Location:	Corral Canyon EXP Battery				
Spill Date:	10/15/2023				
	Area 1				
Approximate A	rea =	3799.00	sq. ft.		
Average Satura	Average Saturation (or depth) of spill = 1.00				
Average Porosi	ty Factor =	0.03			
	VOLUME OF LEAK				
Total Crude Oil	=	0.00	bbls		
Total Produced Water = 11.69 bbls					

TOTAL VOLUME OF LEAK						
Total Crude Oil =	0.00	bbls				
Total Produced Water =	11.69	bbls				
TOTAL VOLUME RECOVERED						
Total Crude Oil =	0.00	bbls				
Total Produced Water = 10.00 bbls						



April 12, 2024

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

Re: Closure Request

Corral Canyon Expansion Battery Incident Number NAPP2330049344 Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared the following *Closure Request* to document excavation and soil sampling activities completed to address impacted soil at the Corral Canyon Expansion Battery (Site). Soil was impacted by a release of produced water onto the surface of the well pad. Based on excavation activities and analytical results from the soil sampling events, XTO is submitting this *Closure Request*, describing remediation that has occurred and requesting closure for Incident Number NAPP2330049344.

#### SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit P, Section 5, Township 25 South, Range 29 East, in Eddy County, New Mexico (32.15336°, -104.00022°) and is associated with oil and gas exploration and production operations on federal land managed by the Bureau of Land Management (BLM).

On October 15, 2023, internal corrosion of a water line resulted in the release of approximately 12 barrels (bbls) of produced water. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; approximately 10 bbls of fluid were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) and submitted a Release Notification Form C-141 (Form C-141) on October 27, 2023. The release was assigned Incident Number NAPP2330049344.

## 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 below.

Depth to groundwater at the Site is estimated to be between 50 feet and 100 feet below ground surface (bgs) based on the nearest groundwater well data. The nearest groundwater data is a New Mexico Office of the State Engineer (NMOSE) permitted monitoring well C-04324 POD8, located approximately 461 feet east of the Site. The depth to groundwater in the well was measured at 65 feet bgs with a total depth of 70 feet bgs. This measurement was taken on January 5, 2022, followed by the plugging and abandoning of the referenced well. All well data used for depth to water determination are depicted on Figure 1 and the referenced well records are included in Appendix A.

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

XTO Energy, Inc Corral Canyon Expansion Battery Closure Request



The closest continuously flowing or significant watercourse to the Site is a dry wash approximately 1,975 feet southeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (medium potential karst designation area). Site receptors are identified on Figure 1.

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

Benzene: 10 milligrams per kilogram (mg/kg)

Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg

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

TPH: 2,500 mg/kg

Chloride: 10,000 mg/kg

### SITE ASSESSMENT AND SAMPLING ACTIVITIES

On January 2, 2024, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Nine delineation soil samples (SS01 through SS09) were collected within and around the release extent at a depth of 0.5 feet bgs to assess the lateral extent of the release. The delineation soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included in Appendix B.

The delineation soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported at or below 6 degrees Celsius (°C) under strict chain-of-custody procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of the following contaminants 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 delineation soil samples SS01, SS02, SS03, and SS06, collected within the release extent indicated chloride concentrations were in compliance with the Closure Criteria, but exceeded the reclamation requirement. Laboratory analytical results for delineation soil samples SS04, SS05, and SS07 through SS09, collected outside the release extent, indicated all COC concentrations were compliant with the strictest Table I Closure Criteria, and confirmed the lateral extent of the release. Laboratory analytical results are summarized in Table 1. Based on the laboratory analytical results of SS01 through SS03, and SS06 exceeding the reclamation requirement and indicating the presence of waste-containing soil, additional remediation activities were warranted.

## **DELINEATION AND EXCAVATION SOIL SAMPLING ACTIVITIES**

From January 24 through January 26, 2024, Ensolum personnel returned to the Site to oversee delineation and excavation activities. Four potholes, PH01 through PH04, were advanced via hydrovac to depths ranging from 1-foot to 4 feet bgs in the vicinity of delineation soil samples SS01 through SS03

XTO Energy, Inc Corral Canyon Expansion Battery Closure Request



and SS06, respectively. Soil samples from the delineation potholes were collected at depths ranging from 1-foot to 4 feet bgs. The soil samples from the potholes were collected, field screening, handled, and analyzed following the same procedures as described above. Field screening results and observations for the potholes were logged on lithologic/soil sampling logs, which are included in Appendix C. The potholes and soil sample locations are depicted on Figure 2.

After the delineation activities were completed, waste-containing soil was excavated from the release area as indicated by visible staining and laboratory analytical results from the delineation soil samples. Excavation activities were performed using heavy equipment. To direct excavation activities, soil was screened for VOCs and chloride. The excavation was completed to depths ranging from 1-foot to 4 feet bgs. Photographic documentation of the excavation activities is included in Appendix B.

Following removal of the impacted soil, 5-point composite soil samples were collected at least every 200 square feet from the floor and sidewalls of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS15 were collected from the floor of the excavation at depths ranging from 1-foot to 4 feet bgs. Composite soil samples SW01 through SW05 were collected from the sidewall at depths ranging from ground surface to 4 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 indicated TPH concentrations in confirmation floor soil sample FS01 exceeded the reclamation requirement. As such, on February 20, 2024, Ensolum personnel returned to the Site to oversee additional excavation activities in the vicinity of FS01. to a depth of 2 feet bgs via backhoe and transport vehicle in the vicinity of FS01.

The excavation area measured approximately 2,968 square feet. A total of approximately 165 cubic yards of impacted soil were removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Facility in Carlsbad, New Mexico.

## LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for excavation floor soil samples FS01A through FS15 and sidewall soil samples SW01 through SW05 indicated all COC concentrations were compliant with the Closure Criteria and the applicable reclamation requirement in the top 4 feet. The laboratory analytical results are summarized on Table 1 and the complete laboratory analytical reports are included in Appendix D.

## **CLOSURE REQUEST**

Site assessment and excavation activities were conducted at the Site to address the October 15, 2023 release of produced water. Laboratory analytical results for the delineation soil samples, collected from the release extent, indicated all COC concentrations were compliant with the Site Closure Criteria as such, no remediation was required. Laboratory analytical results for the delineation soil samples indicated chloride concentrations exceeded the reclamation requirement applied in the top 4 feet. XTO removed all waste-containing soil that was accessible on pad. Laboratory analytical results for final excavation soil samples indicated all COC concentrations were compliant with the reclamation requirement.

The excavation was completed to the maximum extent possible, however, due to the proximity of production equipment surrounding the northern area of the release, excavation near the point of release could not be completed. Based on laboratory analytical results of the delineation soil samples a

XTO Energy, Inc Corral Canyon Expansion Battery Closure Request



maximum of 100 cubic yards of waste containing soil are left in place, assuming a maximum extent of 4 feet bgs, immediately adjacent to and underneath the active production equipment which will be addressed during pad abandonment or major facility reconstruction.

XTO will backfill the excavation with material purchased locally and recontour the Site to match preexisting site conditions. XTO believes remedial actions completed at the Site to address the release have been protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Number NAPP2330049344.

If you have any questions or comments, please contact Ms. Tacoma Morrissey at (337) 257-8307 or tmorrissey@ensolum.com.

Sincerely,

**Ensolum, LLC** 

Tracy Hillard Staff Engineer

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

cc: Amy Ruth, XTO

Bureau of Land Management

## Appendices:

Figure 1 Site Receptor Map

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

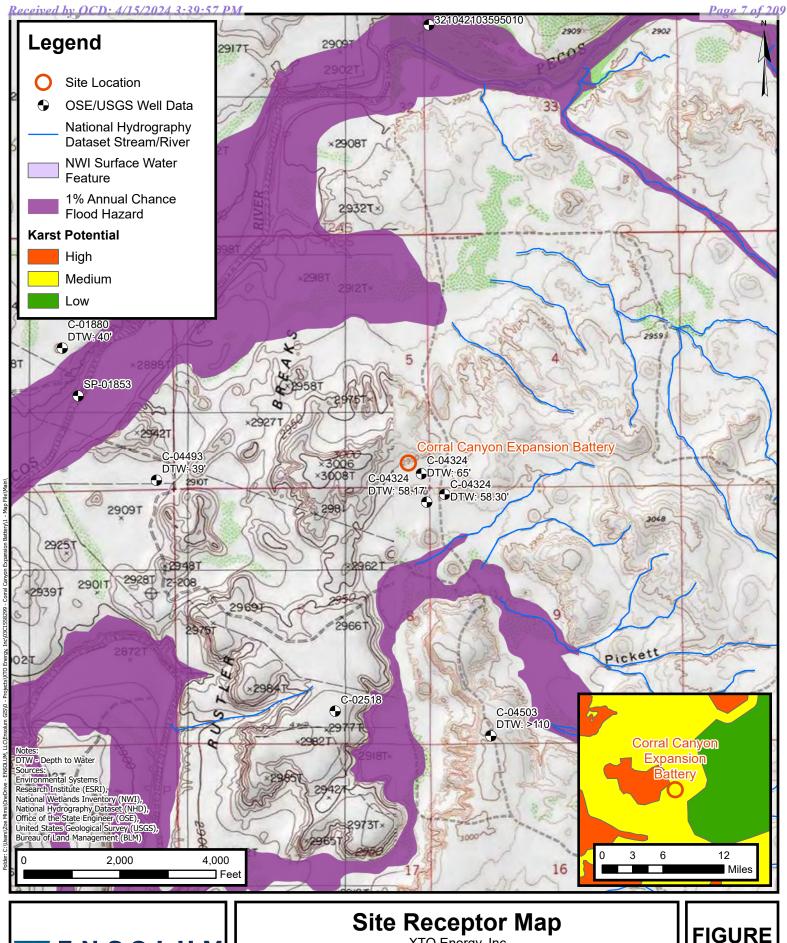
Appendix B Photographic Log

Appendix C Lithologic / Soil Sampling Logs

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



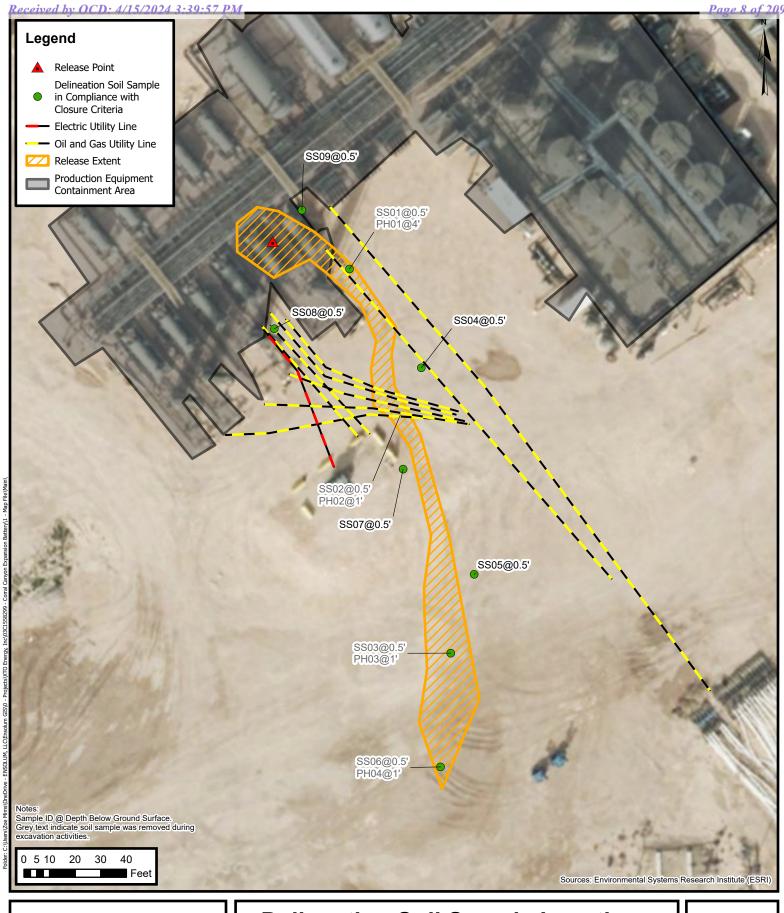
**FIGURES** 





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XTO Energy, Inc Corral Canyon Expansion Battery Incident Number: nAPP2330049344 Unit P, Sec 5, T25S, R29E Eddy County, New Mexico IGURE 1

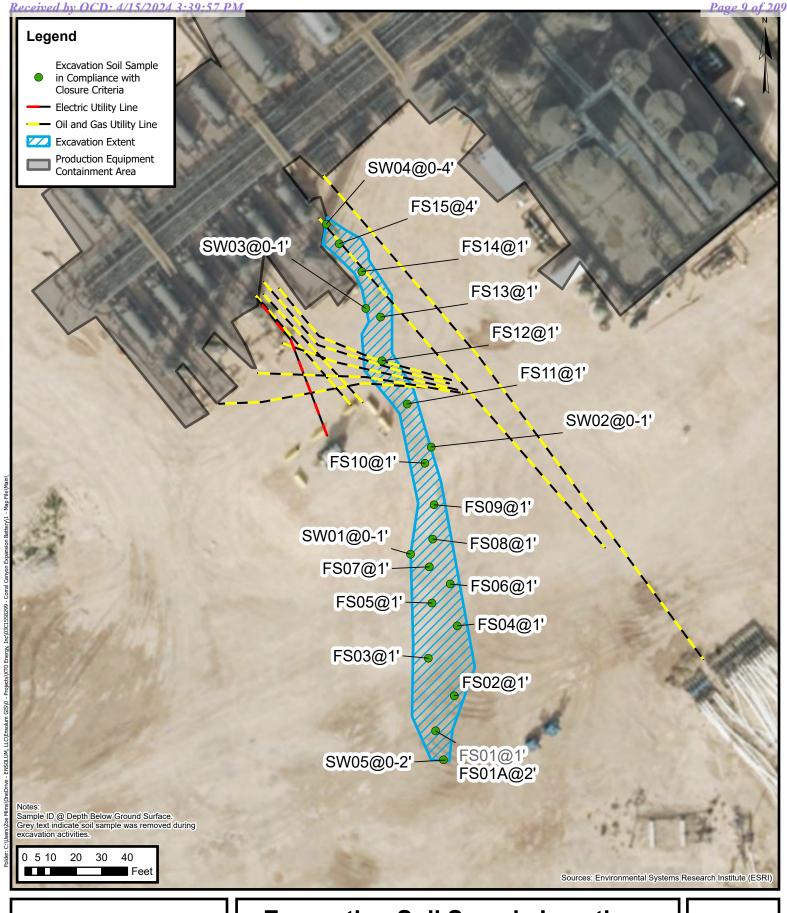




## **Delineation Soil Sample Locations**

XTO Energy, Inc Corral Canyon Expansion Battery Incident Number: nAPP2330049344 Unit P, Sec 5, T25S, R29E Eddy County, New Mexico FIGURE 2

