2 feet bgs to assess for the presence or absence of impacted soil resulting from the release. Four assessment soil samples (SS04 through SS07) were collected outside the release extent in each cardinal direction at a depth of approximately 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 using Hach® chloride QuanTab® test strips. The 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 as Appendix B.

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

Laboratory analytical results for assessment sample SS01, collected at 0.2 feet bgs, indicated TPH and chloride concentrations exceeded the Site Closure Criteria. Laboratory analytical results for assessment samples SS02 through SS12, collected at 0.2 feet bgs, indicated all COC concentrations were compliant with the Site Closure Criteria. In addition, soil samples SS04 through SS07, collected around the release extent, were compliant with the most stringent Table I Closure Criteria and successfully defined the lateral extent of the release.

On May 15, 2023, Ensolum personnel returned to the Site to oversee additional delineation activities to further confirm the absence of impacted soil. Seven boreholes were advanced via hand-auger to a depth

Cabo Wabo Federal 24 B CTB Closure Request COG Operating, LLC



of 1-foot bgs within the release extent at the location of assessment samples SS02, SS03, and SS08 through SS12. One soil sample was collected from each borehole at a depth of 1-foot bgs (SS02A, SS03A, and SS08A through SS12A). Soil from the boreholes was field screened for VOCs and chloride. Field screening results and observations for the boreholes were documented on lithologic/soil sampling logs, which are included in Appendix C. The soil samples were collected, handled, and analyzed following the same procedures as described above. The delineation soil sample locations are depicted on Figure 2.

Laboratory analytical results for borehole delineation soil samples indicated all COC concentrations were compliant with the Site Closure Criteria. Based on visible staining and laboratory analytical results for assessment sample SS01, excavation activities were warranted.

EXCAVATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On May 15, 2023, in coordination with delineation activities, Ensolum personnel were onsite to oversee excavation activities based on visible staining and laboratory analytical results for assessment sample SS01. Excavation activities were performed using a backhoe and transport vehicles. To direct excavation activities, soil was screened for VOCs and chloride. The excavation was completed at a depth of 0.5 feet bgs. Photographic documentation of the excavation activities is included in Appendix B.

Following removal of impacted soil, 5-point composite soil samples were collected every 200 square feet from the floor of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Due to the shallow depth of the excavation, the sidewalls were incorporated into the floor samples. Composite soil samples FS01 through FS10 were collected from the floor of the excavation at a depth of 0.5 feet bgs. The soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 3.

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

The excavation measured approximately 1,950 square feet in areal extent. A total of approximately 40 cubic yards of impacted soil was excavated, transported, and properly disposed 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 impacted soil resulting from the January 5, 2023, produced water release. Laboratory analytical results for the delineation and excavation soil samples indicated all COC concentrations were compliant with the Site Closure Criteria. In addition, the release was laterally delineated to the most stringent Table I Closure Criteria by assessment soil samples SS04 through SS07.

Initial response activities and excavation of impacted soil have mitigated impacts at this site. Depth to groundwater has been estimated to be greater than 100 feet bgs and no other sensitive receptors were identified near the release extent. As such, COG respectfully requests closure for Incident Number NAPP2301933240. NMOCD Notifications are included in Appendix E and the Final C-141 is included in Appendix F.



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

Sincerely, **Ensolum**, **LLC**

Peter Van Patten Project Geologist Aimee Cole

Senior Managing Scientist

cc: Jacob Laird, COG Operating, LLC

Bureau of Land Management

Appendices:

Figure 1 Site Receptor Map Figure 2 Soil Sample Locations

Table 1 Soil Sample Analytical Results
Appendix A Referenced Well Records

Appendix B Photographic Log

Appendix C Lithologic Soil Sampling Logs

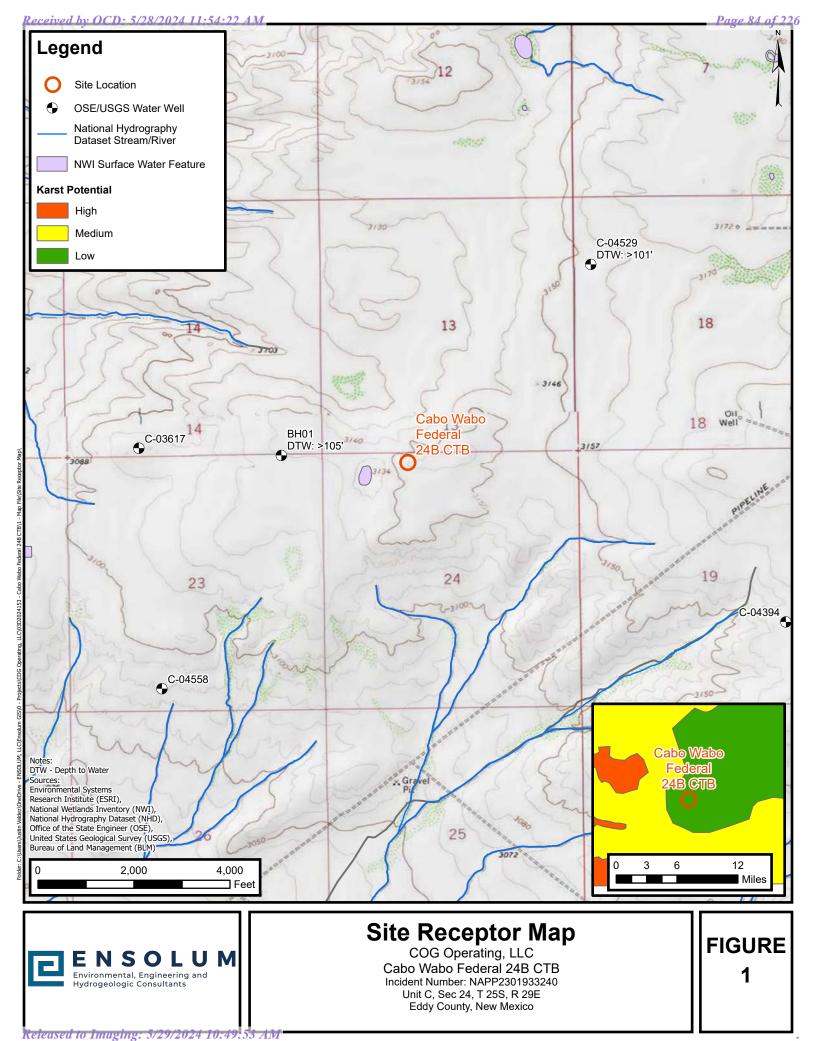
Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation

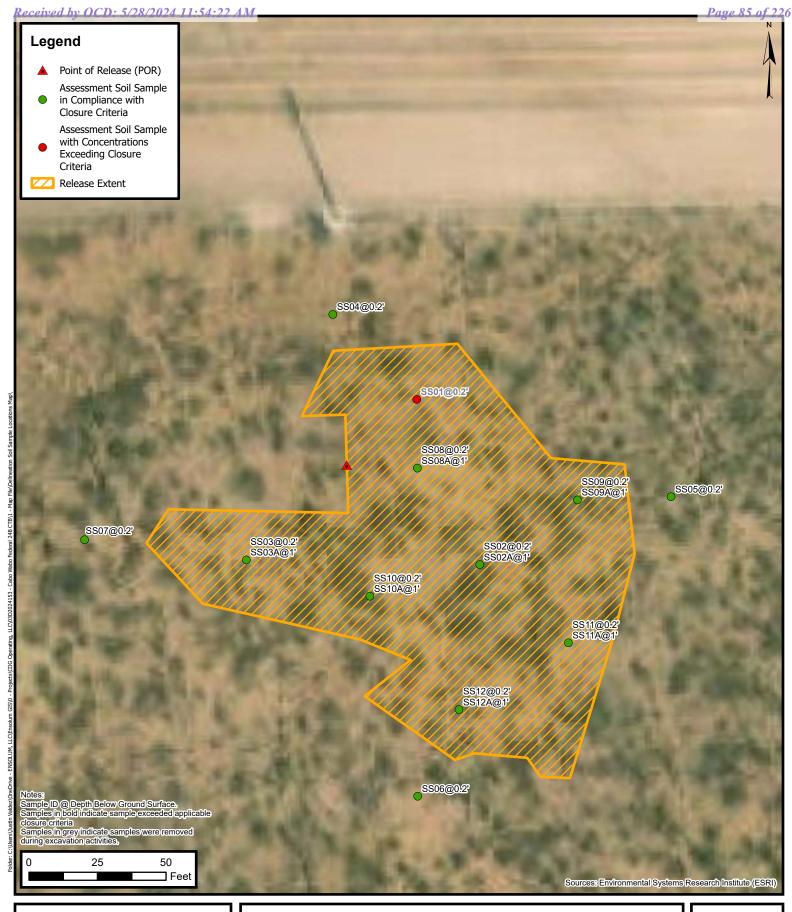
Appendix E NMOCD Notifications

Appendix F Final C-141



FIGURES







Assessment Soil Sample Locations

COG Operating, LLC
Cabo Wabo Federal 24B CTB
Incident Number: NAPP2301933240
Unit C, Sec 24, T 25S, R 29E
Eddy County, New Mexico

FIGURE 2





Excavation Soil Sample Locations

COG Operating, LLC
Cabo Wabo Federal 24B CTB
Incident Number: NAPP2301933240
Unit C, Sec 24, T 25S, R 29E
Eddy County, New Mexico

FIGURE 3



TABLES



				Cabo C	TABLE 1 LE ANALYTICA Wabo Federal 24 OG Operating, LI / County, New Mo	B CTB _C				
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I	Closure Criteria ((NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
				Asse	essment Soil San	nples				
SS01	02/16/2023	0.2	<0.00200	<0.00401	<50.0	3740	<50.0	3,740	3,740	7,030
SS02	02/16/2023	0.2	<0.00200	<0.00399	<49.9	487	<49.9	487	487	776
SS02A	05/15/2023	1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	1,050
SS03	02/16/2023	0.2	<0.00198	<0.00396	<49.9	78.3	<49.9	78.3	78.3	1,530
SS03A	05/15/2023	1	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	701
SS04	02/16/2023	0.2	<0.00199	<0.00398	<49.9	83.7	<49.9	83.7	83.7	395
SS05	02/16/2023	0.2	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	152
SS06	02/16/2023	0.2	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	92.4
SS07	02/16/2023	0.2	<0.00199	<0.00398	<49.9	11.6	<49.9	11.6	11.6	303
SS08	05/15/2023	0.2	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	892
SS08A	05/15/2023	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	420
SS09	05/15/2023	0.2	<0.00199	<0.00398	<50.0	78.3	<50.0	78.3	78.3	1,740
SS09A	05/15/2023	1	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	804
SS10	05/15/2023	0.2	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	635
SS10A	05/15/2023	1	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	809
SS11	05/15/2023	0.2	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	1,400
SS11A	05/15/2023	1	<0.00199	<0.00398	<49.9	54.6	<49.9	54.6	54.6	246
SS12	05/15/2023	0.2	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	2,260
SS12A	05/15/2023	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	732
Excavation Soil Samples										
FS01	05/15/2023	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	3,090
FS02	05/15/2023	0.5	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	849
FS03	05/15/2023	0.5	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	654
FS04	05/15/2023	0.5	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	2,040
FS05	05/15/2023	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	1740
FS06	05/15/2023	0.5	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	598
FS07	05/15/2023	0.5	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	1,430
FS08	05/15/2023	0.5	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	627
FS09	05/15/2023	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	2,620
FS10	05/15/2023	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	287

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

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

Grey text represents samples that have been excavated



APPENDIX A

Referenced Well Records



Soil Boring/Temporary Monitor Well BH-1

Company: COG Operating, LLC **Site:** Patron 23 Federal #004H

NMOCD Reference #: nRM2034558291

Location: Eddy Co., NM

PLSS: UL 'A' (NE/NE), Sec. 23, T25S, R29E

Well/Borehole ID: BH-1

Coordinates (NAD 83): 32.122593,-103.949262

Drilling Date: 2/24/2021 Depth of Boring (ft): 105 Depth to Groundwater (ft): >105

Plugging Date: 2/27/2021

Drilling Company: Scarborough Drilling, Inc.

Driller: L. Scarborough
Drilling Method: Air Rotary
Logged By: L. Scarborough
Drafted By: B. Arguijo
Draft Date: 4/9/2021

Completion: N/A Casing: N/A Screen: N/A

Comments: N/A

Comm	ents:	N/A					
Depth (ft)	Groundwater	Lithology	Material Description	Chloride Field Test	Lab	PID	Well Construction
		7777	\Caliche	<u> </u>	-	_	
_ 5			Topsoil				
10		$\sim\sim\sim$		_	-	-	
_ _ 15		0.0	Caliche	-	-	-	
=		20000		-	-	-	
20		0000					
_ _ 25		0			_	-	
=			Sand] -	-	-	
30				_	_	_	
_ 35		• • •					
_ _ 40				-	-	-	
F			Sand with w/ sandy shale streaks	1 -	-	-	
- 45							asing
_ _ 50				-	-	-	Č
F				-	-	-	ů ž
- 55				l _	_	_	된
60							Open Hole, No Casing
_ _ 65				-	-	-	
_ 03		· . · ·	Sand	† -	_	-	
- 70							
_ _ 75				-	-	-	
				-	-	-	
- 80		· . ·	Sandy shale	-			
_ _ 85		_:-:-	Sally Silale	-	-	-	
E				-	-	-	
90				_	_	_	
95							
100				-	-	-	
- 100				_	-	-	
105		- • - •	Notes:	1			
110			Lines between material types represent approximate boundaries. Actual transitions may be gradual.				
115							

Disclaimer This bore log is intended for environmental not geotechnical purposes.



Date:

Project:

Patron 23 Federal #004H

Project Number:

13625

Latitude:

32.122

Longitude:

-103.9486

Sample ID	PID/Odor	Chloride Conc.	GPS
NHe O-binches		2440	
NHel.	_	364	
EH @ 0"- D'inches		412	
EHel	257	148	
SHe D'-6" inches	سيود	948	
2 H «).	-	184	
WHe O'-b'inches		572	
WH = 1		148	
SP e O'-6'inches	गिर्मान् छ्य	V2440	
SPle I'	ned -	516	
SP2- 0-binches	Mild	> 2.440	
SP 2 = 1.		15'28-R	Ref. ! Hard to dia ROCK
SPJe (1"-5" inches	Mill	>2,440	
SP3e1'	.e_=a	3/6	
SP4 e G B B' b incres	Milel	>2440	
SP4 = 1'	-	364	
SP5 en 0"-6" incres	Mild	>2440	
Sf5e1)	572 - R	Hard digging toget 3'
	·		
	_		
			T
	_		
	_		
		-	
Sample Point = SP #1 @ ## etc		Test Trench = TT #1 @ ##	Resamples= SP #1 @ 5b or SW #1b
Floor = FL #1 etc		Refusal = SP #1 @ 4'-R	Stockpile = Stockpile #1
Sidewall = 5W #1 etc		Soil Intended to be Deferred = SP #1 @ 4' In-Situ	GPS Sample Points, Center of Comp Areas



PEAL	口合作	•
Proj	וענו	-

Patron 23 Federal #004H

Project Number: 13625

Latitude:

32.122

Longitude:

-103.9486

Sample ID -100 1' -200 2' -300 2' -300 1' -500 1'	PID/Odor	4:12 508	
720 2' 3 0 2' 432 (5 5 3)	1000	rno	
-3 <u>02'</u> -3 <u>02'</u> -5 <u>0</u> 2'		1 200 42	
50 '	MORE	7170	
560 1	VEN P	456	
17.	arec	612	
661	none	4,176	1
701	none	2472	
(80) V	none	2.296 3,988	
901	none	3.988	
1001	MORE	728 196	
7(9)	none	196	
12@1	none	368	
13@1'	none	4,905	
THE STATE OF THE S	none	1296	
150,11	none	1920	
NW	vove	.68	
V W I	BOM C	4,700	
IW2	8000	3,022	
IW3	none	2,2.70	
Ting look	non e	1740	
-6Bei'_	none	728	
71301	none	928	
9601	none	368	
9801	none	2340	
	1		
-			
	<u> </u>		
	-		
	- 		
Sample Point = SP #1 @ ## etc		Test Trench = TT #1 @ ##	Resamples = SP #1 @ 5b or SW #1b
Sample Point = SP #1 @ ## etc		Refusal = SP #1 @ 4'-R	Stockpile = Stockpile #1
		_	
Sidewall = SW #1 etc		Soil Intended to be Deferred = SP #1 @ 4' In-Situ	GPS Sample Points, Center of Comp Area

fo		
93		
Page	FCH	A
- 21	Environmental & Say	fery Solutions, in

Project: Patron	23 Fed 414			
Project Number:	13625	Latitude:	Longitude:	

Sample ID	PID/Odor	Chloride Conc.	GPS
FLIE!			
FL2@1'			
FL3@1'			
FLYPY			
FL5@1'			
FL6PI'			
FL701'			
FL8@I'			
FLARI			
FL 10 P/			
Wi Wi			
VWI			
NWZ			
NW3			
WWI			
		5992	
UW2 W 3		3712	
FL 11/21'		1740	
FL 12/21'		1628	
rh 12/21			
FL 1301'		1740	
11001		111111111111111111111111111111111111111	
LISAI"		7572	
7			
ww3		1740	
ોં ખા		3064	
M 5		3064	
W 3		2308	
L 16 @ 1'	-	1988	
1701		1740	
-L 18 @ 1'		1740	
21901		1860	
2 20 61	-	1988	
2 21 e1'		1860	
2 22 e i		1860	
£ 23 e1		2440	

Sample Point = SP #1 @ ## etc

Test Trench = TT #1 @ ##

Resamples= SP #1 @ 5b or SW #1b

Floor = FL #1 etc

Refusal = SP #1 @ 4'-R

Stockpile = Stockpile #1 **GPS Sample Points, Center of Comp Areas**

Sidewall = SW #1 etc

Soil Intended to be Deferred = SP #1 @ 4' In-Situ

Patron 23 Fed 4H

Der: 13625 Latitude:

Project Number:

Date:

Longitude:

	1'			
FL 25 e		•	2124	
	1 "	•	2124	
2 26 €	1:	,	2276	
2 27 €	1'	•	1988	
2 28 e	1'	-	1978	
€ 29 €	1		1988	
L 30 P	1.	1	1632	
FL 31 @	(1285	
2 32 €	1.	-	1632	
-L 33 e	1.	•	1860	
FL 34 e	1'	_	1988	
EL 35 e	1.	-	1988	
FL 36 @	1	-	1360	
FL 37 @	1		1983	
EL 38 €	1.	_	1860	
THE PARTY OF THE P	11	_	1740	
FL 39 €	1'		1740	
-L 40 @	6"	-	1637	
-L 42 0		_	1740	
EL 43 e	10	_	2124	<u> </u>
	6	1	2124	
9 45 6		-	2276	
1 46 C			7440	
2 47 0	/ **		2440	
L 48 e	6	-	77.76	
TL 49 8	6		2276	
2 50 e			2174	
FL 51 e			19 88	
7 52 e	6	-	19 88	
4.			2171	
			220	+
			416	
-04			24:10	
7 56 €	6.		2440	+
7 57 €	6		ZYUU	-
	4	•	1988	
	-6	1	1988	
	: = SP #1 @ ## etc		Test Trench = TT #1 @ ##	Resamples= SP #1 @ 5b or SW #1b
Sample Point Floor Sidewall	= FL #1 etc		Refusal = SP #1 @ 4'-R	Stockpile = Stockpile #1
Sidewall	= SW #1 etc		Soil Intended to be Deferred = SP #1 @ 4' In-Situ	GPS Sample Points, Center of Comp Area

Date:

3/8/21

Project Number:

Longitude:

Sample ID	PID/Odor	Chloride Conc.	GPS
FL 60 e 6"	-	1988	
FL 61 @ 6"	-	1860	
FL 62 e 6°		2124	
FL 63 e 6°		1860	
FL 64 e 6"	•	1740	
FL 65 e 6"	-	1860	
Fl- lobe e la		1740	
FL 67 8 6"		1632	
FL 67 e 6" FL 68 e 6"		1740	
el 69 e 6"		1740	
FL 70 e 6"		1740	
			4

Sample Point = SP #1 @ ## etc

Floor = FL #1etc

Sidewall = SW #1 etc

Received by OCD:

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

Soil Intended to be Deferred = SP #1 @ 4' In-Situ

Resamples= SP #1 @ 5b or 5W #1b

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

 Well Tag
 POD Number
 Q64 Q16 Q4 Sec
 Tws
 Rng
 X
 Y

 NA
 C 04529 POD1
 1 3 1 18 258 30E
 601077 3555733
 601077
 3555733

Driller License: 1249 **Driller Company:** ATKINS ENGINEERING ASSOC. INC.

Driller Name: ATKINS, JACKIE D.UELENER

Drill Start Date: 05/14/2021 **Drill Finish Date:** 05/14/2021 **Plug Date:** 06/08/2021

Log File Date: 06/10/2021 **PCW Rev Date: Source:**

Pump Type:Pipe Discharge Size:Estimated Yield:Casing Size:Depth Well:Depth Water:

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

2/10/23 11:06 AM

POINT OF DIVERSION SUMMARY



_													
ION	POD1 (MW-1)		well tag id no n/a).		OSE FILE NO(C-4529	S).				
OCAT	WELL OWNER NA XTO Energy (I	٠,,						PHONE (OPTI	ONAL)				
GENERAL AND WELL LOCATION	WELL OWNER M. 6401 Holiday I							CITY STATE ZIP Midland TX 79707					
LAND	WELL LOCATION	LAT		egrees 32°	NDS)7" N	ACCURACY	REQUIRED: ONE TEN	TH OF A	SECOND				
ERA	(FROM GPS)	LATITUDE LONGITUDE 103° 55' 42.27" W * DATUM REQUIRED: WGS 84											
1. GE													
	LICENSE NO.		NAME OF LICENSED	DRILLER					NAME OF WELL DR	LLING	COMPANY		
	1249			1	Jackie D. Atkin	S			Atkins Eng	ineerin	g Associates, I	nc.	
	05/14/202		DRILLING ENDED 05/14/2021		MPLETED WELL (I			LE DEPTH (FT) 101	DEPTH WATER FIRE	ST ENC			
,	COMPLETED WE	LL IS:	ARTESIAN	DRY HOL	LE SHALL	OW (UNC	ONFINED)		STATIC WATER LEV	EL IN C		LL (FT)	
OIL	DRILLING FLUID	:	✓ AIR	☐ MUD	ADDITI	VES – SPE	CIFY:		L.,				
RMA	DRILLING METH	OD:	ROTARY	П наммен	CABLE	TOOL	OTHE	R – SPECIFY:	Hollo	w Ste	m Auger		
FO.	DEPTH (feet	bgl)	BORE HOLE	CASING	MATERIAL AN	D/OR			CASING	T	SING WALL	T	
DRILLING & CASING INFORMATION	FROM	то	DIAM (inches)		GRADE each casing string sections of screen		CON	ASING NECTION TYPE			HICKNESS (inches)	SLOT SIZE (inches)	
\\S	0	101	±6.5		Boring- HSA	,	(add coup	ling diameter) (Helics)			-		
NG.													
3													
] M													
7.													
										<u> </u>			
												<u> </u>	
	<u> </u>			-								₩	
	<u> </u>						<u></u>		1	<u> </u>			
	DEPTH (feet	bgl)	BORE HOLE	LI	ST ANNULAR S	EAL MA	TERIAL A	AND	AMOUNT		METHO	D OF	
1 ₹	FROM	то	DIAM. (inches)	GRA	VEL PACK SIZE	E-RANG	E BY INTE	RVAL	(cubic feet)		PLACEN	MENT	
FERIAL													
₩¥.													
8													
ANNULAR MAT													
3													
3.													
	OSE INTERNAL	USE	10 - 0						0 WELL RECORD			0/17)	
	ENO.	(1529		POD N		l,	TRN	4	13	_		
LOC	CATION P	1 1	7) 4	っち ス/	OF KI	スー	- 1	WELL TAG I	D NO	-	PAGE	1 OF 2	

0SE DT JUN 10 2021 ×2:48

	DEPTH (feet hal)									ESTIMATED		
	DEI III (THICKNESS		D TYPE OF MATERIAL				WAT		YIELD FOR		
	FROM	то	(feet)		R-BEARING CAVITIES plemental sheets to fully			S	BEAR (YES		WATER- BEARING ZONES (gpm)		
	0	4	4	SAND, poorly graded	SAND, poorly graded, fine-very grained, caliche gravel, Reddish-brown, dry Y V								
	4	29	25	CALICHE, poorly cor	solidated, with sand med	ium gra	ned, tan-off whit	e, dry	Y	√N			
	29	39	10	SAND, poorly graded,	fine-very grained, some	caliche	gravel, Tan-brow	n, dry	Y	√N			
	39	54	15	SILTY SAND, p	oorly graded, very- fine g	rained,	Light brown, dry		Y	√N			
	54	59	5	SILTY SAND, poorly	graded, very- fine grained	, caliche	gravel Light bro	wn, dr	Y	√N			
ړ ا	59	73	14	SANDY CLAY, very-	fine grained sand, low pla	sticity, I	Brown- Red Brov	m, moi	Y	√N			
HYDROGEOLOGIC LOG OF WELL	73	79	6	CLAYEY SAND, low	plasticity, very-fine grain	ed sand	, Brown/Red Bro	wn, mo	Y	√N			
OF.	79	83	4	SANDY CLAY, very-	fine grained sand, low plan	sticity, I	Brown- Dark Bro	wn, mo	Y	√N			
90	83	94	9		fine grained sand, low pla				Y	√ N			
CL	94	99	5		fine grained sand, low plan				Y	√N			
Ö	99	101	2		ry-fine grained sand, low				Y	√ N			
EOL			<u> </u>		., 1mo gramou ouzu, 10	P1	,, <u></u>		Y	N			
500									Y	N			
χĐ									Y	N			
4. H									Y	N			
									Y	N			
									Y	N			
									Y	N			
									Y				
										N			
									Y	N			
	ACTION	GED TO EG	TD (ATT MELL	OF WATER REARING	C CTD ATA			тот	Y	N			
	_			OF WATER-BEARING				ı	AL ESTIN LL YIELD		0.00		
	PUM	P []A	IR LIFT	BAILER OT	HER - SPECIFY:					(OI)	0.00		
NOI	WELL TES				A COLLECTED DURING OWING DISCHARGE								
VIS	MISCELLA	NEOUS INF	ORMATION: T	emnorary well materia	als removed and the so	il borin	n hackfilled usi	no dril	1 cuttings	from tot	tal denth to ten		
RIG SUPERVISION			16	et below ground surta	ice, men nyaratea benta	onite ch	ips from ten fe	et belo	w ground	surface	to surface.		
S			L	ogs adapted from WS	P on-site geologist.								
Ä													
TEST	PRINT NAN	(E(S) OF DE	RILL RIG SUPER	RVISOR(S) THAT PRO	VIDED ONSITE SUPER	VISION	OF WELL CON	ISTRU	CTION O	THER TH	IAN LICENSEE:		
S. T			lo Trevino, Car										
	Jimile Didil		IIIII, Cal										
RE	CORRECT	RECORD OF	F THE ABOVE I	DESCRIBED HOLE AN	EST OF HIS OR HER K ID THAT HE OR SHE W PLETION OF WELL DR	TLL FI	LE THIS WELL						
ATC			LDEK WITHIN	OU DATS AFTER COM	PLETION OF WELL DR	ILLING							
6. SIGNATURE	Jack Atkins Jackie D. Atkins 06/09/2021												
\$	<u> </u>	SIGNAT	URE OF DRILLE	ER / PRINT SIGNEE	NAME		_			DATE			
		2.31111	- Diable										
FOI	R OSE INTER	NAL USE	1222				WR-20 WE	LL RE	CORD &	LOG (Ve	rsjon 06/30/2017)		
\vdash	E NO.	<u> </u>	1925		POD NO.		TRN NO.	_6	1920	135	<i>†</i>		
LO	CATION				•	WE	LL TAG ID NO				PAGE 2 OF 2		

0SE DIT JUN 10 2021 PM2:45

Alena	mental, Inc.	0	Ca	508 We rlsbad, i	ironment st Stevens New Mexi Engineering	s Street co 8822		Identifier: MWOI C 43 Project Name:	94	Date: 2/4/2020 RP Number: 2RP - 3790	2	
		LITHO	LOGIC	/SOI	L SAMP	LING L	0G		Logged By: FS		Method: SONIC	
Lat/Long	ACCORDANGE SOUTH THE PROPERTY OF A SECURITY											
Commen	ts: No	sam	Plin	a. l.	tholo	207.0	emar	Ks on			(17000 15	
Moisture Content	Chloride (ppm)		50	Sample #		Sample	×		/	ogy/Rema	arks	
٥			2		1 <u>1</u> 2 <u>-</u> 3 <u>-</u> 4 <u>-</u>		SW-S	2.5	light br	Try, I	well graded le graind, tan, no sta	in
Д			7		5 -6 -	-	SP	5	reddish non coho SAND, a graded,	brwesiv		,
D			7	17	8 _ 9 _				graded, l brwn, t	nné -	very tine	9-
D			2		10 _	-	SW-S		light bri	wn - {	>10-11' col	or c b
					12		sP	12'	abundan (mod cons	el H s:	absent to s gravel 13	n- off
D			7		15 _	-	210		sands-	t - s	Lightian	orpon
D			N		17		sw-s	23'	brwn-ta consolic sandstor absent	lated le c	hunks	
4			7 _		19 _		8					
D			7		21 22		ī					
D			7		23 24 25							

0, 0	CD. 3/1	07202	# 1#.0	4:22 A	171					Page 40
plan	nmental, Inc.		Ca	508 Wes arlsbad, l	ironment st Steven New Mexi Engineerin	s Street ico 88220	9	Identifier: MWOI C 4394 Project Name: PLU 423	Date: 2/4/2020 RP Number: 2RP-2674- 7 RP - 3790	
		LITH	LOGIC	C / SOI	L SAMP				Logged By: FS	Method: SONIC
Lat/Long	g:				Field Scree	ening : CHL	ORIDES, I	PID.—	Hole Diameter: 44/6	Total Depth:
Commer	nts:								, ,	/
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type		Lithology/	Remarks
D		902	7		26] 27 _ 28 _ 29 _		SP		tan, poor fine-very	nt brown av
D			7	2	30 -			31'	caliche absent	pebbles (gravel),
D			7		32				5' color	
M M	<i>W</i>	,	2 2	1	35		SW- S	36	abun Ks	dant ss s, mod consol ks absent pockets,
M	- 1	*	N	,	38 39 40 41				lamination caliche,	dolomite?
M			7		42 43 43		×		trace, rede	dish brwn
m			N		44	2	88	, -	500SILTY Sand	ge, light brun
D	al al		N	ν ^{((), 1} , ε	47 48			48.5'	hown	isticity, non race high plas es, reddish
5			7		49 † 50			49,5	(35-40)	w band.