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## **Excavation Soil Sample Locations**

XTO Energy, Inc Corral Canyon Expansion Battery Incident Number: nAPP2330049344 Unit P, Sec 5, T25S, R29E Eddy County, New Mexico FIGURE 3

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**TABLES** 



# TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Corral Canyon Expansion Battery XTO Energy, Inc Eddy County, New Mexico

	T									
Sample I.D.	Sample Date	Sample 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 C	losure Criteria (	NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	10,000
				Delir	neation Soil Sa	mples				
<del>\$\$01</del>	01/02/2024	0.5	<0.00201	<del>&lt;0.00402</del>	<b>&lt;50.1</b>	89.8	<del>&lt;50.1</del>	89.8	89.8	<del>7,410</del>
PH01	01/25/2024	4	<0.00200	<del>&lt;0.00401</del>	<b>&lt;50.1</b>	<del>&lt;50.1</del>	<del>&lt;50.1</del>	<del>&lt;50.1</del>	<del>&lt;50.1</del>	3,860
<del>\$\$02</del>	01/02/2024	0.5	<0.00200	<del>&lt;0.00399</del>	<b>&lt;50.4</b>	<del>52.8</del>	<del>&lt;50.4</del>	<del>52.8</del>	<del>52.8</del>	2,250
PH02	01/24/2024	4	<0.00199	<del>&lt;0.00398</del>	<50.4	<b>&lt;50.4</b>	<50.4	<del>&lt;50.4</del>	<50.4	204
<del>SS03</del>	01/02/2024	0.5	<0.00198	<0.00397	< <del>50.5</del>	<del>51.8</del>	< <del>50.5</del>	<del>51.8</del>	<del>51.8</del>	3,120
PH03	01/24/2024	4	<0.00199	<del>&lt;0.00398</del>	<del>&lt;50.0</del>	<del>&lt;50.0</del>	<del>&lt;50.0</del>	< <del>50.0</del>	<del>&lt;50.0</del>	440
SS04	01/02/2024	0.5	<0.00199	<0.00398	<49.7	<49.7	<49.7	<49.7	<49.7	248
SS05	01/02/2024	0.5	<0.00198	<0.00396	<49.7	<49.7	<49.7	<49.7	<49.7	296
SS06	01/02/2024	0.5	<0.00200	<0.00400	<del>&lt;50.1</del>	540	<50.1	540	540	318
PH04	01/24/2024	4	<0.00200	<0.00399	<del>&lt;50.0</del>	<del>&lt;50.0</del>	<50.0	<50.0	<50.0	122
SS07	01/02/2024	0.5	<0.00199	<0.00398	<50.5	67.1	<50.5	67.1	67.1	219
SS08	01/02/2024	0.5	<0.00200	<0.00401	<49.7	55.9	<49.7	55.9	55.9	62.4
SS09	01/02/2024	0.5	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	63.5
				Confi	irmation Soil Sa	imples				
FS01	01/25/2024	4	<0.00199	<del>&lt;0.00398</del>	<49.8	104	<4 <del>9.8</del>	104	104	198
FS01A	02/20/2024	2	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	300
FS02	01/25/2024	1	<0.00199	<0.00398	<50.1	<50.1	<50.1	<50.1	<50.1	209
FS03	01/25/2024	1	<0.00200	<0.00399	<49.7	<49.7	<49.7	<49.7	<49.7	203
FS04	01/25/2024	1	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	218
FS05	01/25/2024	1	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	197
FS06	01/25/2024	1	<0.00199	<0.00398	<49.6	<49.6	<49.6	<49.6	<49.6	191
FS07	01/25/2024	1	<0.00199	<0.00398	<50.2	<50.2	<50.2	<50.2	<50.2	181
FS08	01/25/2024	1	<0.00200	<0.00399	<50.5	<50.5	<50.5	<50.5	<50.5	194
FS09	01/25/2024	1	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	185
FS10	01/26/2024	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	175
FS11	01/26/2024	1	<0.00199	<0.00398	<49.7	<49.7	<49.7	<49.7	<49.7	167
FS12	01/26/2024	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	183
FS13	01/26/2024	1	<0.00199	<0.00398	<50.3	<50.3	<50.3	<50.3	<50.3	185
FS14	01/26/2024	1	<0.00198	<0.00396	<50.2	<50.2	<50.2	<50.2	<50.2	180
FS15	01/26/2024	4	<0.00201	<0.00402	<50.5	<50.5	<50.5	<50.5	<50.5	267
SW01	01/25/2024	0-1	<0.00200	<0.00401	<49.7	<49.7	<49.7	<49.7	<49.7	176

Ensolum 1 of 2



# TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Corral Canyon Expansion Battery XTO Energy, Inc Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)		10	50	NE	NE	NE	1,000	2,500	10,000	
SW02	01/25/2024	0-1	<0.00199	<0.00398	<50.4	<50.4	<50.4	<50.4	<50.4	214
SW03	01/26/2024	0-1	<0.00202	<0.00404	<50.4	<50.4	<50.4	<50.4	<50.4	194
SW04	01/26/2024	0-4	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	322
SW05	02/20/2024	0-2	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	222

#### Notes:

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

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation

requirement where applicable.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code

Grey text indicates soil sample removed during excavation activities

Ensolum 2 of 2



**APPENDIX A** 

Referenced Well Records



	OSE POD NO	•	.)		WELL TAG ID N	O.		OSE FILE NO	S).					
N Z	[POD 8 (MW02)							C-4324						
AT.	WELL OWNER NAME(S)								PHONE (OPTIONAL)					
)O	XTO Energ	gy, Inc.						432-221-73	31					
TT	WELL OWN	ER MAILING	ADDRESS				,	CITY		STATE		ZIP		
VEL	522 W Me	rmond, Su	iite 704					Carlsbad		NM	88220			
AND WELL LOCATION			Di	EGREES	MINUTES	SECO	vine							
AN	WELL			32	9	10.	Λ1	* ACCUPACY	REQUIRED: ONE TEN	THOEA	ECOND			
IAI.	LOCATIO	<u> </u>	TITUDE	<del></del>			N	l	QUIRED: WGS 84	In or A	SECOND			
GENERAL	(FROM GF	LO	NGITUDE	103	59	54.	38 W	DATUM KE	QUIKED: WGS 84					
GE	DESCRIPTION	ON RELATIN	IG WELL LOCATION TO	STREET ADD	RESS AND COMMO	ON LANDM	ARKS – PLS	S (SECTION, TO	WNSHJIP, RANGE) WH	ERE AVA	ILABLE			
1.	South East	Quarter o	f South East Quarte	er of Section	5, Township 25	5 South, 1	Range 29	East, Eddy C	ounty, New Mexic	0				
			T "="					<del></del>						
	LICENSE NO		NAME OF LICENSED	DRILLER	Shawn Cain				NAME OF WELL DR					
										ascade [				
	DRILLING S 7/21/2		DRILLING ENDED	DEPTH OF CO	MPLETED WELL ( 69	FT)		E DEPTH (FT)	DEPTH WATER FIR.					
	1/21/2	2019	7/21/2019		09			70		65				
	COMPLETE	) WELL IS:	ARTESIAN	DRY HOL	E 🔽 SHALL	OW (LINCO	NEINEL		STATIC WATER LEV			LL (FT)		
Z				, 2111102	, OIE1BE	on (enec	ATT II VEED)			60				
4T)	DRILLING FI	LUID.	₹ AIR	MUD	ADDITI	IVES - SPE	CIFY:							
CASING INFORMATION	DRILLING M	TETHOD:	ROTARY	HAMMER	CABLE	TOOL	✓ OTHE	ER - SPECIFY: Sonic						
F	DEPTH	(feet bgl)	BORE HOLE	CASING	MATERIAL AN	D/OR		ania	CASING	CAGI	NG WALL			
5	FROM TO		DIAM		GRADE			SING ECTION	INSIDE DIAM.		CKNESS	SLOT SIZE		
\SI			(inches)		each casing string sections of screer			YPE ing diameter)	(inches)	(	inches)	(inches)		
& C	0	70	6				(add bodp)	ing didinotor)						
YG.	0	49		2	" PVC Blank		Flush Th	read SCH 40	2.067		.154			
DRILLING	49	69		2	" PVC Screen		Flush Th	read SCH 40	2.067		154-	.020		
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IAI	FROM	то	DIAM. (inches)	GRA	VEL PACK SIZI		BYINTE	RVAL	(cubic feet)		PLACEN	1ENT		
TEI	0	2	6			oncrete			.5 Poi		Poure	ed		
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ANNULAR MATERIAL														
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3.														
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POD NO.

TRN NO.

WELL TAG ID NO.

PAGE 1 OF 2

FILE NO.

LOCATION

C-4324

PAGE 2 OF 2

WELL TAG ID NO.

	DEPTH (1	feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUN INCLUDE WATER-BEARING CAVITIES OR FRAC (attach supplemental sheets to fully describe a	TURE ZONES	WATER BEARING? (YES/NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	0	14	14	(SP-SM) - brown-light brown silty SANI	Y ✓ N		
	14	24	10	(CLCHE) - tan CALICHE		Y VN	
	24	49	25	(ML) - light brown-red SILT		Y ✔N	
	49	51	2	(CLCHE) - tan-light brown CALICHE		Y VN	
	51	60	9	(SP) - tan-light brown SAND		Y ✓N	
د	60	70	10	(CH) - red-brown silty CLAY		✓ Y N	
VEL				(4-1), 100 00 0		YN	
OF V					<del></del>	Y N	
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4. HYDROGEOLOGIC LOG OF WELL						Y N	
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	METHOD U	SED TO ES	TIMATE YIELD	OF WATER-BEARING STRATA:		TOTAL ESTIMATED	
	PUMI		IR LIFT	BAILER OTHER - SPECIFY:		WELL YIELD (gpm):	0.00
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NOIS	WELL TES	T TEST	RESULTS - ATT. I TIME, END TII	ACH A COPY OF DATA COLLECTED DURING WELL T ME, AND A TABLE SHOWING DISCHARGE AND DRAW	ESTING, INCI WDOWN OVE	LUDING DISCHARGE N R THE TESTING PERIC	METHOD, D.
SVIS.	MISCELLAI	NEOUS INF	ORMATION:				~ (
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เก๋							 
i							
E I	BY SIGNIN RECORD OF	G BELOW, F THE ABO	, I CERTIFY TH VE DESCRIBED	AT TO THE BEST OF MY KNOWLEDGE AND BELIE WELL. I ALSO CERTIFY THAT THE WELL TAG, IF RE	EF, THE FORE	EGOING IS A TRUE A S BEEN INSTALLED AN	ND CORRECT
SIGNATURE				WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER			
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6. SIC		チャー	· L ·	Shavm (Ain)		8-23-19	•
		SIGNAT	URE OF DRILLE	R / PRINT SIGNEE NAME		DATE	,
					****		
	R OSE INTERI E NO.	NAL USE		POD NO.	WR-20 WEL TRN NO.	L RECORD & LOG (Ver	sion 04/30/2019)
1				10010.			

LOCATION



# PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

State I	Engineer Well Number:	4323 POD 8 (MW	/02)					
Well o	wner: XTO Energy, Inc.	4324			Phone	No.: 432	-221-7331	
Mailin	ng address: 522 W Mermod	Suit 704						
City:	Carlsbad		State: _		NM		_ Zip code:	88220
II. W	ELL PLUGGING INFOR							
1)	Name of well drilling co	mpany that plug	ged well: Ja	ckie D. Atk	ins ( Atkins E	ngineering	Associates In	ıc.)
2)	New Mexico Well Drille							
3)	Well plugging activities Shane Eldridge	were supervised	by the follow	ving well d	riller(s)/rig su	pervisor(s	):	
4)	Date well plugging bega	n: 1/05/2022		Date w	ell plugging c	oncluded:	1/05/2022	
5)	GPS Well Location:	Latitude: Longitude:		deg,	9 min, 59 min,		_ sec _ sec, WGS 8	14
6)	Depth of well confirmed by the following manner		lugging as:	70.95	ft below grou	and level (	bgl),	
7)	Static water level measur	red at initiation o	f plugging:	63.68	ft bgl			
8)	Date well plugging plan	of operations wa	s approved b	y the State	Engineer: _	2/26/2021	_	
9)	Were all plugging activit differences between the							
						, mg -	OF MIT TALL	2022 PM1:35

Version: September 8, 2009 Page 1 of 2

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

## For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of <u>Material Placed</u> (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement  Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
-	0-70.9' Portland Type I/II Neat Cement	27 gallons	12.3 gallons	tremie	
-					
-	LATURE.	MULTIPLY cubic feet x 7 cubic yards x 201	BY AND OBTAIN 7.4805 = gallons 1.97 = gallons	OSEI	DII JAN 7 2022 PM1:39

## III. SIGNATURE:

I, Jackie D. Atkins , say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

 Jack Atkins
 01/07/2022

 Signature of Well Driller
 Date

Version: September 8, 2009 Page 2 of 2

# 2022-1-7\_C-4323-pod8\_\_WD-11 Plugging Record

Final Audit Report 2022-01-07

Created: 2022-01-07

By: Lucas Middleton (lucas@atkinseng.com)

Status: Signed

Transaction ID: CBJCHBCAABAANmYNHH8R5wc4ezc9CnfxGGDfkGmuMWbH

## "2022-1-7\_C-4323-pod8\_\_WD-11 Plugging Record" History

- Document created by Lucas Middleton (lucas@atkinseng.com) 2022-01-07 5:18:10 PM GMT- IP address: 69.21.248.123
- Document emailed to Jack Atkins (jack@atkinseng.com) for signature 2022-01-07 5:18:35 PM GMT
- Email viewed by Jack Atkins (jack@atkinseng.com) 2022-01-07 5:19:01 PM GMT- IP address: 64.90.153.232
- Document e-signed by Jack Atkins (jack@atkinseng.com)
  Signature Date: 2022-01-07 5:19:15 PM GMT Time Source: server- IP address: 64.90.153.232
- Agreement completed. 2022-01-07 - 5:19:15 PM GMT

OSE DII JAN 7 2022 PM1:39





**APPENDIX B** 

Photographic Log



## **Photographic Log**

XTO Energy INC.
Corral Canyon Expansion Battery
NAPP2330049344





Photograph: 1 Date: 1/2/2024

Description: Release area.

View: North

Photograph: 2 Date: 1/24/2024

Description: Soil staining in release footprint.

View: North





Photograph: 3 Date: 1/24/2024

Description: Delineation of release area.

View: North

Photograph: 4 Date: 1/24/2024

Description: Delineation of southern area.

View: West



## **Photographic Log**

XTO Energy INC.
Corral Canyon Expansion Battery
NAPP2330049344





Photograph: 5 Date: 1/24/2024

Description: Excavation activities.

View: South

Photograph: 6 Date: 1/26/2024

Description: Excavation extent.

View: Northwest





Photograph: 7 Date: 1/26/2024

Description: Excavation extent.

View: South

Photograph: 8 Date: 1/26/2024

Description: Excavation extent.

View: North



## **Photographic Log**

XTO Energy INC. Corral Canyon Expansion Battery NAPP2330049344





Photograph: 9

Description: Excavation extent

View: Southeast

Date: 2/20/2024 Photograph: 10

Date: 2/20/2024

Description: Excavation extent

View: North





Photograph: 11

Description: Excavation extent

View: Northeast

Date: 2/20/2024

Photograph: 12

Date: 2/20/2024

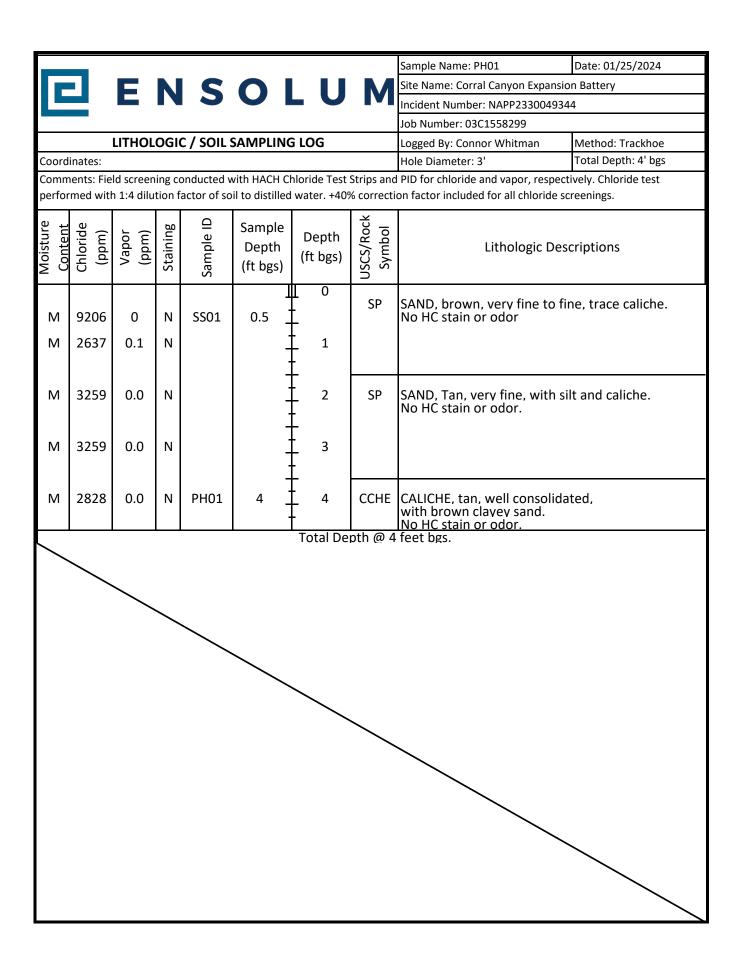
Description: Excavation extent

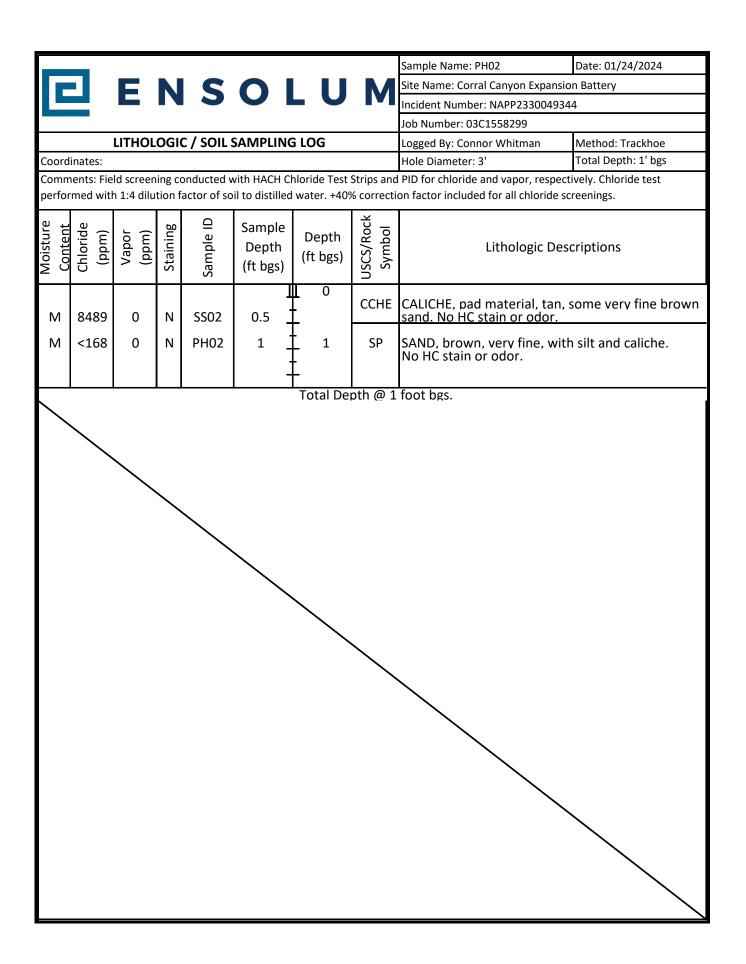
View: Southwest

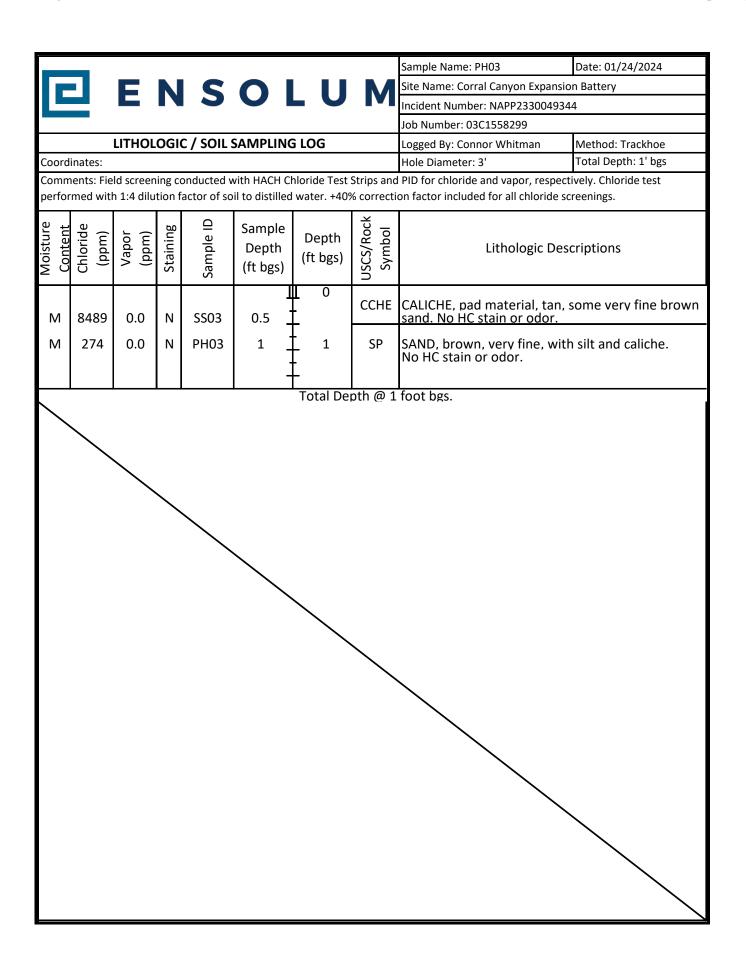


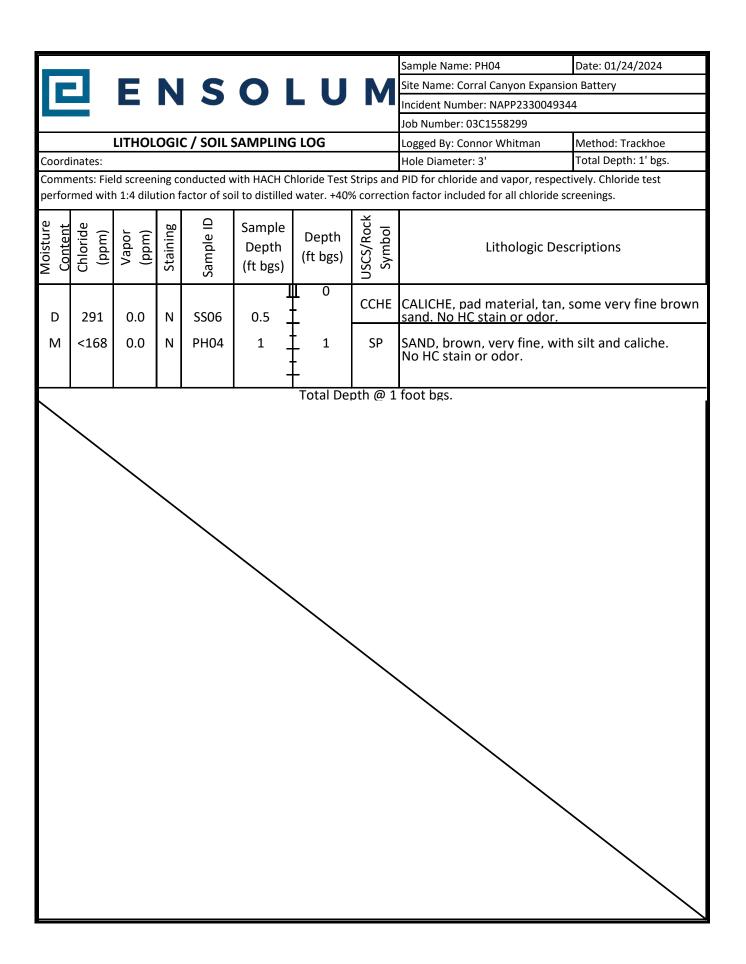
APPENDIX C

Lithologic Soil Sampling Logs











APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation

**Environment Testing** 

# **ANALYTICAL REPORT**

## PREPARED FOR

Attn: Tacoma Morrissey Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701

Generated 1/8/2024 3:43:13 PM

## **JOB DESCRIPTION**

CORRAL CANYON EXPANSION BATTERY 03C1558299

## **JOB NUMBER**

890-5870-1

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 1/8/2024 3:43:13 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: CORRAL CANYON EXPANSION BATTERY Laboratory Job ID: 890-5870-1 SDG: 03C1558299

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## **Definitions/Glossary**

Job ID: 890-5870-1 Client: Ensolum Project/Site: CORRAL CANYON EXPANSION BATTERY SDG: 03C1558299

#### **Qualifiers**

GC VOA	
Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.

## **GC Semi VOA**

U

Qualifier	Qualifier 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.

Indicates the analyte was analyzed for but not detected.

## HPLC/IC

Qualifier	Qualifier Description
П	Indicates the analyte was analyzed for but not detected

## **Glossary**

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

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

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor** 

DL Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

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

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

MDL Method Detection Limit 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

Presumptive **PRES Quality Control** QC

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

**Eurofins Carlsbad** 

## **Case Narrative**

Client: Ensolum Job ID: 890-5870-1

Project: CORRAL CANYON EXPANSION BATTERY

Job ID: 890-5870-1 Eurofins Carlsbad

#### Job Narrative 890-5870-1

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 1/2/2024 4:37 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 4.2°C

## **Receipt Exceptions**

The following samples were received and analyzed from an unpreserved bulk soil jar: SS04 (890-5870-1), SS05 (890-5870-2), SS06 (890-5870-3), SS07 (890-5870-4), SS08 (890-5870-5) and SS09 (890-5870-6).

## **GC VOA**

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-70148 recovered above the upper control limit for m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-70148/2).

Method 8021B: Surrogate recovery for the following samples were outside control limits: (CCV 880-70148/2), (CCV 880-70148/33), (CCV 880-70148/51), (LCS 880-70210/1-A), (LCSD 880-70210/2-A) and (890-5869-A-1-B MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (890-5869-A-1-A MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The laboratory control sample duplicate (LCSD) for preparation batch 880-70210 and analytical batch 880-70148 recovered outside control limits for the following analytes: m-Xylene & p-Xylene and o-Xylene. Since only an acceptable LCS is required per the method, the data has been qualified and reported.

Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-70210 and analytical batch 880-70148 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-70148 recovered above the upper control limit for o-Xylene. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-70148/51).

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 880-70271 and analytical batch 880-70348 was outside the upper control limits.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: SS04 (890-5870-1), SS05 (890-5870-2), SS06 (890-5870-3), SS07 (890-5870-4), SS08 (890-5870-5), SS09 (890-5870-6), (880-37547-A-101-D), (880-37547-A-101-F MSD). 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 880-70271 and analytical batch 880-70348 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix

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**Eurofins Carlsbad** 

1/8/2024

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## **Case Narrative**

Client: Ensolum Job ID: 890-5870-1

Project: CORRAL CANYON EXPANSION BATTERY

## Job ID: 890-5870-1 (Continued)

## **Eurofins Carlsbad**

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

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

**Eurofins Carlsbad** 

1/8/2024

Client: Ensolum Job ID: 890-5870-1

Project/Site: CORRAL CANYON EXPANSION BATTERY SDG: 03C1558299

Client Sample ID: SS04 Lab Sample ID: 890-5870-1 Date Collected: 01/02/24 13:40 Matrix: Solid Date Received: 01/02/24 16:37

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/04/24 13:48	01/05/24 01:47	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/04/24 13:48	01/05/24 01:47	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		01/04/24 13:48	01/05/24 01:47	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398	mg/Kg		01/04/24 13:48	01/05/24 01:47	1
o-Xylene	< 0.00199	U *+	0.00199	mg/Kg		01/04/24 13:48	01/05/24 01:47	1
Xylenes, Total	<0.00398	U *+	0.00398	mg/Kg		01/04/24 13:48	01/05/24 01:47	,
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130			01/04/24 13:48	01/05/24 01:47	1
1,4-Difluorobenzene (Surr)	73		70 - 130			01/04/24 13:48	01/05/24 01:47	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/05/24 01:47	1
Method: SW846 8015 NM - Diese Analyte		ics (DRO) ( Qualifier	GC) RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			01/06/24 16:13	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	
Gasoline Range Organics	<49.7	U	49.7					Dil Fac
(GRO)-C6-C10	10.7	Ü	49.7	mg/Kg		01/05/24 08:35	01/06/24 16:13	
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.7		49.7	mg/Kg mg/Kg		01/05/24 08:35 01/05/24 08:35		
Diesel Range Organics (Over C10-C28)		U					01/06/24 16:13	
Diesel Range Organics (Over C10-C28)	<49.7	U U	49.7	mg/Kg		01/05/24 08:35	01/06/24 16:13 01/06/24 16:13	1
C10-C28) OII Range Organics (Over C28-C36)	<49.7 <49.7	U U	49.7 49.7	mg/Kg		01/05/24 08:35 01/05/24 08:35	01/06/24 16:13 01/06/24 16:13 01/06/24 16:13	Dil Fac
Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<49.7 <49.7 	U U Qualifier S1+	49.7 49.7 <i>Limits</i>	mg/Kg		01/05/24 08:35 01/05/24 08:35 <b>Prepared</b>	01/06/24 16:13 01/06/24 16:13 01/06/24 16:13 Analyzed	Dil Fa
Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane	<49.7 <49.7 	U  Qualifier S1+ S1+	49.7 49.7  Limits 70 - 130 70 - 130	mg/Kg		01/05/24 08:35 01/05/24 08:35 <b>Prepared</b> 01/05/24 08:35	01/06/24 16:13 01/06/24 16:13 01/06/24 16:13 Analyzed 01/06/24 16:13	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	<49.7 <49.7  **Recovery 146 136  Chromatograp	U  Qualifier S1+ S1+	49.7 49.7  Limits 70 - 130 70 - 130	mg/Kg	D	01/05/24 08:35 01/05/24 08:35 <b>Prepared</b> 01/05/24 08:35	01/06/24 16:13 01/06/24 16:13 01/06/24 16:13 Analyzed 01/06/24 16:13	Dil Fac