#1	9			T Envir	onmenta	l Inc	*	Identifier: Date:
	mental, Inc.		5	08 West	Stevens ew Mexic	Street	0	MW01 C 4394 2/4/2020 Project Name: RP Number:
2	Compliance · Engineering · Remediation							PLU 423 ZRP-3790
Y -4/1		LITHO	LOGIC	Security Control	SAMPL Field Screen			Logged By: FS Method: SONIC Hole Diameter: 1/1/1 Total Depth: 1101
Lat/Long					icia borecii	mg. Crib		Hole Diameter: 4 /6 Total Depth: 110'
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining			Sample Depth	Soil/Rock Type	Lithology/Remarks
D	0		N	S	51 1		s P	51.5' trace, high plas clay nodules
D			7		53 +		27 41-3	53-54' some silty ss, poorty consolidated, poorty 55.5' color change fan-
M			N		55	-		grey band (30mm)
M			N		57 58 59	*		brun-brun, moist, no plas, non cohesive no stain
W		7	N	,	60	,	sm	102' more consolidated
D		1	И		61 62 63 64		sm-s	64' dark brwn color change, silty clay nodules up pockets of silty
m			N	- 1	65 66			some, few low plas
m			2		68			71' SILTY sand, dry,
n			7		69 70 71	. 8		no plas, non cohesive, light brun-tan 141 trace caliche pebbles
5			И		72 + 73 + 73		SM	light grey - grey
>		1	7		74	Χ.		r ^k

p.	amental, Inc.		508 W Carlsbad	vironmen est Steven New Mex Engineerin	s Street ico 8822			Identifier: MW0 Project Name: PLU 423	_	Date: 2/4/2026 RP Number: 2RP - 3796		
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: F5, 88 Method: Sonic				
Lat/Long	Lat/Long: Field Screening-CHLORIDES, PII							Hole Diameter:	14"	Total Depth:		
Commen	ts:											
Moisture Content	. Chloride (ppm)	Vapor (ppm) Staining	Sample #	Depth (ft. bgs.) Depth Sample (ft. bgs.)				Lithology/Remarks				
D		N		# <u> </u>	76 77	SM		nodule	s red	as clay- dish brwn		
D		N	77		78 79		82	plas	intsh ticity	t, brwn- grey, low , cohesive,		
D		N	5	•	80	, u	85 ¹	no Mi SILT	stain! d conso Y sar	no odor olidatical od, dry,		
m		N		•	82 83 84	CL-S		no p	as, n	n - brun, on cohosiva, no odor		
D	1	/ N		•	25	sm	87	color	hite	nge tan- brwn		
D	4.	N			88	m·s		(/dry, ets, to w		
D !	1	N			90		91'	ı		my pockets		
Ď		N		•	9Z 93			5' bane plas	lyell	ow low		
		И		•	94	sm H	2/5/2		/	nd@95, 2/4	12	
n		~			76	9	5'-101 0	LAY, maist	brown -	derk brown,		
				a †	97		nigh p	les tilety. co	beste C-	-1 -1 -1	10	
n		N N		★ †	78	- 1		1 7 10	tein a			
1		N		- 11	100	1	5+	ten fine gr	The state of the s	-) TWIL		

Page	LT Environmental, Inc. 508 West Stevens Street Carlsbad, New Mexico 88220 Compliance · Engineering · Remediation							Identifier: MWO Project Name:	C 4394	Date: 2/5/2020 RP Number: 2RP - 3790		
	52.5 (2	T IMITO	15-10-174	TEA-CHOIGE	THE PROPERTY OF STREET	, , ,						
Lat/Long		LITHO	LOGIC	SOI	L SAMPLING I Field Screening: CH	Logged By: (6)	7	Method: Sonic Total Depth:				
LauLong	5)				ricid screening. Cir	Hole Diameter:	/4"	Total Depth.				
Commen	comments:											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth Sampl (ft. bgs.)	Soil/I		Lit	hology/Ren	narks		
NO.			200		101	SP-S	101'-	105' 54	MSTONE	E, ten-light boun,		
0			N		102	X>						
			. 1		103	1	1	4, moderate	ly consist	idated, culcureous		
D			μ		103 +			menter, poo	orly gran	led, no strik,		
,					104		1	so oder,				
٥			٦		105		105'-	110' CVA	Y moss	t duk bown -		
			,		1 1	CH	br	own, high o	listrutu	t, duk brown - , cohesine, true		
M			M		106		t.	send lam	no time	, no Stain, no		
0			N		107		60	lor		, no stain, no		
"			,,		108		-0.0			S ₂		
0			~		108		W7 -	109' tan.	-1:5H b	own well		
"					109		1	ansolidated	fine so	im sends the		
m			N		110		1	stringer,	954	1.9		
100			25		1 I	TOAID						
					111			/				
					112		7	D & 110		1		
					112							
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					114							
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					116 ∓							
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] III							
					118	-						
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			- 1		120							
					T							
					121							
					122							
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					I							
					124							
					125							
							-					



APPENDIX B

Photographic Log



Photographic Log
Cog Operating, LLC
Cabo Wabo Federal 24 B CTB
NAPP230193240





Photograph 1 Date: 1/5/2023 Photograph 2 Date: 5/15/2023

View: Northwest View: South





Photograph 3 Date: 5/15/2023 Photograph 4 Date: 5/15/2023

Description: Excavation Activities Description: Completed Excavation

View: West View: South



APPENDIX C

Lithologic Soil Sampling Logs

								T	1	
								Sample Name: SS02	Date: 5/15/2023	
		F	M	S	OL		M	Site Name: Cabo Wabo Federal C		
			<u> </u>	. /		Job Number: 03D2024153				
					SAMPLING	Logged By: Peter Van Patten	Method: Hand Auger			
		2.12247,-				Hole Diameter:	Total Depth: 1.0 foot			
								PID for chloride and vapor, respect factor included.	tively. Chloride test	
Moisture Content							Lithologic Descriptions			
Dry	1181	3.9	Ν	SS02	0.2	0	СННЕ	Caliche: off white, light tan	/pinkish	
Dry	918	018 0.2 N SS02A 1 1 CHHE				1	СННЕ	SAA (same as above), trace sand/gravel TD 1' bgs		
					-	- - 2				
					-	- - 3				
					- - -	- - - 4				
					-	- - - 5				
					- - -	<u>-</u> - 6 -				
					-	- - 7				
					- - -	<u>-</u> - 8				
					- - -	- - 9				
						 10 				
					- - - -	_ _ 11 -				
					-	- 12				

								Sample Name: SS03	Date: 5/15/2023	
	7							Site Name: Cabo Wabo Federal Co		
			N	5	OL	_ U	M	Incident Number: NAPP23019332		
						Job Number: 03D2024153				
		LITHOL	OGI	c / soll s	SAMPLING	Logged By: Peter Van Patten Method: Hand Auger				
Coordi		2.12248,-				Hole Diameter:	Total Depth: 1.0 foot			
					ith HACH Ch	PID for chloride and vapor, respec	•			
			-				•	n factor included.	,	
Moisture Content	S (10.88)						Lithologic Descriptions			
Dry	1960	4.5	N	SS03	0.2	<u> </u>	СННЕ	Caliche: off white, light tan/pinkish		
Dry	918	B 0.1 N SS03A 1 T 1 CHHE				1	СННЕ	SAA (same as above), trace sand/gravel TD 1' bgs		
					- -	- _ 2				
					- - -	- - _ 3				
					- -	- -				
					-	- 4 -				
					- -	5				
					-	- - 6				
						- - - 7				
					- - -	- _ 8 -				
					<u>-</u> - -	- - 9 -				
						- _ 10				
						11				
					-	- 12				

								Sample Name: SS08	Date: 5/15/2023
	7							Site Name: Cabo Wabo Federal Co	
			N	5	OL	_ U	V	Incident Number: NAPP23019332	
								Job Number: 03D2024153	
		LITHOI	OGI	c / sou s	SAMPLING	LOG		Logged By: Peter Van Patten	Method: Hand Auger
Coord		2.122574			, Liive			Hole Diameter:	Total Depth: 1.0 foot
					ith HACH Ch	loride Test S	Strips and	PID for chloride and vapor, respec	· ·
			_			n factor included.	,		
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic De	scriptions
Dry	840	0.1	N	SS08	0.2	<u> </u>	CHHE	Caliche: off white, light tan,	/pinkish
Dry	520	0.1	N	SS08A	1 _	1	СННЕ	SAA (same as above), trace TD 1' bgs	sand/gravel
					- -	2			
					- -	3			
					- - -	- - - 4			
					-	- - - 5			
						6			
					- - -	- - 7			
					_ - -	- _ 8 -			
					 - - -	- - - 9 -			
						10			
					- - -	- 11			
					-	- 12			

								Sample Name: SS09	Date: 5/15/2023
								Site Name: Cabo Wabo Federal Co	
			N	5	OL	_ U	M	Incident Number: NAPP23019332	
								Job Number: 03D2024153	
		LITHOL	OGI	c / soll s	SAMPLING	ilog		Logged By: Peter Van Patten	Method: Hand Auger
Coordi		2.122541			, <u>-</u>			Hole Diameter:	Total Depth: 1.0 foot
					ith HACH Ch	loride Test S	Strips and	PID for chloride and vapor, respec	· ·
II			_			n factor included.	,		
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic De	scriptions
Dry	918	0.2	N	SS09	0.2	L 0	СННЕ	Caliche: off white, light tan,	/pinkish
Dry	638	0.1	N	SS09A	1 _	1	СННЕ	SAA (same as above), trace TD 1' bgs	sand/gravel
					- -	_ 2			
					- - -	- - - 3			
					- -	- - -			
					- -	- 4 - -			
					- -	5 -			
					-	6			
					- - -	- - 7			
					- - -	- _ 8 -			
					- - -	- - 9 -			
					- - - -	10			
					- - - -	11			
						- 12			

								Sample Name: SS10	Date: 5/15/2023
	7							Site Name: Cabo Wabo Federal C	
			N	3	OL	. U	V	Incident Number: NAPP23019332	
								Job Number: 03D2024153	- · -
		LITHOL	OGI	C / SOIL S	SAMPLING	LOG		Logged By: Peter Van Patten	Method: Hand Auger
Coordi		2.122446			AIVII LIIVO	100		Hole Diameter:	Total Depth: 1.0 foot
					ith HACH Ch	loride Test S	Strips and	PID for chloride and vapor, respec	
								n factor included.	,
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic De	escriptions
Dry	700	0.1	N	SS10	0.2 <u> </u>	<u> </u>	СННЕ	Caliche: off white, light tan	/pinkish
Dry	840	0.2	N	SS10A	1 _	1	СННЕ	SAA (same as above), trace TD 1' bgs	e sand/gravel
					-	_ 2			
					-	- -			
					-	3 			
					-	4			
					- -	- - _ 5			
					-	- - - 6			
					-	- - -			
					_	7			
					- - -	8			
					-	- - 9			
					-	10			
					-	- - _ 11			
					- - -	- - - 12			

		_						Sample Name: SS11	Date: 5/15/2023
		F	N	S	OL	_ []	M	Site Name: Cabo Wabo Federal C	
								Incident Number: NAPP23019332	240
			.	. /				Job Number: 03D2024153	1
					SAMPLING	LOG		Logged By: Peter Van Patten	Method: Hand Auger
		2.122398				=		Hole Diameter:	Total Depth: 1.0 foot
			_					PID for chloride and vapor, respect factor included.	ctively. Chloride test
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic De	escriptions
Dry	1170	0.2	Ν	SS11	0.2	0	СННЕ	Caliche: off white, light tan	/pinkish
Dry	252	0.2	N	SS11A	1	1	СННЕ	SAA (same as above), trace TD 1' bgs	e sand/gravel
					- -	2			
					- - -	- - - 3			
					- - -	- - - 4			
					- - -	- - - 5			
					-	- - _ 6			
					-	7			
					-	8			
						9			
						10			
						- - 11			
					-	- 12			

									1
								Sample Name: SS12	Date: 5/15/2023
		F	N	S	OL	_ []	M	Site Name: Cabo Wabo Federal C	
								Incident Number: NAPP23019332	240
								Job Number: 03D2024153	1
					SAMPLING	LOG		Logged By: Peter Van Patten	Method: Hand Auger
		2.122332,						Hole Diameter:	Total Depth: 1.0 foot
			_					PID for chloride and vapor, respect factor included.	tively. Chloride test
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic De	escriptions
Dry	2374	0.1	Ν	SS12	0.2	0	СННЕ	Caliche: off white, light tan	/pinkish
Dry	520	0.2	N	SS12A	1	1	СННЕ	SAA (same as above), trace TD 1' bgs	sand/gravel
					- -	2			
					- -	- - - 3			
					- - -	- - - 4			
					- - -	- - - 5			
					- - -	- - - _ 6			
					- -	- - - 7			
					- - -	- - - 8			
					- -	- -			
					- - -	9			
					- -	10			
					- - -	11			
					-	12			



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 2/27/2023 4:28:20 PM

JOB DESCRIPTION

Cabo Wabo 704-706 Frac Tank SDG NUMBER 03D2024153

JOB NUMBER

890-4136-1

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 2/27/2023 4:28:20 PM

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

Page 2 of 31

Client: Ensolum Project/Site: Cabo Wabo 704-706 Frac Tank Laboratory Job ID: 890-4136-1 SDG: 03D2024153

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QC Sample Results	13
QC Association Summary	20
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Method Summary	27
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Definitions/Glossary

Job ID: 890-4136-1 Client: Ensolum Project/Site: Cabo Wabo 704-706 Frac Tank

SDG: 03D2024153

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

*1 LCS/LCSD RPD exceeds control limits.

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

HPLC/IC

Qualifier **Qualifier Description**

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

DFR Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

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

Decision Level Concentration (Radiochemistry) DLC

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

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

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Project/Site: Cabo Wabo 704-706 Frac Tank

Job ID: 890-4136-1

SDG: 03D2024153

Job ID: 890-4136-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4136-1

Receipt

The samples were received on 2/17/2023 3:27 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.2°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS01 (890-4136-1), SS02 (890-4136-2), SS03 (890-4136-3), SS04 (890-4136-4), SS05 (890-4136-5), SS06 (890-4136-6) and SS07 (890-4136-7).

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-47003 and analytical batch 880-46994 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28).

Method 8015MOD NM: The surrogate recovery for the blank associated with preparation batch 880-47205 and analytical batch 880-47221 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.

HPLC/IC

Method 300 ORGFM 28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-46849 and analytical batch 880-46986 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client: Ensolum

Job ID: 890-4136-1

Project/Site: Cabo Webs 704 706 Free Topk

SDC: 03D2034153

Project/Site: Cabo Wabo 704-706 Frac Tank
SDG: 03D2024153

Client Sample ID: SS01

Date Collected: 02/16/23 12:50

Matrix: Solid

Date Received: 02/17/23 15:27

Sample Depth: 0.2'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/24/23 11:42	02/25/23 06:39	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/24/23 11:42	02/25/23 06:39	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/24/23 11:42	02/25/23 06:39	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		02/24/23 11:42	02/25/23 06:39	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/24/23 11:42	02/25/23 06:39	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		02/24/23 11:42	02/25/23 06:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			02/24/23 11:42	02/25/23 06:39	1
1,4-Difluorobenzene (Surr)	87		70 - 130			02/24/23 11:42	02/25/23 06:39	1
Method: TAL SOP Total BTEX - 1	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			02/27/23 16:41	1
Analyte		Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Total TPH	3740		50.0	mg/Kg			02/24/23 13:21	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	
Gasoline Range Organics	<50.0	U *1	50.0					Dil Fac
(GRO)-C6-C10			00.0	mg/Kg		02/23/23 09:12	02/23/23 18:18	
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	3740	*1	50.0	mg/Kg		02/23/23 09:12	02/23/23 18:18	1
Diesel Range Organics (Over		-						1
Diesel Range Organics (Over C10-C28)	3740	U	50.0	mg/Kg		02/23/23 09:12	02/23/23 18:18	1
Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)	3740 <50.0	U	50.0 50.0	mg/Kg		02/23/23 09:12 02/23/23 09:12	02/23/23 18:18 02/23/23 18:18	1 1 1 Dil Fac
Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	3740 <50.0 %Recovery	U	50.0 50.0 <i>Limits</i>	mg/Kg		02/23/23 09:12 02/23/23 09:12 Prepared	02/23/23 18:18 02/23/23 18:18 Analyzed	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	3740 <50.0 **Recovery 90 99	U Qualifier	50.0 50.0 Limits 70 - 130 70 - 130	mg/Kg		02/23/23 09:12 02/23/23 09:12 Prepared 02/23/23 09:12	02/23/23 18:18 02/23/23 18:18 Analyzed 02/23/23 18:18	Dil Fac
Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	3740 <50.0 **Recovery 90 99 Chromatograp	U Qualifier	50.0 50.0 Limits 70 - 130 70 - 130	mg/Kg	<u>D</u>	02/23/23 09:12 02/23/23 09:12 Prepared 02/23/23 09:12	02/23/23 18:18 02/23/23 18:18 Analyzed 02/23/23 18:18	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Client Sample ID: SS02

Date Collected: 02/16/23 12:55

Lab Sample ID: 890-4136-2

Matrix: Solid

Date Collected: 02/16/23 12:55 Date Received: 02/17/23 15:27

Sample Depth: 0.2'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/24/23 11:42	02/25/23 07:00	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/24/23 11:42	02/25/23 07:00	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/24/23 11:42	02/25/23 07:00	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		02/24/23 11:42	02/25/23 07:00	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/24/23 11:42	02/25/23 07:00	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		02/24/23 11:42	02/25/23 07:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			02/24/23 11:42	02/25/23 07:00	

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E

7

10

12

Sample Depth: 0.2'

Job ID: 890-4136-1

Client: Ensolum Project/Site: Cabo Wabo 704-706 Frac Tank SDG: 03D2024153

Client Sample ID: SS02 Lab Sample ID: 890-4136-2

Date Collected: 02/16/23 12:55 Matrix: Solid Date Received: 02/17/23 15:27

Method: SW846 8021B -	Volatile Organic Compounds	(GC) (Continued)
MICHIOU. SYVONO OUZ ID	Voiatile Organic Compounds	(GC) (Continueu)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	114		70 - 130	02/24/23 11:42	02/25/23 07:00	1

Method: TAL SOP Total BTE	/ Total DTEV Calculation	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			02/27/23 16:41	1

Method: SW846 8015 NM - Diesel Range	Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
l	Total TPH	487		49.9	mg/Kg			02/24/23 13:21	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U *1	49.9	mg/Kg		02/23/23 09:12	02/23/23 18:40	1
(GRO)-C6-C10								
Diesel Range Organics (Over	487	*1	49.9	mg/Kg		02/23/23 09:12	02/23/23 18:40	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/23/23 09:12	02/23/23 18:40	1
Surrogato	%Pacayany	Qualifier	l imite			Prepared	Analyzod	Dil Eac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130	02/23/23 09:12	02/23/23 18:40	1
o-Terphenyl	92		70 - 130	02/23/23 09:12	02/23/23 18:40	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	776	25.0	mg/Kg			02/23/23 06:09	5

Client Sample ID: SS03 Lab Sample ID: 890-4136-3

Date Collected: 02/16/23 13:00 Date Received: 02/17/23 15:27

Sample Depth: 0.2'

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

Method. 344040 0021D - Volati	ne Organic Comp	ounus (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		02/24/23 11:42	02/25/23 07:20	1
Toluene	<0.00198	U	0.00198	mg/Kg		02/24/23 11:42	02/25/23 07:20	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		02/24/23 11:42	02/25/23 07:20	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		02/24/23 11:42	02/25/23 07:20	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		02/24/23 11:42	02/25/23 07:20	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		02/24/23 11:42	02/25/23 07:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorohenzene (Surr)	113		70 130			02/24/23 11:42	02/25/23 07:20	

Surrogate	%Recovery	Qualifier	Limits	P	repared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	02/2	24/23 11:42	02/25/23 07:20	1
1,4-Difluorobenzene (Surr)	113		70 - 130	02/2	24/23 11:42	02/25/23 07:20	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00396	U	0.00396	mg/Kg			02/27/23 16:41	1

Method: SW846 8015 NM - Diesel Range	Organics (DRO) (6	(Of
Michiga. Offoro out of this - Dieser Range	Organics (Dito) (C	, ,

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	78.3		49.9	mg/Kg			02/24/23 13:40	1	

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Matrix: Solid

Job ID: 890-4136-1

Client: Ensolum Project/Site: Cabo Wabo 704-706 Frac Tank SDG: 03D2024153

Client Sample ID: SS03 Date Collected: 02/16/23 13:00

Lab Sample ID: 890-4136-3 Matrix: Solid

Date Received: 02/17/23 15:27 Sample Depth: 0.2'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/23/23 09:10	02/23/23 18:18	1
Diesel Range Organics (Over C10-C28)	78.3		49.9	mg/Kg		02/23/23 09:10	02/23/23 18:18	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/23/23 09:10	02/23/23 18:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130			02/23/23 09:10	02/23/23 18:18	1
o-Terphenyl	86		70 - 130			02/23/23 09:10	02/23/23 18:18	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: SS04 Lab Sample ID: 890-4136-4 Date Collected: 02/16/23 13:05 Matrix: Solid

Date Received: 02/17/23 15:27

Sample Depth: 0.2'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/24/23 11:42	02/25/23 07:40	1
Toluene	< 0.00199	U	0.00199	mg/Kg		02/24/23 11:42	02/25/23 07:40	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/24/23 11:42	02/25/23 07:40	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		02/24/23 11:42	02/25/23 07:40	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		02/24/23 11:42	02/25/23 07:40	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/24/23 11:42	02/25/23 07:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130			02/24/23 11:42	02/25/23 07:40	1
1,4-Difluorobenzene (Surr)	110		70 - 130			02/24/23 11:42	02/25/23 07:40	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			02/27/23 16:41	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	83.7		49.9	mg/Kg			02/24/23 13:40	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		02/23/23 09:10	02/23/23 18:40	1
Diesel Range Organics (Over C10-C28)	83.7		49.9	mg/Kg		02/23/23 09:10	02/23/23 18:40	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/23/23 09:10	02/23/23 18:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130			02/23/23 09:10	02/23/23 18:40	1
o-Terphenyl	83		70 - 130			02/23/23 09:10	02/23/23 18:40	1

Job ID: 890-4136-1

Client: Ensolum Project/Site: Cabo Wabo 704-706 Frac Tank SDG: 03D2024153

Lab Sample ID: 890-4136-4

Client Sample ID: SS04 Date Collected: 02/16/23 13:05 Date Received: 02/17/23 15:27

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	395		24.8	mg/Kg			02/23/23 06:21	5			

Client Sample ID: SS05 Lab Sample ID: 890-4136-5 Matrix: Solid

Date Collected: 02/16/23 13:10 Date Received: 02/17/23 15:27

Sample Depth: 0.2'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/24/23 11:42	02/25/23 08:01	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/24/23 11:42	02/25/23 08:01	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/24/23 11:42	02/25/23 08:01	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		02/24/23 11:42	02/25/23 08:01	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/24/23 11:42	02/25/23 08:01	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		02/24/23 11:42	02/25/23 08:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			02/24/23 11:42	02/25/23 08:01	1
1,4-Difluorobenzene (Surr)	112		70 - 130			02/24/23 11:42	02/25/23 08:01	1
Method: TAL SOP Total BTEX	- Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			02/27/23 16:41	1
Method: SW846 8015 NM - Die	sel Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			02/24/23 13:40	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8	mg/Kg		02/23/23 09:10	02/23/23 19:01	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.8	U	49.8	mg/Kg		02/23/23 09:10	02/23/23 19:01	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		02/23/23 09:10	02/23/23 19:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130			02/23/23 09:10	02/23/23 19:01	1
o-Terphenyl	81		70 - 130			02/23/23 09:10	02/23/23 19:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	152		25.0	mg/Kg			02/23/23 06:27	5	

Job ID: 890-4136-1

Client: Ensolum Project/Site: Cabo Wabo 704-706 Frac Tank SDG: 03D2024153

Client Sample ID: SS06 Lab Sample ID: 890-4136-6 Date Collected: 02/16/23 13:15 Matrix: Solid

Date Received: 02/17/23 15:27 Sample Depth: 0.2'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/24/23 11:42	02/25/23 08:22	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/24/23 11:42	02/25/23 08:22	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		02/24/23 11:42	02/25/23 08:22	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		02/24/23 11:42	02/25/23 08:22	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		02/24/23 11:42	02/25/23 08:22	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/24/23 11:42	02/25/23 08:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130			02/24/23 11:42	02/25/23 08:22	1
1,4-Difluorobenzene (Surr)	111		70 - 130			02/24/23 11:42	02/25/23 08:22	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese	l Range Organ	ice (DPO) (CCI					
			•	Unit	n	Propared	Analyzod	Dil Fac
Analyte	Result	Qualifier	RL	Unit ma/Ka	<u>D</u>	Prepared	Analyzed	
Analyte Total TPH		Qualifier	•	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 02/24/23 13:40	Dil Fac
Analyte	Result <49.9	Qualifier U	RL 49.9		<u>D</u>	Prepared		
Analyte Total TPH	Result <49.9 sel Range Orga	Qualifier U	RL 49.9		<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: SW846 8015B NM - Dies	Result <49.9 sel Range Orga	Qualifier U nics (DRO) Qualifier	RL 49.9 (GC)	mg/Kg	<u> </u>	<u> </u>	02/24/23 13:40	1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result <49.9 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U	RL 49.9 (GC)	mg/Kg	<u> </u>	Prepared	02/24/23 13:40 Analyzed	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 <49.9	Qualifier U nics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9	mg/Kg Unit mg/Kg	<u> </u>	Prepared 02/23/23 09:10	02/24/23 13:40 Analyzed 02/23/23 19:23	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 U	RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg	<u> </u>	Prepared 02/23/23 09:10 02/23/23 09:10	02/24/23 13:40 Analyzed 02/23/23 19:23 02/23/23 19:23	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 U	RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg	<u> </u>	Prepared 02/23/23 09:10 02/23/23 09:10 02/23/23 09:10	02/24/23 13:40 Analyzed 02/23/23 19:23 02/23/23 19:23 02/23/23 19:23	Dil Fac 1 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 U	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits	mg/Kg Unit mg/Kg	<u> </u>	Prepared 02/23/23 09:10 02/23/23 09:10 02/23/23 09:10 Prepared	02/24/23 13:40 Analyzed 02/23/23 19:23 02/23/23 19:23 02/23/23 19:23 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 U Qualifier	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg	<u> </u>	Prepared 02/23/23 09:10 02/23/23 09:10 02/23/23 09:10 Prepared 02/23/23 09:10	02/24/23 13:40 Analyzed 02/23/23 19:23 02/23/23 19:23 Analyzed 02/23/23 19:23	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 <49.9	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg	<u> </u>	Prepared 02/23/23 09:10 02/23/23 09:10 02/23/23 09:10 Prepared 02/23/23 09:10	02/24/23 13:40 Analyzed 02/23/23 19:23 02/23/23 19:23 Analyzed 02/23/23 19:23	1 1 1 Dil Fac 1

Client Sample ID: SS07 Lab Sample ID: 890-4136-7

Date Collected: 02/16/23 13:20 Date Received: 02/17/23 15:27

Sample Depth: 0.2'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/24/23 11:42	02/25/23 08:42	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/24/23 11:42	02/25/23 08:42	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/24/23 11:42	02/25/23 08:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		02/24/23 11:42	02/25/23 08:42	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/24/23 11:42	02/25/23 08:42	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/24/23 11:42	02/25/23 08:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			02/24/23 11:42	02/25/23 08:42	

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Matrix: Solid

Matrix: Solid

Client Sample Results

Client: Ensolum Job ID: 890-4136-1
Project/Site: Cabo Wabo 704-706 Frac Tank SDG: 03D2024153

Client Sample ID: SS07 Lab Sample ID: 890-4136-7

Date Collected: 02/16/23 13:20
Date Received: 02/17/23 15:27

303

Sample Depth: 0.2'

Chloride

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	106		70 - 130			02/24/23 11:42	02/25/23 08:42	1
Method: TAL SOP Total BTEX - 1	Total RTEY Cale	vulation						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/27/23 16:41	1
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)					
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	11.6	-	49.9	mg/Kg			02/27/23 12:30	1
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
: Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/24/23 15:11	02/25/23 19:08	1
Diesel Range Organics (Over	11.6		49.9	mg/Kg		02/24/23 15:11	02/25/23 19:08	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/24/23 15:11	02/25/23 19:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130			02/24/23 15:11	02/25/23 19:08	1
o-Terphenyl	97		70 - 130			02/24/23 15:11	02/25/23 19:08	1
1-Chlorooctane o-Terphenyl	96		70 - 130			02/24/23 15:11	02/25/23 19:08	
Method: EPA 300.0 - Anions, Ion	Chromatogran	hy - Solub	le					

25.0

mg/Kg

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02/23/23 06:52

Surrogate Summary

Client: Ensolum Job ID: 890-4136-1 Project/Site: Cabo Wabo 704-706 Frac Tank SDG: 03D2024153

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
90-4136-1	SS01	108	87	
90-4136-2	SS02	118	114	
90-4136-3	SS03	113	113	
90-4136-4	SS04	112	110	
90-4136-5	SS05	117	112	
90-4136-6	SS06	116	111	
90-4136-7	SS07	119	106	
90-4180-A-21-D MS	Matrix Spike	111	107	
90-4180-A-21-E MSD	Matrix Spike Duplicate	110	114	
CS 880-47016/1-A	Lab Control Sample	108	112	
.CSD 880-47016/2-A	Lab Control Sample Dup	109	109	
/IB 880-47016/5-В	Method Blank	102	100	
	Method Blank	107	103	

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limit
		1001	OTPH1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
80-25053-A-41-E MS	Matrix Spike	111	111	
80-25053-A-41-F MSD	Matrix Spike Duplicate	110	110	
90-4123-A-1-F MS	Matrix Spike	107	102	
90-4123-A-1-G MSD	Matrix Spike Duplicate	95	89	
90-4134-A-1-D MS	Matrix Spike	85	82	
90-4134-A-1-E MSD	Matrix Spike Duplicate	99	91	
90-4136-1	SS01	90	99	
90-4136-2	SS02	86	92	
90-4136-3	SS03	84	86	
90-4136-4	SS04	79	83	
90-4136-5	SS05	78	81	
90-4136-6	SS06	77	80	
90-4136-7	SS07	96	97	
CS 880-47002/2-A	Lab Control Sample	103	113	
CS 880-47003/2-A	Lab Control Sample	107	116	
CS 880-47205/2-A	Lab Control Sample	117	117	
CSD 880-47002/3-A	Lab Control Sample Dup	101	102	
CSD 880-47003/3-A	Lab Control Sample Dup	75	85	
CSD 880-47205/3-A	Lab Control Sample Dup	130	125	
IB 880-47002/1-A	Method Blank	112	126	
MB 880-47003/1-A	Method Blank	110	131 S1+	
1B 880-47205/1-A	Method Blank	147 S1+	155 S1+	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-4136-1 Project/Site: Cabo Wabo 704-706 Frac Tank

SDG: 03D2024153

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-47016/5-B

Lab Sample ID: LCS 880-47016/1-A

Matrix: Solid

Analysis Batch: 47140

Client	Sample	ID:	Method	Blank

Prep Type: Total/NA

Prep Batch: 47016

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/24/23 11:42	02/25/23 01:15	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/24/23 11:42	02/25/23 01:15	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/24/23 11:42	02/25/23 01:15	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/24/23 11:42	02/25/23 01:15	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/24/23 11:42	02/25/23 01:15	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/24/23 11:42	02/25/23 01:15	1

MB MB

MD MD

Surrogate	%Recovery	Qualifier	Limits	F	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	02/2	24/23 11:42	02/25/23 01:15	1
1,4-Difluorobenzene (Surr)	100		70 - 130	02/2	24/23 11:42	02/25/23 01:15	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 47016

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.08552 mg/Kg 86 70 - 130 Toluene 0.100 0.08570 mg/Kg 86 70 - 130 0.100 0.08838 88 Ethylbenzene mg/Kg 70 - 130 0.200 0.1889 94 70 - 130 m-Xylene & p-Xylene mg/Kg 0.100 0.09331 70 - 130 o-Xylene mg/Kg 93

LCS LCS

Surrogate	%Recovery Qua	lifier Limits
4-Bromofluorobenzene (Surr)	108	70 - 130
1,4-Difluorobenzene (Surr)	112	70 - 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Matrix: Solid

Analysis Batch: 47140

Analysis Batch: 47140

Lab Sample ID: LCSD 880-47016/2-A

Prep Type: Total/NA Prep Batch: 47016

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09543		mg/Kg		95	70 - 130	11	35
Toluene	0.100	0.09362		mg/Kg		94	70 - 130	9	35
Ethylbenzene	0.100	0.09933		mg/Kg		99	70 - 130	12	35
m-Xylene & p-Xylene	0.200	0.2103		mg/Kg		105	70 - 130	11	35
o-Xylene	0.100	0.1034		mg/Kg		103	70 - 130	10	35

LCSD LCSD

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

Lab Sample ID: 890-4180-A-21-D MS

Matrix: Solid

Analysis Batch: 47140

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

Prep Batch: 47016

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.0998	0.08050		mg/Kg		81	70 - 130	
Toluene	<0.00201	U	0.0998	0.07819		mg/Kg		78	70 - 130	

QC Sample Results

Client: Ensolum Job ID: 890-4136-1
Project/Site: Cabo Wabo 704-706 Frac Tank SDG: 03D2024153

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

Lab Sample ID: 890-4180-A-21-D MS Client Sample ID: Matrix Spike

Matrix: Solid Analysis Batch: 47140

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00201	U	0.0998	0.07809		mg/Kg		78	70 - 130	
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1638		mg/Kg		82	70 - 130	
o-Xylene	<0.00201	U	0.0998	0.08111		mg/Kg		81	70 - 130	

 Surrogate
 %Recovery
 Qualifier
 Limits

 4-Bromofluorobenzene (Surr)
 111
 70 - 130

 1,4-Difluorobenzene (Surr)
 107
 70 - 130

Lab Sample ID: 890-4180-A-21-E MSD

Matrix: Solid Analysis Batch: 47140 Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Prep Batch: 47016

Prep Type: Total/NA

Prep Batch: 47016

Sample Sample Spike MSD MSD RPD Result Qualifier %Rec RPD Limit Analyte babbA Result Qualifier Limits Unit Benzene <0.00201 U 0.0990 0.09030 mg/Kg 91 70 - 130 11 35 Toluene <0.00201 U 0.0990 0.08535 mg/Kg 86 70 - 130 9 35 Ethylbenzene <0.00201 0.0990 0.08851 89 70 - 130 35 U mg/Kg 13 m-Xylene & p-Xylene <0.00402 U 0.198 0.1865 mg/Kg 94 70 - 130 13 35 <0.00201 U 0.0990 0.09194 92 70 - 130 o-Xylene mg/Kg 13

 Surrogate
 %Recovery
 Qualifier
 Limits

 4-Bromofluorobenzene (Surr)
 110
 70 - 130

 1,4-Difluorobenzene (Surr)
 114
 70 - 130

MB MB

Lab Sample ID: MB 880-47145/5-A

Matrix: Solid

Analysis Batch: 47140

Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 47145

Prep Batch: 47145

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/24/23 09:38	02/24/23 13:39	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/24/23 09:38	02/24/23 13:39	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/24/23 09:38	02/24/23 13:39	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/24/23 09:38	02/24/23 13:39	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/24/23 09:38	02/24/23 13:39	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/24/23 09:38	02/24/23 13:39	1

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	02/24/23 09:38	02/24/23 13:39	1
1,4-Difluorobenzene (Surr)	103		70 - 130	02/24/23 09:38	02/24/23 13:39	1

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

Lab Sample ID: MB 880-47002/1-A

Matrix: Solid

Analysis Batch: 46992

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

Prep Batch: 47002

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		02/23/23 09:10	02/23/23 08:36	1
(GRO)-C6-C10								

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2

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11

Client: Ensolum Job ID: 890-4136-1 Project/Site: Cabo Wabo 704-706 Frac Tank

SDG: 03D2024153

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

Lab Sample ID: MB 880-47002/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Total/NA** Analysis Batch: 46992 Prep Batch: 47002

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/23/23 09:10	02/23/23 08:36	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/23/23 09:10	02/23/23 08:36	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130			02/23/23 09:10	02/23/23 08:36	1
o-Terphenyl	126		70 - 130			02/23/23 09:10	02/23/23 08:36	1

Lab Sample ID: LCS 880-47 Matrix: Solid Analysis Batch: 46992	002/2-A						Client	Sample	e ID: Lab Control Sa Prep Type: Tot Prep Batch: 4	tal/N/
•			Spike	LCS	LCS				%Rec	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10			1000	944.5		mg/Kg		94	70 - 130	
Diesel Range Organics (Over C10-C28)			1000	1060		mg/Kg		106	70 - 130	
	LCS	LCS								
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	103		70 - 130							
o-Terphenyl	113		70 - 130							

ab Sample ID: LCSD 880-47002/3-A	Sample ID: LCSD 880-47002/3-A							Client Sample ID: Lab Control Sample Dup						
Matrix: Solid	atrix: Solid							Prep Type: Total/NA						
nalysis Batch: 46992					Prep Batch: 4									
	Spike	LCSD	LCSD				%Rec		RPD					
nalyte	Added	Result	Qualifier	Unit	_ D	%Rec	Limits	RPD	Limit					
3 3	1000	915.3		mg/Kg		92	70 - 130	3	20					
5	1000	906.8		mg/Kg		91	70 - 130	16	20					
	nalyte sasoline Range Organics GRO)-C6-C10 siesel Range Organics (Over	Matrix: Solid Analysis Batch: 46992 Spike Inalyte Added Siasoline Range Organics 1000 GRO)-C6-C10 1000 Siesel Range Organics (Over 1000	Matrix: Solid Analysis Batch: 46992 Spike LCSD Inalyte Added Result Siasoline Range Organics 1000 915.3 GRO)-C6-C10 300 906.8 Siesel Range Organics (Over 1000 906.8	Matrix: Solid Analysis Batch: 46992 Spike LCSD LCSD Inalyte Added Result Qualifier piasoline Range Organics 1000 915.3 GRO)-C6-C10 1000 906.8	Matrix: Solid Analysis Batch: 46992 Spike LCSD LCSD Inalyte Added Result Qualifier Unit piasoline Range Organics 1000 915.3 mg/Kg GRO)-C6-C10 giesel Range Organics (Over 1000 906.8 mg/Kg	Matrix: Solid Analysis Batch: 46992 Spike LCSD LCSD <td>Matrix: Solid Analysis Batch: 46992 Spike LCSD LCSD<td>Matrix: Solid Prep 1 Analysis Batch: 46992 Spike LCSD LCSD LCSD LCSD %Rec Inalyte Added Result Qualifier Unit D %Rec Limits isasoline Range Organics 1000 915.3 mg/Kg 92 70 - 130 GRO)-C6-C10 giesel Range Organics (Over 1000 906.8 mg/Kg 91 70 - 130</td><td>Matrix: Solid Prep Type: To Prep Batch: To Prep</td></td>	Matrix: Solid Analysis Batch: 46992 Spike LCSD LCSD <td>Matrix: Solid Prep 1 Analysis Batch: 46992 Spike LCSD LCSD LCSD LCSD %Rec Inalyte Added Result Qualifier Unit D %Rec Limits isasoline Range Organics 1000 915.3 mg/Kg 92 70 - 130 GRO)-C6-C10 giesel Range Organics (Over 1000 906.8 mg/Kg 91 70 - 130</td> <td>Matrix: Solid Prep Type: To Prep Batch: To Prep</td>	Matrix: Solid Prep 1 Analysis Batch: 46992 Spike LCSD LCSD LCSD LCSD %Rec Inalyte Added Result Qualifier Unit D %Rec Limits isasoline Range Organics 1000 915.3 mg/Kg 92 70 - 130 GRO)-C6-C10 giesel Range Organics (Over 1000 906.8 mg/Kg 91 70 - 130	Matrix: Solid Prep Type: To Prep Batch: To Prep					

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	101		70 - 130
o-Terphenyl	102		70 - 130

Lab Sample ID: 890-4134-A-Matrix: Solid Analysis Batch: 46992	-1-D MS							Client	Prep 1	: Matrix Spike Type: Total/NA Batch: 47002
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1134		mg/Kg		110	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.9	U	999	910.9		mg/Kg		91	70 - 130	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	85		70 - 130							
o-Terphenyl	82		70 - 130							

Client: Ensolum Job ID: 890-4136-1 Project/Site: Cabo Wabo 704-706 Frac Tank

SDG: 03D2024153

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

Lab Sample ID: 890-4134-A-1-E MSD

Matrix: Solid

Analysis Batch: 46992

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 47002

	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	1097		mg/Kg		107	70 - 130	3	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<49.9	U	999	1021		mg/Kg		102	70 - 130	11	20
C10-C28)											

MSD MSD

%Recovery Qualifier Limits Surrogate 1-Chlorooctane 70 - 130 99 o-Terphenyl 91 70 - 130

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 47003

Lab Sample ID: MB 880-47003/1-A **Matrix: Solid**

Analysis Batch: 46994

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		02/23/23 09:12	02/23/23 08:36	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		02/23/23 09:12	02/23/23 08:36	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/23/23 09:12	02/23/23 08:36	1

MB MB %Recovery Qualifier Limits Dil Fac Surrogate Prepared Analyzed 1-Chlorooctane 110 70 - 130 02/23/23 09:12 02/23/23 08:36 o-Terphenyl 131 S1+ 70 - 130 02/23/23 09:12 02/23/23 08:36

Lab Sample ID: LCS 880-47003/2-A

Matrix: Solid

Analysis Batch: 46994

Client Sample ID:	Lab	Control	Sample
	Dro	n Type:	Total/NA

Prep Type: Total/NA Prep Batch: 47003

LCS LCS Spike %Rec Result Qualifier Analyte Added Unit %Rec Limits Gasoline Range Organics 1000 1174 mg/Kg 117 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 1000 1103 mg/Kg 110 70 - 130

C10-C28)

LCS LCS

%Recovery Qualifier Limits Surrogate 70 - 130 1-Chlorooctane 107 116 70 - 130 o-Terphenyl

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 880-47003/3-A **Matrix: Solid**

Analysis Batch: 46994

Prep Type: Total/NA Prep Batch: 47003

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	1000	908.0	*1	mg/Kg		91	70 - 130	26	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	806.6	*1	mg/Kg		81	70 - 130	31	20	
C10-C28)										

Client: Ensolum Job ID: 890-4136-1 Project/Site: Cabo Wabo 704-706 Frac Tank SDG: 03D2024153

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

Lab Sample ID: LCSD 880-47003/3-A

Matrix: Solid

Analysis Batch: 46994

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 47003

LCSD LCSD

%Recovery Qualifier Surrogate Limits 1-Chlorooctane 75 70 - 130 o-Terphenyl 85 70 - 130

Lab Sample ID: 890-4123-A-1-F MS Client Sample ID: Matrix Spike

Analysis Batch: 46994

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

Prep Batch: 47003

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	999	1211		mg/Kg		119	70 - 130	
Diesel Range Organics (Over C10-C28)	76.8	*1	999	1121		mg/Kg		105	70 - 130	

MS MS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	107		70 - 130
o-Terphenyl	102		70 - 130

Lab Sample ID: 890-4123-A-1-G MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 46994

Prep Type: Total/NA

Prep Batch: 47003

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	998	986.4		mg/Kg		97	70 - 130	20	20
Diesel Range Organics (Over C10-C28)	76.8	*1	998	993.4		mg/Kg		92	70 - 130	12	20

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	89		70 - 130

Lab Sample ID: MB 880-47205/1-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 47221

Prep Type: Total/NA

Prep Batch: 47205

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		02/24/23 15:11	02/25/23 08:50	1
(GRO)-C6-C10 Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		02/24/23 15:11	02/25/23 08:50	1
C10-C28)	.00.0	· ·	00.0	g/itg		02/2 1/20 10:11	02/20/20 00:00	•
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/24/23 15:11	02/25/23 08:50	1

мв мв

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	147	S1+	70 - 130	02/24/23 15:11	02/25/23 08:50	1
o-Terphenyl	155	S1+	70 - 130	02/24/23 15:11	02/25/23 08:50	1

Job ID: 890-4136-1 Client: Ensolum Project/Site: Cabo Wabo 704-706 Frac Tank SDG: 03D2024153

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

Lab Sample ID: LCS 880-47205/2-A

Matrix: Solid Analysis Batch: 47221 **Client Sample ID: Lab Control Sample**

Prep Type: Total/NA Prep Batch: 47205

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	985.6		mg/Kg	_	99	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1051		mg/Kg		105	70 - 130	
C10-C28)								

Limits

Surrogate

Matrix: Solid

LCS LCS %Recovery Qualifier

100D 100D

MS MS

70 - 130 1-Chlorooctane 117 o-Terphenyl 117 70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 47205

Analysis Batch: 47221 Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 959.3 96 70 - 130 3 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1125 mg/Kg 113 70 - 130 7 20

C10-C28)

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

Lab Sample ID: 880-25053-A-41-E MS

Lab Sample ID: LCSD 880-47205/3-A

Matrix: Solid

Analysis Batch: 47221

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 47205

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	1077		mg/Kg		105	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.9	U	997	1052		mg/Kg		106	70 - 130	

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

Lab Sample ID: 880-25053-A-41-F MSD

Matrix: Solid Analysis Batch: 47221 Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA Prep Batch: 47205

MSD MSD RPD Sample Sample Spike %Rec Result Qualifier Added Result Qualifier Limit Analyte Unit %Rec Limits RPD D Gasoline Range Organics <49.9 U 999 1009 mg/Kg 98 70 - 130 20 (GRO)-C6-C10 <49.9 U 999 1045 Diesel Range Organics (Over mg/Kg 105 70 - 13020

C10-C28)

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	110		70 - 130

Client: Ensolum

Job ID: 890-4136-1

Project/Site: Cabo Wabo 704-706 Frac Tank SDG: 03D2024153

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

Lab Sample ID: 880-25053-A-41-F MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid**

Prep Type: Total/NA Analysis Batch: 47221 Prep Batch: 47205

MSD MSD

Surrogate %Recovery Qualifier Limits o-Terphenyl 110 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-46849/1-A Client Sample ID: Method Blank Matrix: Solid **Prep Type: Soluble**

Analysis Batch: 46986

MB MB

Analyte Result Qualifier RL Unit D Analyzed Dil Fac Prepared 5.00 Chloride <5.00 02/23/23 05:32 U mg/Kg

Lab Sample ID: LCS 880-46849/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 46986

LCS LCS Spike %Rec Added Result Qualifier Analyte Unit %Rec Limits Chloride 250 238.4 mg/Kg 95 90 - 110

Lab Sample ID: LCSD 880-46849/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 46986

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit Chloride 250 238.2 90 - 110 20 mg/Kg 95

Lab Sample ID: 890-4136-1 MS **Client Sample ID: SS01 Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 46986

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 7030 F1 4980 12940 F1 119 90 - 110 mg/Kg

Lab Sample ID: 890-4136-1 MSD Client Sample ID: SS01

Matrix: Solid

Analysis Batch: 46986

Sample Sample Spike MSD MSD %Rec RPD Analyte Qualifier Added Qualifier Limits RPD Limit Result Result Unit %Rec Chloride F1 4980 12970 F1 7030 119 90 - 110 20 mg/Kg

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Prep Type: Soluble

QC Association Summary

Client: Ensolum Job ID: 890-4136-1
Project/Site: Cabo Wabo 704-706 Frac Tank SDG: 03D2024153

GC VOA

Prep Batch: 47016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4136-1	SS01	Total/NA	Solid	5035	_
890-4136-2	SS02	Total/NA	Solid	5035	
890-4136-3	SS03	Total/NA	Solid	5035	
890-4136-4	SS04	Total/NA	Solid	5035	
890-4136-5	SS05	Total/NA	Solid	5035	
890-4136-6	SS06	Total/NA	Solid	5035	
890-4136-7	SS07	Total/NA	Solid	5035	
MB 880-47016/5-B	Method Blank	Total/NA	Solid	5035	
LCS 880-47016/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-47016/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4180-A-21-D MS	Matrix Spike	Total/NA	Solid	5035	
890-4180-A-21-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 47140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4136-1	SS01	Total/NA	Solid	8021B	47016
890-4136-2	SS02	Total/NA	Solid	8021B	47016
890-4136-3	SS03	Total/NA	Solid	8021B	47016
890-4136-4	SS04	Total/NA	Solid	8021B	47016
890-4136-5	SS05	Total/NA	Solid	8021B	47016
890-4136-6	SS06	Total/NA	Solid	8021B	47016
890-4136-7	SS07	Total/NA	Solid	8021B	47016
MB 880-47016/5-B	Method Blank	Total/NA	Solid	8021B	47016
MB 880-47145/5-A	Method Blank	Total/NA	Solid	8021B	47145
LCS 880-47016/1-A	Lab Control Sample	Total/NA	Solid	8021B	47016
LCSD 880-47016/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	47016
890-4180-A-21-D MS	Matrix Spike	Total/NA	Solid	8021B	47016
890-4180-A-21-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	47016

Prep Batch: 47145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-47145/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 47361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4136-1	SS01	Total/NA	Solid	Total BTEX	
890-4136-2	SS02	Total/NA	Solid	Total BTEX	
890-4136-3	SS03	Total/NA	Solid	Total BTEX	
890-4136-4	SS04	Total/NA	Solid	Total BTEX	
890-4136-5	SS05	Total/NA	Solid	Total BTEX	
890-4136-6	SS06	Total/NA	Solid	Total BTEX	
890-4136-7	SS07	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 46992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4136-3	SS03	Total/NA	Solid	8015B NM	47002
890-4136-4	SS04	Total/NA	Solid	8015B NM	47002
890-4136-5	SS05	Total/NA	Solid	8015B NM	47002
890-4136-6	SS06	Total/NA	Solid	8015B NM	47002

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QC Association Summary

Client: Ensolum Job ID: 890-4136-1
Project/Site: Cabo Wabo 704-706 Frac Tank SDG: 03D2024153

GC Semi VOA (Continued)

Analysis Batch: 46992 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-47002/1-A	Method Blank	Total/NA	Solid	8015B NM	47002
LCS 880-47002/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	47002
LCSD 880-47002/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	47002
890-4134-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	47002
890-4134-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	47002

Analysis Batch: 46994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4136-1	SS01	Total/NA	Solid	8015B NM	47003
890-4136-2	SS02	Total/NA	Solid	8015B NM	47003
MB 880-47003/1-A	Method Blank	Total/NA	Solid	8015B NM	47003
LCS 880-47003/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	47003
LCSD 880-47003/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	47003
890-4123-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	47003
890-4123-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	47003

Prep Batch: 47002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4136-3	SS03	Total/NA	Solid	8015NM Prep	
890-4136-4	SS04	Total/NA	Solid	8015NM Prep	
890-4136-5	SS05	Total/NA	Solid	8015NM Prep	
890-4136-6	SS06	Total/NA	Solid	8015NM Prep	
MB 880-47002/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-47002/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-47002/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4134-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4134-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 47003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4136-1	SS01	Total/NA	Solid	8015NM Prep	
890-4136-2	SS02	Total/NA	Solid	8015NM Prep	
MB 880-47003/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-47003/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-47003/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4123-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4123-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 47167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4136-1	SS01	Total/NA	Solid	8015 NM	
890-4136-2	SS02	Total/NA	Solid	8015 NM	
890-4136-3	SS03	Total/NA	Solid	8015 NM	
890-4136-4	SS04	Total/NA	Solid	8015 NM	
890-4136-5	SS05	Total/NA	Solid	8015 NM	
890-4136-6	SS06	Total/NA	Solid	8015 NM	
890-4136-7	SS07	Total/NA	Solid	8015 NM	

Prep Batch: 47205

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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4136-7	SS07	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Ensolum Job ID: 890-4136-1
Project/Site: Cabo Wabo 704-706 Frac Tank SDG: 03D2024153

GC Semi VOA (Continued)

Prep Batch: 47205 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-47205/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-47205/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-47205/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-25053-A-41-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-25053-A-41-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 47221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4136-7	SS07	Total/NA	Solid	8015B NM	47205
MB 880-47205/1-A	Method Blank	Total/NA	Solid	8015B NM	47205
LCS 880-47205/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	47205
LCSD 880-47205/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	47205
880-25053-A-41-E MS	Matrix Spike	Total/NA	Solid	8015B NM	47205
880-25053-A-41-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	47205

HPLC/IC

Leach Batch: 46849

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4136-1	SS01	Soluble	Solid	DI Leach	
890-4136-2	SS02	Soluble	Solid	DI Leach	
890-4136-3	SS03	Soluble	Solid	DI Leach	
890-4136-4	SS04	Soluble	Solid	DI Leach	
890-4136-5	SS05	Soluble	Solid	DI Leach	
890-4136-6	SS06	Soluble	Solid	DI Leach	
890-4136-7	SS07	Soluble	Solid	DI Leach	
MB 880-46849/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-46849/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-46849/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4136-1 MS	SS01	Soluble	Solid	DI Leach	
890-4136-1 MSD	SS01	Soluble	Solid	DI Leach	

Analysis Batch: 46986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4136-1	SS01	Soluble	Solid	300.0	46849
890-4136-2	SS02	Soluble	Solid	300.0	46849
890-4136-3	SS03	Soluble	Solid	300.0	46849
890-4136-4	SS04	Soluble	Solid	300.0	46849
890-4136-5	SS05	Soluble	Solid	300.0	46849
890-4136-6	SS06	Soluble	Solid	300.0	46849
890-4136-7	SS07	Soluble	Solid	300.0	46849
MB 880-46849/1-A	Method Blank	Soluble	Solid	300.0	46849
LCS 880-46849/2-A	Lab Control Sample	Soluble	Solid	300.0	46849
LCSD 880-46849/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	46849
890-4136-1 MS	SS01	Soluble	Solid	300.0	46849
890-4136-1 MSD	SS01	Soluble	Solid	300.0	46849

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Project/Site: Cabo Wabo 704-706 Frac Tank

Job ID: 890-4136-1

SDG: 03D2024153

Client Sample ID: SS01

Client: Ensolum

Lab Sample ID: 890-4136-1

Matrix: Solid

Date Collected: 02/16/23 12:50 Date Received: 02/17/23 15:27

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	47016	02/24/23 11:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47140	02/25/23 06:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47361	02/27/23 16:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			47167	02/24/23 13:21	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47003	02/23/23 09:12	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46994	02/23/23 18:18	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	46849	02/21/23 13:17	KS	EET MID
Soluble	Analysis	300.0		20			46986	02/23/23 05:50	CH	EET MID

Client Sample ID: SS02 Lab Sample ID: 890-4136-2

Date Collected: 02/16/23 12:55 Matrix: Solid

Date Received: 02/17/23 15:27

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	47016	02/24/23 11:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47140	02/25/23 07:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47361	02/27/23 16:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			47167	02/24/23 13:21	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47003	02/23/23 09:12	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46994	02/23/23 18:40	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	46849	02/21/23 13:17	KS	EET MID
Soluble	Analysis	300.0		5			46986	02/23/23 06:09	CH	EET MID

Client Sample ID: SS03 Lab Sample ID: 890-4136-3 Date Collected: 02/16/23 13:00 **Matrix: Solid**

Date Received: 02/17/23 15:27

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	47016	02/24/23 11:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47140	02/25/23 07:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47361	02/27/23 16:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			47167	02/24/23 13:40	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47002	02/23/23 09:10	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46992	02/23/23 18:18	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	46849	02/21/23 13:17	KS	EET MID
Soluble	Analysis	300.0		10			46986	02/23/23 06:15	CH	EET MID

Client Sample ID: SS04 Lab Sample ID: 890-4136-4

Date Collected: 02/16/23 13:05 Date Received: 02/17/23 15:27

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	47016	02/24/23 11:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47140	02/25/23 07:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47361	02/27/23 16:41	SM	EET MID

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Matrix: Solid

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Project/Site: Cabo Wabo 704-706 Frac Tank

Client: Ensolum

Matrix: Solid

Date Collected: 02/16/23 13:05 Date Received: 02/17/23 15:27

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			47167	02/24/23 13:40	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	47002	02/23/23 09:10	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46992	02/23/23 18:40	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	46849	02/21/23 13:17	KS	EET MID
Soluble	Analysis	300.0		5			46986	02/23/23 06:21	CH	EET MID

Client Sample ID: SS05 Lab Sample ID: 890-4136-5

Date Collected: 02/16/23 13:10 **Matrix: Solid**

Date Received: 02/17/23 15:27

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	47016	02/24/23 11:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47140	02/25/23 08:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47361	02/27/23 16:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			47167	02/24/23 13:40	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	47002	02/23/23 09:10	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46992	02/23/23 19:01	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	46849	02/21/23 13:17	KS	EET MIC
Soluble	Analysis	300.0		5			46986	02/23/23 06:27	CH	EET MID

Client Sample ID: SS06 Lab Sample ID: 890-4136-6

Date Collected: 02/16/23 13:15 Date Received: 02/17/23 15:27

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	47016	02/24/23 11:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47140	02/25/23 08:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47361	02/27/23 16:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			47167	02/24/23 13:40	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47002	02/23/23 09:10	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46992	02/23/23 19:23	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	46849	02/21/23 13:17	KS	EET MID
Soluble	Analysis	300.0		1			46986	02/23/23 06:46	CH	EET MID