**Client Sample ID: SS05** Lab Sample ID: 890-5870-2 Matrix: Solid

Date Collected: 01/02/24 13:45 Date Received: 01/02/24 16:37

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		01/04/24 13:48	01/05/24 02:07	1
Toluene	<0.00198	U	0.00198	mg/Kg		01/04/24 13:48	01/05/24 02:07	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		01/04/24 13:48	01/05/24 02:07	1
m-Xylene & p-Xylene	<0.00396	U *+	0.00396	mg/Kg		01/04/24 13:48	01/05/24 02:07	1
o-Xylene	<0.00198	U *+	0.00198	mg/Kg		01/04/24 13:48	01/05/24 02:07	1
Xylenes, Total	<0.00396	U *+	0.00396	mg/Kg		01/04/24 13:48	01/05/24 02:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130			01/04/24 13:48	01/05/24 02:07	1

**Eurofins Carlsbad** 

Client: Ensolum Project/Site: CORRAL CANYON EXPANSION BATTERY Job ID: 890-5870-1

SDG: 03C1558299

**Client Sample ID: SS05** Lab Sample ID: 890-5870-2

Matrix: Solid

Date Received: 01/02/24 16:37 Sample Depth: 0.5'

Date Collected: 01/02/24 13:45

Method: SW846 8021B	<ul> <li>Volatile Organic Compounds (</li> </ul>	(GC) (Continued)
---------------------	--	------------------

Surrogate	%Recovery Qualif	ier Limits	Prepared	Analyzed	Dil Fac
1.4-Difluorobenzene (Surr)	81	70 - 130	01/04/24 13:48	01/05/24 02:07	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			01/05/24 02:07	1

Mathada OMO40 0045 NM Disasi Danas Onnanias (DDO) (OO	Α.
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC	. 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	ma/Ka			01/06/24 16:34	1

## 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	<49.7	U	49.7	mg/Kg		01/05/24 08:35	01/06/24 16:34	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		01/05/24 08:35	01/06/24 16:34	1
Oll Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		01/05/24 08:35	01/06/24 16:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	152	S1+	70 - 130	01/05/24 08:3	5 01/06/24 16:34	1
o-Terphenyl	140	S1+	70 - 130	01/05/24 08:3	5 01/06/24 16:34	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	296		4.96	mg/Kg			01/08/24 09:28	1

**Client Sample ID: SS06** Lab Sample ID: 890-5870-3

Date Collected: 01/02/24 13:50 Date Received: 01/02/24 16:37

Sample Depth: 0.5'

## 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	<0.00200	U	0.00200	mg/Kg		01/04/24 13:48	01/05/24 03:31	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/04/24 13:48	01/05/24 03:31	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/04/24 13:48	01/05/24 03:31	1
m-Xylene & p-Xylene	<0.00400	U *+	0.00400	mg/Kg		01/04/24 13:48	01/05/24 03:31	1
o-Xylene	<0.00200	U *+	0.00200	mg/Kg		01/04/24 13:48	01/05/24 03:31	1
Xylenes, Total	<0.00400	U *+	0.00400	mg/Kg		01/04/24 13:48	01/05/24 03:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorohenzene (Surr)	118		70 130			01/04/24 13:48	01/05/24 03:31	

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	01/04/24 13:48	01/05/24 03:31	1
1,4-Difluorobenzene (Surr)	72		70 - 130	01/04/24 13:48	01/05/24 03:31	1

## **Method: TAL SOP Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			01/05/24 03:31	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	540		50.1	mg/Kg			01/06/24 16:55	1

**Eurofins Carlsbad** 

**Matrix: Solid** 

Client: Ensolum Job ID: 890-5870-1 Project/Site: CORRAL CANYON EXPANSION BATTERY SDG: 03C1558299

**Client Sample ID: SS06** Lab Sample ID: 890-5870-3

Date Collected: 01/02/24 13:50 Matrix: Solid Date Received: 01/02/24 16:37

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1	mg/Kg		01/05/24 08:35	01/06/24 16:55	1
Diesel Range Organics (Over C10-C28)	540		50.1	mg/Kg		01/05/24 08:35	01/06/24 16:55	1
Oll Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		01/05/24 08:35	01/06/24 16:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	139	S1+	70 - 130			01/05/24 08:35	01/06/24 16:55	1
o-Terphenyl	123		70 - 130			01/05/24 08:35	01/06/24 16:55	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
			4.95	mg/Kg			01/08/24 09:33	

Lab Sample ID: 890-5870-4 **Client Sample ID: SS07** 

Date Collected: 01/02/24 13:55 **Matrix: Solid** 

Date Received: 01/02/24 16:37

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/04/24 13:48	01/05/24 03:52	1
Toluene	< 0.00199	U	0.00199	mg/Kg		01/04/24 13:48	01/05/24 03:52	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/04/24 13:48	01/05/24 03:52	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398	mg/Kg		01/04/24 13:48	01/05/24 03:52	1
o-Xylene	<0.00199	U *+	0.00199	mg/Kg		01/04/24 13:48	01/05/24 03:52	1
Xylenes, Total	<0.00398	U *+	0.00398	mg/Kg		01/04/24 13:48	01/05/24 03:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130			01/04/24 13:48	01/05/24 03:52	1
1,4-Difluorobenzene (Surr)	80		70 - 130			01/04/24 13:48	01/05/24 03:52	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			01/05/24 03:52	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (	GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	67.1		50.5	mg/Kg			01/06/24 17:16	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	<50.5	U	50.5	mg/Kg		01/05/24 08:35	01/06/24 17:16	1
Diesel Range Organics (Over C10-C28)	67.1		50.5	mg/Kg		01/05/24 08:35	01/06/24 17:16	1
Oll Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		01/05/24 08:35	01/06/24 17:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	138	S1+	70 - 130			01/05/24 08:35	01/06/24 17:16	1

Matrix: Solid

# **Client Sample Results**

Client: Ensolum

Job ID: 890-5870-1 Project/Site: CORRAL CANYON EXPANSION BATTERY SDG: 03C1558299

**Client Sample ID: SS07** Lab Sample ID: 890-5870-4

Date Collected: 01/02/24 13:55 Matrix: Solid Date Received: 01/02/24 16:37

Sample Depth: 0.5'

Method: EPA 300.0 - Anions, Ion Cl	hromatograp	hy - Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	219		4.99	mg/Kg			01/08/24 09:48	1

**Client Sample ID: SS08** Lab Sample ID: 890-5870-5

Date Collected: 01/02/24 13:20

Date Received: 01/02/24 16:37

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/04/24 13:48	01/05/24 04:12	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/04/24 13:48	01/05/24 04:12	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/04/24 13:48	01/05/24 04:12	1
m-Xylene & p-Xylene	<0.00401	U *+	0.00401	mg/Kg		01/04/24 13:48	01/05/24 04:12	1
o-Xylene	<0.00200	U *+	0.00200	mg/Kg		01/04/24 13:48	01/05/24 04:12	1
Xylenes, Total	<0.00401	U *+	0.00401	mg/Kg		01/04/24 13:48	01/05/24 04:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130			01/04/24 13:48	01/05/24 04:12	1
1,4-Difluorobenzene (Surr)	78		70 - 130			01/04/24 13:48	01/05/24 04:12	1
· Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			01/05/24 04:12	1
Analyte Total TPH	Result 55.9	Qualifier	49.7	mg/Kg	D	Prepared	Analyzed 01/06/24 17:38	Dil Fac
Total TPH	55.9		49.7	mg/Kg			01/06/24 17:38	1
Method: SW846 8015B NM - Dies	•		• •		_	_		
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		01/05/24 08:35	01/06/24 17:38	1
Diesel Range Organics (Over C10-C28)	55.9		49.7	mg/Kg		01/05/24 08:35	01/06/24 17:38	1
Oll Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		01/05/24 08:35	01/06/24 17:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	152	S1+	70 - 130			01/05/24 08:35	01/06/24 17:38	1
o-Terphenyl	136	S1+	70 - 130			01/05/24 08:35	01/06/24 17:38	1
Method: EPA 300.0 - Anions, Ion	• •	•						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	62.4		4.96	mg/Kg			01/08/24 09:53	1

Matrix: Solid

# **Client Sample Results**

Client: Ensolum Job ID: 890-5870-1
Project/Site: CORRAL CANYON EXPANSION BATTERY SDG: 03C1558299

ient Sample ID: SS09

Lab Sample ID: 890-5870-6

Client Sample ID: SS09

Date Collected: 01/02/24 13:25

Date Received: 01/02/24 16:37

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		01/04/24 13:48	01/05/24 04:33	1
Toluene	<0.00202	U	0.00202	mg/Kg		01/04/24 13:48	01/05/24 04:33	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		01/04/24 13:48	01/05/24 04:33	1
m-Xylene & p-Xylene	<0.00404	U *+	0.00404	mg/Kg		01/04/24 13:48	01/05/24 04:33	1
o-Xylene	<0.00202	U *+	0.00202	mg/Kg		01/04/24 13:48	01/05/24 04:33	1
Xylenes, Total	<0.00404	U *+	0.00404	mg/Kg		01/04/24 13:48	01/05/24 04:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			01/04/24 13:48	01/05/24 04:33	1
1,4-Difluorobenzene (Surr)	75		70 - 130			01/04/24 13:48	01/05/24 04:33	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			01/05/24 04:33	1
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (	GC)					
Analyte	Result	Qualifier	RL	Unit mal/Ka	<u>D</u>	Prepared	Analyzed	Dil Fac
Analyte	•	Qualifier	•	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 01/06/24 17:59	Dil Fac
Analyte Total TPH	Result   <49.9	Qualifier U	<b>RL</b> 49.9		<u>D</u>	Prepared		Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die:	Result <49.9  sel Range Orga	Qualifier U	<b>RL</b> 49.9		<u>D</u>	Prepared Prepared		Dil Fac  Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte  Gasoline Range Organics	Result <49.9  sel Range Orga	Qualifier Unics (DRO) Qualifier	RL 49.9	mg/Kg		<u> </u>	01/06/24 17:59	1 Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9  sel Range Orga Result	Qualifier U  nics (DRO) Qualifier U	RL 49.9 (GC)	mg/Kg		Prepared	01/06/24 17:59  Analyzed	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9  sel Range Orga Result <49.9	Qualifier U  nics (DRO) Qualifier U	(GC) RL 49.9	mg/Kg  Unit  mg/Kg		Prepared 01/05/24 08:35	01/06/24 17:59  Analyzed  01/06/24 17:59	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)	sel Range Orga Result <49.9  49.9  49.9  49.9	Qualifier U  nics (DRO) Qualifier U  U	RL 49.9  (GC)  RL 49.9  49.9	mg/Kg  Unit  mg/Kg  mg/Kg		Prepared 01/05/24 08:35 01/05/24 08:35	01/06/24 17:59  Analyzed 01/06/24 17:59 01/06/24 17:59	1 Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate	Result   <49.9	Qualifier U  nics (DRO) Qualifier U  U  Qualifier	RL 49.9 (GC) RL 49.9 49.9	mg/Kg  Unit  mg/Kg  mg/Kg		Prepared 01/05/24 08:35 01/05/24 08:35	01/06/24 17:59  Analyzed 01/06/24 17:59 01/06/24 17:59 01/06/24 17:59	Dil Fac  1  1  Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Diese 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 Limits	mg/Kg  Unit  mg/Kg  mg/Kg		Prepared 01/05/24 08:35 01/05/24 08:35 01/05/24 08:35 Prepared	Analyzed 01/06/24 17:59  Analyzed 01/06/24 17:59 01/06/24 17:59  Analyzed	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 1-Chlorooctane o-Terphenyl	Result   <49.9	Qualifier U  nics (DRO) Qualifier U  U  Qualifier S1+	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg  Unit  mg/Kg  mg/Kg		Prepared 01/05/24 08:35 01/05/24 08:35 01/05/24 08:35  Prepared 01/05/24 08:35	Analyzed 01/06/24 17:59  Analyzed 01/06/24 17:59  01/06/24 17:59  Analyzed 01/06/24 17:59	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) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl  Method: EPA 300.0 - Anions, Ion Analyte	Result   <49.9	Qualifier U  nics (DRO) Qualifier U  U  Qualifier S1+	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg  Unit  mg/Kg  mg/Kg		Prepared 01/05/24 08:35 01/05/24 08:35 01/05/24 08:35  Prepared 01/05/24 08:35	Analyzed 01/06/24 17:59  Analyzed 01/06/24 17:59  01/06/24 17:59  Analyzed 01/06/24 17:59	Dil Fac  1  1  Dil Fac

# **Surrogate Summary**

Client: Ensolum Job ID: 890-5870-1
Project/Site: CORRAL CANYON EXPANSION BATTERY SDG: 03C1558299

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)	
890-5869-A-1-A MS	Matrix Spike	132 S1+	95	
890-5869-A-1-B MSD	Matrix Spike Duplicate	133 S1+	101	
890-5870-1	SS04	121	73	
890-5870-2	SS05	97	81	
890-5870-3	SS06	118	72	
890-5870-4	SS07	94	80	
890-5870-5	SS08	118	78	
890-5870-6	SS09	117	75	
LCS 880-70210/1-A	Lab Control Sample	138 S1+	96	
LCSD 880-70210/2-A	Lab Control Sample Dup	142 S1+	93	
MB 880-70150/5-A	Method Blank	91	82	
MB 880-70210/5-A	Method Blank	95	78	
Surrogate Legend				
BFB = 4-Bromofluorobe	nzene (Surr)			
DFBZ = 1,4-Difluoroben	zene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-37547-A-101-E MS	Matrix Spike	157 S1+	122	
880-37547-A-101-F MSD	Matrix Spike Duplicate	164 S1+	127	
890-5870-1	SS04	146 S1+	136 S1+	
890-5870-2	SS05	152 S1+	140 S1+	
890-5870-3	SS06	139 S1+	123	
890-5870-4	SS07	138 S1+	128	
890-5870-5	SS08	152 S1+	136 S1+	
890-5870-6	SS09	138 S1+	127	
LCS 880-70271/2-A	Lab Control Sample	97	101	
LCSD 880-70271/3-A	Lab Control Sample Dup	91	92	
MB 880-70271/1-A	Method Blank	156 S1+	158 S1+	