Client Sample ID: SS07 Lab Sample ID: 890-4136-7

Date Collected: 02/16/23 13:20 Date Received: 02/17/23 15:27

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	47016	02/24/23 11:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47140	02/25/23 08:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47361	02/27/23 16:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			47167	02/27/23 12:30	AJ	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.03 g 1 uL	10 mL 1 uL	47205 47221	02/24/23 15:11 02/25/23 19:08	AJ SM	EET MID EET MID

Eurofins Carlsbad

Matrix: Solid

Matrix: Solid

Lab Chronicle

Client: Ensolum Job ID: 890-4136-1
Project/Site: Cabo Wabo 704-706 Frac Tank SDG: 03D2024153

Client Sample ID: SS07 Lab Sample ID: 890-4136-7

Date Collected: 02/16/23 13:20 Matrix: Solid
Date Received: 02/17/23 15:27

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	46849	02/21/23 13:17	KS	EET MID
Soluble	Analysis	300.0		5			46986	02/23/23 06:52	CH	EET MID

Laboratory References:

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

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Accreditation/Certification Summary

Client: Ensolum Job ID: 890-4136-1
Project/Site: Cabo Wabo 704-706 Frac Tank SDG: 03D2024153

Laboratory: Eurofins Midland

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

Authority		ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-22-25	06-30-23
The following analytes	are included in this report, but	it the laboratory is not certific	ed by the governing authority. This list ma	av include analytes fo
the agency does not of	• •	it the laboratory is not certain	su by the governing authority. This list his	ay include analytes to
,	• •	Matrix	Analyte	ay illoude allalytes lo
the agency does not of	fer certification.	,	, , ,	ay illoude allalytes lo

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Method Summary

Job ID: 890-4136-1 Client: Ensolum Project/Site: Cabo Wabo 704-706 Frac Tank

SDG: 03D2024153

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 704-706 Frac Tank

Job ID: 890-4136-1 SDG: 03D2024153

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4136-1	SS01	Solid	02/16/23 12:50	02/17/23 15:27	0.2'
890-4136-2	SS02	Solid	02/16/23 12:55	02/17/23 15:27	0.2'
890-4136-3	SS03	Solid	02/16/23 13:00	02/17/23 15:27	0.2'
890-4136-4	SS04	Solid	02/16/23 13:05	02/17/23 15:27	0.2'
890-4136-5	SS05	Solid	02/16/23 13:10	02/17/23 15:27	0.2'
890-4136-6	SS06	Solid	02/16/23 13:15	02/17/23 15:27	0.2'
890-4136-7	SS07	Solid	02/16/23 13:20	02/17/23 15:27	0.2'

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Relinquished by: (Signature)

Sand

3-17:23

Date/Time

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

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

Received by: (Signature)

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Xenco **Environment Testing**

Chain of Custody

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

Work Order No:

										Work Order	Work Order Comments
Company Name:	Ensolum 110			Company Name:	ne:	Enso	Ensolum, LLC	0 8		Program: UST/PST ☐ PRP☐ Bro	PRP☐ Brownfields ☐ RRC ☐ Superfund ☐
	601 N Marienfeld St Suite 400	Suite 400		Address:		6011	V Marie	601 N Marienfeld St Suite 400		State of Project:	
e ZIP:	Midland, TX 79701			City, State ZIP		Midla	Midland, TX 79701	79701		Reporting: Level II Level III PST/UST TRRP	ST/UST TRRP Level IV
	432-557-8895		Email:	Email; kiennings@ensolum.com, hgreen@ensolum.com	ensolur	n.com	, hgre	en@ensolur		Deliverables: EDD ADa	ADaPT Other:
Project Name:	Caho Waho 704-706 Frac Tank	Of Frac Tank	Turn	Turn Around					ANALYSIS REQUEST	UEST	Preservative Codes
Project Number:	03D2024153	153	☑ Routine	Rush	Pres. Code						None: NO DI Water: H ₂ O
Project Location:	32.1222,-103.9408		Due Date:								9
Sampler's Name:	Peter Van Patten	atten	TAT starts the	TAT starts the day received by	~						
PO #:			the lab, if rece	the lab, if received by 4:30pm	<u> </u>						H ₂ SU ₄ , H ₂ NaOH: Na
SAMPLE RECEIPT	PT Temp Blank:	Wes No	Wet Ice:	No Sed No	nete	.0)					H ₃ PO ₄ : HP
Samples Received Intact:	itact: (es) No	Thermometer ID:	ID:	Trivet	- i	300					NaHSO ₄ : NABIS
Cooler Custody Seals:	S: Yes No ATTA	Correction Factor:	ctor:	-C. 3	P	PA			890-4136 Chain of	Chain of Custody	Na ₂ O ₂ O ₃ . Na ₃ O ₃
Sample Custody Seals:	is: Yes No (N/A	Y Temperature Reading:	Reading:	1.4	L	S (E		1)		_	Zn Acetate+NaCH: Zn
Total Containers:		Corrected Temperature:	nperature:	4	1	RIDE	015)	802			NaOH+Ascorbic Acid: SAFC
Sample Identification	tification Matrix	Date Sampled	Time Sampled	Depth Grab/ Comp	b/ # of p Cont	CHLO	ТРН (8	втех			Sample Comments
SS01	1 Soil	2/16/2023	1250	0.2' Comp	7	×	×	×			
SS02	2 Soil	2/16/2023	1255	0.2' Comp	ਰ -	×	×	×			
SS03	3 Soil	2/16/2023	1300	0.2' Comp	7	×	×	×			
SS04	4 Soil	2/16/2023	1305	0.2' Comp	7	×	×	×			
SS05	5 Soil	2/16/2023	1310	0.2' Comp	<u>5</u>	×	×	×			
SS06	6 Soil	2/16/2023	1315	0.2' Comp	1	×	×	×			
SS07	7 Soil	2/16/2023	1320	0.2' Comp	ار ا	×	×	×			
	-										
Total 200.7 / 6010	10 200.8 / 6020:	3F	8RCRA 13PPM	PM Texas 11	1 ≥	ഗി	Ва	e B	a Cr Co Cu Fe Pb N	Mo Ni K Se A	Na Sr Ti Sn U V Zn
Circle Method(s) an	Circle Method(s) and Metal(s) to be analyzed	lyzed	TCLP / SI	TCLP / SPLP 6010: 8RCRA	RCRA	11	Sb As Ba	Be	Cd Cr Co Cu Pb Mn Mo Ni Se	Ag TI U	Hg: 1631 / 245.1 / /4/0 / /4/1
Notice: Signature of this d	document and relinquishme	nt of samples consti	tutes a valid pu	rchase order from	m client o	ompany	to Euro	fins Xenco, its	filiates 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	
of Eurofins Xenco. A mini	imum charge of \$85.00 will	be applied to each p	roject and a cha	irge of \$5 for eac	h sample	Submit	ted to E	ırofins Xenco, b	t not analyzed. These terms w	of Euroffus Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Euroffus Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	d.

Login Sample Receipt Checklist

 Client: Ensolum
 Job Number: 890-4136-1

 SDG Number: 03D2024153

Login Number: 4136 List Source: Eurofins Carlsbad

List Number: 1

Creator: Stutzman, Amanda

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

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Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4136-1 SDG Number: 03D2024153

Login Number: 4136 **List Source: Eurofins Midland** List Number: 2

List Creation: 02/21/23 11:18 AM

Creator: Teel, Brianna

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

<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green Ensolum 601 N. Marienfeld St. Suite 400

Midland, Texas 79701 Generated 5/22/2023 4:49:13 PM

JOB DESCRIPTION

Cabo Wabo Federal 24 CTB SDG NUMBER 03D2024153

JOB NUMBER

890-4666-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

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

Authorization

Generated 5/22/2023 4:49:13 PM

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

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

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Client: Ensolum
Project/Site: Cabo Wabo Federal 24 CTB

Laboratory Job ID: 890-4666-1 SDG: 03D2024153

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Definitions/Glossary

Client: Ensolum Job ID: 890-4666-1 Project/Site: Cabo Wabo Federal 24 CTB

SDG: 03D2024153

Qualifiers

GC '	VOA
Quali	ifier

*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

Qualifier Description

GC Semi VOA

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

HPLC/IC

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

Glossarv

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

Eurofins Carlsbad

Released to Imaging: 5/29/2024 10:49:53 AM

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

TEF

TEQ

TNTC

Case Narrative

Client: Ensolum

Project/Site: Cabo Wabo Federal 24 CTB SDG: 03D2024153

Job ID: 890-4666-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4666-1

Receipt

The samples were received on 5/15/2023 4:17 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: FS01 (890-4666-1), FS02 (890-4666-2), FS03 (890-4666-3), FS04 (890-4666-4), FS05 (890-4666-5), FS06 (890-4666-6), FS07 (890-4666-7), FS08 (890-4666-8), FS09 (890-4666-9), FS10 (890-4666-10), SS02A (890-4666-11), SS03A (890-4666-12), SS08 (890-4666-13), SS08A (890-4666-14), SS09 (890-4666-15), SS09A (890-4666-16), SS10 (890-4666-17), SS10A (890-4666-18), SS11 (890-4666-19), SS11A (890-4666-20), SS12 (890-4666-21) and SS12A (890-4666-22).

GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-53588 recovered above the upper control limit for Benzene, Toluene, Ethylbenzene, m-Xylene & p-Xylene, o-Xylene and Xylenes, Total. The samples associated with this CCV were non-detects for the affected analytes

Method 8021B: Surrogate recovery for the following samples were outside control limits: SS12 (890-4666-21) and SS12A (890-4666-22). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (CCV 880-53588/2), (CCV 880-53588/20), (CCV 880-53588/33), (CCV 880-53588/51), (LCS 880-53497/1-A) and (LCSD 880-53497/2-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (890-4660-A-1-I). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (890-4660-A-1-G MS) and (890-4660-A-1-H MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 880-53497 and analytical batch 880-53588 recovered outside control limits for the following analytes: Benzene, Toluene, Ethylbenzene, m-Xylene & p-Xylene, o-Xylene and Xylenes, Total. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-53497 and analytical batch 880-53588 were outside control limits for one or more analytes. These analytes were biased high and were not detected in the associated samples; therefore, the data have been reported.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-53605 and analytical batch 880-53790 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-53604 and analytical batch 880-53790 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: FS05 (890-4666-5), FS08 (890-4666-8), FS09 (890-4666-9), SS08 (890-4666-13), SS08A (890-4666-14), SS11 (890-4666-19) and SS11A (890-4666-20). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: FS06 (890-4666-6) and FS10 (890-4666-10). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Case Narrative

Client: Ensolum

Project/Site: Cabo Wabo Federal 24 CTB

SDG: 03D2024153

Job ID: 890-4666-1

Job ID: 890-4666-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

Method 8021B: Surrogate recovery for the following sample was outside control limits: SS09A (890-4666-16). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-53605 and analytical batch 880-53790 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

GC Semi VOA

Method 8015MOD NM: The surrogate recovery for the blank associated with preparation batch 880-53599 and analytical batch 880-53552 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SS08A (890-4666-14). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: The surrogate recovery for the blank associated with preparation batch 880-53630 and analytical batch 880-53625 was outside the upper control limits.

Method 8015MOD NM: Surrogate recovery for the following sample was outside control limits: (880-28483-A-33-B). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: Surrogate recovery for the following sample was outside control limits: SS12 (890-4666-21). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-53630 and analytical batch 880-53625 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

HPLC/IC

Method 300 ORGFM 28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-53480 and analytical batch 880-53675 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Matrix: Solid

Lab Sample ID: 890-4666-1

Client Sample Results

Client: Ensolum Job ID: 890-4666-1 Project/Site: Cabo Wabo Federal 24 CTB SDG: 03D2024153

Client Sample ID: FS01

Date Collected: 05/15/23 10:05 Date Received: 05/15/23 16:17

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F2 F1	0.00200	mg/Kg		05/17/23 14:58	05/20/23 22:52	
Toluene	<0.00200	U F2 F1	0.00200	mg/Kg		05/17/23 14:58	05/20/23 22:52	•
Ethylbenzene	<0.00200	U F2 F1	0.00200	mg/Kg		05/17/23 14:58	05/20/23 22:52	
m-Xylene & p-Xylene	<0.00399	U F2 F1	0.00399	mg/Kg		05/17/23 14:58	05/20/23 22:52	,
o-Xylene	<0.00200	U F2 F1	0.00200	mg/Kg		05/17/23 14:58	05/20/23 22:52	
Xylenes, Total	<0.00399	U F2 F1	0.00399	mg/Kg		05/17/23 14:58	05/20/23 22:52	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	114		70 - 130			05/17/23 14:58	05/20/23 22:52	
1,4-Difluorobenzene (Surr)	79		70 - 130			05/17/23 14:58	05/20/23 22:52	:
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			05/22/23 16:14	-
	•	ics (DRO) (GC)	Unit	D	Prepared	Analyzed	Dil Fa
	•		•	Unit	n	Propared	Analyzed	Dil Fa
Method: SW846 8015 NM - Dies Analyte	•	Qualifier	•	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 05/18/23 12:40	Dil Fac
Analyte Total TPH	Result <49.9	Qualifier U	RL 49.9		<u>D</u>	Prepared		
Analyte Total TPH Method: SW846 8015B NM - Die	Result <49.9 sel Range Orga	Qualifier U	RL 49.9		<u>D</u>	Prepared Prepared		
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics	Result <49.9 sel Range Orga	Qualifier U unics (DRO) Qualifier	RL 49.9 (GC)	mg/Kg			05/18/23 12:40	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 sel Range Orga Result	Qualifier U unics (DRO) Qualifier U	RL 49.9 (GC)	mg/Kg		Prepared	05/18/23 12:40 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9 Sel Range Orga Result <49.9	Qualifier U unics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9	mg/Kg Unit mg/Kg		Prepared 05/17/23 12:36	05/18/23 12:40 Analyzed 05/17/23 20:52	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier U unics (DRO) Qualifier U U	RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 05/17/23 12:36 05/17/23 12:36	05/18/23 12:40 Analyzed 05/17/23 20:52 05/17/23 20:52	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	Result	Qualifier U unics (DRO) Qualifier U U U	RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg mg/Kg		Prepared 05/17/23 12:36 05/17/23 12:36 05/17/23 12:36	05/18/23 12:40 Analyzed 05/17/23 20:52 05/17/23 20:52	Dil Fac
Analyte	Result <49.9	Qualifier U unics (DRO) Qualifier U U U	RL 49.9 (GC) RL 49.9 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg mg/Kg		Prepared 05/17/23 12:36 05/17/23 12:36 05/17/23 12:36 05/17/23 12:36	Analyzed 05/17/23 20:52 05/17/23 20:52 05/17/23 20:52 05/17/23 20:52	
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate	Result	Qualifier U unics (DRO) Qualifier U U U	RL 49.9 (GC) RL 49.9 49.9 49.9 49.9 Limits	mg/Kg Unit mg/Kg mg/Kg mg/Kg		Prepared 05/17/23 12:36 05/17/23 12:36 05/17/23 12:36 05/17/23 12:36 Prepared	05/18/23 12:40 Analyzed 05/17/23 20:52 05/17/23 20:52 05/17/23 20:52 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	Result <49.9	Qualifier U Inics (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 mg/Kg		Prepared 05/17/23 12:36 05/17/23 12:36 05/17/23 12:36 05/17/23 12:36 Prepared 05/17/23 12:36	05/18/23 12:40 Analyzed 05/17/23 20:52 05/17/23 20:52 05/17/23 20:52 Analyzed 05/17/23 20:52	Dil Fac

Client Sample ID: FS02 Lab Sample ID: 890-4666-2

3090 F1

Date Collected: 05/15/23 10:10 Date Received: 05/15/23 16:17

Sample Depth: 0.5

Chloride

Method: SW846 8021B - Volatile Organic Compounds (GC)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		05/17/23 14:58	05/20/23 23:18	1
Toluene	<0.00201	U	0.00201	mg/Kg		05/17/23 14:58	05/20/23 23:18	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		05/17/23 14:58	05/20/23 23:18	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		05/17/23 14:58	05/20/23 23:18	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		05/17/23 14:58	05/20/23 23:18	1
Xylenes, Total	< 0.00402	U	0.00402	mg/Kg		05/17/23 14:58	05/20/23 23:18	1

24.9

mg/Kg

mg/Kg

Eurofins Carlsbad

05/18/23 17:55

Matrix: Solid

Client: Ensolum Project/Site: Cabo Wabo Federal 24 CTB SDG: 03D2024153

Client Sample ID: FS02 Date Collected: 05/15/23 10:10

Lab Sample ID: 890-4666-2 **Matrix: Solid**

Date Received: 05/15/23 16:17

Sample Depth: 0.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	05/17/23 14:58	05/20/23 23:18	1
1,4-Difluorobenzene (Surr)	82		70 - 130	05/17/23 14:58	05/20/23 23:18	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 05/22/23 16:14 mg/Kg

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

Dil Fac Result Qualifier RL Unit D Prepared Analyzed Total TPH <49.8 U 49.8 mg/Kg 05/18/23 12:40

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

Result Qualifier D Analyte RLUnit Prepared Analyzed Dil Fac <49.8 U 49.8 05/17/23 12:36 05/17/23 21:57 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.8 U 49.8 mg/Kg 05/17/23 12:36 05/17/23 21:57 C10-C28) 05/17/23 12:36 OII Range Organics (Over C28-C36) <49.8 U 49.8 mg/Kg 05/17/23 21:57 Total TPH <49.8 U 49.8 05/17/23 12:36 05/17/23 21:57 mg/Kg

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 97 70 - 130 05/17/23 12:36 05/17/23 21:57 o-Terphenyl 105 70 - 130 05/17/23 12:36 05/17/23 21:57

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte Result Qualifier RL Unit D Dil Fac Prepared Analyzed 25.2 05/18/23 18:39 Chloride 849 mg/Kg

Client Sample ID: FS03 Lab Sample ID: 890-4666-3 Matrix: Solid

Date Collected: 05/15/23 10:15 Date Received: 05/15/23 16:17

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		05/17/23 14:58	05/20/23 23:45	1
Toluene	<0.00202	U	0.00202	mg/Kg		05/17/23 14:58	05/20/23 23:45	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		05/17/23 14:58	05/20/23 23:45	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		05/17/23 14:58	05/20/23 23:45	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		05/17/23 14:58	05/20/23 23:45	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		05/17/23 14:58	05/20/23 23:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130			05/17/23 14:58	05/20/23 23:45	1
1,4-Difluorobenzene (Surr)	81		70 - 130			05/17/23 14:58	05/20/23 23:45	1
Method: TAL SOP Total BTEX	- Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			05/22/23 16:14	1

Matrix: Solid

Lab Sample ID: 890-4666-3

Job ID: 890-4666-1

Client: Ensolum Project/Site: Cabo Wabo Federal 24 CTB SDG: 03D2024153

Client Sample ID: FS03

Date Collected: 05/15/23 10:15 Date Received: 05/15/23 16:17

Sample Depth: 0.5

Method: SW846 8015 NM - Diesel F	Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/18/23 12:40	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/17/23 12:36	05/17/23 22:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/17/23 12:36	05/17/23 22:19	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/17/23 12:36	05/17/23 22:19	1
Total TPH	<50.0	U	50.0	mg/Kg		05/17/23 12:36	05/17/23 22:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130			05/17/23 12:36	05/17/23 22:19	1
o-Terphenvl	124		70 - 130			05/17/23 12:36	05/17/23 22:19	1

Method: EPA 300.0 - Anions, Ion Ch	romatography -	- Soluble					
Analyte	Result Qua	alifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	654	5.02	mg/Kg			05/18/23 18:44	1

Lab Sample ID: 890-4666-4 **Client Sample ID: FS04** Matrix: Solid

Date Collected: 05/15/23 10:20 Date Received: 05/15/23 16:17

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/17/23 14:58	05/21/23 00:11	1
Toluene	< 0.00199	U	0.00199	mg/Kg		05/17/23 14:58	05/21/23 00:11	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		05/17/23 14:58	05/21/23 00:11	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/17/23 14:58	05/21/23 00:11	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		05/17/23 14:58	05/21/23 00:11	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/17/23 14:58	05/21/23 00:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130			05/17/23 14:58	05/21/23 00:11	1
1,4-Difluorobenzene (Surr)	83		70 - 130			05/17/23 14:58	05/21/23 00:11	1
Method: TAL SOP Total BTEX - 1 Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Analyte Total BTEX	Result <0.00398	Qualifier U	0.00398	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 05/22/23 16:14	Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Diese	Result <0.00398	Qualifier U	0.00398 GC)	mg/Kg			05/22/23 16:14	1
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte	Result <0.00398 el Range Organ Result	Qualifier U ics (DRO) (C	0.00398 GC)	mg/Kg	<u>D</u>	Prepared Prepared	05/22/23 16:14 Analyzed	Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Diese	Result <0.00398	Qualifier U ics (DRO) (C	0.00398 GC)	mg/Kg			05/22/23 16:14	1
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte	Result <0.00398 Pl Range Organ Result <49.8	Qualifier U ics (DRO) (Qualifier U	0.00398 GC) RL 49.8	mg/Kg			05/22/23 16:14 Analyzed	1
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH	Result <0.00398 el Range Organ Result <49.8 sel Range Orga	Qualifier U ics (DRO) (Qualifier U	0.00398 GC) RL 49.8	mg/Kg			05/22/23 16:14 Analyzed	Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese	Result <0.00398 el Range Organ Result <49.8 sel Range Orga	Qualifier U ics (DRO) ((Qualifier U nics (DRO) Qualifier	0.00398 GC) RL 49.8	mg/Kg Unit mg/Kg	<u>D</u>	Prepared	05/22/23 16:14 Analyzed 05/18/23 12:40	Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	Result <0.00398 el Range Organ Result <49.8 sel Range Orga Result	Qualifier U ics (DRO) (C Qualifier U mics (DRO) Qualifier U	0.00398 GC) RL 49.8 (GC) RL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared	05/22/23 16:14 Analyzed 05/18/23 12:40 Analyzed	1

Client Sample Results

Job ID: 890-4666-1 Client: Ensolum Project/Site: Cabo Wabo Federal 24 CTB SDG: 03D2024153

Client Sample ID: FS04

Date Collected: 05/15/23 10:20 Date Received: 05/15/23 16:17

Sample Depth: 0.5

Lab Samp	le IC): 890	-4666-4
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Matrix: Solid

Matrix: Solid

	5
Dil Fac	
1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued) Result Qualifier Analyte RL Unit D Prepared Analyzed Total TPH <49.8 U 05/17/23 12:36 05/17/23 22:40 49.8 mg/Kg Dil Fac Surrogate %Recovery Qualifier Limits Prepared Analyzed 1-Chlorooctane 95 70 - 130 05/17/23 12:36 05/17/23 22:40

106 70 - 130 05/17/23 12:36 05/17/23 22:40 o-Terphenyl

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac 24.9 05/18/23 18:49 Chloride 2040 mg/Kg

Client Sample ID: FS05 Lab Sample ID: 890-4666-5

Date Collected: 05/15/23 10:25 Date Received: 05/15/23 16:17

Sample Depth: 0.5

Xylenes, Total

Method: SW846 8021B - Volatile Organic Compounds (GC)											
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa			
Benzene	<0.00199	U	0.00199	mg/Kg		05/17/23 14:58	05/21/23 00:38	-			
Toluene	<0.00199	U	0.00199	mg/Kg		05/17/23 14:58	05/21/23 00:38				
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/17/23 14:58	05/21/23 00:38				
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/17/23 14:58	05/21/23 00:38				
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/17/23 14:58	05/21/23 00:38				

Qualifier Limits Dil Fac Surrogate %Recovery Prepared Analyzed 136 S1+ 4-Bromofluorobenzene (Surr) 70 - 130 05/17/23 14:58 05/21/23 00:38 86 70 - 130 1,4-Difluorobenzene (Surr) 05/17/23 14:58 05/21/23 00:38

0.00398

mg/Kg

05/17/23 14:58

05/21/23 00:38

Method: TAL SOP Total BTEX - Total BTEX Calculation Analyte Result Qualifier RΙ D Unit Prepared Analyzed <0.00398 U Total BTEX 0.00398 05/22/23 16:14 mg/Kg

<0.00398 U

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 05/18/23 12:40 mg/Kg

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac <50.0 U mg/Kg 05/17/23 12:36 05/17/23 23:02 Gasoline Range Organics 50.0 (GRO)-C6-C10 <50.0 U 50.0 05/17/23 12:36 05/17/23 23:02 Diesel Range Organics (Over mg/Kg C10-C28) OII Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 05/17/23 12:36 05/17/23 23:02 Total TPH <50.0 U 50.0 mg/Kg 05/17/23 12:36 05/17/23 23:02

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 96 70 - 130 05/17/23 12:36 05/17/23 23:02 o-Terphenyl 106 05/17/23 12:36 70 - 130 05/17/23 23:02

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Dil Fac

Client: Ensolum Job ID: 890-4666-1 Project/Site: Cabo Wabo Federal 24 CTB

SDG: 03D2024153

Client Sample ID: FS05

Date Received: 05/15/23 16:17

Lab Sample ID: 890-4666-5 Date Collected: 05/15/23 10:25

Matrix: Solid

Sample Depth: 0.5

Method: EPA 300.0 - Anions, Ion Ch	hromatograph	y - Soluble						
Analyte	Result C	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1740		25.1	mg/Kg			05/18/23 18:55	5

Client Sample ID: FS06 Lab Sample ID: 890-4666-6

Date Collected: 05/15/23 10:30 Matrix: Solid

Date Received: 05/15/23 16:17

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200	mg/Kg		05/17/23 14:58	05/21/23 01:04	
Toluene	<0.00200	U	0.00200	mg/Kg		05/17/23 14:58	05/21/23 01:04	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/17/23 14:58	05/21/23 01:04	
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/17/23 14:58	05/21/23 01:04	
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/17/23 14:58	05/21/23 01:04	•
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/17/23 14:58	05/21/23 01:04	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	147	S1+	70 - 130			05/17/23 14:58	05/21/23 01:04	
1,4-Difluorobenzene (Surr)	96		70 - 130			05/17/23 14:58	05/21/23 01:04	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			05/22/23 16:14	1
Analyte Total TPH		Qualifier U			D	Prepared	Analyzed 05/18/23 12:40	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/18/23 12:40	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		05/17/23 12:36	05/17/23 23:23	1
5 5	<50.0 <50.0		50.0	mg/Kg		05/17/23 12:36 05/17/23 12:36		
(GRO)-C6-C10 Diesel Range Organics (Over		U					05/17/23 23:23	
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<50.0	U U	50.0	mg/Kg		05/17/23 12:36	05/17/23 23:23 05/17/23 23:23	1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<50.0 <50.0	U U	50.0 50.0	mg/Kg mg/Kg		05/17/23 12:36 05/17/23 12:36	05/17/23 23:23 05/17/23 23:23 05/17/23 23:23	1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH	<50.0 <50.0 <50.0	U U	50.0 50.0 50.0	mg/Kg mg/Kg		05/17/23 12:36 05/17/23 12:36 05/17/23 12:36	05/17/23 23:23 05/17/23 23:23 05/17/23 23:23 05/17/23 23:23	Dil Fac
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate	<50.0 <50.0 <50.0 %Recovery	U U	50.0 50.0 50.0 <i>Limits</i>	mg/Kg mg/Kg		05/17/23 12:36 05/17/23 12:36 05/17/23 12:36 Prepared	05/17/23 23:23 05/17/23 23:23 05/17/23 23:23 05/17/23 23:23 Analyzed	1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	<50.0 <50.0 <50.0 **Recovery 98 109	U U U Qualifier	50.0 50.0 50.0 Limits 70 - 130 70 - 130	mg/Kg mg/Kg		05/17/23 12:36 05/17/23 12:36 05/17/23 12:36 Prepared 05/17/23 12:36	05/17/23 23:23 05/17/23 23:23 05/17/23 23:23 05/17/23 23:23 Analyzed 05/17/23 23:23	Dil Fa

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05/18/23 19:11

24.8

mg/Kg

598

Chloride

Matrix: Solid

Lab Sample ID: 890-4666-7

Client Sample Results

Client: Ensolum Job ID: 890-4666-1
Project/Site: Cabo Wabo Federal 24 CTB SDG: 03D2024153

Client Sample ID: FS07

Date Collected: 05/15/23 10:35 Date Received: 05/15/23 16:17

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/17/23 14:58	05/21/23 01:31	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/17/23 14:58	05/21/23 01:31	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/17/23 14:58	05/21/23 01:31	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		05/17/23 14:58	05/21/23 01:31	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/17/23 14:58	05/21/23 01:31	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		05/17/23 14:58	05/21/23 01:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130			05/17/23 14:58	05/21/23 01:31	1
1,4-Difluorobenzene (Surr)	89		70 - 130			05/17/23 14:58	05/21/23 01:31	1

Method: TAL SOP Total BTEX - Tota	BTEX Cal	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			05/22/23 16:14	1

Method: SW846 8015 NM - Diesel Range	e Organ	ics (DRO) (G	SC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/18/23 12:40	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/17/23 12:36	05/17/23 23:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/17/23 12:36	05/17/23 23:45	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/17/23 12:36	05/17/23 23:45	1
Total TPH	<49.9	U	49.9	mg/Kg		05/17/23 12:36	05/17/23 23:45	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Anaryzea	DII Fac
1-Chlorooctane	95	70 - 130	05/17/23 12:36	05/17/23 23:45	1
o-Terphenyl	104	70 - 130	05/17/23 12:36	05/17/23 23:45	1
_					

Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Soluble	9					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1430		24.8	mg/Kg			05/18/23 19:16	5

Client Sample ID: FS08

Lab Sample ID: 890-4666-8

Date Collected: 05/15/23 10:40

Matrix: Solid

Date Received: 05/15/23 16:17

Sample Depth: 0.5

Method: SW846 8021B - Volatile C	rganic Comp	nic Compounds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		05/17/23 14:58	05/21/23 01:57	1
Toluene	<0.00202	U	0.00202	mg/Kg		05/17/23 14:58	05/21/23 01:57	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		05/17/23 14:58	05/21/23 01:57	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		05/17/23 14:58	05/21/23 01:57	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		05/17/23 14:58	05/21/23 01:57	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		05/17/23 14:58	05/21/23 01:57	1

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Client: Ensolum Project/Site: Cabo Wabo Federal 24 CTB SDG: 03D2024153

Client Sample ID: FS08 Lab Sample ID: 890-4666-8

Date Collected: 05/15/23 10:40 **Matrix: Solid** Date Received: 05/15/23 16:17

Sample Depth: 0.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130	05/17/23 14:58	05/21/23 01:57	1
1,4-Difluorobenzene (Surr)	94		70 - 130	05/17/23 14:58	05/21/23 01:57	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00403	U	0.00403	mg/Kg		_	05/22/23 16:14	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/18/23 12:40	1

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

				•					
1	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Gasoline Range Organics GRO)-C6-C10	<50.0	Ū	50.0	mg/Kg		05/17/23 12:36	05/18/23 00:06	1
	Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/17/23 12:36	05/18/23 00:06	1
(Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/17/23 12:36	05/18/23 00:06	1
T	Total TPH	<50.0	U	50.0	mg/Kg		05/17/23 12:36	05/18/23 00:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	05/17/23 12:36	05/18/23 00:06	1
o-Terphenyl	112		70 - 130	05/17/23 12:36	05/18/23 00:06	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	627		25.3	mg/Kg			05/18/23 19:22	5

Lab Sample ID: 890-4666-9 **Client Sample ID: FS09** Matrix: Solid

Date Collected: 05/15/23 10:45 Date Received: 05/15/23 16:17

Sample Depth: 0.5

Analyte

Total BTEX

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199	mg/Kg		05/17/23 14:58	05/21/23 02:24	-
Toluene	<0.00199	U	0.00199	mg/Kg		05/17/23 14:58	05/21/23 02:24	•
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/17/23 14:58	05/21/23 02:24	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/17/23 14:58	05/21/23 02:24	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		05/17/23 14:58	05/21/23 02:24	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/17/23 14:58	05/21/23 02:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130			05/17/23 14:58	05/21/23 02:24	1
1,4-Difluorobenzene (Surr)	94		70 - 130			05/17/23 14:58	05/21/23 02:24	1

Unit

mg/Kg

Prepared

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Analyzed

05/22/23 16:14

0.00398

Result Qualifier

<0.00398 U

Dil Fac

Matrix: Solid

Lab Sample ID: 890-4666-9

Client: Ensolum Job ID: 890-4666-1
Project/Site: Cabo Wabo Federal 24 CTB SDG: 03D2024153

Client Sample ID: FS09

Date Collected: 05/15/23 10:45 Date Received: 05/15/23 16:17

Sample Depth: 0.5

Method: SW846 8015 NM - Diesel F	lethod: SW846 8015 NM - Diesel Range Organics (DRO) (GC)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<49.9	U	49.9	mg/Kg			05/18/23 12:40	1	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/17/23 12:36	05/18/23 00:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/17/23 12:36	05/18/23 00:27	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/17/23 12:36	05/18/23 00:27	1
Total TPH	<49.9	U	49.9	mg/Kg		05/17/23 12:36	05/18/23 00:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130			05/17/23 12:36	05/18/23 00:27	1
o-Terphenyl	112		70 - 130			05/17/23 12:36	05/18/23 00:27	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	2620		25.3	mg/Kg			05/18/23 19:27	5

Client Sample ID: FS10

Date Collected: 05/15/23 10:50

Lab Sample ID: 890-4666-10

Matrix: Solid

Date Collected: 05/15/23 10:50 Date Received: 05/15/23 16:17

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/17/23 14:58	05/21/23 02:50	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/17/23 14:58	05/21/23 02:50	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/17/23 14:58	05/21/23 02:50	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/17/23 14:58	05/21/23 02:50	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/17/23 14:58	05/21/23 02:50	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/17/23 14:58	05/21/23 02:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130			05/17/23 14:58	05/21/23 02:50	1
1,4-Difluorobenzene (Surr)	90		70 - 130			05/17/23 14:58	05/21/23 02:50	1
Method: TAL SOP Total BTEX - T Analyte Total BTEX	Total BTEX Cald	Qualifier	RL	Unit ma/Ka	<u>D</u>	Prepared	Analyzed	
Method: TAL SOP Total BTEX - T Analyte	Cotal BTEX Cald Result <0.00398	Qualifier U	RL 0.00398	Unit mg/Kg	<u>D</u>			
Method: TAL SOP Total BTEX - T Analyte Total BTEX	Total BTEX Calc Result <0.00398	Qualifier U	RL 0.00398		<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BTEX - T Analyte Total BTEX Method: SW846 8015 NM - Diese	Total BTEX Calc Result <0.00398	Qualifier U ics (DRO) (Qualifier	RL 0.00398	mg/Kg		Prepared	Analyzed 05/22/23 16:14	1
Method: TAL SOP Total BTEX - T Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte	Cotal BTEX Calc Result <0.00398 El Range Organ Result <49.9	Qualifier U ics (DRO) (Qualifier U	RL 0.00398 GC) RL 49.9	mg/Kg		Prepared	Analyzed 05/22/23 16:14 Analyzed	1
Method: TAL SOP Total BTEX - T Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH	Fotal BTEX Calc Result <0.00398 Result <49.9 Result <49.9 Result <49.9	Qualifier U ics (DRO) (Qualifier U	RL 0.00398 GC) RL 49.9	mg/Kg		Prepared	Analyzed 05/22/23 16:14 Analyzed	1
Method: TAL SOP Total BTEX - T Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	Fotal BTEX Calc Result <0.00398 Result <49.9 Result <49.9 Result <49.9	Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier	RL 0.00398 GC) RL 49.9	mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 05/22/23 16:14 Analyzed 05/18/23 12:40	Dil Fac
Method: TAL SOP Total BTEX - T Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte	Fotal BTEX Calc Result <0.00398 Result <49.9 Result Range Organ Result	Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier U	RL 0.00398 GC) RL 49.9 (GC) RL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 05/22/23 16:14 Analyzed 05/18/23 12:40 Analyzed	Dil Fac

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Client: Ensolum Project/Site: Cabo Wabo Federal 24 CTB SDG: 03D2024153

Client Sample ID: FS10 Lab Sample ID: 890-4666-10

Date Collected: 05/15/23 10:50 Matrix: Solid Date Received: 05/15/23 16:17

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg		05/17/23 12:36	05/18/23 00:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130			05/17/23 12:36	05/18/23 00:48	1
o-Terphenyl	112		70 - 130			05/17/23 12:36	05/18/23 00:48	1
Method: EPA 300.0 - Anions,	lon Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	287		4.98	mg/Kg			05/18/23 19:32	1

Client Sample ID: SS02A Lab Sample ID: 890-4666-11 Matrix: Solid

Date Collected: 05/15/23 11:35 Date Received: 05/15/23 16:17

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/17/23 14:58	05/21/23 04:37	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/17/23 14:58	05/21/23 04:37	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/17/23 14:58	05/21/23 04:37	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/17/23 14:58	05/21/23 04:37	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/17/23 14:58	05/21/23 04:37	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/17/23 14:58	05/21/23 04:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130			05/17/23 14:58	05/21/23 04:37	1
1,4-Difluorobenzene (Surr)	81		70 - 130			05/17/23 14:58	05/21/23 04:37	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			05/22/23 16:14	1
•				mg/Kg			05/22/23 16:14	1
Total BTEX Method: SW846 8015 NM - Diese Analyte	el Range Organ			mg/Kg Unit		Prepared	05/22/23 16:14 Analyzed	1 Dil Fac
: Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (C	GC)		D	Prepared		
Method: SW846 8015 NM - Diese Analyte Total TPH	Result < 49.9	ics (DRO) (Gualifier	RL 49.9	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte	el Range Organ Result <49.9 sel Range Organ	ics (DRO) (Gualifier	RL 49.9	Unit	<u>D</u>	Prepared Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	el Range Organ Result <49.9 sel Range Organ	Qualifier Unics (DRO) Qualifier	RL 49.9 (GC)	Unit mg/Kg			Analyzed 05/18/23 12:40	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	el Range Organ Result <49.9 sel Range Organ Result	ics (DRO) ((Qualifier U nics (DRO) Qualifier U	RL 49.9 (GC)	Unit mg/Kg		Prepared	Analyzed 05/18/23 12:40 Analyzed	Dil Fac Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10	el Range Organ Result Result 49.9 Sel Range Orga Result 49.9 49.9	ics (DRO) ((Qualifier U nics (DRO) Qualifier U	(GC) RL 49.9 (GC) RL 49.9	Unit mg/Kg Unit mg/Kg		Prepared 05/17/23 12:36	Analyzed 05/18/23 12:40 Analyzed 05/18/23 01:31	Dil Fac Dil Fac 1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	el Range Organ Result Result 49.9 Result 49.9 449.9 449.9	ics (DRO) ((Qualifier U nics (DRO) Qualifier U U	(GC) RL 49.9 (GC) RL 49.9 49.9	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 05/17/23 12:36 05/17/23 12:36	Analyzed 05/18/23 12:40 Analyzed 05/18/23 01:31 05/18/23 01:31	Dil Fac Dil Fac 1 Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	el Range Organ Result <49.9 sel Range Orga Result <49.9 <49.9 <49.9	ics (DRO) ((Qualifier U nics (DRO) Qualifier U U U	GC) RL 49.9 (GC) RL 49.9 49.9 49.9	Unit mg/Kg Unit mg/Kg mg/Kg mg/Kg		Prepared 05/17/23 12:36 05/17/23 12:36 05/17/23 12:36	Analyzed 05/18/23 12:40 Analyzed 05/18/23 01:31 05/18/23 01:31	Dil Fac Dil Fac 1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	sel Range Organ Result <49.9 sel Range Orga Result <49.9 <49.9 <49.9	ics (DRO) ((Qualifier U nics (DRO) Qualifier U U U	GC) RL 49.9 (GC) RL 49.9 49.9 49.9 49.9	Unit mg/Kg Unit mg/Kg mg/Kg mg/Kg		Prepared 05/17/23 12:36 05/17/23 12:36 05/17/23 12:36 05/17/23 12:36	Analyzed 05/18/23 12:40 Analyzed 05/18/23 01:31 05/18/23 01:31 05/18/23 01:31	Dil Fac 1 Dil Fac 1 1 1

Client: Ensolum Project/Site: Cabo Wabo Federal 24 CTB SDG: 03D2024153

Client Sample ID: SS02A Lab Sample ID: 890-4666-11 Matrix: Solid

Date Collected: 05/15/23 11:35 Date Received: 05/15/23 16:17

Sample Depth: 1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	1050	25.2	mg/Kg			05/18/23 19:38	5		

Client Sample ID: SS03A Lab Sample ID: 890-4666-12 Matrix: Solid

Date Collected: 05/15/23 11:40 Date Received: 05/15/23 16:17

Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00201	U	0.00201	mg/Kg		05/17/23 14:58	05/21/23 05:04	
Toluene	<0.00201	U	0.00201	mg/Kg		05/17/23 14:58	05/21/23 05:04	
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		05/17/23 14:58	05/21/23 05:04	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		05/17/23 14:58	05/21/23 05:04	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		05/17/23 14:58	05/21/23 05:04	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		05/17/23 14:58	05/21/23 05:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130			05/17/23 14:58	05/21/23 05:04	1
1,4-Difluorobenzene (Surr)	90		70 - 130			05/17/23 14:58	05/21/23 05:04	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			05/22/23 16:14	1
Method: SW846 8015 NM - Diese	l Pango Organ	ice (DPO) (ec)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/18/23 12:40	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	<50.0	U	50.0	mg/Kg		05/17/23 12:36	05/18/23 01:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/17/23 12:36	05/18/23 01:52	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/17/23 12:36	05/18/23 01:52	1
Total TPH	<50.0	U	50.0	mg/Kg		05/17/23 12:36	05/18/23 01:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130			05/17/23 12:36	05/18/23 01:52	1
o-Terphenyl	112		70 - 130			05/17/23 12:36	05/18/23 01:52	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
•			D.	1114	_		A	
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

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05/18/23 19:54

25.1

mg/Kg

701

Chloride

Client: Ensolum Project/Site: Cabo Wabo Federal 24 CTB SDG: 03D2024153

Client Sample ID: SS08 Lab Sample ID: 890-4666-13 Date Collected: 05/15/23 11:45

Matrix: Solid

Date Received: 05/15/23 16:17 Sample Depth: 0.2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200	mg/Kg		05/17/23 14:58	05/21/23 05:30	
Toluene	<0.00200	U	0.00200	mg/Kg		05/17/23 14:58	05/21/23 05:30	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/17/23 14:58	05/21/23 05:30	
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		05/17/23 14:58	05/21/23 05:30	
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/17/23 14:58	05/21/23 05:30	
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		05/17/23 14:58	05/21/23 05:30	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130			05/17/23 14:58	05/21/23 05:30	
1,4-Difluorobenzene (Surr)	87		70 - 130			05/17/23 14:58	05/21/23 05:30	
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			05/22/23 16:14	
Analyte Total TPH	Result <49.8	Qualifier U	49.8 —	Unit mg/Kg	D	Prepared	Analyzed 05/18/23 12:40	Dil Fa
Total TPH	<49.8	U	49.8	mg/Kg			05/18/23 12:40	•
Method: SW846 8015B NM - Dies			(GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		05/17/23 12:36	05/18/23 02:13	•
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		05/17/23 12:36	05/18/23 02:13	•
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/17/23 12:36	05/18/23 02:13	
Total TPH	<49.8	U	49.8	mg/Kg		05/17/23 12:36	05/18/23 02:13	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	103		70 - 130			05/17/23 12:36	05/18/23 02:13	-
						05/17/23 12:36	05/18/23 02:13	

Client Sample ID: SS08A Lab Sample ID: 890-4666-14

RL

24.9

Unit

mg/Kg

D

Prepared

Analyzed

05/18/23 19:59

Dil Fac

Matrix: Solid

Result Qualifier

892

Date Collected: 05/15/23 11:50 Date Received: 05/15/23 16:17

Sample Depth: 1

Analyte

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/17/23 14:58	05/21/23 05:57	1
Toluene	< 0.00199	U	0.00199	mg/Kg		05/17/23 14:58	05/21/23 05:57	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/17/23 14:58	05/21/23 05:57	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/17/23 14:58	05/21/23 05:57	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		05/17/23 14:58	05/21/23 05:57	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/17/23 14:58	05/21/23 05:57	1

Matrix: Solid

Lab Sample ID: 890-4666-14

Client: Ensolum Job ID: 890-4666-1 SDG: 03D2024153 Project/Site: Cabo Wabo Federal 24 CTB

Client Sample ID: SS08A

Date Collected: 05/15/23 11:50 Date Received: 05/15/23 16:17

Sample Depth: 1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	143	S1+	70 - 130	05/17/23 14:58	05/21/23 05:57	1
1,4-Difluorobenzene (Surr)	90		70 - 130	05/17/23 14:58	05/21/23 05:57	1

Method: TAL SOP Total BTE	X - Total BTEX Calculation		
Analyto	Posult Qualifier	DI	Unit

D Prepared Analyzed Dil Fac Total BTEX <0.00398 U 0.00398 05/22/23 16:14 mg/Kg

Analyte Result Qualifier RLUnit D Prepared Analyzed Dil Fac Total TPH <49.9 U 49.9 05/18/23 12:40 mg/Kg

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/17/23 12:36	05/18/23 02:35	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/17/23 12:36	05/18/23 02:35	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/17/23 12:36	05/18/23 02:35	1
Total TPH	<49.9	U	49.9	mg/Kg		05/17/23 12:36	05/18/23 02:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130	05/17/23 12:36	05/18/23 02:35	1
o-Terphenyl	131	S1+	70 - 130	05/17/23 12:36	05/18/23 02:35	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	420		4.96	mg/Kg			05/18/23 20:15	1

Client Sample ID: SS09 Lab Sample ID: 890-4666-15

Date Collected: 05/15/23 11:55 Date Received: 05/15/23 16:17

Sample Depth: 0.2

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

Wethou. 344040 0021B - 4016	atile Organic Comp	ounus (GC))					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/17/23 14:58	05/21/23 06:24	1
Toluene	< 0.00199	U	0.00199	mg/Kg		05/17/23 14:58	05/21/23 06:24	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		05/17/23 14:58	05/21/23 06:24	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/17/23 14:58	05/21/23 06:24	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		05/17/23 14:58	05/21/23 06:24	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/17/23 14:58	05/21/23 06:24	1
Surrogate	%Recovery	Qualifier	l imits			Prenared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130	05/17/23 14:58	05/21/23 06:24	1
1,4-Difluorobenzene (Surr)	81		70 - 130	05/17/23 14:58	05/21/23 06:24	1

Method: TAL	SOP Tot	al RTFY _ T	otal RTFY	Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/22/23 16:14	1

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Matrix: Solid

Client: Ensolum Job ID: 890-4666-1 Project/Site: Cabo Wabo Federal 24 CTB SDG: 03D2024153

Client Sample ID: SS09 Lab Sample ID: 890-4666-15

Date Collected: 05/15/23 11:55 Matrix: Solid Date Received: 05/15/23 16:17

Sample Depth: 0.2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	78.3		50.0	mg/Kg			05/18/23 12:40	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	<50.0	U	50.0	mg/Kg		05/17/23 12:36	05/18/23 02:56	1
Diesel Range Organics (Over C10-C28)	78.3		50.0	mg/Kg		05/17/23 12:36	05/18/23 02:56	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/17/23 12:36	05/18/23 02:56	1
Total TPH	78.3		50.0	mg/Kg		05/17/23 12:36	05/18/23 02:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130			05/17/23 12:36	05/18/23 02:56	1
o-Terphenyl	130		70 - 130			05/17/23 12:36	05/18/23 02:56	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: SS09A Lab Sample ID: 890-4666-16

25.2

1740

mg/Kg

Date Collected: 05/15/23 12:00 **Matrix: Solid**

Date Received: 05/15/23 16:17

Sample Depth: 1

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/17/23 14:58	05/21/23 06:51	1
Toluene	< 0.00199	U	0.00199	mg/Kg		05/17/23 14:58	05/21/23 06:51	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		05/17/23 14:58	05/21/23 06:51	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/17/23 14:58	05/21/23 06:51	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		05/17/23 14:58	05/21/23 06:51	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/17/23 14:58	05/21/23 06:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130			05/17/23 14:58	05/21/23 06:51	1
=	85		70 - 130			05/17/23 14:58	05/21/23 06:51	1
1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX Analyte Total BTEX	- Total BTEX Cald	Qualifier	RL 0.00398	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 05/22/23 16:14	Dil Fac
Method: TAL SOP Total BTEX	- Total BTEX Calc	Qualifier U	RL 0.00398		<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX	- Total BTEX Calc Result <0.00398 sel Range Organ	Qualifier U	RL 0.00398		<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Dies	- Total BTEX Calc Result <0.00398 sel Range Organ	Qualifier U ics (DRO) (Qualifier	RL 0.00398	mg/Kg		Prepared	Analyzed 05/22/23 16:14	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die: Analyte	- Total BTEX Calc Result <0.00398 sel Range Organ Result <49.8	Qualifier U ics (DRO) (Qualifier U	RL 0.00398 GC) RL 49.8	mg/Kg		Prepared	Analyzed 05/22/23 16:14 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die: Analyte Total TPH	- Total BTEX Calc Result <0.00398 sel Range Organ Result <49.8	Qualifier U ics (DRO) (Qualifier U	RL 0.00398 GC) RL 49.8	mg/Kg		Prepared	Analyzed 05/22/23 16:14 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Dies Analyte Total TPH Method: SW846 8015B NM - Dies	- Total BTEX Calc Result <0.00398 sel Range Organ Result <49.8	Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier	RL 0.00398 GC) RL 49.8	mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 05/22/23 16:14 Analyzed 05/18/23 12:40	Dil Fac Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Dies Analyte Total TPH Method: SW846 8015B NM - Di Analyte Gasoline Range Organics	- Total BTEX Calc Result <0.00398 sel Range Organ Result <49.8 sesel Range Orga Result Result Result Result Result Result Result Result	Qualifier U ics (DRO) (Compared to the property of the proper	RL 0.00398 GC) RL 49.8 (GC) RL	mg/Kg Unit mg/Kg Unit	<u>D</u>	Prepared Prepared	Analyzed 05/22/23 16:14 Analyzed 05/18/23 12:40 Analyzed	Dil Fac

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05/18/23 20:20

Client: Ensolum Project/Site: Cabo Wabo Federal 24 CTB SDG: 03D2024153

Client Sample ID: SS09A Lab Sample ID: 890-4666-16 Date Collected: 05/15/23 12:00

Matrix: Solid Date Received: 05/15/23 16:17

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	Ū	49.8	mg/Kg		05/17/23 12:36	05/18/23 03:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130			05/17/23 12:36	05/18/23 03:18	1
o-Terphenyl	111		70 - 130			05/17/23 12:36	05/18/23 03:18	1
Method: EPA 300.0 - Anions, lo	n Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	804		25.1	mg/Kg			05/18/23 20:26	5

Client Sample ID: SS10 Lab Sample ID: 890-4666-17 Matrix: Solid

Date Collected: 05/15/23 12:05

Sample Depth: 0.2

Date Received: 05/15/23 16:17

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/17/23 14:58	05/21/23 07:19	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/17/23 14:58	05/21/23 07:19	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/17/23 14:58	05/21/23 07:19	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/17/23 14:58	05/21/23 07:19	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/17/23 14:58	05/21/23 07:19	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/17/23 14:58	05/21/23 07:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130			05/17/23 14:58	05/21/23 07:19	1
1,4-Difluorobenzene (Surr)	85		70 - 130			05/17/23 14:58	05/21/23 07:19	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			05/22/23 16:14	1
Total BTEX Method: SW846 8015 NM - Diese Analyte	el Range Organ			mg/Kg Unit		Prepared	05/22/23 16:14 Analyzed	1 Dil Fac
: Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (C	GC)		<u>D</u>	Prepared		
Method: SW846 8015 NM - Diese Analyte Total TPH	Result <49.8	ics (DRO) (0 Qualifier	RL 49.8	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte	el Range Organ Result <49.8 sel Range Organ	ics (DRO) (0 Qualifier	RL 49.8	Unit	<u>D</u>	Prepared Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	el Range Organ Result <49.8 sel Range Organ	ics (DRO) ((Qualifier Umics (DRO)) Qualifier	RL 49.8 (GC)	Unitmg/Kg			Analyzed 05/18/23 12:40	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	el Range Organ Result <49.8 sel Range Organ Result	ics (DRO) (O Qualifier U	(GC) RL RL	Unit mg/Kg		Prepared	Analyzed 05/18/23 12:40 Analyzed	Dil Fac Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	el Range Organ Result Result 49.8 Result 49.8 49.8	ics (DRO) (Control of the control of	(GC) RL 49.8 (GC) RL 49.8	Unit mg/Kg Unit mg/Kg		Prepared 05/17/23 12:36	Analyzed 05/18/23 12:40 Analyzed 05/18/23 03:39	Dil Fac Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	el Range Organ Result Result Result Result 49.8 49.8 49.8	ics (DRO) (CONTINUE OF CONTINUE OF CONTI	(GC) RL 49.8 (GC) RL 49.8 49.8	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 05/17/23 12:36 05/17/23 12:36	Analyzed 05/18/23 12:40 Analyzed 05/18/23 03:39 05/18/23 03:39	Dil Fac Dil Fac 1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10	el Range Organ Result <49.8 sel Range Orga Result <49.8 <49.8 <49.8	ics (DRO) (CONTINUE OF CONTINUE OF CONTI	GC) RL 49.8 (GC) RL 49.8 49.8 49.8	Unit mg/Kg Unit mg/Kg mg/Kg mg/Kg		Prepared 05/17/23 12:36 05/17/23 12:36 05/17/23 12:36	Analyzed 05/18/23 12:40 Analyzed 05/18/23 03:39 05/18/23 03:39	Dil Fac Dil Fac 1 1 1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	el Range Organ Result <49.8 sel Range Orga Result <49.8 <49.8 <49.8 <49.8	ics (DRO) (CONTINUE OF CONTINUE OF CONTI	GC) RL 49.8 (GC) RL 49.8 49.8 49.8 49.8 49.8	Unit mg/Kg Unit mg/Kg mg/Kg mg/Kg		Prepared 05/17/23 12:36 05/17/23 12:36 05/17/23 12:36 05/17/23 12:36	Analyzed 05/18/23 12:40 Analyzed 05/18/23 03:39 05/18/23 03:39 05/18/23 03:39	Dil Fac Dil Fac 1 1 1 1

Client Sample Results

Client: Ensolum Job ID: 890-4666-1 Project/Site: Cabo Wabo Federal 24 CTB SDG: 03D2024153

Client Sample ID: SS10 Lab Sample ID: 890-4666-17

Date Collected: 05/15/23 12:05 Matrix: Solid Date Received: 05/15/23 16:17

Sample Depth: 0.2

Method: EPA 300.0 - Anions, Ion Ch	romatography - Solub	le					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	635	4.99	mg/Kg			05/18/23 20:31	1

Client Sample ID: SS10A Lab Sample ID: 890-4666-18 Matrix: Solid

Date Collected: 05/15/23 12:10 Date Received: 05/15/23 16:17

Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00201	U	0.00201	mg/Kg		05/17/23 14:58	05/21/23 07:46	
Toluene	<0.00201	U	0.00201	mg/Kg		05/17/23 14:58	05/21/23 07:46	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		05/17/23 14:58	05/21/23 07:46	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		05/17/23 14:58	05/21/23 07:46	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		05/17/23 14:58	05/21/23 07:46	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		05/17/23 14:58	05/21/23 07:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130			05/17/23 14:58	05/21/23 07:46	1
1,4-Difluorobenzene (Surr)	87		70 - 130			05/17/23 14:58	05/21/23 07:46	1
Method: TAL SOP Total BTEX -	Total BTEX Cald	ulation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			05/22/23 16:14	1
Method: SW846 8015 NM - Dies Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/18/23 12:40	1
Method: SW846 8015B NM - Die	esel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared		
Gasoline Range Organics	<49.9	11					Analyzed	Dil Fac
	\49.9	U	49.9	mg/Kg		05/17/23 12:36	Analyzed 05/18/23 04:00	Dil Fac
(GRO)-C6-C10 Diesel Range Organics (Over	<49.9		49.9 49.9	mg/Kg		05/17/23 12:36 05/17/23 12:36		
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28)		U					05/18/23 04:00	1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/17/23 12:36	05/18/23 04:00 05/18/23 04:00	1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	<49.9 <49.9	U U	49.9 49.9	mg/Kg mg/Kg		05/17/23 12:36 05/17/23 12:36	05/18/23 04:00 05/18/23 04:00 05/18/23 04:00	1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate	<49.9 <49.9 <49.9	U U	49.9 49.9 49.9	mg/Kg mg/Kg		05/17/23 12:36 05/17/23 12:36 05/17/23 12:36	05/18/23 04:00 05/18/23 04:00 05/18/23 04:00 05/18/23 04:00	1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	<49.9 <49.9 <49.9 %Recovery	U U	49.9 49.9 49.9 <i>Limits</i>	mg/Kg mg/Kg		05/17/23 12:36 05/17/23 12:36 05/17/23 12:36 Prepared	05/18/23 04:00 05/18/23 04:00 05/18/23 04:00 05/18/23 04:00 Analyzed	Dil Fac
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	<49.9 <49.9 <49.9 %Recovery 119 129	U U U Qualifier	49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg mg/Kg		05/17/23 12:36 05/17/23 12:36 05/17/23 12:36 Prepared 05/17/23 12:36	05/18/23 04:00 05/18/23 04:00 05/18/23 04:00 05/18/23 04:00 Analyzed 05/18/23 04:00	1 1 1 Dil Fac
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	<49.9 <49.9 <49.9 **Recovery 119 129 n Chromatograp	U U U Qualifier	49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg mg/Kg	D_	05/17/23 12:36 05/17/23 12:36 05/17/23 12:36 Prepared 05/17/23 12:36	05/18/23 04:00 05/18/23 04:00 05/18/23 04:00 05/18/23 04:00 Analyzed 05/18/23 04:00	Dil Fac

Matrix: Solid

Lab Sample ID: 890-4666-19

Client Sample Results

Client: Ensolum Job ID: 890-4666-1
Project/Site: Cabo Wabo Federal 24 CTB SDG: 03D2024153

Client Sample ID: SS11

Date Collected: 05/15/23 12:15 Date Received: 05/15/23 16:17

Sample Depth: 0.2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/17/23 14:58	05/21/23 08:14	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/17/23 14:58	05/21/23 08:14	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/17/23 14:58	05/21/23 08:14	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		05/17/23 14:58	05/21/23 08:14	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/17/23 14:58	05/21/23 08:14	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		05/17/23 14:58	05/21/23 08:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130			05/17/23 14:58	05/21/23 08:14	1
1,4-Difluorobenzene (Surr)	86		70 - 130			05/17/23 14:58	05/21/23 08:14	1
Method: TAL SOP Total BTEX	- Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			05/22/23 16:14	1
- Method: SW846 8015 NM - Die	esel Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			05/18/23 12:40	1
- Method: SW846 8015B NM - D	iesel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		05/17/23 12:36	05/18/23 04:22	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		05/17/23 12:36	05/18/23 04:22	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/17/23 12:36	05/18/23 04:22	1
Total TPH	<49.8	U	49.8	mg/Kg		05/17/23 12:36	05/18/23 04:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130			05/17/23 12:36	05/18/23 04:22	1
o-Terphenyl	94		70 - 130			05/17/23 12:36	05/18/23 04:22	1