Surrogate Legend

1CO = 1-Chlorooctane OTPH = o-Terphenyl

Eurofins Carlsbad

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Job ID: 890-5870-1 Client: Ensolum Project/Site: CORRAL CANYON EXPANSION BATTERY SDG: 03C1558299

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-70150/5-A

**Matrix: Solid** 

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

Xylenes, Total

m-Xylene & p-Xylene

Analysis Batch: 70148

Client Sample ID: Method Blank

01/04/24 12:03

01/04/24 12:03

01/04/24 12:03

01/04/24 09:18

01/04/24 09:18

01/04/24 09:18

Prep Type: Total/NA

Prep Batch: 70150

MB MB Dil Fac Result Qualifier RL Unit D Prepared Analyzed <0.00200 U 0.00200 mg/Kg 01/04/24 09:18 01/04/24 12:03 <0.00200 U 0.00200 mg/Kg 01/04/24 09:18 01/04/24 12:03 <0.00200 U 0.00200 01/04/24 12:03 mg/Kg 01/04/24 09:18

mg/Kg

mg/Kg

mg/Kg

MB MB

<0.00400 U

<0.00200 U

<0.00400 U

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91	70 - 130	01/04/24 09:18	01/04/24 12:03	1
1,4-Difluorobenzene (Surr)	82	70 - 130	01/04/24 09:18	01/04/24 12:03	1

0.00400

0.00200

0.00400

Lab Sample ID: MB 880-70210/5-A

**Matrix: Solid** 

**Analysis Batch: 70148** 

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 70210

MR MR Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Benzene <0.00200 U 0.00200 mg/Kg 01/04/24 13:48 01/04/24 22:41 Toluene <0.00200 U 0.00200 mg/Kg 01/04/24 13:48 01/04/24 22:41 mg/Kg Ethylbenzene <0.00200 U 0.00200 01/04/24 13:48 01/04/24 22:41 01/04/24 22:41 m-Xylene & p-Xylene <0.00400 U 0.00400 mg/Kg 01/04/24 13:48 o-Xylene <0.00200 U 0.00200 mg/Kg 01/04/24 13:48 01/04/24 22:41 01/04/24 13:48 Xylenes, Total <0.00400 U 0.00400 01/04/24 22:41 mg/Kg

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	01/04/24 13:48	01/04/24 22:41	1
1,4-Difluorobenzene (Surr)	78		70 - 130	01/04/24 13:48	01/04/24 22:41	1

Lab Sample ID: LCS 880-70210/1-A

**Matrix: Solid** 

**Analysis Batch: 70148** 

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA Prep Batch: 70210

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09434		mg/Kg		94	70 - 130	
Toluene	0.100	0.09426		mg/Kg		94	70 - 130	
Ethylbenzene	0.100	0.1182		mg/Kg		118	70 - 130	
m-Xylene & p-Xylene	0.200	0.2539		mg/Kg		127	70 - 130	
o-Xylene	0.100	0.1260		mg/Kg		126	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130
1.4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: LCSD 880-70210/2-A

**Matrix: Solid** 

**Analysis Batch: 70148** 

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 70210 **RPD** 

LCSD LCSD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Benzene 0.100 0.1013 mg/Kg 101 70 - 130

Client: Ensolum Job ID: 890-5870-1 Project/Site: CORRAL CANYON EXPANSION BATTERY

SDG: 03C1558299

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

Lab Sample ID: LCSD 880-70210/2-A **Matrix: Solid** 

Analysis Batch: 70148

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 70210

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.1014		mg/Kg		101	70 - 130	7	35
Ethylbenzene	0.100	0.1217		mg/Kg		122	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2780	*+	mg/Kg		139	70 - 130	9	35
o-Xylene	0.100	0.1375	*+	mg/Kg		138	70 - 130	9	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits		
4-Bromofluorobenzene (Surr)	142	S1+	70 - 130		
1,4-Difluorobenzene (Surr)	93		70 - 130		

Lab Sample ID: 890-5869-A-1-A MS

**Matrix: Solid** 

**Analysis Batch: 70148** 

Client Sampl	le ID:	Matrix S	Spike
Di	ron Tv	ne: Tot	al/NA

Prep Batch: 70210

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Benzene <0.00198 U 0.101 0.07960 79 70 - 130 mg/Kg Toluene <0.00198 UF1 0.101 0.06857 F1 67 70 - 130 mg/Kg Ethylbenzene <0.00198 U 0.101 0.08842 70 - 130 mg/Kg 88 m-Xylene & p-Xylene <0.00396 U\*+ 0.202 0.1767 87 70 - 130 mg/Kg o-Xylene <0.00198 U\*+ 0.101 0.09382 mg/Kg 70 - 130

MS MS

Surrogate	%Recovery	Qualifier	Limits		
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130		
1,4-Difluorobenzene (Surr)	95		70 - 130		

Lab Sample ID: 890-5869-A-1-B MSD

**Matrix: Solid** 

Analysis Batch: 70148

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 70210

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00198	U	0.101	0.08469		mg/Kg		84	70 - 130	6	35
Toluene	<0.00198	U F1	0.101	0.07522		mg/Kg		74	70 - 130	9	35
Ethylbenzene	<0.00198	U	0.101	0.09959		mg/Kg		99	70 - 130	12	35
m-Xylene & p-Xylene	<0.00396	U *+	0.202	0.1937		mg/Kg		96	70 - 130	9	35
o-Xylene	<0.00198	U *+	0.101	0.1034		mg/Kg		103	70 - 130	10	35

MSD MSD

MD MD

Surrogate	%Recovery	Qualifier	Limits		
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130		
1,4-Difluorobenzene (Surr)	101		70 - 130		

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

Lab Sample ID: MB 880-70271/1-A

**Matrix: Solid** 

**Analysis Batch: 70348** 

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

Prep Batch: 70271

	INID	D MD						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		01/05/24 08:35	01/06/24 08:40	1
(GRO)-C6-C10								

Client: Ensolum Project/Site: CORRAL CANYON EXPANSION BATTERY Job ID: 890-5870-1

SDG: 03C1558299

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

Lab Sample ID: MB 880-70271/1-A **Matrix: Solid** Analysis Batch: 70348

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

Prep Batch: 70271

	MB	MR						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		01/05/24 08:35	01/06/24 08:40	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/05/24 08:35	01/06/24 08:40	1
	***	***						
	MB	MB						

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	156	S1+	70 - 130	01/05/24 08:35	01/06/24 08:40	1
o-Terphenyl	158	S1+	70 - 130	01/05/24 08:35	01/06/24 08:40	1
-	1-Chlorooctane	1-Chlorooctane 156	1-Chlorooctane 156 S1+	1-Chlorooctane 156 S1+ 70 - 130	1-Chlorooctane 156 S1+ 70 - 130 01/05/24 08:35	1-Chlorooctane 156 S1+ 70 - 130 01/05/24 08:35 01/06/24 08:40

**Client Sample ID: Lab Control Sample** 

**Matrix: Solid** Analysis Batch: 70348

Lab Sample ID: LCS 880-70271/2-A

Prep Type: Total/NA Prep Batch: 70271

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 895.3 90 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 978.3 mg/Kg 98 70 - 130 C10-C28)

	LCS			
Surrogate	%Recovery	Qualifier	Limits	
1-Chlorooctane	97		70 - 130	
o-Terphenyl	101		70 - 130	

Client Sample ID: Lab Control Sample Dup

**Matrix: Solid** Analysis Batch: 70348

Lab Sample ID: LCSD 880-70271/3-A

Prep Type: Total/NA Prep Batch: 70271

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	896.6		mg/Kg		90	70 - 130	0	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	999.5		mg/Kg		100	70 - 130	2	20
C10-C28)									

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	91		70 - 130
o-Terphenyl	92		70 - 130

157 S1+

122

Client Sample ID: Matrix Spike

Prep Type: Total/NA

**Analysis Batch: 70348** 

**Matrix: Solid** 

1-Chlorooctane

o-Terphenyl

Lab Sample ID: 880-37547-A-101-E MS

Prep Batch: 70271

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.5	U	999	824.1		mg/Kg		79	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.5	U F1	999	1637	F1	mg/Kg		161	70 - 130	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							

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70 - 130

70 - 130

Job ID: 890-5870-1 Client: Ensolum Project/Site: CORRAL CANYON EXPANSION BATTERY

SDG: 03C1558299

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

Lab Sample ID: 880-37547-A-101-F MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 70348** Prep Batch: 70271

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<49.5	U	999	960.7		mg/Kg		93	70 - 130	15	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<49.5	U F1	999	1722	F1	mg/Kg		169	70 - 130	5	20
C40 C20\											

C10-C28)

MSD MSD %Recovery Qualifier Limits Surrogate 1-Chlorooctane S1+ 70 - 130 164 o-Terphenyl 127 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-70219/1-A Client Sample ID: Method Blank **Prep Type: Soluble** 

**Matrix: Solid** 

Analysis Batch: 70294

мв мв Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 mg/Kg 01/08/24 08:05

Lab Sample ID: LCS 880-70219/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 70294** 

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Chloride 250 241.0 90 - 110 mg/Kg

Lab Sample ID: LCSD 880-70219/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble** 

**Matrix: Solid** 

Analysis Batch: 70294

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	240.5		mg/Kg		96	90 - 110		20	

Lab Sample ID: 890-5870-3 MS **Client Sample ID: SS06 Prep Type: Soluble** 

**Matrix: Solid** 

Analysis Batch: 70294

	Sample	Sample	эріке	IVIO	IVIS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	318		248	563.6		mg/Kg	_	99	90 - 110	

Lab Sample ID: 890-5870-3 MSD **Client Sample ID: SS06 Prep Type: Soluble** 

Matrix: Solid

Analysis Batch: 70294

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	318		248	564.5		mg/Kg		99	90 - 110	0	20

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Released to Imaging: 5/9/2024 9:15:29 AM

Client: Ensolum Job ID: 890-5870-1
Project/Site: CORRAL CANYON EXPANSION BATTERY SDG: 03C1558299

### **GC VOA**

### Analysis Batch: 70148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5870-1	SS04	Total/NA	Solid	8021B	70210
890-5870-2	SS05	Total/NA	Solid	8021B	70210
890-5870-3	SS06	Total/NA	Solid	8021B	70210
890-5870-4	SS07	Total/NA	Solid	8021B	70210
890-5870-5	SS08	Total/NA	Solid	8021B	70210
890-5870-6	SS09	Total/NA	Solid	8021B	70210
MB 880-70150/5-A	Method Blank	Total/NA	Solid	8021B	70150
MB 880-70210/5-A	Method Blank	Total/NA	Solid	8021B	70210
LCS 880-70210/1-A	Lab Control Sample	Total/NA	Solid	8021B	70210
LCSD 880-70210/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	70210
890-5869-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	70210
890-5869-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	70210

### Prep Batch: 70150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-70150/5-A	Method Blank	Total/NA	Solid	5035	

#### Prep Batch: 70210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5870-1	SS04	Total/NA	Solid	5035	
890-5870-2	SS05	Total/NA	Solid	5035	
890-5870-3	SS06	Total/NA	Solid	5035	
890-5870-4	SS07	Total/NA	Solid	5035	
890-5870-5	SS08	Total/NA	Solid	5035	
890-5870-6	SS09	Total/NA	Solid	5035	
MB 880-70210/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-70210/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-70210/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-5869-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
890-5869-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

#### **Analysis Batch: 70284**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5870-1	SS04	Total/NA	Solid	Total BTEX	
890-5870-2	SS05	Total/NA	Solid	Total BTEX	
890-5870-3	SS06	Total/NA	Solid	Total BTEX	
890-5870-4	SS07	Total/NA	Solid	Total BTEX	
890-5870-5	SS08	Total/NA	Solid	Total BTEX	
890-5870-6	SS09	Total/NA	Solid	Total BTEX	

### **GC Semi VOA**

#### Prep Batch: 70271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5870-1	SS04	Total/NA	Solid	8015NM Prep	
890-5870-2	SS05	Total/NA	Solid	8015NM Prep	
890-5870-3	SS06	Total/NA	Solid	8015NM Prep	
890-5870-4	SS07	Total/NA	Solid	8015NM Prep	
890-5870-5	SS08	Total/NA	Solid	8015NM Prep	
890-5870-6	SS09	Total/NA	Solid	8015NM Prep	
MB 880-70271/1-A	Method Blank	Total/NA	Solid	8015NM Prep	

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Client: Ensolum Job ID: 890-5870-1
Project/Site: CORRAL CANYON EXPANSION BATTERY SDG: 03C1558299

### **GC Semi VOA (Continued)**

### Prep Batch: 70271 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-70271/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-70271/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-37547-A-101-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-37547-A-101-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

### **Analysis Batch: 70348**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5870-1	SS04	Total/NA	Solid	8015B NM	70271
890-5870-2	SS05	Total/NA	Solid	8015B NM	70271
890-5870-3	SS06	Total/NA	Solid	8015B NM	70271
890-5870-4	SS07	Total/NA	Solid	8015B NM	70271
890-5870-5	SS08	Total/NA	Solid	8015B NM	70271
890-5870-6	SS09	Total/NA	Solid	8015B NM	70271
MB 880-70271/1-A	Method Blank	Total/NA	Solid	8015B NM	70271
LCS 880-70271/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	70271
LCSD 880-70271/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	70271
880-37547-A-101-E MS	Matrix Spike	Total/NA	Solid	8015B NM	70271
880-37547-A-101-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	70271

### Analysis Batch: 70419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5870-1	SS04	Total/NA	Solid	8015 NM	
890-5870-2	SS05	Total/NA	Solid	8015 NM	
890-5870-3	SS06	Total/NA	Solid	8015 NM	
890-5870-4	SS07	Total/NA	Solid	8015 NM	
890-5870-5	SS08	Total/NA	Solid	8015 NM	
890-5870-6	SS09	Total/NA	Solid	8015 NM	

### HPLC/IC

#### Leach Batch: 70219

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5870-1	SS04	Soluble	Solid	DI Leach	_
890-5870-2	SS05	Soluble	Solid	DI Leach	
890-5870-3	SS06	Soluble	Solid	DI Leach	
890-5870-4	SS07	Soluble	Solid	DI Leach	
890-5870-5	SS08	Soluble	Solid	DI Leach	
890-5870-6	SS09	Soluble	Solid	DI Leach	
MB 880-70219/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-70219/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-70219/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5870-3 MS	SS06	Soluble	Solid	DI Leach	
890-5870-3 MSD	SS06	Soluble	Solid	DI Leach	