Method: EPA 300.0 - Anions, Ion C	hromatograph	ny - Soluble	9					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1400		25.0	mg/Kg			05/19/23 10:59	5

Client Sample ID: SS11A Lab Sample ID: 890-4666-20

Date Collected: 05/15/23 12:20 Date Received: 05/15/23 16:17

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/17/23 14:58	05/21/23 08:41	1
Toluene	< 0.00199	U	0.00199	mg/Kg		05/17/23 14:58	05/21/23 08:41	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/17/23 14:58	05/21/23 08:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/17/23 14:58	05/21/23 08:41	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		05/17/23 14:58	05/21/23 08:41	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/17/23 14:58	05/21/23 08:41	1

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Matrix: Solid

Client: Ensolum Project/Site: Cabo Wabo Federal 24 CTB SDG: 03D2024153

Client Sample ID: SS11A Lab Sample ID: 890-4666-20

Date Collected: 05/15/23 12:20 Matrix: Solid Date Received: 05/15/23 16:17

Sample Depth: 1

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130			05/17/23 14:58	05/21/23 08:41	1
1,4-Difluorobenzene (Surr)	85		70 - 130			05/17/23 14:58	05/21/23 08:41	1
_ Method: TAL SOP Total BTEX - To	otal BTEX Calc	ulation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/22/23 16:14	1
_ Method: SW846 8015 NM - Diesel	Range Organi	ics (DRO) (0	3C)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	54.6		49.9	mg/Kg			05/18/23 12:40	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		05/17/23 12:36	05/18/23 04:43	1
Diesel Range Organics (Over C10-C28)	54.6		49.9	mg/Kg		05/17/23 12:36	05/18/23 04:43	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/17/23 12:36	05/18/23 04:43	1
Total TPH	54.6		49.9	mg/Kg		05/17/23 12:36	05/18/23 04:43	1

Surrogate	%Recovery Qua	alifier Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103	70 - 130	05/17/23 12:36	05/18/23 04:43	1
o-Terphenyl	110	70 - 130	05/17/23 12:36	05/18/23 04:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac 4.96 05/19/23 11:04 Chloride 246 mg/Kg

Client Sample ID: SS12 Lab Sample ID: 890-4666-21 Date Collected: 05/15/23 12:25 **Matrix: Solid**

Date Received: 05/15/23 16:17

Sample Depth: 0.2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *+	0.00199	mg/Kg		05/16/23 15:29	05/18/23 13:39	1
Toluene	<0.00199	U *+	0.00199	mg/Kg		05/16/23 15:29	05/18/23 13:39	1
Ethylbenzene	<0.00199	U *+	0.00199	mg/Kg		05/16/23 15:29	05/18/23 13:39	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398	mg/Kg		05/16/23 15:29	05/18/23 13:39	1
o-Xylene	<0.00199	U *+	0.00199	mg/Kg		05/16/23 15:29	05/18/23 13:39	1
Xylenes, Total	<0.00398	U *+	0.00398	mg/Kg		05/16/23 15:29	05/18/23 13:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	190	S1+	70 - 130			05/16/23 15:29	05/18/23 13:39	1
1,4-Difluorobenzene (Surr)	70		70 - 130			05/16/23 15:29	05/18/23 13:39	1
Method: TAL SOP Total BTEX	- Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	П	0.00398	mg/Kg			05/18/23 15:49	1

Client: Ensolum Job ID: 890-4666-1 Project/Site: Cabo Wabo Federal 24 CTB SDG: 03D2024153

Client Sample ID: SS12 Lab Sample ID: 890-4666-21 Matrix: Solid

Date Collected: 05/15/23 12:25 Date Received: 05/15/23 16:17

Sample Depth: 0.2

Method: SW846 8015 NM - Diesel F	Range Organ	ics (DRO) (GO	C)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/19/23 10:11	1
Method: SW846 8015B NM - Diesel	Range Orga	nics (DRO) (0	GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		05/18/23 08:49	05/18/23 19:01	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		05/18/23 08:49	05/18/23 19:01	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/18/23 08:49	05/18/23 19:01	1
Total TPH	<49.9	U	49.9	ma/Ka		05/18/23 08:49	05/18/23 19:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	131	S1+	70 - 130	05/18/23 08:49	05/18/23 19:01	1
o-Terphenyl	100		70 - 130	05/18/23 08:49	05/18/23 19:01	1

Method: EPA 300.0 - Anions, Ion Cl	romatography - Soluble)					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2260	25.0	mg/Kg			05/18/23 16:51	5

Client Sample ID: SS12A Lab Sample ID: 890-4666-22 Matrix: Solid

Date Collected: 05/15/23 12:30 Date Received: 05/15/23 16:17

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *+	0.00199	mg/Kg		05/16/23 15:29	05/18/23 14:05	1
Toluene	< 0.00199	U *+	0.00199	mg/Kg		05/16/23 15:29	05/18/23 14:05	1
Ethylbenzene	< 0.00199	U *+	0.00199	mg/Kg		05/16/23 15:29	05/18/23 14:05	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398	mg/Kg		05/16/23 15:29	05/18/23 14:05	1
o-Xylene	< 0.00199	U *+	0.00199	mg/Kg		05/16/23 15:29	05/18/23 14:05	1
Xylenes, Total	<0.00398	U *+	0.00398	mg/Kg		05/16/23 15:29	05/18/23 14:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	217	S1+	70 - 130			05/16/23 15:29	05/18/23 14:05	1
1,4-Difluorobenzene (Surr)	83		70 - 130			05/16/23 15:29	05/18/23 14:05	1
Method: TAL SOP Total BTEX Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed 05/18/23 15:49	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX	<0.00398	Qualifier U	0.00398	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 05/18/23 15:49	Dil Fac
Method: TAL SOP Total BTEX Analyte	Result <0.00398	Qualifier U	0.00398		<u>D</u>	Prepared Prepared		Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Dies	Result <0.00398	Qualifier U ics (DRO) (Qualifier	0.00398 GC)	mg/Kg			05/18/23 15:49	1
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Dies Analyte	Result <0.00398 sel Range Organ Result <50.0	Qualifier U ics (DRO) (Qualifier U	0.00398 GC) RL 50.0	mg/Kg			05/18/23 15:49 Analyzed	1
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die: Analyte Total TPH	Result <0.00398 sel Range Organ Result <50.0 esel Range Orga	Qualifier U ics (DRO) (Qualifier U	0.00398 GC) RL 50.0	mg/Kg			05/18/23 15:49 Analyzed	1
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Dies Analyte Total TPH Method: SW846 8015B NM - Diese	Result <0.00398 sel Range Organ Result <50.0 esel Range Orga	Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier	0.00398 GC) RL 50.0 (GC)	mg/Kg Unit mg/Kg	<u>D</u>	Prepared	05/18/23 15:49 Analyzed 05/19/23 10:11	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Dies Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result <0.00398 sel Range Organ Result <50.0 esel Range Orga Result	Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier U	0.00398 GC) RL 50.0 (GC) RL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared	05/18/23 15:49 Analyzed 05/19/23 10:11 Analyzed	Dil Fac Dil Fac

Client Sample Results

Client: Ensolum Job ID: 890-4666-1
Project/Site: Cabo Wabo Federal 24 CTB SDG: 03D2024153

Client Sample ID: SS12A Lab Sample ID: 890-4666-22

Date Collected: 05/15/23 12:30 Matrix: Solid
Date Received: 05/15/23 16:17

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg		05/18/23 08:49	05/18/23 19:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	128		70 - 130			05/18/23 08:49	05/18/23 19:23	1
o-Terphenyl	98		70 - 130			05/18/23 08:49	05/18/23 19:23	1
Method: EPA 300.0 - Ani	ons, Ion Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	732		4.98	mg/Kg			05/18/23 16:56	

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Surrogate Summary

Client: Ensolum Job ID: 890-4666-1
Project/Site: Cabo Wabo Federal 24 CTB SDG: 03D2024153

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-4660-A-1-G MS	Matrix Spike	203 S1+	103	
890-4660-A-1-H MSD	Matrix Spike Duplicate	173 S1+	91	
890-4666-1	FS01	114	79	
890-4666-1 MS	FS01	124	122	
890-4666-1 MSD	FS01	128	146 S1+	
890-4666-2	FS02	122	82	
890-4666-3	FS03	119	81	
890-4666-4	FS04	122	83	
890-4666-5	FS05	136 S1+	86	
890-4666-6	FS06	147 S1+	96	
890-4666-7	FS07	127	89	
890-4666-8	FS08	137 S1+	94	
890-4666-9	FS09	133 S1+	94	
890-4666-10	FS10	131 S1+	90	
890-4666-11	SS02A	124	81	
890-4666-12	SS03A	127	90	
890-4666-13	SS08	136 S1+	87	
890-4666-14	SS08A	143 S1+	90	
890-4666-15	SS09	127	81	
890-4666-16	SS09A	131 S1+	85	
890-4666-17	SS10	125	85	
890-4666-18	SS10A	120	87	
890-4666-19	SS11	134 S1+	86	
890-4666-20	SS11A	133 S1+	85	
890-4666-21	SS12	190 S1+	70	
890-4666-22	SS12A	217 S1+	83	
LCS 880-53497/1-A	Lab Control Sample	196 S1+	93	
LCS 880-53605/1-A	Lab Control Sample	106	94	
LCSD 880-53497/2-A	Lab Control Sample Dup	198 S1+	88	
LCSD 880-53605/2-A	Lab Control Sample Dup	119	94	
MB 880-53497/5-A	Method Blank	106	76	
MB 880-53508/5-A	Method Blank	102	80	
MB 880-53604/5-A	Method Blank	67 S1-	82	
MB 880-53605/5-A	Method Blank	75	84	
Surrogate Legend				

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

_			
		1001	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-28483-A-33-C MS	Matrix Spike	124	85
880-28483-A-33-D MSD	Matrix Spike Duplicate	127	86
890-4666-1	FS01	102	114
890-4666-1 MS	FS01	110	108
890-4666-1 MSD	FS01	115	114

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Surrogate Summary

Client: Ensolum Job ID: 890-4666-1 Project/Site: Cabo Wabo Federal 24 CTB SDG: 03D2024153

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
390-4666-2	FS02	97	105	
390-4666-3	FS03	112	124	
390-4666-4	FS04	95	106	
390-4666-5	FS05	96	106	
390-4666-6	FS06	98	109	
390-4666-7	FS07	95	104	
390-4666-8	FS08	100	112	
390-4666-9	FS09	100	112	
390-4666-10	FS10	102	112	
90-4666-11	SS02A	101	109	
390-4666-12	SS03A	102	112	
90-4666-13	SS08	103	112	
90-4666-14	SS08A	123	131 S1+	
390-4666-15	SS09	122	130	
390-4666-16	SS09A	103	111	
90-4666-17	SS10	100	110	
90-4666-18	SS10A	119	129	
90-4666-19	SS11	85	94	
90-4666-20	SS11A	103	110	
90-4666-21	SS12	131 S1+	100	
90-4666-22	SS12A	128	98	
CS 880-53599/2-A	Lab Control Sample	91	101	
CS 880-53630/2-A	Lab Control Sample	100	77	
.CSD 880-53599/3-A	Lab Control Sample Dup	79	84	
.CSD 880-53630/3-A	Lab Control Sample Dup	100	76	
	Method Blank	145 S1+	162 S1+	
/IB 880-53599/1-A				

OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-4666-1 Project/Site: Cabo Wabo Federal 24 CTB SDG: 03D2024153

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-53497/5-A

Lab Sample ID: LCS 880-53497/1-A

Matrix: Solid

Analysis Batch: 53588

Matrix: Solid Analysis Batch: 53588 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 53497

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/16/23 15:29	05/18/23 04:11	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/16/23 15:29	05/18/23 04:11	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/16/23 15:29	05/18/23 04:11	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/16/23 15:29	05/18/23 04:11	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/16/23 15:29	05/18/23 04:11	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/16/23 15:29	05/18/23 04:11	1

MB MB

MD MD

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	05/16/23 15:29	05/18/23 04:11	1
1.4-Difluorobenzene (Surr)	76		70 - 130	05/16/23 15:29	05/18/23 04:11	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 53497

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits 0.1501 *+ Benzene 0.100 mg/Kg 150 70 - 130 Toluene 0.100 0.1589 *+ mg/Kg 159 70 - 130 0.100 Ethylbenzene 0.1429 *+ mg/Kg 143 70 - 130 0.200 0.3204 *+ 160 70 - 130 m-Xylene & p-Xylene mg/Kg 0.100 70 - 130 o-Xylene 0.1494 *+ mg/Kg 149

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	196	S1+	70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: LCSD 880-53497/2-A **Client Sample ID: Lab Control Sample Dup**

Matrix: Solid

Analysis Batch: 53588

Prep Type: Total/NA Prep Batch: 53497

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1376	*+	mg/Kg		138	70 - 130	9	35
Toluene	0.100	0.1387	*+	mg/Kg		139	70 - 130	14	35
Ethylbenzene	0.100	0.1324	*+	mg/Kg		132	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.2988	*+	mg/Kg		149	70 - 130	7	35
o-Xylene	0.100	0.1354	*+	mg/Kg		135	70 - 130	10	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	198	S1+	70 - 130
1,4-Difluorobenzene (Surr)	88		70 - 130

Lab Sample ID: 890-4660-A-1-G MS

Matrix: Solid

Analysis Batch: 53588

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

Prep Batch: 53497

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00202	U *+ F1	0.0998	0.1372	F1	mg/Kg		137	70 - 130	
Toluene	<0.00202	U *+ F1	0.0998	0.1371	F1	mg/Kg		137	70 - 130	

QC Sample Results

Client: Ensolum Job ID: 890-4666-1 Project/Site: Cabo Wabo Federal 24 CTB SDG: 03D2024153

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

Lab Sample ID: 890-4660-A-1-G MS

Matrix: Solid

Analysis Batch: 53588

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 53497

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00202	U *+	0.0998	0.1191		mg/Kg		119	70 - 130	
m-Xylene & p-Xylene	<0.00404	U *+ F1	0.200	0.2887	F1	mg/Kg		145	70 - 130	
o-Xylene	<0.00202	U *+ F1	0.0998	0.1356	F1	mg/Kg		136	70 - 130	

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	203	S1+	70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Client Sample ID: Matrix Spike Duplicate

70 - 130

124

mg/Kg

Prep Type: Total/NA

Prep Batch: 53497

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Lab Sample ID: 890-4660-A-1-H MSD **Matrix: Solid**

Analysis Batch: 53588

Sample Sample Spike MSD MSD RPD Result Qualifier Added Result Qualifier %Rec Limits RPD Limit Analyte Unit 0.0990 Benzene <0.00202 U*+ F1 0.1284 mg/Kg 130 70 - 130 7 35 Toluene 0.0990 0.1357 F1 137 35 <0.00202 U*+F1 mg/Kg 70 - 130 Ethylbenzene <0.00202 U*+ 0.0990 0.1188 mg/Kg 120 70 - 130 0 35 m-Xylene & p-Xylene <0.00404 U*+ F1 0.198 0.2600 F1 131 70 - 130 35 mg/Kg 10

0.1225

0.0990

MSD MSD

<0.00202 U*+ F1

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	173	S1+	70 - 130
1.4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: MB 880-53508/5-A

Matrix: Solid

o-Xylene

Analysis Batch: 53588

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 53508

MB MB

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/16/23 16:07	05/17/23 14:52	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/16/23 16:07	05/17/23 14:52	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/16/23 16:07	05/17/23 14:52	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/16/23 16:07	05/17/23 14:52	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/16/23 16:07	05/17/23 14:52	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/16/23 16:07	05/17/23 14:52	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	05/16/23 16:07	05/17/23 14:52	1
1,4-Difluorobenzene (Surr)	80		70 - 130	05/16/23 16:07	05/17/23 14:52	1

Lab Sample ID: MB 880-53604/5-A

Matrix: Solid

Analysis Batch: 53790

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 53604

	INID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/17/23 14:55	05/20/23 08:45	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/17/23 14:55	05/20/23 08:45	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/17/23 14:55	05/20/23 08:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/17/23 14:55	05/20/23 08:45	1

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Released to Imaging: 5/29/2024 10:49:53 AM

Client: Ensolum

Job ID: 890-4666-1 SDG: 03D2024153 Project/Site: Cabo Wabo Federal 24 CTB

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

Lab Sample ID: MB 880-53604/5-A

Matrix: Solid

Analysis Batch: 53790

Prep Type: Total/NA

Prep Batch: 53604

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200	mg/Kg	_	05/17/23 14:55	05/20/23 08:45	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/17/23 14:55	05/20/23 08:45	1
	МВ	МВ						

мв мв

	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	4-Bromofluorobenzene (Surr)	67	S1-	70 - 130	05/17/23 14:55	05/20/23 08:45	1
l	1,4-Difluorobenzene (Surr)	82		70 - 130	05/17/23 14:55	05/20/23 08:45	1

Lab Sample ID: MB 880-53605/5-A

Matrix: Solid

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 53605 Analysis Batch: 53790 мв мв

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/17/23 14:58	05/20/23 22:25	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/17/23 14:58	05/20/23 22:25	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/17/23 14:58	05/20/23 22:25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/17/23 14:58	05/20/23 22:25	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/17/23 14:58	05/20/23 22:25	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/17/23 14:58	05/20/23 22:25	1

мв мв

Surrogate	%Recovery Qualifie	r Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75	70 - 130	05/17/23 14:58	05/20/23 22:25	1
1,4-Difluorobenzene (Surr)	84	70 - 130	05/17/23 14:58	05/20/23 22:25	1

Lab Sample ID: LCS 880-53605/1-A

Matrix: Solid

Analysis Batch: 53790

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 53605

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1074		mg/Kg		107	70 - 130	
Toluene	0.100	0.09378		mg/Kg		94	70 - 130	
Ethylbenzene	0.100	0.08857		mg/Kg		89	70 - 130	
m-Xylene & p-Xylene	0.200	0.1837		mg/Kg		92	70 - 130	
o-Xylene	0.100	0.09267		mg/Kg		93	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifi	er Limits
4-Bromofluorobenzene (Surr)	106	70 - 130
1,4-Difluorobenzene (Surr)	94	70 - 130

Lab Sample ID: LCSD 880-53605/2-A

Matrix: Solid Analysis Batch: 53790 Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 53605

•	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1203		mg/Kg		120	70 - 130	11	35
Toluene	0.100	0.1031		mg/Kg		103	70 - 130	10	35
Ethylbenzene	0.100	0.09761		mg/Kg		98	70 - 130	10	35
m-Xylene & p-Xylene	0.200	0.2022		mg/Kg		101	70 - 130	10	35
o-Xylene	0.100	0.09818		mg/Kg		98	70 - 130	6	35

QC Sample Results

Client: Ensolum Job ID: 890-4666-1 SDG: 03D2024153 Project/Site: Cabo Wabo Federal 24 CTB

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

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 890-4666-1 MS Client Sample ID: FS01 Prep Type: Total/NA **Matrix: Solid Analysis Batch: 53790** Prep Batch: 53605

	Qualifier	Added	Docult					
			Kesuit	Qualifier	Unit	D	%Rec	Limits
<0.00200	U F2 F1	0.100	0.1195		mg/Kg		119	70 - 130
<0.00200	U F2 F1	0.100	0.08462		mg/Kg		84	70 - 130
<0.00200	U F2 F1	0.100	0.09247		mg/Kg		92	70 - 130
<0.00399	U F2 F1	0.200	0.07201	F1	mg/Kg		36	70 - 130
<0.00200	U F2 F1	0.100	0.09611		mg/Kg		96	70 - 130
	<0.00200 <0.00200 <0.00399	<0.00200 U F2 F1 <0.00200 U F2 F1 <0.00200 U F2 F1 <0.00399 U F2 F1 <0.00200 U F2 F1	<0.00200 U F2 F1 0.100 <0.00200 U F2 F1 0.100 <0.00399 U F2 F1 0.200	<0.00200	<0.00200	<0.00200 U F2 F1 0.100 0.08462 mg/Kg <0.00200 U F2 F1 0.100 0.09247 mg/Kg <0.00399 U F2 F1 0.200 0.07201 F1 mg/Kg	<0.00200 U F2 F1 0.100 0.08462 mg/Kg <0.00200 U F2 F1 0.100 0.09247 mg/Kg <0.00399 U F2 F1 0.200 0.07201 F1 mg/Kg	<0.00200

MS MS %Recovery Qualifier Limits Surrogate 70 - 130 4-Bromofluorobenzene (Surr) 124 1,4-Difluorobenzene (Surr) 122 70 - 130

Lab Sample ID: 890-4666-1 MSD

Matrix: Solid Analysis Ratch: 53790

Analysis Batch: 53790						-	Prep Batch: 53605				
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U F2 F1	0.0990	0.2592	F1 F2	mg/Kg		262	70 - 130	74	35
Toluene	<0.00200	U F2 F1	0.0990	0.2156	F1 F2	mg/Kg		218	70 - 130	87	35
Ethylbenzene	<0.00200	U F2 F1	0.0990	0.2214	F1 F2	mg/Kg		224	70 - 130	82	35
m-Xylene & p-Xylene	<0.00399	U F2 F1	0.198	0.2580	F2	mg/Kg		130	70 - 130	113	35
o-Xylene	<0.00200	U F2 F1	0.0990	0.2255	F1 F2	mg/Kg		228	70 - 130	80	35

MSD MSD Surrogate %Recovery Qualifier Limits 70 - 130 4-Bromofluorobenzene (Surr) 128 1,4-Difluorobenzene (Surr) 146 S1+ 70 - 130

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

Lab Sample ID: MB 880-53599/1-A

Analysis Batch: 53552

Matrix: Solid

•			
		MB	ME

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/17/23 12:36	05/17/23 19:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/17/23 12:36	05/17/23 19:47	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/17/23 12:36	05/17/23 19:47	1
Total TPH	<50.0	U	50.0	mg/Kg		05/17/23 12:36	05/17/23 19:47	1

	MB	МВ				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	145	S1+	70 - 130	05/17/23 12:36	05/17/23 19:47	1
o-Terphenyl	162	S1+	70 - 130	05/17/23 12:36	05/17/23 19:47	1

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Client Sample ID: FS01

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 53599

Prep Type: Total/NA

QC Sample Results

Client: Ensolum Job ID: 890-4666-1 Project/Site: Cabo Wabo Federal 24 CTB SDG: 03D2024153

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

Lab Sample ID: LCS 880-53599/2-A

Matrix: Solid Analysis Batch: 53552

Prep Type: Total/N/
Prep Batch: 53599
%Rec

Client Sample ID: Lab Control Sample

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	890.3		mg/Kg		89	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	837.4		mg/Kg		84	70 - 130	
C10-C28)								

	LUS	LUS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	91		70 - 130
o-Terphenyl	101		70 - 130

Lab Sample ID: LCSD 880-53599/3-A

Matrix: Solid

Analysis Batch: 53552

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

Prep Batch: 53599

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	851.2		mg/Kg		85	70 - 130	4	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	853.2		mg/Kg		85	70 - 130	2	20
C10-C28)									

LCSD LCSD %Recovery Qualifier Limits Surrogate 1-Chlorooctane 79 70 - 130 o-Terphenyl 84 70 - 130

Lab Sample ID: 890-4666-1 MS

Matrix: Solid

Analysis Batch: 53552

Client Sample ID: FS01
Prep Type: Total/NA
Pron Ratch: 53500

Analysis Batch. 00002									1 100	Dateii. 0000.	•
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	922.3		mg/Kg		90	70 - 130		_
Diesel Range Organics (Over C10-C28)	<49.9	U	997	974.1		mg/Kg		96	70 - 130		

Surrogate	%Recovery	Qualifier	Limits		
1-Chlorooctane	110		70 - 130		
o-Terphenyl	108		70 - 130		

MS MS

Lab Sample ID: 890-4666-1 MSD

Matrix: Solid

Analyte

Analysis Batch: 53552

Client Sample ID: FS01	
Prep Type: Total/NA	

Prep Batch: 53599 Sample Sample MSD MSD Spike %Rec Result Qualifier Result Qualifier Added Limits Limit Unit %Rec RPD Gasoline Range Organics <49.9 U 999 1022 mg/Kg 100 70 - 130 20 (GRO)-C6-C10 <49.9 U 999 1039 mg/Kg Diesel Range Organics (Over 102 70 - 130 6 20

C10-C28)

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

Client: Ensolum Job ID: 890-4666-1 Project/Site: Cabo Wabo Federal 24 CTB SDG: 03D2024153

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

Lab Sample ID: 890-4666-1 MSD

Analysis Batch: 53552

Prep Type: Total/NA Prep Batch: 53599

MSD MSD

Surrogate %Recovery Qualifier Limits o-Terphenyl 114 70 - 130

Lab Sample ID: MB 880-53630/1-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 53625

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

Prep Batch: 53630

Client Sample ID: FS01

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		05/18/23 08:00	05/18/23 08:37	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		05/18/23 08:00	05/18/23 08:37	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/18/23 08:00	05/18/23 08:37	1
Total TPH	<50.0	U	50.0	mg/Kg		05/18/23 08:00	05/18/23 08:37	1
	MR	MR						

MD MD

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	214	S1+	70 - 130	05/18/23 08:00	05/18/23 08:37	1
o-Terphenyl	171	S1+	70 - 130	05/18/23 08:00	05/18/23 08:37	1

Lab Sample ID: LCS 880-53630/2-A

Matrix: Solid

Analysis Batch: 53625

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

Prep Batch: 53630

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	824.0		mg/Kg		82	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	854.6		mg/Kg		85	70 - 130	
C10-C28)								

LCS LCS

Surrogate	%Recovery	Qualifier	Limits		
1-Chlorooctane	100		70 - 130		
o-Terphenyl	77		70 - 130		

Lab Sample ID: LCSD 880-53630/3-A

Matrix: Solid

Analysis Batch: 53625

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 53630

Spike LCSD LCSD %Rec **RPD** Added Limit Analyte Result Qualifier Unit %Rec Limits RPD D 1000 Gasoline Range Organics 825.3 83 70 - 130 20 mg/Kg 0 (GRO)-C6-C10 Diesel Range Organics (Over 1000 803.9 80 70 - 130 20 mg/Kg

C10-C28)

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	100	70 - 130
o-Terphenyl	76	70 - 130

QC Sample Results

Job ID: 890-4666-1 Client: Ensolum Project/Site: Cabo Wabo Federal 24 CTB SDG: 03D2024153

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

Lab Sample ID: 880-28483-A-33-C MS

Matrix: Solid

Analysis Batch: 53625

Client Sample ID: Matrix Spike

Prep Type: Total/NA Prep Batch: 53630

Sample Sample MS MS Spike Result Qualifier Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics <50.0 U F1 999 1643 F1 mg/Kg 165 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 999 939 9 83 70 - 130108 mg/Kg C10-C28)

MS MS %Recovery

Lab Sample ID: 880-28483-A-33-D MSD

Qualifier Limits Surrogate 1-Chlorooctane 70 - 130 124 o-Terphenyl 85 70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 53630

Prep Type: Soluble

Analysis Batch: 53625 Spike MSD MSD %Rec RPD Sample Sample Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits **RPD** Limit 999 Gasoline Range Organics <50.0 UF1 1673 F1 mg/Kg 167 70 - 130 2 20 (GRO)-C6-C10 Diesel Range Organics (Over 108 999 953.5 mg/Kg 85 70 - 130 20

C10-C28)

Matrix: Solid

MSD MSD Surrogate %Recovery Qualifier

1-Chlorooctane 127 70 - 130 86 70 - 130 o-Terphenyl

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-53365/1-A Client Sample ID: Method Blank

Limits

Matrix: Solid

Analysis Batch: 53671

MB MB

Result Qualifier Analyte RL Unit Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 05/18/23 11:46 mg/Kg

Lab Sample ID: LCS 880-53365/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 53671

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit D %Rec Limits Chloride 250 260.3 104 90 - 110 mg/Kg

Lab Sample ID: LCSD 880-53365/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 53671

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier %Rec Limits RPD Limit Unit D Chloride 250 105 262.0 mg/Kg 90 _ 110 20

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Prep Type: Soluble

Prep Type: Soluble

Client Sample ID: Matrix Spike

Client: Ensolum Project/Site: Cabo Wabo Federal 24 CTB SDG: 03D2024153

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-4655-A-3-B MS

Matrix: Solid Analysis Batch: 53671

Sample Sample Spike MS MS %Rec Added Result Qualifier Analyte Result Qualifier Unit %Rec Limits Chloride 73.7 248 339.4 mg/Kg 107 90 - 110

Lab Sample ID: 890-4655-A-3-C MSD Client Sample ID: Matrix Spike Duplicate **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 53671

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	73.7		248	340.8		mg/Kg		108	90 - 110	0	20

Lab Sample ID: MB 880-53480/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 53675

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Analyte	Result Qualifier	t Qualifier RL Unit		D	Prepared	Analyzed	Dil Fac
Chloride	<5.00 U	5.00	mg/Kg			05/18/23 17:39	1

Lab Sample ID: LCS 880-53480/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 53675

	Бріке	LUS	LCS			%Rec	
Analyte	Added	Result	Qualifier Unit	D	%Rec	Limits	
Chloride	250	261.9	mg/K	g	105	90 - 110	