### Analysis Batch: 70294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5870-1	SS04	Soluble	Solid	300.0	70219
890-5870-2	SS05	Soluble	Solid	300.0	70219
890-5870-3	SS06	Soluble	Solid	300.0	70219
890-5870-4	SS07	Soluble	Solid	300.0	70219
890-5870-5	SS08	Soluble	Solid	300.0	70219

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Client: Ensolum
Project/Site: CORRAL CANYON EXPANSION BATTERY
Job ID: 890-5870-1
SDG: 03C1558299

# **HPLC/IC (Continued)**

### **Analysis Batch: 70294 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5870-6	SS09	Soluble	Solid	300.0	70219
MB 880-70219/1-A	Method Blank	Soluble	Solid	300.0	70219
LCS 880-70219/2-A	Lab Control Sample	Soluble	Solid	300.0	70219
LCSD 880-70219/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	70219
890-5870-3 MS	SS06	Soluble	Solid	300.0	70219
890-5870-3 MSD	SS06	Soluble	Solid	300.0	70219

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Client: Ensolum Job ID: 890-5870-1 Project/Site: CORRAL CANYON EXPANSION BATTERY SDG: 03C1558299

Client Sample ID: SS04 Lab Sample ID: 890-5870-1

Date Collected: 01/02/24 13:40 Matrix: Solid Date Received: 01/02/24 16:37

	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	70210	01/04/24 13:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70148	01/05/24 01:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70284	01/05/24 01:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			70419	01/06/24 16:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	70271	01/05/24 08:35	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70348	01/06/24 16:13	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	70219	01/04/24 14:25	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	70294	01/08/24 09:22	CH	EET MID

**Client Sample ID: SS05** Lab Sample ID: 890-5870-2

Date Collected: 01/02/24 13:45 Matrix: Solid

Date Received: 01/02/24 16:37

	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	70210	01/04/24 13:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70148	01/05/24 02:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70284	01/05/24 02:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			70419	01/06/24 16:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	70271	01/05/24 08:35	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70348	01/06/24 16:34	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	70219	01/04/24 14:25	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	70294	01/08/24 09:28	CH	EET MID

**Client Sample ID: SS06** Lab Sample ID: 890-5870-3 Date Collected: 01/02/24 13:50

Date Received: 01/02/24 16:37

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	70210	01/04/24 13:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70148	01/05/24 03:31	MNR	EET MIC
Total/NA	Analysis	Total BTEX		1			70284	01/05/24 03:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			70419	01/06/24 16:55	SM	EET MIC
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	70271	01/05/24 08:35	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70348	01/06/24 16:55	SM	EET MIC
Soluble	Leach	DI Leach			5.05 g	50 mL	70219	01/04/24 14:25	SA	EET MIC
Soluble	Analysis	300.0		1	50 mL	50 mL	70294	01/08/24 09:33	CH	EET MID

**Client Sample ID: SS07** Lab Sample ID: 890-5870-4

Date Collected: 01/02/24 13:55 Date Received: 01/02/24 16:37

	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	70210	01/04/24 13:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70148	01/05/24 03:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70284	01/05/24 03:52	SM	EET MID

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**Matrix: Solid** 

**Matrix: Solid** 

1 uL

5.01 g

50 mL

1

1 uL

50 mL

50 mL

70348

70219

70294

Client: Ensolum

Total/NA

Soluble

Soluble

Project/Site: CORRAL CANYON EXPANSION BATTERY

Job ID: 890-5870-1 SDG: 03C1558299

Lab Sample ID: 890-5870-4

Analyst

SM

TKC

SM

SA

СН

01/06/24 17:16

01/04/24 14:25

01/08/24 09:48

**Matrix: Solid** 

Date Received: 01/02/24 16:37 Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Total/NA Analysis 8015 NM 70419 01/06/24 17:16 Total/NA Prep 8015NM Prep 9.90 g 10 mL 70271 01/05/24 08:35

EET MID **EET MID EET MID EET MID EET MID** 

Lab

Client Sample ID: SS08

**Client Sample ID: SS07** Date Collected: 01/02/24 13:55

Date Collected: 01/02/24 13:20 Date Received: 01/02/24 16:37

Analysis

Analysis

Leach

8015B NM

DI Leach

300.0

Lab Sample ID: 890-5870-5

**Matrix: Solid** 

Batch Batch Dil Initial Final Batch Prepared Method Amount Amount Number or Analyzed **Prep Type** Type Run Factor Analyst Lab Prep 5035 Total/NA 4.99 g 5 mL 70210 01/04/24 13:48 EL **EET MID** Total/NA Analysis 8021B 5 mL 5 mL 70148 01/05/24 04:12 MNR EET MID 1 Total BTEX Total/NA Analysis 1 70284 01/05/24 04:12 SM **EET MID** Total/NA 8015 NM 70419 01/06/24 17:38 SM **EET MID** Analysis 1 Total/NA Prep 8015NM Prep 10.06 g 10 mL 70271 01/05/24 08:35 TKC **EET MID** Total/NA 8015B NM 1 uL 70348 01/06/24 17:38 SM **EET MID** Analysis 1 uL Soluble Leach DI Leach 5.04 g 50 mL 70219 01/04/24 14:25 SA **EET MID** Soluble Analysis 300.0 1 50 mL 50 mL 70294 01/08/24 09:53 СН **EET MID** 

Client Sample ID: SS09

Date Collected: 01/02/24 13:25 Date Received: 01/02/24 16:37

Lab Sample ID: 890-5870-6

**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			4.95 g	5 mL	70210	01/04/24 13:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70148	01/05/24 04:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70284	01/05/24 04:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			70419	01/06/24 17:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	70271	01/05/24 08:35	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70348	01/06/24 17:59	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	70219	01/04/24 14:25	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	70294	01/08/24 10:09	CH	EET MID

**Laboratory References:** 

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

# **Accreditation/Certification Summary**

Client: Ensolum Job ID: 890-5870-1 Project/Site: CORRAL CANYON EXPANSION BATTERY

SDG: 03C1558299

## **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	NELAP		T104704400-23-26	06-30-24	
,	are included in this report, but	it the laboratory is not certif	fied by the governing authority. This lis	t may include analytes	
Analysis Method	Prep Method	Matrix	Analyte		
8015 NM		Solid	Total TPH		
Total BTEX		Solid	Total BTEX		

# **Method Summary**

Client: Ensolum Project/Site: CORRAL CANYON EXPANSION BATTERY

SDG: 03C1558299

Job ID: 890-5870-1

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

#### **Protocol References:**

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

#### Laboratory References:

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

# **Sample Summary**

Client: Ensolum

Project/Site: CORRAL CANYON EXPANSION BATTERY

Job ID: 890-5870-1

SDG: 03C1558299

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-5870-1	SS04	Solid	01/02/24 13:40	01/02/24 16:37	0.5'
890-5870-2	SS05	Solid	01/02/24 13:45	01/02/24 16:37	0.5'
890-5870-3	SS06	Solid	01/02/24 13:50	01/02/24 16:37	0.5'
890-5870-4	SS07	Solid	01/02/24 13:55	01/02/24 16:37	0.5'
890-5870-5	SS08	Solid	01/02/24 13:20	01/02/24 16:37	0.5'
890-5870-6	SS09	Solid	01/02/24 13:25	01/02/24 16:37	0.5'

eurofins

Xenco

**Environment Testing** 

City, State ZIP: Address:

3122 National Parks Hwy

Ensolum, Tacoma

Morrissey

Bill to: (if different)

Company Name:

XTO 5 arrett

Energy Green

Dreen

Carlsbad, NM 88220

City, State ZIP:

arispad

NM 88220

State of Project: Program:

UST/PST PRP Brownfields

RRC \_

Superfund |

Work Order Comments

9

Project Manager: ompany Name:

13

Chain of Custody

Midland, TX (432) 704-5440, San Antonio, TX (210) 509-33 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-319 Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

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890-3870 Chairl of Custody			
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Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	(i)	Received by: (Signature)		Relinquished by: (Signature)
	ns gotlated.	votice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of the	rofins Xenco, its affiliates and enses incurred by the client Ho Eurofins Xenco, but not ana	er from client company to Eunsibility for any losses or exp for each sample submitted t	constitutes a valid purchase ord and shall not assume any respo each project and a charge of \$5	nd relinquishment of samples oble only for the cost of samples are of \$85.00 will be applied to e	ce: Signature of this document or this document or this Eurofins Xenco will be italizations Xenco. A minimum chara
/7471	Hg: 1631	Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg:	Sb As Ba Be Cd	TCLP / SPLP 6010 : 8RCRA Sb As Ba Be	zed TCLP / SPLP	Metal(s) to be analyz	Circle Method(s) and Metal(s) to be analyzed
1 V Zn	NI K So Ac SiO. No St TI So II V Zo		A B B B	Towns 11		200 2 (200	Total 2007/2010
	NAD						
		\					
			4	0.5: 7	Y 13.25	d	SSOG
				0.5'	13:20		Soss
				05	13 <b>56</b>		SSOT
morrissey ecosolum. com	tmos			0.5	13:50		SS06
NAPP2330049344	2000			0.5			5005
ncident#	Inc		XXX	0.5/16/1	1/2/29/13:40	S 1	5504
Sample Comments	Sa		Ch T BT	Depth Grab/ # of Cont	Date Time Sampled Sampled	Matrix	Sample Identification
NaOH+Ascorbic Acid: SAPC	NaOH+A		PH	4.2	Corrected Temperature:		Total Containers:
Zn Acetate+NaOH: Zn	Zn Aceta		1	カカ	Temperature Reading:	Yes NO N/A T	Sample Custody Seals:
Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>	Na <sub>2</sub> S <sub>2</sub> O		d		Correction Factor:	Yes NO N/A	Cooler Custody Seals:
4: NABIS	NaHSO 4: NABIS			WARD I	Thermometer ID:	Ĺ.,	Samples Received Intact:
HP .	H <sub>3</sub> PO <sub>4</sub> : HP			Yes No	Yes No Wet Ice:	Temp Blank:	SAMPLE RECEIPT
H 2 NaOH: Na	H <sub>2</sub> S0 <sub>4</sub> ; H <sub>2</sub>			the lab, if received by 4:30pm			PO #:
	HCI: HC			TAT starts the day received by		Mariaha O'Dell	Sampler's Name:
ool MeOH: Me	Cool: Cool			5 days	0022 Due Date:	32.15336,-104,00022	Project Location: 32.
NO DI Water: H <sub>2</sub> O	None: NO		100	Rush Code	KRoutine	036 155 82 99	er:
Preservative Codes	Pre	ANALYSIS REQUEST		Turn Around		COLUMN STATES OF THE COLUMN	Project Name:

# **Login Sample Receipt Checklist**

 Client: Ensolum
 Job Number: 890-5870-1

 SDG Number: 03C1558299

Login Number: 5870 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	

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# **Login Sample Receipt Checklist**

 Client: Ensolum
 Job Number: 890-5870-1

 SDG Number: 03C1558299

List Source: Eurofins Midland List Creation: 01/04/24 01:31 PM

Creator: Rodriguez, Leticia

Login Number: 5870

List Number: 2

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

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<6mm (1/4").

**Environment Testing** 

# **ANALYTICAL REPORT**

# PREPARED FOR

Attn: Tacoma Morrissey Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701

Generated 1/8/2024 3:43:13 PM

# **JOB DESCRIPTION**

CORRAL CANYON EXPANSION BATTERY 03C1558299

# **JOB NUMBER**

890-5871-1

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 1/8/2024 3:43:13 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

Client: Ensolum Project/Site: CORRAL CANYON EXPANSION BATTERY Laboratory Job ID: 890-5871-1 SDG: 03C1558299

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# **Definitions/Glossary**

Client: Ensolum Job ID: 890-5871-1
Project/Site: CORRAL CANYON EXPANSION BATTERY SDG: 03C1558299

558299

#### **Qualifiers**

GC VOA	
Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.
GC Semi VC	NΔ

Δ

GC Semi VO

 Qualifier
 Qualifier 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.

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HPLC/IC

 Qualifier
 Qualifier Description

 U
 Indicates the analyte was analyzed for but not detected.

Q

Glossary

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

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

%R Percent Recovery

CFL Contains Free Liquid

CFU Colony Forming Unit

CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

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

NC Not Calculated

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

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

**TNTC** 

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

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### **Case Narrative**

Client: Ensolum Job ID: 890-5871-1

Project: CORRAL CANYON EXPANSION BATTERY

Job ID: 890-5871-1 Eurofins Carlsbad

#### Job Narrative 890-5871-1

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 1/2/2024 4:36 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 4.6°C

#### **Receipt Exceptions**

The following samples were received and analyzed from an unpreserved bulk soil jar: SS01 (890-5871-1), SS02 (890-5871-2) and SS03 (890-5871-3).

#### **GC VOA**

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-70148 recovered above the upper control limit for m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-70148/2).

Method 8021B: Surrogate recovery for the following samples were outside control limits: (CCV 880-70148/2), (CCV 880-70148/33), (CCV 880-70148/51), (LCS 880-70210/1-A), (LCSD 880-70210/2-A) and (890-5869-A-1-B MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (890-5869-A-1-A MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The laboratory control sample duplicate (LCSD) for preparation batch 880-70210 and analytical batch 880-70148 recovered outside control limits for the following analytes: m-Xylene & p-Xylene and o-Xylene. Since only an acceptable LCS is required per the method, the data has been qualified and reported.

Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-70210 and analytical batch 880-70148 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-70148 recovered above the upper control limit for o-Xylene. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-70148/51).

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 880-70271 and analytical batch 880-70348 was outside the upper control limits.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: SS01 (890-5871-1), SS02 (890-5871-2), SS03 (890-5871-3), (880-37547-A-101-D), (880-37547-A-101-E MS) and (880-37547-A-101-F MSD). 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 880-70271 and analytical batch 880-70348 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

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## **Case Narrative**

Client: Ensolum Job ID: 890-5871-1

Project: CORRAL CANYON EXPANSION BATTERY

# Job ID: 890-5871-1 (Continued)

**Eurofins Carlsbad** 

acceptance limits.

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

#### HPLC/IC

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

**Eurofins Carlsbad** 

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Client: Ensolum

Job ID: 890-5871-1

Project/Site: CORRAL CANYON EXPANSION BATTERY SDG: 03C1558299

Client Sample ID: SS01

Date Collected: 01/02/24 12:40

Lab Sample ID: 890-5871-1

Matrix: Solid

Date Received: 01/02/24 16:36

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		01/04/24 13:48	01/05/24 04:53	1
Toluene	< 0.00201	U	0.00201	mg/Kg		01/04/24 13:48	01/05/24 04:53	1
Ethylbenzene	< 0.00201	U	0.00201	mg/Kg		01/04/24 13:48	01/05/24 04:53	1
m-Xylene & p-Xylene	<0.00402	U *+	0.00402	mg/Kg		01/04/24 13:48	01/05/24 04:53	1
o-Xylene	<0.00201	U *+	0.00201	mg/Kg		01/04/24 13:48	01/05/24 04:53	1
Xylenes, Total	<0.00402	U *+	0.00402	mg/Kg		01/04/24 13:48	01/05/24 04:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			01/04/24 13:48	01/05/24 04:53	1
1,4-Difluorobenzene (Surr)	76		70 - 130			01/04/24 13:48	01/05/24 04:53	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			01/05/24 04:53	1
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	89.8	Qualifier	50.1	<u> </u>		Prepareu	01/06/24 18:20	- DII Fac
- -								
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.1	U	50.1	mg/Kg		01/05/24 08:35	01/06/24 18:20	1
(GRO)-C6-C10								
Diesel Range Organics (Over	89.8		50.1	mg/Kg		01/05/24 08:35	01/06/24 18:20	
• • •								1
C10-C28)	4FO 4		50.4			04/05/04 00:05	04/00/04 40:00	
C10-C28)	<50.1	U	50.1	mg/Kg		01/05/24 08:35	01/06/24 18:20	1
C10-C28) OII Range Organics (Over C28-C36)	<50.1 <b>%Recovery</b>		50.1 <i>Limits</i>	mg/Kg		01/05/24 08:35  Prepared	01/06/24 18:20  Analyzed	
C10-C28) Oll Range Organics (Over C28-C36) Surrogate		Qualifier		mg/Kg				1
C10-C28) Oll Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane	%Recovery	Qualifier	Limits	mg/Kg		Prepared	Analyzed	Dil Fac
C10-C28) Oll Range Organics (Over C28-C36)  Surrogate  1-Chlorooctane o-Terphenyl	%Recovery 152 142	Qualifier S1+ S1+	Limits 70 - 130 70 - 130	mg/Kg		<b>Prepared</b> 01/05/24 08:35	Analyzed 01/06/24 18:20	Dil Fac
C10-C28) Oll Range Organics (Over C28-C36) Surrogate	%Recovery 152 142 Chromatograp	Qualifier S1+ S1+	Limits 70 - 130 70 - 130	mg/Kg Unit	D	<b>Prepared</b> 01/05/24 08:35	Analyzed 01/06/24 18:20	Dil Fac

Client Sample ID: SS02

Lab Sample ID: 890-5871-2

Matrix: Solid

Date Received: 01/02/24 16:36

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/04/24 13:48	01/05/24 05:14	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/04/24 13:48	01/05/24 05:14	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/04/24 13:48	01/05/24 05:14	1
m-Xylene & p-Xylene	<0.00399	U *+	0.00399	mg/Kg		01/04/24 13:48	01/05/24 05:14	1
o-Xylene	<0.00200	U *+	0.00200	mg/Kg		01/04/24 13:48	01/05/24 05:14	1
Xylenes, Total	<0.00399	U *+	0.00399	mg/Kg		01/04/24 13:48	01/05/24 05:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130			01/04/24 13:48	01/05/24 05:14	1
1,4-Difluorobenzene (Surr)	72		70 - 130			01/04/24 13:48	01/05/24 05:14	1

# **Client Sample Results**

Client: Ensolum Job ID: 890-5871-1 Project/Site: CORRAL CANYON EXPANSION BATTERY SDG: 03C1558299

**Client Sample ID: SS02** 

Lab Sample ID: 890-5871-2 Date Collected: 01/02/24 12:45 Matrix: Solid Date Received: 01/02/24 16:36

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			01/05/24 05:14	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (	GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	52.8		50.4	mg/Kg			01/06/24 18:41	1
Method: SW846 8015B NM - Dies	ol Bango Orga	nice (DBO)	(CC)					
Analyte		Qualifier	(GC) RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.4	U	50.4	mg/Kg		01/05/24 08:35	01/06/24 18:41	1
(GRO)-C6-C10								
Diesel Range Organics (Over	52.8		50.4	mg/Kg		01/05/24 08:35	01/06/24 18:41	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg		01/05/24 08:35	01/06/24 18:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	160	S1+	70 - 130			01/05/24 08:35	01/06/24 18:41	1
1-Chioroccane			70 - 130			01/05/24 08:35	01/06/24 18:41	1
	148	S1+	70 - 130			01/00/24 00:00	01/00/21 10:11	
o-Terphenyl						01700/24 00:00	01/00/27 70:77	
o-Terphenyl  Method: EPA 300.0 - Anions, Ion Analyte	Chromatograp			Unit	D	Prepared	Analyzed	Dil Fac

**Client Sample ID: SS03** Lab Sample ID: 890-5871-3 Date Collected: 01/02/24 12:50 **Matrix: Solid** 

Date Received: 01/02/24 16:36

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00198	U	0.00198	mg/Kg		01/04/24 13:48	01/05/24 05:34	
Toluene	<0.00198	U	0.00198	mg/Kg		01/04/24 13:48	01/05/24 05:34	
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		01/04/24 13:48	01/05/24 05:34	
m-Xylene & p-Xylene	<0.00397	U *+	0.00397	mg/Kg		01/04/24 13:48	01/05/24 05:34	
o-Xylene	<0.00198	U *+	0.00198	mg/Kg		01/04/24 13:48	01/05/24 05:34	
Xylenes, Total	<0.00397	U *+	0.00397	mg/Kg		01/04/24 13:48	01/05/24 05:34	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)			70 - 130			01/04/24 13:48	01/05/24 05:34	
			70 <sub>-</sub> 130	Unit	_	01/04/24 13:48	01/05/24 05:34	
Method: TAL SOP Total BTEX - Analyte	- Total BTEX Cald	Qualifier	RL	Unit ma/Ka	<u>D</u>	01/04/24 13:48 Prepared	Analyzed	
Method: TAL SOP Total BTEX - Analyte Total BTEX	- Total BTEX Calc Result <0.00397	<b>Qualifier</b> U	RL 0.00397	Unit mg/Kg	<u>D</u>			
Method: TAL SOP Total BTEX -	- Total BTEX Calc Result <0.00397 sel Range Organ	<b>Qualifier</b> U	RL 0.00397		<u>D</u>	Prepared	Analyzed	Dil Fac
Method: TAL SOP Total BTEX - Analyte Total BTEX  Method: SW846 8015 NM - Dies	- Total BTEX Calc Result <0.00397 sel Range Organ	Qualifier U	RL 0.00397	mg/Kg	<u> </u>		Analyzed 01/05/24 05:34	Dil Fac
Method: TAL SOP Total BTEX - Analyte Total BTEX  Method: SW846 8015 NM - Dies Analyte	- Total BTEX Calc Result <	Qualifier U ics (DRO) ( Qualifier	RL 0.00397  GC)  RL 50.5	mg/Kg	<u> </u>	Prepared	Analyzed 01/05/24 05:34 Analyzed	Dil Fac
Method: TAL SOP Total BTEX - Analyte Total BTEX  Method: SW846 8015 NM - Dies Analyte Total TPH  Method: SW846 8015B NM - Di	- Total BTEX Calc Result <0.00397 sel Range Organ Result 51.8 sesel Range Orga	Qualifier U ics (DRO) ( Qualifier	RL 0.00397  GC)  RL 50.5	mg/Kg	<u> </u>	Prepared	Analyzed 01/05/24 05:34 Analyzed	Dil Fac
Method: TAL SOP Total BTEX - Analyte Total BTEX  Method: SW846 8015 NM - Dies Analyte Total TPH	- Total BTEX Calc Result <0.00397 sel Range Organ Result 51.8 sesel Range Orga	Qualifier U ics (DRO) (Qualifier nics (DRO) Qualifier	RL 0.00397  GC)  RL 50.5	mg/Kg  Unit  mg/Kg	<u></u>	Prepared Prepared	Analyzed 01/05/24 05:34  Analyzed 01/06/24 19:02	Dil Fa

# **Client Sample Results**

Client: Ensolum Job ID: 890-5871-1 Project/Site: CORRAL CANYON EXPANSION BATTERY SDG: 03C1558299

**Client Sample ID: SS03** 

Lab Sample ID: 890-5871-3 Date Collected: 01/02/24 12:50 Matrix: Solid

Date Received: 01/02/24 16:36

Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC) (Continued)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		01/05/24 08:35	01/06/24 19:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	149	S1+	70 - 130			01/05/24 08:35	01/06/24 19:02	1
o-Terphenyl	140	S1+	70 - 130			01/05/24 08:35	01/06/24 19:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte Result Qualifier RL Unit D Prepared Analyzed Dil F										
	Chloride	3120		25.0	mg/Kg			01/08/24 10:24	5	

# **Surrogate Summary**

Client: Ensolum Job ID: 890-5871-1
Project/Site: CORRAL CANYON EXPANSION BATTERY SDG: 03C1558299

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

-			
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-5869-A-1-A MS	Matrix Spike	132 S1+	95
890-5869-A-1-B MSD	Matrix Spike Duplicate	133 S1+	101
890-5871-1	SS01	115	76
890-5871-2	SS02	104	72
890-5871-3	SS03	114	82
LCS 880-70210/1-A	Lab Control Sample	138 S1+	96
LCSD 880-70210/2-A	Lab Control Sample Dup	142 S1+	93
MB 880-70150/5-A	Method Blank	91	82
MB 880-70210/5-A	Method Blank	95	78
Surrogate Legend			
BFB = 4-Bromofluorobe	nzene (Surr)		
DFBZ = 1,4-Difluoroben	zene (Surr)		

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-37547-A-101-E MS	Matrix Spike	157 S1+	122	
880-37547-A-101-F MSD	Matrix Spike Duplicate	164 S1+	127	
890-5871-1	SS01	152 S1+	142 S1+	
890-5871-2	SS02	160 S1+	148 S1+	
890-5871-3	SS03	149 S1+	140 S1+	
LCS 880-70271/2-A	Lab Control Sample	97	101	
LCSD 880-70271/3-A	Lab Control Sample Dup	91	92	
MB 880-70271/1-A	Method Blank	156 S1+	158 S1+	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-5871-1 SDG: 03C1558299 Project/Site: CORRAL CANYON EXPANSION BATTERY

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-70150/5-A

**Matrix: Solid** 

Analysis Batch: 70148

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 70150

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/04/24 09:18	01/04/24 12:03	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/04/24 09:18	01/04/24 12:03	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/04/24 09:18	01/04/24 12:03	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/04/24 09:18	01/04/24 12:03	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/04/24 09:18	01/04/24 12:03	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/04/24 09:18	01/04/24 12:03	1

MB MB

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		70 - 130
1,4-Difluorobenzene (Surr)	82		70 - 130

Dil Fac Prepared Analyzed 01/04/24 09:18 01/04/24 12:03 01/04/24 09:18 01/04/24 12:03

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 70210

**Analysis Batch: 70148** 

Matrix: Solid

Lab Sample ID: MB 880-70210/5-A

	MB	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/04/24 13:48	01/04/24 22:41	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/04/24 13:48	01/04/24 22:41	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/04/24 13:48	01/04/24 22:41	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/04/24 13:48	01/04/24 22:41	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/04/24 13:48	01/04/24 22:41	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/04/24 13:48	01/04/24 22:41	1
	Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene	Analyte         Result           Benzene         <0.00200           Toluene         <0.00200           Ethylbenzene         <0.00200           m-Xylene & p-Xylene         <0.00400           o-Xylene         <0.00200	Benzene	Analyte         Result         Qualifier         RL           Benzene         <0.00200         U         0.00200           Toluene         <0.00200         U         0.00200           Ethylbenzene         <0.00200         U         0.00200           m-Xylene & p-Xylene         <0.00400         U         0.00400           o-Xylene         <0.00200         U         0.00200	Analyte         Result         Qualifier         RL         Unit           Benzene         <0.00200         U         0.00200         mg/Kg           Toluene         <0.00200         U         0.00200         mg/Kg           Ethylbenzene         <0.00200         U         0.00200         mg/Kg           m-Xylene & p-Xylene         <0.00400         U         0.00400         mg/Kg           o-Xylene         <0.00200         U         0.00200         mg/Kg	Analyte         Result         Qualifier         RL         Unit         D           Benzene         <0.00200         U         0.00200         mg/Kg           Toluene         <0.00200         U         0.00200         mg/Kg           Ethylbenzene         <0.00200         U         0.00200         mg/Kg           m-Xylene & p-Xylene         <0.00400         U         0.00400         mg/Kg           o-Xylene         <0.00200         U         0.00200         mg/Kg	Analyte         Result         Qualifier         RL         Unit         D         Prepared           Benzene         <0.00200         U         0.00200         mg/Kg         01/04/24 13:48           Toluene         <0.00200         U         0.00200         mg/Kg         01/04/24 13:48           Ethylbenzene         <0.00200         U         0.00200         mg/Kg         01/04/24 13:48           m-Xylene & p-Xylene         <0.00400         U         0.00400         mg/Kg         01/04/24 13:48           o-Xylene         <0.00200         U         0.00200         mg/Kg         01/04/24 13:48	Analyte         Result         Qualifier         RL         Unit         D         Prepared         Analyzed           Benzene         <0.00200         U         0.00200         mg/Kg         01/04/24 13:48         01/04/24 22:41           Toluene         <0.00200         U         0.00200         mg/Kg         01/04/24 13:48         01/04/24 22:41           Ethylbenzene         <0.00200         U         0.00200         mg/Kg         01/04/24 13:48         01/04/24 22:41           m-Xylene & p-Xylene         <0.00400         U         0.00200         mg/Kg         01/04/24 13:48         01/04/24 22:41           o-Xylene         <0.00200         U         0.00200         mg/Kg         01/04/24 13:48         01/04/24 22:41

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	01/04/24 13:48	01/04/24 22:41	1
1,4-Difluorobenzene (Surr)	78		70 - 130	01/04/24 13:48	01/04/24 22:41	1

Lab Sample ID: LCS 880-70210/1-A

**Matrix: Solid** 

**Analysis Batch: 70148** 

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA Prep Batch: 70210

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09434		mg/Kg		94	70 - 130	
Toluene	0.100	0.09426		mg/Kg		94	70 - 130	
Ethylbenzene	0.100	0.1182		mg/Kg		118	70 - 130	
m-Xylene & p-Xylene	0.200	0.2539		mg/Kg		127	70 - 130	
o-Xylene	0.100	0.1260		mg/Kg		126	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130
1.4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: LCSD 880-70210/2-A

Released to Imaging: 5/9/2024 9:15:29 AM

Matrix: Solid

**Analysis Batch: 70148** 

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

Prep Batch: 70210

Spike LCSD LCSD RPD %Rec Result Qualifier Analyte Added Unit %Rec Limits RPD Limit Benzene 0.100 0.1013 mg/Kg 101 70 - 130