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Lab Sample ID: LCSD 880-53480/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 53675

	Opike	LOOD	LOGD				/orcec		INFD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	265.1		mg/Kg		106	90 - 110	1	20	

ICSD ICSD

Lab Sample ID: 890-4666-1 MS **Client Sample ID: FS01 Matrix: Solid Prep Type: Soluble**

Analysis Batch: 53675

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	3090	F1	1240	4250		mg/Kg	_	93	90 - 110	

Lab Sample ID: 890-4666-1 MSD

Matrix: Solid

Analysis Batch: 53675

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	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	3090	F1	1240	3861	F1	mg/Kg		62	90 - 110	10	20

Lab Sample ID: 890-4666-11 MS Client Sample ID: SS02A **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 53675										
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	1050		1260	2422		mg/Kg		109	90 - 110	

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Client Sample ID: FS01

Prep Type: Soluble

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QC Sample Results

Client: Ensolum Job ID: 890-4666-1 Project/Site: Cabo Wabo Federal 24 CTB SDG: 03D2024153

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-4666-11 MSD Client Sample ID: SS02A **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 53675

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	1050		1260	2418		mg/Kg		109	90 - 110	0	20

Client: Ensolum Job ID: 890-4666-1
Project/Site: Cabo Wabo Federal 24 CTB SDG: 03D2024153

GC VOA

Prep Batch: 53497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4666-21	SS12	Total/NA	Solid	5035	_
890-4666-22	SS12A	Total/NA	Solid	5035	
MB 880-53497/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-53497/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-53497/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4660-A-1-G MS	Matrix Spike	Total/NA	Solid	5035	
890-4660-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 53508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-53508/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 53588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4666-21	SS12	Total/NA	Solid	8021B	53497
890-4666-22	SS12A	Total/NA	Solid	8021B	53497
MB 880-53497/5-A	Method Blank	Total/NA	Solid	8021B	53497
MB 880-53508/5-A	Method Blank	Total/NA	Solid	8021B	53508
LCS 880-53497/1-A	Lab Control Sample	Total/NA	Solid	8021B	53497
LCSD 880-53497/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	53497
890-4660-A-1-G MS	Matrix Spike	Total/NA	Solid	8021B	53497
890-4660-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	53497

Prep Batch: 53604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-53604/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 53605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-4666-1	FS01	Total/NA	Solid	5035	_
390-4666-2	FS02	Total/NA	Solid	5035	
390-4666-3	FS03	Total/NA	Solid	5035	
90-4666-4	FS04	Total/NA	Solid	5035	
90-4666-5	FS05	Total/NA	Solid	5035	
390-4666-6	FS06	Total/NA	Solid	5035	
90-4666-7	FS07	Total/NA	Solid	5035	
390-4666-8	FS08	Total/NA	Solid	5035	
390-4666-9	FS09	Total/NA	Solid	5035	
390-4666-10	FS10	Total/NA	Solid	5035	
390-4666-11	SS02A	Total/NA	Solid	5035	
390-4666-12	SS03A	Total/NA	Solid	5035	
90-4666-13	SS08	Total/NA	Solid	5035	
90-4666-14	SS08A	Total/NA	Solid	5035	
90-4666-15	SS09	Total/NA	Solid	5035	
390-4666-16	SS09A	Total/NA	Solid	5035	
390-4666-17	SS10	Total/NA	Solid	5035	
390-4666-18	SS10A	Total/NA	Solid	5035	
390-4666-19	SS11	Total/NA	Solid	5035	
390-4666-20	SS11A	Total/NA	Solid	5035	
MB 880-53605/5-A	Method Blank	Total/NA	Solid	5035	
_CS 880-53605/1-A	Lab Control Sample	Total/NA	Solid	5035	

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Client: Ensolum

Project/Site: Cabo Wabo Federal 24 CTB

SDG: 03D2024153

GC VOA (Continued)

Prep Batch: 53605 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep	Batch
LCSD 880-53605/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4666-1 MS	FS01	Total/NA	Solid	5035	
890-4666-1 MSD	FS01	Total/NA	Solid	5035	

Analysis Batch: 53699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4666-1	FS01	Total/NA	Solid	Total BTEX	-
890-4666-2	FS02	Total/NA	Solid	Total BTEX	
890-4666-3	FS03	Total/NA	Solid	Total BTEX	
890-4666-4	FS04	Total/NA	Solid	Total BTEX	
890-4666-5	FS05	Total/NA	Solid	Total BTEX	
890-4666-6	FS06	Total/NA	Solid	Total BTEX	
890-4666-7	FS07	Total/NA	Solid	Total BTEX	
890-4666-8	FS08	Total/NA	Solid	Total BTEX	
890-4666-9	FS09	Total/NA	Solid	Total BTEX	
890-4666-10	FS10	Total/NA	Solid	Total BTEX	
890-4666-11	SS02A	Total/NA	Solid	Total BTEX	
890-4666-12	SS03A	Total/NA	Solid	Total BTEX	
890-4666-13	SS08	Total/NA	Solid	Total BTEX	
890-4666-14	SS08A	Total/NA	Solid	Total BTEX	
890-4666-15	SS09	Total/NA	Solid	Total BTEX	
890-4666-16	SS09A	Total/NA	Solid	Total BTEX	
890-4666-17	SS10	Total/NA	Solid	Total BTEX	
890-4666-18	SS10A	Total/NA	Solid	Total BTEX	
890-4666-19	SS11	Total/NA	Solid	Total BTEX	
890-4666-20	SS11A	Total/NA	Solid	Total BTEX	
890-4666-21	SS12	Total/NA	Solid	Total BTEX	
890-4666-22	SS12A	Total/NA	Solid	Total BTEX	

Analysis Batch: 53790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4666-1	FS01	Total/NA	Solid	8021B	53605
890-4666-2	FS02	Total/NA	Solid	8021B	53605
890-4666-3	FS03	Total/NA	Solid	8021B	53605
890-4666-4	FS04	Total/NA	Solid	8021B	53605
890-4666-5	FS05	Total/NA	Solid	8021B	53605
890-4666-6	FS06	Total/NA	Solid	8021B	53605
890-4666-7	FS07	Total/NA	Solid	8021B	53605
890-4666-8	FS08	Total/NA	Solid	8021B	53605
890-4666-9	FS09	Total/NA	Solid	8021B	53605
890-4666-10	FS10	Total/NA	Solid	8021B	53605
890-4666-11	SS02A	Total/NA	Solid	8021B	53605
890-4666-12	SS03A	Total/NA	Solid	8021B	53605
890-4666-13	SS08	Total/NA	Solid	8021B	53605
890-4666-14	SS08A	Total/NA	Solid	8021B	53605
890-4666-15	SS09	Total/NA	Solid	8021B	53605
890-4666-16	SS09A	Total/NA	Solid	8021B	53605
890-4666-17	SS10	Total/NA	Solid	8021B	53605
890-4666-18	SS10A	Total/NA	Solid	8021B	53605
890-4666-19	SS11	Total/NA	Solid	8021B	53605
890-4666-20	SS11A	Total/NA	Solid	8021B	53605

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Client: Ensolum Job ID: 890-4666-1 Project/Site: Cabo Wabo Federal 24 CTB SDG: 03D2024153

GC VOA (Continued)

Analysis Batch: 53790 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-53604/5-A	Method Blank	Total/NA	Solid	8021B	53604
MB 880-53605/5-A	Method Blank	Total/NA	Solid	8021B	53605
LCS 880-53605/1-A	Lab Control Sample	Total/NA	Solid	8021B	53605
LCSD 880-53605/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	53605
890-4666-1 MS	FS01	Total/NA	Solid	8021B	53605
890-4666-1 MSD	FS01	Total/NA	Solid	8021B	53605

GC Semi VOA

Analysis Batch: 53552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4666-1	FS01	Total/NA	Solid	8015B NM	53599
890-4666-2	FS02	Total/NA	Solid	8015B NM	53599
890-4666-3	FS03	Total/NA	Solid	8015B NM	53599
890-4666-4	FS04	Total/NA	Solid	8015B NM	53599
890-4666-5	FS05	Total/NA	Solid	8015B NM	53599
890-4666-6	FS06	Total/NA	Solid	8015B NM	53599
890-4666-7	FS07	Total/NA	Solid	8015B NM	53599
890-4666-8	FS08	Total/NA	Solid	8015B NM	53599
890-4666-9	FS09	Total/NA	Solid	8015B NM	53599
890-4666-10	FS10	Total/NA	Solid	8015B NM	53599
890-4666-11	SS02A	Total/NA	Solid	8015B NM	53599
890-4666-12	SS03A	Total/NA	Solid	8015B NM	53599
890-4666-13	SS08	Total/NA	Solid	8015B NM	53599
890-4666-14	SS08A	Total/NA	Solid	8015B NM	53599
890-4666-15	SS09	Total/NA	Solid	8015B NM	53599
890-4666-16	SS09A	Total/NA	Solid	8015B NM	53599
890-4666-17	SS10	Total/NA	Solid	8015B NM	53599
890-4666-18	SS10A	Total/NA	Solid	8015B NM	53599
890-4666-19	SS11	Total/NA	Solid	8015B NM	53599
890-4666-20	SS11A	Total/NA	Solid	8015B NM	53599
MB 880-53599/1-A	Method Blank	Total/NA	Solid	8015B NM	53599
LCS 880-53599/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	53599
LCSD 880-53599/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	53599
890-4666-1 MS	FS01	Total/NA	Solid	8015B NM	53599
890-4666-1 MSD	FS01	Total/NA	Solid	8015B NM	53599

Prep Batch: 53599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4666-1	FS01	Total/NA	Solid	8015NM Prep	
390-4666-2	FS02	Total/NA	Solid	8015NM Prep	
890-4666-3	FS03	Total/NA	Solid	8015NM Prep	
890-4666-4	FS04	Total/NA	Solid	8015NM Prep	
890-4666-5	FS05	Total/NA	Solid	8015NM Prep	
890-4666-6	FS06	Total/NA	Solid	8015NM Prep	
890-4666-7	FS07	Total/NA	Solid	8015NM Prep	
890-4666-8	FS08	Total/NA	Solid	8015NM Prep	
890-4666-9	FS09	Total/NA	Solid	8015NM Prep	
890-4666-10	FS10	Total/NA	Solid	8015NM Prep	
890-4666-11	SS02A	Total/NA	Solid	8015NM Prep	
890-4666-12	SS03A	Total/NA	Solid	8015NM Prep	

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Client: Ensolum Job ID: 890-4666-1 Project/Site: Cabo Wabo Federal 24 CTB SDG: 03D2024153

GC Semi VOA (Continued)

Prep Batch: 53599 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4666-13	SS08	Total/NA	Solid	8015NM Prep	
890-4666-14	SS08A	Total/NA	Solid	8015NM Prep	
890-4666-15	SS09	Total/NA	Solid	8015NM Prep	
890-4666-16	SS09A	Total/NA	Solid	8015NM Prep	
890-4666-17	SS10	Total/NA	Solid	8015NM Prep	
890-4666-18	SS10A	Total/NA	Solid	8015NM Prep	
890-4666-19	SS11	Total/NA	Solid	8015NM Prep	
890-4666-20	SS11A	Total/NA	Solid	8015NM Prep	
MB 880-53599/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-53599/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-53599/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4666-1 MS	FS01	Total/NA	Solid	8015NM Prep	
890-4666-1 MSD	FS01	Total/NA	Solid	8015NM Prep	

Analysis Batch: 53625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4666-21	SS12	Total/NA	Solid	8015B NM	53630
890-4666-22	SS12A	Total/NA	Solid	8015B NM	53630
MB 880-53630/1-A	Method Blank	Total/NA	Solid	8015B NM	53630
LCS 880-53630/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	53630
LCSD 880-53630/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	53630
880-28483-A-33-C MS	Matrix Spike	Total/NA	Solid	8015B NM	53630
880-28483-A-33-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	53630

Prep Batch: 53630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4666-21	SS12	Total/NA	Solid	8015NM Prep	
890-4666-22	SS12A	Total/NA	Solid	8015NM Prep	
MB 880-53630/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-53630/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-53630/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-28483-A-33-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-28483-A-33-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 53669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4666-1	FS01	Total/NA	Solid	8015 NM	
390-4666-2	FS02	Total/NA	Solid	8015 NM	
390-4666-3	FS03	Total/NA	Solid	8015 NM	
890-4666-4	FS04	Total/NA	Solid	8015 NM	
890-4666-5	FS05	Total/NA	Solid	8015 NM	
390-4666-6	FS06	Total/NA	Solid	8015 NM	
390-4666-7	FS07	Total/NA	Solid	8015 NM	
890-4666-8	FS08	Total/NA	Solid	8015 NM	
390-4666-9	FS09	Total/NA	Solid	8015 NM	
390-4666-10	FS10	Total/NA	Solid	8015 NM	
390-4666-11	SS02A	Total/NA	Solid	8015 NM	
390-4666-12	SS03A	Total/NA	Solid	8015 NM	
390-4666-13	SS08	Total/NA	Solid	8015 NM	
390-4666-14	SS08A	Total/NA	Solid	8015 NM	
390-4666-15	SS09	Total/NA	Solid	8015 NM	

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Client: Ensolum Job ID: 890-4666-1
Project/Site: Cabo Wabo Federal 24 CTB SDG: 03D2024153

GC Semi VOA (Continued)

Analysis Batch: 53669 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4666-16	SS09A	Total/NA	Solid	8015 NM	
890-4666-17	SS10	Total/NA	Solid	8015 NM	
890-4666-18	SS10A	Total/NA	Solid	8015 NM	
890-4666-19	SS11	Total/NA	Solid	8015 NM	
890-4666-20	SS11A	Total/NA	Solid	8015 NM	
890-4666-21	SS12	Total/NA	Solid	8015 NM	
890-4666-22	SS12A	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 53365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4666-21	SS12	Soluble	Solid	DI Leach	
890-4666-22	SS12A	Soluble	Solid	DI Leach	
MB 880-53365/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-53365/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-53365/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4655-A-3-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-4655-A-3-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 53480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-4666-1	FS01	Soluble	Solid	DI Leach	
890-4666-2	FS02	Soluble	Solid	DI Leach	
890-4666-3	FS03	Soluble	Solid	DI Leach	
390-4666-4	FS04	Soluble	Solid	DI Leach	
390-4666-5	FS05	Soluble	Solid	DI Leach	
390-4666-6	FS06	Soluble	Solid	DI Leach	
390-4666-7	FS07	Soluble	Solid	DI Leach	
390-4666-8	FS08	Soluble	Solid	DI Leach	
390-4666-9	FS09	Soluble	Solid	DI Leach	
390-4666-10	FS10	Soluble	Solid	DI Leach	
390-4666-11	SS02A	Soluble	Solid	DI Leach	
90-4666-12	SS03A	Soluble	Solid	DI Leach	
90-4666-13	SS08	Soluble	Solid	DI Leach	
90-4666-14	SS08A	Soluble	Solid	DI Leach	
90-4666-15	SS09	Soluble	Solid	DI Leach	
90-4666-16	SS09A	Soluble	Solid	DI Leach	
90-4666-17	SS10	Soluble	Solid	DI Leach	
90-4666-18	SS10A	Soluble	Solid	DI Leach	
90-4666-19	SS11	Soluble	Solid	DI Leach	
90-4666-20	SS11A	Soluble	Solid	DI Leach	
MB 880-53480/1-A	Method Blank	Soluble	Solid	DI Leach	
CS 880-53480/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
_CSD 880-53480/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
390-4666-1 MS	FS01	Soluble	Solid	DI Leach	
390-4666-1 MSD	FS01	Soluble	Solid	DI Leach	
90-4666-11 MS	SS02A	Soluble	Solid	DI Leach	
390-4666-11 MSD	SS02A	Soluble	Solid	DI Leach	

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Client: Ensolum

Project/Site: Cabo Wabo Federal 24 CTB

SDG: 03D2024153

HPLC/IC

Analysis Batch: 53671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4666-21	SS12	Soluble	Solid	300.0	53365
890-4666-22	SS12A	Soluble	Solid	300.0	53365
MB 880-53365/1-A	Method Blank	Soluble	Solid	300.0	53365
LCS 880-53365/2-A	Lab Control Sample	Soluble	Solid	300.0	53365
LCSD 880-53365/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	53365
890-4655-A-3-B MS	Matrix Spike	Soluble	Solid	300.0	53365
890-4655-A-3-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	53365

Analysis Batch: 53675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4666-1	FS01	Soluble	Solid	300.0	53480
890-4666-2	FS02	Soluble	Solid	300.0	53480
890-4666-3	FS03	Soluble	Solid	300.0	53480
890-4666-4	FS04	Soluble	Solid	300.0	53480
390-4666-5	FS05	Soluble	Solid	300.0	53480
890-4666-6	FS06	Soluble	Solid	300.0	53480
890-4666-7	FS07	Soluble	Solid	300.0	53480
890-4666-8	FS08	Soluble	Solid	300.0	53480
890-4666-9	FS09	Soluble	Solid	300.0	53480
390-4666-10	FS10	Soluble	Solid	300.0	53480
390-4666-11	SS02A	Soluble	Solid	300.0	53480
390-4666-12	SS03A	Soluble	Solid	300.0	53480
390-4666-13	SS08	Soluble	Solid	300.0	53480
390-4666-14	SS08A	Soluble	Solid	300.0	53480
390-4666-15	SS09	Soluble	Solid	300.0	53480
390-4666-16	SS09A	Soluble	Solid	300.0	53480
390-4666-17	SS10	Soluble	Solid	300.0	53480
890-4666-18	SS10A	Soluble	Solid	300.0	53480
390-4666-19	SS11	Soluble	Solid	300.0	53480
890-4666-20	SS11A	Soluble	Solid	300.0	53480
MB 880-53480/1-A	Method Blank	Soluble	Solid	300.0	53480
LCS 880-53480/2-A	Lab Control Sample	Soluble	Solid	300.0	53480
LCSD 880-53480/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	53480
390-4666-1 MS	FS01	Soluble	Solid	300.0	53480
890-4666-1 MSD	FS01	Soluble	Solid	300.0	53480
890-4666-11 MS	SS02A	Soluble	Solid	300.0	53480
890-4666-11 MSD	SS02A	Soluble	Solid	300.0	53480

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Job ID: 890-4666-1 Client: Ensolum Project/Site: Cabo Wabo Federal 24 CTB SDG: 03D2024153

Client Sample ID: FS01 Lab Sample ID: 890-4666-1

Date Collected: 05/15/23 10:05 **Matrix: Solid** Date Received: 05/15/23 16:17

	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	53605	05/17/23 14:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53790	05/20/23 22:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53699	05/22/23 16:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			53669	05/18/23 12:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	53599	05/17/23 12:36	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53552	05/17/23 20:52	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	53480	05/16/23 12:07	KS	EET MID
Soluble	Analysis	300.0		5			53675	05/18/23 17:55	CH	EET MID

Client Sample ID: FS02 Lab Sample ID: 890-4666-2

Date Collected: 05/15/23 10:10 **Matrix: Solid** Date Received: 05/15/23 16:17

	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	53605	05/17/23 14:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53790	05/20/23 23:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53699	05/22/23 16:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			53669	05/18/23 12:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	53599	05/17/23 12:36	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53552	05/17/23 21:57	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	53480	05/16/23 12:07	KS	EET MIC
Soluble	Analysis	300.0		5			53675	05/18/23 18:39	CH	EET MID

Client Sample ID: FS03 Lab Sample ID: 890-4666-3 Date Collected: 05/15/23 10:15 **Matrix: Solid**

Dil Final Batch Batch Initial Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA Prep 5035 4.95 g 5 mL 53605 05/17/23 14:58 MNR **EET MID** Total/NA Analysis 8021B 5 mL 5 mL 53790 05/20/23 23:45 MNR **EET MID** Total/NA Analysis Total BTEX 53699 05/22/23 16:14 SM EET MID 1 Total/NA Analysis 8015 NM 53669 05/18/23 12:40 SM EET MID Total/NA 10 mL 53599 Prep 8015NM Prep 10.00 g 05/17/23 12:36 ΑJ **EET MID** Total/NA Analysis 8015B NM 1 uL 1 uL 53552 05/17/23 22:19 SM EET MID Soluble Leach DI Leach 4.98 g 50 mL 53480 05/16/23 12:07 KS **EET MID**

Client Sample ID: FS04 Lab Sample ID: 890-4666-4

53675

05/18/23 18:44

СН

Date Collected: 05/15/23 10:20 **Matrix: Solid** Date Received: 05/15/23 16:17

	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	53605	05/17/23 14:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53790	05/21/23 00:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53699	05/22/23 16:14	SM	EET MID

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EET MID

Soluble

Analysis

300.0

Date Received: 05/15/23 16:17

Client: Ensolum Job ID: 890-4666-1
Project/Site: Cabo Wabo Federal 24 CTB SDG: 03D2024153

Client Sample ID: FS04

Lab Sample ID: 890-4666-4

Matrix: Solid

Date Collected: 05/15/23 10:20 Date Received: 05/15/23 16:17

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			53669	05/18/23 12:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	53599	05/17/23 12:36	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53552	05/17/23 22:40	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	53480	05/16/23 12:07	KS	EET MID
Soluble	Analysis	300.0		5			53675	05/18/23 18:49	CH	EET MID

Client Sample ID: FS05 Lab Sample ID: 890-4666-5

Date Collected: 05/15/23 10:25

Matrix: Solid

Date Received: 05/15/23 16:17

	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	53605	05/17/23 14:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53790	05/21/23 00:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53699	05/22/23 16:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			53669	05/18/23 12:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	53599	05/17/23 12:36	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53552	05/17/23 23:02	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	53480	05/16/23 12:07	KS	EET MIC
Soluble	Analysis	300.0		5			53675	05/18/23 18:55	CH	EET MID

Client Sample ID: FS06 Lab Sample ID: 890-4666-6

Date Collected: 05/15/23 10:30 Date Received: 05/15/23 16:17

	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	53605	05/17/23 14:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53790	05/21/23 01:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53699	05/22/23 16:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			53669	05/18/23 12:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	53599	05/17/23 12:36	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53552	05/17/23 23:23	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	53480	05/16/23 12:07	KS	EET MID
Soluble	Analysis	300.0		5			53675	05/18/23 19:11	CH	EET MID

Client Sample ID: FS07 Lab Sample ID: 890-4666-7

Date Collected: 05/15/23 10:35 Date Received: 05/15/23 16:17

	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	53605	05/17/23 14:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53790	05/21/23 01:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53699	05/22/23 16:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			53669	05/18/23 12:40	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.03 g 1 uL	10 mL 1 uL	53599 53552	05/17/23 12:36 05/17/23 23:45	AJ SM	EET MID EET MID

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Matrix: Solid

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Matrix: Solid

(22/2022

Client: Ensolum Job ID: 890-4666-1 Project/Site: Cabo Wabo Federal 24 CTB SDG: 03D2024153

Client Sample ID: FS07 Lab Sample ID: 890-4666-7

Date Collected: 05/15/23 10:35 Matrix: Solid Date Received: 05/15/23 16:17

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Soluble DI Leach 53480 Leach 5.04 g 50 mL 05/16/23 12:07 KS EET MID 300.0 Soluble Analysis 5 53675 05/18/23 19:16 СН **EET MID**

Client Sample ID: FS08 Lab Sample ID: 890-4666-8

Date Collected: 05/15/23 10:40 Matrix: Solid

Date Received: 05/15/23 16:17

	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	53605	05/17/23 14:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53790	05/21/23 01:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53699	05/22/23 16:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			53669	05/18/23 12:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	53599	05/17/23 12:36	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53552	05/18/23 00:06	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	53480	05/16/23 12:07	KS	EET MID
Soluble	Analysis	300.0		5			53675	05/18/23 19:22	CH	EET MID

Client Sample ID: FS09 Lab Sample ID: 890-4666-9

Date Collected: 05/15/23 10:45 **Matrix: Solid** Date Received: 05/15/23 16:17

	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	53605	05/17/23 14:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53790	05/21/23 02:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53699	05/22/23 16:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			53669	05/18/23 12:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	53599	05/17/23 12:36	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53552	05/18/23 00:27	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	53480	05/16/23 12:07	KS	EET MID
Soluble	Analysis	300.0		5			53675	05/18/23 19:27	CH	EET MID

Client Sample ID: FS10 Lab Sample ID: 890-4666-10 Date Collected: 05/15/23 10:50

Date Received: 05/15/23 16:17

	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	53605	05/17/23 14:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53790	05/21/23 02:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53699	05/22/23 16:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			53669	05/18/23 12:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	53599	05/17/23 12:36	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53552	05/18/23 00:48	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	53480	05/16/23 12:07	KS	EET MID
Soluble	Analysis	300.0		1			53675	05/18/23 19:32	CH	EET MID

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Matrix: Solid

SDG: 03D2024153

Project/Site: Cabo Wabo Federal 24 CTB

Lab Sample ID: 890-4666-11

Matrix: Solid

Client Sample ID: SS02A Date Collected: 05/15/23 11:35 Date Received: 05/15/23 16:17

Client: Ensolum

	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	53605	05/17/23 14:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53790	05/21/23 04:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53699	05/22/23 16:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			53669	05/18/23 12:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	53599	05/17/23 12:36	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53552	05/18/23 01:31	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	53480	05/16/23 12:07	KS	EET MID
Soluble	Analysis	300.0		5			53675	05/18/23 19:38	CH	EET MID

Lab Sample ID: 890-4666-12

Date Collected: 05/15/23 11:40 Date Received: 05/15/23 16:17

Client Sample ID: SS03A

Matrix: Solid

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 Total/NA 4.97 g 5 mL 53605 05/17/23 14:58 MNR EET MID Total/NA 8021B 5 mL 05/21/23 05:04 **EET MID** Analysis 1 5 mL 53790 MNR Total/NA Total BTEX 53699 05/22/23 16:14 Analysis SM **EET MID** 1 Total/NA Analysis 8015 NM 53669 05/18/23 12:40 SM **EET MID** Total/NA 53599 05/17/23 12:36 Prep 8015NM Prep 10.01 g 10 mL ΑJ EET MID Total/NA Analysis 8015B NM 1 uL 1 uL 53552 05/18/23 01:52 SM **EET MID** Soluble Leach DI Leach 4.99 g 50 mL 53480 05/16/23 12:07 KS **EET MID** Soluble Analysis 300.0 5 53675 05/18/23 19:54 СН **EET MID**

Client Sample ID: SS08 Lab Sample ID: 890-4666-13

Date Collected: 05/15/23 11:45 **Matrix: Solid** Date Received: 05/15/23 16:17

	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	53605	05/17/23 14:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53790	05/21/23 05:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53699	05/22/23 16:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			53669	05/18/23 12:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	53599	05/17/23 12:36	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53552	05/18/23 02:13	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	53480	05/16/23 12:07	KS	EET MID
Soluble	Analysis	300.0		5			53675	05/18/23 19:59	CH	EET MID

Lab Sample ID: 890-4666-14 Client Sample ID: SS08A

Date Collected: 05/15/23 11:50 **Matrix: Solid** Date Received: 05/15/23 16:17

	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	53605	05/17/23 14:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53790	05/21/23 05:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53699	05/22/23 16:14	SM	EET MID

Eurofins Carlsbad

Client: Ensolum Job ID: 890-4666-1
Project/Site: Cabo Wabo Federal 24 CTB SDG: 03D2024153

Client Sample ID: SS08A Lab Sample ID: 890-4666-14

Date Collected: 05/15/23 11:50

Date Received: 05/15/23 16:17

Matrix: Solid

	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			53669	05/18/23 12:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	53599	05/17/23 12:36	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53552	05/18/23 02:35	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	53480	05/16/23 12:07	KS	EET MID
Soluble	Analysis	300.0		1			53675	05/18/23 20:15	CH	EET MID

Client Sample ID: SS09 Lab Sample ID: 890-4666-15

Date Collected: 05/15/23 11:55 Date Received: 05/15/23 16:17

	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	53605	05/17/23 14:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53790	05/21/23 06:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53699	05/22/23 16:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			53669	05/18/23 12:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	53599	05/17/23 12:36	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53552	05/18/23 02:56	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	53480	05/16/23 12:07	KS	EET MID
Soluble	Analysis	300.0		5			53675	05/18/23 20:20	CH	EET MID

Client Sample ID: SS09A

Date Collected: 05/15/23 12:00

Lab Sample ID: 890-4666-16

Matrix: Solid

Date Received: 05/15/23 16:17

	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	53605	05/17/23 14:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53790	05/21/23 06:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53699	05/22/23 16:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			53669	05/18/23 12:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	53599	05/17/23 12:36	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53552	05/18/23 03:18	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	53480	05/16/23 12:07	KS	EET MID
Soluble	Analysis	300.0		5			53675	05/18/23 20:26	CH	EET MID

Client Sample ID: SS10 Lab Sample ID: 890-4666-17

Date Collected: 05/15/23 12:05 Date Received: 05/15/23 16:17

_	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	53605	05/17/23 14:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53790	05/21/23 07:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53699	05/22/23 16:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			53669	05/18/23 12:40	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.04 g 1 uL	10 mL 1 uL	53599 53552	05/17/23 12:36 05/18/23 03:39	AJ SM	EET MID EET MID

Eurofins Carlsbad

Matrix: Solid

2

3

5

7

9

Matrix: Solid

11

13

Client: Ensolum

Job ID: 890-4666-1 Project/Site: Cabo Wabo Federal 24 CTB SDG: 03D2024153

Client Sample ID: SS10 Lab Sample ID: 890-4666-17 Date Collected: 05/15/23 12:05 Matrix: Solid

Date Received: 05/15/23 16:17

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	53480	05/16/23 12:07	KS	EET MID
Soluble	Analysis	300.0		1			53675	05/18/23 20:31	CH	EET MID

Client Sample ID: SS10A Lab Sample ID: 890-4666-18 **Matrix: Solid**

Date Collected: 05/15/23 12:10 Date Received: 05/15/23 16:17

	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	53605	05/17/23 14:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53790	05/21/23 07:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53699	05/22/23 16:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			53669	05/18/23 12:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	53599	05/17/23 12:36	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53552	05/18/23 04:00	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	53480	05/16/23 12:07	KS	EET MID
Soluble	Analysis	300.0		1			53675	05/19/23 10:53	CH	EET MID

Client Sample ID: SS11 Lab Sample ID: 890-4666-19 **Matrix: Solid**

Date Collected: 05/15/23 12:15 Date Received: 05/15/23 16:17

	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	53605	05/17/23 14:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53790	05/21/23 08:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53699	05/22/23 16:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			53669	05/18/23 12:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	53599	05/17/23 12:36	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53552	05/18/23 04:22	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	53480	05/16/23 12:07	KS	EET MID
Soluble	Analysis	300.0		5			53675	05/19/23 10:59	CH	EET MID

Client Sample ID: SS11A Lab Sample ID: 890-4666-20 Date Collected: 05/15/23 12:20

Date Received: 05/15/23 16:17

	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	53605	05/17/23 14:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53790	05/21/23 08:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53699	05/22/23 16:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			53669	05/18/23 12:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	53599	05/17/23 12:36	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53552	05/18/23 04:43	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	53480	05/16/23 12:07	KS	EET MID
Soluble	Analysis	300.0		1			53675	05/19/23 11:04	CH	EET MID

Eurofins Carlsbad

Matrix: Solid

Project/Site: Cabo Wabo Federal 24 CTB

Leach

Analysis

Analysis

Client: Ensolum

Job ID: 890-4666-1 SDG: 03D2024153

Client Sample ID: SS12 Lab Sample ID: 890-4666-21

Date Collected: 05/15/23 12:25 **Matrix: Solid** Date Received: 05/15/23 16:17

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 53497 05/16/23 15:29 MNR **EET MID** Total/NA Analysis 8021B 1 5 mL 5 mL 53588 05/18/23 13:39 EL EET MID Total/NA Analysis Total BTEX 53699 05/18/23 15:49 SM **EET MID** 8015 NM 53669 Total/NA Analysis 1 05/19/23 10:11 SM **EET MID** 05/18/23 08:49 53630 EET MID Total/NA 8015NM Prep 10.03 g 10 mL A.I Prep Total/NA Analysis 8015B NM 1 uL 1 uL 53625 05/18/23 19:01 ΑJ **EET MID**

Client Sample ID: SS12A Lab Sample ID: 890-4666-22

5

5 g

50 mL

50 mL

50 mL

50 mL

53365

53671

53671

05/17/23 11:47

05/18/23 16:51

05/18/23 16:56

KS

СН

СН

Date Collected: 05/15/23 12:30 Matrix: Solid Date Received: 05/15/23 16:17

Dil Initial Final Batch Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Lab **Analyst** Prep 5.03 g Total/NA 5035 5 mL 53497 05/16/23 15:29 MNR EET MID 8021B Total/NA Analysis 1 5 mL 5 mL 53588 05/18/23 14:05 EL EET MID Total/NA Total BTEX 53699 Analysis 1 05/18/23 15:49 SM **EET MID** Total/NA Analysis 8015 NM 53669 05/19/23 10:11 SM **EET MID** Total/NA 8015NM Prep 10.01 g 10 mL 53630 05/18/23 08:49 **EET MID** Prep AJ Total/NA Analysis 8015B NM 1 uL 1 uL 53625 05/18/23 19:23 ΑJ **EET MID** Soluble DI Leach 5.02 g 50 mL 53365 05/17/23 11:47 KS **EET MID** Leach

50 mL

Laboratory References:

Soluble

Soluble

Soluble

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

300.0

DI Leach

300.0

EET MID

EET MID

EET MID

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-4666-1 Project/Site: Cabo Wabo Federal 24 CTB SDG: 03D2024153

Total BTEX

Laboratory: Eurofins Midland

Total BTEX

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

Authority	Pro	ogram	Identification Number	Expiration Date
exas exas	NE	LAP	T104704400-22-25	06-30-23
The following analytes	are included in this report bu	t the laboratory is not certifi	ied by the governing authority. This list ma	av include analytes for v
the agency does not of	• •	t and taberatery to the contain	iod by the governing dutherty. This list his	ay molade analytes for v
• ,	• •	Matrix	Analyte	ay molade analytes for v
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Solid

Method Summary

Job ID: 890-4666-1 Client: Ensolum Project/Site: Cabo Wabo Federal 24 CTB

SDG: 03D2024153

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Carlsbad

Sample Summary

Client: Ensolum

Project/Site: Cabo Wabo Federal 24 CTB

Job ID: 890-4666-1

SDG: 03D2024153

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4666-1	FS01	Solid	05/15/23 10:05	05/15/23 16:17	0.5
890-4666-2	FS02	Solid	05/15/23 10:10	05/15/23 16:17	0.5
890-4666-3	FS03	Solid	05/15/23 10:15	05/15/23 16:17	0.5
890-4666-4	FS04	Solid	05/15/23 10:20	05/15/23 16:17	0.5
890-4666-5	FS05	Solid	05/15/23 10:25	05/15/23 16:17	0.5
890-4666-6	FS06	Solid	05/15/23 10:30	05/15/23 16:17	0.5
890-4666-7	FS07	Solid	05/15/23 10:35	05/15/23 16:17	0.5
890-4666-8	FS08	Solid	05/15/23 10:40	05/15/23 16:17	0.5
890-4666-9	FS09	Solid	05/15/23 10:45	05/15/23 16:17	0.5
890-4666-10	FS10	Solid	05/15/23 10:50	05/15/23 16:17	0.5
890-4666-11	SS02A	Solid	05/15/23 11:35	05/15/23 16:17	1
890-4666-12	SS03A	Solid	05/15/23 11:40	05/15/23 16:17	1
890-4666-13	SS08	Solid	05/15/23 11:45	05/15/23 16:17	0.2
890-4666-14	SS08A	Solid	05/15/23 11:50	05/15/23 16:17	1
890-4666-15	SS09	Solid	05/15/23 11:55	05/15/23 16:17	0.2
890-4666-16	SS09A	Solid	05/15/23 12:00	05/15/23 16:17	1
890-4666-17	SS10	Solid	05/15/23 12:05	05/15/23 16:17	0.2
890-4666-18	SS10A	Solid	05/15/23 12:10	05/15/23 16:17	1
890-4666-19	SS11	Solid	05/15/23 12:15	05/15/23 16:17	0.2
890-4666-20	SS11A	Solid	05/15/23 12:20	05/15/23 16:17	1
890-4666-21	SS12	Solid	05/15/23 12:25	05/15/23 16:17	0.2
890-4666-22	SS12A	Solid	05/15/23 12:30	05/15/23 16:17	1

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

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

Relinquished by: (Signature)

Received by: (Signature)

11 12 13

Chain of Custody

Total 200.7 / 6010	FS10	FS09	FS08	FS07	FS06	FS05	FS04	FS03	FS02	FS01	Sample Identification	tal Containers:	mple Custody Seals	oler Custody Seals:	imples Received Intact:	AMPLE RECEIPT	*	impler's Name:	oject Location:	oject Number:	oject Name:	none:	ty, State ZIP:	idress:	ompany Name:	oject Manager:			eurofins
0 200.8 / 6020:											ification		s: Yes No	Yes	act: (Yes)	T Iemp Blank:		Peter	32.1222,-103.9408	03D	Cabo Wabo Federal 24 B CTB	432-557-8895	Midland, TX 79701	601 N Marienfeld St Suite 400	Ensolum, LLC	Hadlie Green		×	
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8RCRA 13PPM	1050	1045	1040	1035	1030	1025	1020	1015	1010	1005	Time Sampled	mperature:	Reading:	ctor:	i i	Wet Ice:	the lab, it received by 4:30pm	TAT starts the day received by	Due Date:	☑ Routine	Turr	Email:							ting
- 11	0.5'	0.5'	0.5'	0.5'	0.5'	0.5'	0.5'	0.5'	0.5'	0.5	Depth	1.0	1.0	6.6-	Noos	Yes	ceived by 4	e day recei		Rush	Turn Around	hgreen@ensolum.com, kjennings@ensolum.com	City, State ZIP	Address:	Company Name	Bill to: (if different)			
Texas 11	Comp	Grab/ Comp			U	B	8	:3upm	ved by				Densolu	le ZIP:		y Name:	different)	Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296	Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300									
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PO #:

Sampler's Name: Project Location: Project Number: Project Name:

Sample Custody S Cooler Custody Se Samples Received SAMPLE REC

Total Containers:

Phone:

City, State ZIP:

Address:

Project Manager: Company Name:

service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control Eurofins Xenco. A minimum charge of \$8.5.00 will be applied to each project and a charge of \$6 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated otice: 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 5.15.23617 Date/Time Relinquished by: (Signature) Received by: (Signature) Date/Time

Revised Date: 08/25/2020 Rev. 2020.2

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Received by: (Signature)

Relinquished by: (Signature)

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

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Notice: Signature of this document and relinquishment of samples constitutes a valid purchase or

wice. Eurofins Xenco will be liable only for the cost of samples and shall not assume any res

,00 will be applied to each project and a charge of \$6 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated

Date/Time

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Revised Date 08/25/2020 Rev. 2020 2

13

eurofins Xenco **Environment Testing**

Chain of Custody

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

Work Order No:

Kalei Jennings Ensolum, LLC 601 N Marienfeld St Suite 400 Midland, TX 79701 com, kjennings@ensolum.com ANALYSIS REQUENTING	ANALYSIS REQU	ANALYSIS REQU	ANALYSIS REQU	Www.xenco.com Page 2 Work Order Comments	ANALYSIS REQU	pth Grab/ Comp Comp Comp Comp Comp Comp Comp Comp	pth		- - - - - - - 	Pth	Pth	- - - - - 	 					1	day received by ved by 4:30pm	Rush	round	reen@ensolu	ity, State ZIP:	ddress:	ompany Name:	sill to: (if different)	Hobbs
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SAMPLE RECEIPT

Temp Blank:

Yes No

Wet Ice:

Yes

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N_O No

N/A N/A

Correction Lac

Samples Received Intact:

imple Custody Seals: oler Custody Seals:

Yes Yes

Temperature Rea Corrected Temperature:

Sample Identification

Date Sampled

Sampled

Time

Depth

Sampler's Name: Project Location: Project Number: Project Name: City, State ZIP:

Midland, TX 79701

432-557-8895

Email: hgreen Turn Around

City, St. Address

Cabo Wabo Federal 24 B CTB

03D2024153

32.1222,-103.9408

Due Date: ☑ Routine

the lab, if received by TAT starts the day rece

Peter Van Patten

601 N Marienfeld St Suite 400

Company Name: Project Manager:

Ensolum, LLC Hadlie Green

Compar Bill to: (Relinquished by: (Signature)

Received by: (Signature)

5-15-23

Date/Time

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Revised Date 08/25/2020 Rev. 2020.2

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eurofins

Chain of Custody

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

	56	Xenco			I 0	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	X (915)	585-344 192-7550	3, Lubbo), Cartsb	ad, NM	(806) 79	4-1296 8-3199			www.	www.xenco.com	Page	of V
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	432-557-8895			Email:	Email: hgreen@ensolum.com, kjennings@ensolum.com	nsolum.	com, k	jenning	gs@en	solum.	com		L	Deliverables: EDD		ADaPT [T Other:	
roject Name:	Cabo Wabo Federal 24 B CTB	Federa	124 B CTB	Turr	Turn Around						A	ANALYSIS	IS REQUEST	JEST			Preserva	Preservative Codes
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rolect Location:	32.12	32.1222,-103.9408	9408	Due Date:													Cool: Cool	MeOH: Me
ampler's Name:	Peter	Peter Van Patten	tten	TAT starts th	TAT starts the day received by	\$											HCL: HC	HNO3: HN
, *				the lab, if rec	the lab, if received by 4:30pm	Ц.	_					-					H ₂ S0 ₄ : H ₂	NaOH: Na
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otal Containers:			Corrected Temperature:	mpelature:			IDE	015)	8021								NaOH+Ascorbic Acid: SAPC	: Acid: SAPC
Sample Identification	tification	Matrix	Date Sampled	Time Sampled	Depth Gr	Grab/ # of Comp Cont	CHLOR	TPH (8	BTEX (Sample	Sample Comments
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office: 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 the control samples constitutes and shall not assume any responsibility for any losses or expenses incurred by the client it such losses are due to circumstances beyond the control	document and relin	quishment	of samples cons	titutes a valid p	urchase order fr	om client	company	y to Euro	fins Xenc	o, its affi	liates an	d subcon	ractors. It	ctors. It assigns standard terms and conditions ses are due to circumstances beyond the contro	rms and co	nditions e control		
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Samples Received Intact: Cooler Custody Seals:

SAMPLE RECEIPT

Sampler's Name:

Project Location:

Project Number: Project Name: City, State ZIP:

Project Manager:

Login Sample Receipt Checklist

 Client: Ensolum
 Job Number: 890-4666-1

 SDG Number: 03D2024153

Login Number: 4666 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	

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Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4666-1 SDG Number: 03D2024153

List Source: Eurofins Midland

List Number: 2 Creator: Rodriguez, Leticia

Login Number: 4666

List Source: Eurofins Midland List Creation: 05/17/23 10:46 AM

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

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APPENDIX E

NMOCD Notifications

From: <u>Hamlet, Robert, EMNRD</u>

To: <u>Hadlie Green</u>

Cc: Carlile, Justin; Kalei Jennings; Bratcher, Michael, EMNRD; Nobui, Jennifer, EMNRD; Harimon, Jocelyn, EMNRD

Subject: (Extension Approval) - COG - Cabo Wabo Federal 24 B CTB (Incident Number NAPP2301933240)

Date: Wednesday, March 29, 2023 3:29:41 PM

Attachments: <u>image005.jpg</u>

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

[**EXTERNAL EMAIL**]

RE: Incident #NAPP2301933240

Hadlie.

Your request for an extension to **July 4th, 2023** is approved. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced

Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave.| Artesia, NM 88210

575.909.0302 | robert.hamlet@state.nm.us

http://www.emnrd.state.nm.us/OCD/



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

Sent: Wednesday, March 29, 2023 1:16 PM

To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>

Subject: FW: [EXTERNAL] COG - Extension Request - Cabo Wabo Federal 24 B CTB (Incident Number

NAPP2301933240)

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: Wednesday, March 29, 2023 9:02 AM

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

Cc: Carlile, Justin < <u>Justin.Carlile@conocophillips.com</u>>; Kalei Jennings < <u>kjennings@ensolum.com</u>> **Subject:** [EXTERNAL] COG - Extension Request - Cabo Wabo Federal 24 B CTB (Incident Number

NAPP2301933240)

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 24 B CTB (Incident Number NAPP2301933240)

COG Operating, LLC (COG) is requesting an extension for the current deadline of April 5, 2023, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC for Cabo Wabo Federal 24 B CTB (Incident Number NAPP2301933240). The release was discovered on January 5, 2023. Initial site assessment activities have been completed and excavation activities are ongoing. 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 July 4, 2023.

Thank you,



Hadlie Green

Project Manager 432-557-8895 hgreen@ensolum.com Ensolum, LLC From: Enviro, OCD, EMNRD

To: Hadlie Green

Subject: RE: [EXTERNAL] COP - Sampling Notification (Week of 5/8/2023)

Date: Monday, May 8, 2023 3:54:01 PM

Attachments: <u>image005.jpg</u>

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.

JΗ

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: Friday, May 5, 2023 2:40 PM

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

Cc: Kalei Jennings <kjennings@ensolum.com>

Subject: [EXTERNAL] COP - Sampling Notification (Week of 5/8/2023)

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 sites the week of May 8, 2023.

- Cabo Wabo Federal Com 801H and Cabo Wabo Federal Com 704-706 / NAPP2301933240 and NAPP2304550164
 - Sampling Date: 5/12/2023 @ 10:00 AM MST

Thank you,



Hadlie Green

Project Geologist 432-557-8895

hgreen@ensolum.com
Ensolum, LLC

From: Enviro, OCD, EMNRD

To: Hadlie Green

Cc: <u>Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD</u>

Subject: RE: [EXTERNAL] COP - Sampling Notification (Week of 5/15/2023)

Date: Friday, May 12, 2023 5:02:54 PM

Attachments: <u>image005.jpg</u>

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

[**EXTERNAL EMAIL**]

Hadlie,

Please be aware that notification requirements are **two business days**, per rule. You may proceed on your schedule. This, and all correspondence, should be included in the closure report to insure inclusion 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: Friday, May 12, 2023 7:38 AM

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

Cc: Kalei Jennings <kjennings@ensolum.com>

Subject: [EXTERNAL] COP - Sampling Notification (Week of 5/15/2023)

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 May 15, 2023.

- Cabo Wabo Federal Com 704-706 / NAPP2304550164
 - Sampling Date: 5/15/2023 @ 10:00 AM MST

Thank you,



Hadlie Green

Project Geologist 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

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	NAPP2301933240
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	COG Operating, LLC	OGRID	229137
Contact Name	Justin Carlile	Contact Telephone	(432) 202-4112
Contact email	Justin.Carlile@ConocoPhillips.com	Incident # (assigned by OCD)	NAPP2301933240
Contact mailing address	600 West Illinois Avenue, Midlar	nd, Texas 79701	
·	·		·

			Location of R	Release Source	e		
Latitude	32.1222						
			(NAD 83 in decimal de	grees to 5 decimal place	es)		
Site Name		Cabo Wabo	Federal 24 B CTB	Site Type	Tank Battery		
Date Release	e Discovered	January 5,	2023	API# (if applicable)			
Unit Letter	Section	Township	Dance	Country			
Unit Letter	Section	Township	Range	County			
С	24	25S	29E	Eddy			
Surface Own	er: State	■ Federal □ Tr	ribal Private (Name:)	
Sarrace Own	cr State		ioni Elivate (rame.			/	

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)							
Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)					
Produced Water	Volume Released (bbls) 7.816	Volume Recovered (bbls) 7					
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	■ Yes No					
Condensate	Volume Released (bbls)	Volume Recovered (bbls)					
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)					
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)					
C CD 1							

Cause of Release

The release was caused by a hole at the bottom of a flowback tank due to corrosion.

The release was on the pad. A vacuum truck was dispatched to remove all freestanding fluids. Evaluation will be made of the site to determine if we may commence remediation immediately or delineate any possible impact from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation activities.

Received by OCD: 5/28/2024 11254;2214M Form C-14-1 State of New Mexico Page 2 Oil Conservation Division

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Incident ID	NAPP2301933240
District RP	
Facility ID	
Application ID	

Was this a major release as defined by	If YES, for what reason(s) does the respo	nsible party consider this a major release?
19.15.29.7(A) NMAC?		
☐ Yes ■ No		
If YES, was immediate no	otice given to the OCD? By whom? To wh	nom? When and by what means (phone, email, etc)?
	Initial R	esponse
The responsible p	party must undertake the following actions immediate	y unless they could create a safety hazard that would result in injury
■ The source of the rele	ase has been stopped.	
■ The impacted area has	s been secured to protect human health and	the environment.
Released materials ha	we been contained via the use of berms or o	likes, absorbent pads, or other containment devices.
-	ecoverable materials have been removed an	
If all the actions described	d above have <u>not</u> been undertaken, explain	why:
has begun, please attach a	a narrative of actions to date. If remedial	emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred blease attach all information needed for closure evaluation.
regulations all operators are public health or the environment failed to adequately investigated addition, OCD acceptance of and/or regulations.	required to report and/or file certain release notinent. The acceptance of a C-141 report by the Cate and remediate contamination that pose a three fa C-141 report does not relieve the operator of	best of my knowledge and understand that pursuant to OCD rules and fications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws
Printed Name Brittan	ıy N. Esparza	Title: Environmental Technician
Signature:	za@ConocoPhillips.com	
Brittany.Esparz	za@ConocoPhillips.com	Date: 1/19/2023 Telephone: (432) 221-0398
Citidii.		reiephone ' ,
OCD Only		
Received by:	elyn Harimon	Date:01/19/2023

n ' 11 0cn	1/10/	2022.0	25.00 /1/		L	48 Spill V	olume Estimate	e Form NAPPS	23019332405
Received by OCD	: 1/19/2	Facility	Name & Number:	Alamo Maroon Con	e / Cabo Wabo Fe	d Com 704H,	705H, 706H	Control of Colors	orage 5 by 5
				Deleware Basin We					
	Releas	se Disco	overy Date & Time:	1/5/2023					
			Release Type:	Produced Water					
Provide a	ny know	n detail	s about the event:	Produced Water/Fr	ac Fluids				
	w	200	-		Spil	Calculation	n - On Pad Surface	e Pool Spill	
Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Deepest point in each of the areas (in.)	No. of boundaries of "shore" in each area	A PROPERTY OF THE PROPERTY OF THE PARTY OF T	Estimated Average Depth (ft.)	Estimated volume of each pool area (bbl.)	Penetration allowance (ft.)	Total Estimated Volume of Spill (bbl.)
Rectangle A	12.0	36.0	0.25	3	432.000	0.007	0.534	0.000	0.534
Rectangle B	48.0	60.0	0.25	2	2880.000	0.010	5.340	0.001	5.343
Rectangle C	36.0	33.0	0.25	3	1188.000	0.007	1.469	0.000	1.469
Rectangle D	4	4	3		0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle E	4	4	3		0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle F	7	4	3		0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle G	9	4	3		0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle H	4	4	3		0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle I	9	4	3		0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle J	1/	10/202	20.57.16.434		0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Released to Imagi	ing: 1/1	9/2023	5 9:3/:10 AM	ā V	2 20		10.	Total Volume Release:	7.346

NAPP2301933240

L48 Spill Volume Estimate Form	
Fed Com 704-706H	Page 4 of 5

Total Volume Release:

0.470

							Cidille Estilliate	1 01111	Page 4 of 5
Received by OCL): 1/19/	202319	235098AMmber:	Alamo Maroon Core	lamo Maroon Core / Cabo Wabo Fed Com 704-706H				
			Asset Area:	Deleware Basin W	eleware Basin West				
	Releas	se Disco	very Date & Time:	1/5/23 01:30am					
			Release Type:	Produced Water					
Provide a	ny know	n details	s about the event:	vent: Produced Water/Frac Fluids					
					Spil	Calculation	n - On Pad Surface i	Pool Spill	
Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Deepest point in each of the areas (in.)	No. of boundaries of "shore" in each area	A STATE OF THE PARTY OF THE PAR	Estimated Average Depth (ft.)	Estimated volume of each pool area (bbl.)	Penetration allowance (ft.)	Total Estimated Volume of Spill (bbl.)
Rectangle A	56.0	2.0	0.25	3	112.000	0.007	0.138	0.000	0.138
Rectangle B	56.0	2.0	0.25	3	112.000	0.007	0.138	0.000	0.138
Rectangle C	52.0	3.0	0.25	3	156.000	0.007	0.193	0.000	0.193
Rectangle D					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle E					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle F					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle G					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle H					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle I					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Released to Imag	ing: 1/	19/202	3 9:57:16 AM		0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

District I
1625 N. French Dr., Hobbs, NM 88240
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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 177432

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	177432
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created		Condition Date
jharin	None	1/19/2023

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ate of New Mexico

Incident ID NA PD22301023240

Incident ID	NAPP22301933240
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	>101 (ft bgs)	
Did this release impact groundwater or surface water?	☐ Yes ⊠ No	
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No	
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No	
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No	
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No	
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No	
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No	
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No	
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No	
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No	
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No	
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ⊠ No	
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.		
Characterization Report Checklist: Each of the following items must be included in the report.		
 Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information Topographic/Aerial maps Laboratory data including chain of custody 		

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

Received by OCD: 5/28/2024 11:54:22 AM Form C-141 State of New Mexico Page 4 Oil Conservation Division

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NAPP2301933240

Incident ID	NAPP2301933240
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Printed Name:Justin Carlile Title:Senior Environmental Engineer		
Signature: Date:06/29/2023		
email:Justin.Carlile@conocophillips.com Telephone:(432)202-4112		
OCD Only		
Received by: Shelly Wells Date: 6/30/2023		

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Incident ID	NAPP2301933240
District RP	
Facility ID	
Application ID	

Closure

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

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.		
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)		
□ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)		
□ Description of remediation activities		
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of	nediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for tions. The responsible party acknowledges they must substantially aditions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete.	
Signature:Justin Carlile	Date: _06/29/2023	
email:Justin.Carlile@conocophillips.com		
OCD Only		
Received by: _Shelly Wells	Date: 6/30/2023	
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.	
Closure Approved by:	Date:	
Printed Name:	Title:	

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

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

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

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

QUESTIONS

Action 348404

QUESTIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	348404
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2301933240
Incident Name	NAPP2301933240 CABO WABO FEDERAL 24 B CTB @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received

Location of Release Source	
Please answer all the questions in this group.	
Site Name	CABO WABO FEDERAL 24 B CTB
Date Release Discovered	01/05/2023
Surface Owner	Federal

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

Nature and Volume of Release		
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.		
Crude Oil Released (bbls) Details	Not answered.	
Produced Water Released (bbls) Details	Cause: Corrosion Tank (Any) Produced Water Released: 8 BBL Recovered: 7 BBL Lost: 1 BBL.	
Is the concentration of chloride in the produced water >10,000 mg/l	Yes	
Condensate Released (bbls) Details	Not answered.	
Natural Gas Vented (Mcf) Details	Not answered.	
Natural Gas Flared (Mcf) Details	Not answered.	
Other Released Details	Not answered.	
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.	

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

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

QUESTIONS, Page 2

Action 348404

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462	11 0, 1111 01 000
QUESTI	IONS (continued)
Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137 Action Number: 348404 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)
QUESTIONS	
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.	e. gas only) are to be submitted on the C-129 form.
Initial Response The responsible party must undertake the following actions immediately unless they could create a s	safety hazard that would result in injury.
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	iation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of vvaluation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releate OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required asses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
	Name: Brittany Esparza

Title: Environmental Technician

Date: 05/28/2024

Email: brittany.Esparza@ConocoPhillips.com

I hereby agree and sign off to the above statement

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

QUESTIONS, Page 3

Action 348404

QUESTIONS (continued)

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	348404
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization		
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)	
What method was used to determine the depth to ground water	Attached Document	
Did this release impact groundwater or surface water	No	
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:		
A continuously flowing watercourse or any other significant watercourse	Between 500 and 1000 (ft.)	
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)	
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)	
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)	
Any other fresh water well or spring	Between 1 and 5 (mi.)	
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)	
A wetland	Between 500 and 1000 (ft.)	
A subsurface mine	Greater than 5 (mi.)	
An (non-karst) unstable area	Greater than 5 (mi.)	
Categorize the risk of this well / site being in a karst geology	None	
A 100-year floodplain	Greater than 5 (mi.)	
Did the release impact areas not on an exploration, development, production, or storage site	No	

ided to the appropriate district office no later than 90 days after the release discovery date.		
Yes		
nination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.		
Yes		
No		
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)		
7030		
3740		
3740		
0		
0		
mpleted efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,		
02/16/2023		
02/27/2024		
02/27/2024		
15430		
0		
1950		
40		
on at the time of submission and may (be) change(d) over time as more remediation efforts are completed.		
,		

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

District I

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

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

QUESTIONS, Page 4

Action 348404

QUESTIONS (continued)

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	348404
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:		
(Select all answers below that apply.)		
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes	
Which OCD approved facility will be used for off-site disposal	R360 Artesia LLC LANDFARM [fEEM0112340644]	
OR which OCD approved well (API) will be used for off-site disposal	Not answered.	
OR is the off-site disposal site, to be used, out-of-state	Not answered.	
OR is the off-site disposal site, to be used, an NMED facility	Not answered.	
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No	
(In Situ) Soil Vapor Extraction	Not answered.	
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.	
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.	
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.	
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.	
OTHER (Non-listed remedial process)	Not answered.	

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

hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement

Name: Brittany Esparza Title: Environmental Technician

Email: brittany.Esparza@ConocoPhillips.com

Date: 05/28/2024

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to

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

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**

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Action 348404

QUESTIONS (continue

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	348404
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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

QUESTIONS, Page 6

Action 348404

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Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	348404
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	316803
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/27/2024
What was the (estimated) number of samples that were to be gathered	4
What was the sampling surface area in square feet	15305

Remediation Closure Request				
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.				
Requesting a remediation closure approval with this submission	Yes			
Have the lateral and vertical extents of contamination been fully delineated	Yes			
Was this release entirely contained within a lined containment area	No			
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes			
What was the total surface area (in square feet) remediated	1950			
What was the total volume (cubic yards) remediated	40			
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes			
What was the total surface area (in square feet) reclaimed	0			
What was the total volume (in cubic yards) reclaimed	0			
Summarize any additional remediation activities not included by answers (above)	N/A			

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Name: Brittany Esparza

I hereby agree and sign off to the above statement

Title: Environmental Technician

Email: brittany.Esparza@ConocoPhillips.com

Date: 05/28/2024

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Action 348404

QUESTIONS	(continued)

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	348404
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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CONDITIONS

Action 348404

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	348404
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2301933240 CABO WABO FEDERAL 24 B CTB, thank you. This Remediation Closure Report is approved.	5/29/2024