Client: Ensolum Project/Site: CORRAL CANYON EXPANSION BATTERY Job ID: 890-5871-1

SDG: 03C1558299

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

Lab Sample ID: LCSD 880-70210/2-A

**Matrix: Solid** Analysis Batch: 70148 Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 70210

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.1014		mg/Kg		101	70 - 130	7	35
Ethylbenzene	0.100	0.1217		mg/Kg		122	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2780	*+	mg/Kg		139	70 - 130	9	35
o-Xylene	0.100	0.1375	*+	mg/Kg		138	70 - 130	9	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	142	S1+	70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: 890-5869-A-1-A MS

**Matrix: Solid** 

**Analysis Batch: 70148** 

Client	Sample	ID: I	Matrix	∢ Spike
	Droi	S TV	no: To	otal/NA

Prep Batch: 70210

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Benzene <0.00198 U 0.101 0.07960 79 mg/Kg 70 - 130 Toluene <0.00198 UF1 0.101 0.06857 F1 67 70 - 130 mg/Kg Ethylbenzene <0.00198 U 0.101 0.08842 70 - 130 mg/Kg 88 m-Xylene & p-Xylene <0.00396 U\*+ 0.202 0.1767 87 70 - 130 mg/Kg o-Xylene <0.00198 U\*+ 0.101 0.09382 mg/Kg 93 70 - 130

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 890-5869-A-1-B MSD

**Matrix: Solid** 

Analysis Batch: 70148

Client	Sample	ID: M	atrix S	nike	Duplicate

Prep Type: Total/NA

Prep Batch: 70210

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00198	U	0.101	0.08469		mg/Kg		84	70 - 130	6	35
Toluene	<0.00198	U F1	0.101	0.07522		mg/Kg		74	70 - 130	9	35
Ethylbenzene	<0.00198	U	0.101	0.09959		mg/Kg		99	70 - 130	12	35
m-Xylene & p-Xylene	< 0.00396	U *+	0.202	0.1937		mg/Kg		96	70 - 130	9	35
o-Xylene	<0.00198	U *+	0.101	0.1034		mg/Kg		103	70 - 130	10	35

MSD MSD

Surrogate	76Recovery	Qualifier	LIIIIII
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

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

Lab Sample ID: MB 880-70271/1-A

**Matrix: Solid** 

**Analysis Batch: 70348** 

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

Prep Batch: 70271

мв мв Result Qualifier RL Unit Prepared <50.0 U 50.0 mg/Kg 01/05/24 08:35 01/06/24 08:40 Gasoline Range Organics

(GRO)-C6-C10

Job ID: 890-5871-1 Client: Ensolum Project/Site: CORRAL CANYON EXPANSION BATTERY SDG: 03C1558299

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

Lab Sample ID: MB 880-70271/1-A **Matrix: Solid** 

Analysis Batch: 70348

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

Prep Batch: 70271

ı		IVID	IND						
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/05/24 08:35	01/06/24 08:40	1
	Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/05/24 08:35	01/06/24 08:40	1

MB MB

MR MR

	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	1-Chlorooctane	156	S1+	70 - 130	01/05/24 08:35	01/06/24 08:40	1
l	o-Terphenyl	158	S1+	70 - 130	01/05/24 08:35	01/06/24 08:40	1

**Client Sample ID: Lab Control Sample** 

Lab Sample ID: LCS 880-70271/2-A **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 70348 Prep Batch: 70271

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 895.3 90 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 978.3 mg/Kg 98 70 - 130 C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	101		70 - 130

Lab Sample ID: LCSD 880-70271/3-A

**Matrix: Solid** Analysis Batch: 70348 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Prep Batch: 70271

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	896.6		mg/Kg		90	70 - 130	0	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	999.5		mg/Kg		100	70 - 130	2	20
C10-C28)									

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	91		70 - 130
o-Terphenyl	92		70 - 130

Lab Sample ID: 880-37547-A-101-E MS

**Matrix: Solid** 

Analysis Batch: 70348

Client Sample ID: Matrix Spike

Prep Type: Total/NA Prep Batch: 70271

Spike MS MS %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits <49.5 U 999 824.1 79 70 - 130 Gasoline Range Organics mg/Kg (GRO)-C6-C10 999 1637 F1 70 - 130 Diesel Range Organics (Over <49.5 UF1 mg/Kg 161

C10-C28)

	MS	WS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	157	S1+	70 - 130
o-Terphenyl	122		70 - 130

Job ID: 890-5871-1 Client: Ensolum Project/Site: CORRAL CANYON EXPANSION BATTERY SDG: 03C1558299

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

Lab Sample ID: 880-37547-A-101-F MSD Client Sample ID: Matrix Spike Duplicate

**Matrix: Solid** 

Analysis Batch: 70348

Prep Type: Total/NA Prep Batch: 70271

Client Sample ID: Lab Control Sample Dup

Client Sample ID: Matrix Spike Duplicate

**Prep Type: Soluble** 

**Prep Type: Soluble** 

**Prep Type: Soluble** 

Client Sample ID: Matrix Spike

Sample Sample MSD MSD RPD Spike Result Qualifier Analyte Added Result Qualifier %Rec Limits RPD Limit Unit D Gasoline Range Organics <49.5 U 999 960.7 mg/Kg 93 70 - 130 15 20 (GRO)-C6-C10 999 1722 F1 169 70 - 130 Diesel Range Organics (Over <49.5 U F1 mg/Kg 5 20 C10-C28)

MSD MSD %Recovery Qualifier Limits Surrogate 1-Chlorooctane S1+ 70 - 130 164 o-Terphenyl 127 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-70219/1-A Client Sample ID: Method Blank **Prep Type: Soluble** 

**Matrix: Solid** 

**Analysis Batch: 70294** 

MB MB

Result Qualifier RL Unit Analyte Prepared Analyzed Dil Fac Chloride <5.00 5.00 mg/Kg 01/08/24 08:05

Lab Sample ID: LCS 880-70219/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble** 

**Matrix: Solid** 

**Analysis Batch: 70294** 

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits Chloride 250 241.0 90 - 110 mg/Kg

Lab Sample ID: LCSD 880-70219/3-A

**Matrix: Solid** 

Analysis Batch: 70294

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	240.5		mg/Kg		96	90 - 110	0	20	

Lab Sample ID: 890-5870-A-3-C MS

**Matrix: Solid** 

**Analysis Batch: 70294** 

Sample Sample Spike MS MS %Rec Result Qualifier Added Qualifier Analyte Result Unit %Rec Limits Chloride 248 90 - 110 318 563.6 mg/Kg

Lab Sample ID: 890-5870-A-3-D MSD

Matrix: Solid

Analysis Ratch: 70294

Alialysis batch: 70294											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	318		248	564.5		mg/Kg		99	90 - 110	0	20

Client: Ensolum Job ID: 890-5871-1
Project/Site: CORRAL CANYON EXPANSION BATTERY SDG: 03C1558299

### **GC VOA**

### Analysis Batch: 70148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5871-1	SS01	Total/NA	Solid	8021B	70210
890-5871-2	SS02	Total/NA	Solid	8021B	70210
890-5871-3	SS03	Total/NA	Solid	8021B	70210
MB 880-70150/5-A	Method Blank	Total/NA	Solid	8021B	70150
MB 880-70210/5-A	Method Blank	Total/NA	Solid	8021B	70210
LCS 880-70210/1-A	Lab Control Sample	Total/NA	Solid	8021B	70210
LCSD 880-70210/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	70210
890-5869-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	70210
890-5869-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	70210

#### Prep Batch: 70150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-70150/5-A	Method Blank	Total/NA	Solid	5035	

### Prep Batch: 70210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5871-1	SS01	Total/NA	Solid	5035	
890-5871-2	SS02	Total/NA	Solid	5035	
890-5871-3	SS03	Total/NA	Solid	5035	
MB 880-70210/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-70210/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-70210/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-5869-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
890-5869-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

### **Analysis Batch: 70285**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5871-1	SS01	Total/NA	Solid	Total BTEX	
890-5871-2	SS02	Total/NA	Solid	Total BTEX	
890-5871-3	SS03	Total/NA	Solid	Total BTEX	

### **GC Semi VOA**

### Prep Batch: 70271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5871-1	SS01	Total/NA	Solid	8015NM Prep	
890-5871-2	SS02	Total/NA	Solid	8015NM Prep	
890-5871-3	SS03	Total/NA	Solid	8015NM Prep	
MB 880-70271/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-70271/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-70271/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-37547-A-101-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-37547-A-101-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

# Analysis Batch: 70348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5871-1	SS01	Total/NA	Solid	8015B NM	70271
890-5871-2	SS02	Total/NA	Solid	8015B NM	70271
890-5871-3	SS03	Total/NA	Solid	8015B NM	70271
MB 880-70271/1-A	Method Blank	Total/NA	Solid	8015B NM	70271
LCS 880-70271/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	70271

**Eurofins Carlsbad** 

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Client: Ensolum Job ID: 890-5871-1
Project/Site: CORRAL CANYON EXPANSION BATTERY SDG: 03C1558299

### GC Semi VOA (Continued)

### **Analysis Batch: 70348 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-70271/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	70271
880-37547-A-101-E MS	Matrix Spike	Total/NA	Solid	8015B NM	70271
880-37547-A-101-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	70271

### Analysis Batch: 70420

<b>Lab Sample ID</b> 890-5871-1	Client Sample ID SS01	Prep Type Total/NA	Matrix Solid	Method 8015 NM	Prep Batch
890-5871-2	SS02	Total/NA	Solid	8015 NM	
890-5871-3	SS03	Total/NA	Solid	8015 NM	

### HPLC/IC

#### Leach Batch: 70219

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5871-1	SS01	Soluble	Solid	DI Leach	
890-5871-2	SS02	Soluble	Solid	DI Leach	
890-5871-3	SS03	Soluble	Solid	DI Leach	
MB 880-70219/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-70219/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-70219/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5870-A-3-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-5870-A-3-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

#### Analysis Batch: 70294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5871-1	SS01	Soluble	Solid	300.0	70219
890-5871-2	SS02	Soluble	Solid	300.0	70219
890-5871-3	SS03	Soluble	Solid	300.0	70219
MB 880-70219/1-A	Method Blank	Soluble	Solid	300.0	70219
LCS 880-70219/2-A	Lab Control Sample	Soluble	Solid	300.0	70219
LCSD 880-70219/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	70219
890-5870-A-3-C MS	Matrix Spike	Soluble	Solid	300.0	70219
890-5870-A-3-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	70219

Client: Ensolum

Project/Site: CORRAL CANYON EXPANSION BATTERY

Job ID: 890-5871-1 SDG: 03C1558299

Lab Sample ID: 890-5871-1

**Matrix: Solid** 

**Client Sample ID: SS01** Date Collected: 01/02/24 12:40 Date Received: 01/02/24 16:36

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	70210	01/04/24 13:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70148	01/05/24 04:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70285	01/05/24 04:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			70420	01/06/24 18:20	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	70271	01/05/24 08:35	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70348	01/06/24 18:20	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	70219	01/04/24 14:25	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	70294	01/08/24 10:14	CH	EET MID

Lab Sample ID: 890-5871-2 **Client Sample ID: SS02 Matrix: Solid** 

Date Collected: 01/02/24 12:45

Date Received: 01/02/24 16:36

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 70210 Total/NA 5.01 g 5 mL 01/04/24 13:48 EL EET MID 8021B Total/NA 5 mL 01/05/24 05:14 **EET MID** Analysis 1 5 mL 70148 MNR Total/NA Total BTEX 70285 01/05/24 05:14 SM Analysis 1 **EET MID** Total/NA Analysis 8015 NM 70420 01/06/24 18:41 SM **EET MID** Total/NA 8015NM Prep 70271 Prep 9.92 g 10 mL 01/05/24 08:35 TKC EET MID Total/NA Analysis 8015B NM 1 uL 1 uL 70348 01/06/24 18:41 SM **EET MID** Soluble 01/04/24 14:25 Leach DI Leach 5.02 g 50 mL 70219 SA **EET MID** Soluble Analysis 300.0 5 50 mL 50 mL 70294 01/08/24 10:19 СН **EET MID** 

Lab Sample ID: 890-5871-3 **Client Sample ID: SS03** 

Date Collected: 01/02/24 12:50 Date Received: 01/02/24 16:36

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	70210	01/04/24 13:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70148	01/05/24 05:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70285	01/05/24 05:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			70420	01/06/24 19:02	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	70271	01/05/24 08:35	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70348	01/06/24 19:02	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	70219	01/04/24 14:25	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	70294	01/08/24 10:24	CH	EET MID

**Laboratory References:** 

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

**Eurofins Carlsbad** 

**Matrix: Solid** 

## **Accreditation/Certification Summary**

Client: Ensolum Job ID: 890-5871-1
Project/Site: CORRAL CANYON EXPANSION BATTERY SDG: 03C1558299

## **Laboratory: Eurofins Midland**

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

Authority	Progra	am	Identification Number	Expiration Date
Texas	NELA	Р	T104704400-23-26	06-30-24
0 ,		ut the laboratory is not certif	fied by the governing authority. This lis	t may include analytes
for which the agency do	oes not offer certification.  Prep Method	Matrix	Analyte	
8015 NM	1 TOP MOUNTOU	Solid	Total TPH	
Total BTEX		Solid	Total BTEX	

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#### **Method Summary**

Client: Ensolum Job ID: 890-5871-1 Project/Site: CORRAL CANYON EXPANSION BATTERY

SDG: 03C1558299

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

#### **Protocol References:**

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

#### Laboratory References:

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

## **Sample Summary**

Client: Ensolum Job ID: 890-5871-1 Project/Site: CORRAL CANYON EXPANSION BATTERY

SDG: 03C1558299

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-5871-1	SS01	Solid	01/02/24 12:40	01/02/24 16:36
890-5871-2	SS02	Solid	01/02/24 12:45	01/02/24 16:36
890-5871-3	SS03	Solid	01/02/24 12:50	01/02/24 16:36

Work Order No:

Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Habbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

**Environment Testing** 

eurofins ...

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

Chain of Custody

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

Date/Time

Received by: (Signature)

submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotlated

Relinquished by: (Signature)

Date/Time

lotice: 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 frence. 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 \$85.00 will be applied to each project and a charge of \$5 for each sample

Received by: (Signature)

Relinquished by: (Signature)

603 tmornsseyeensolum. Superfund DI Water: H<sub>2</sub>O Reporting: Level II Level III P5T/UST TRRP Level IV HNO 3: HN NaOH: Na NAPP2330049344 MeOH: Me Preservative Codes Sample Comments NaOH+Ascorbic Acid: SAPC 6 Zn Acetate+NaOH: Zn Incident # UST/PST | PRP | Brownfields | RRC | Na 25 20 3: NaSO 3 Other: 8RCRA 13PPM Texas 11. Al Sb. As Ba. Be. B. Cd. Ca. Cr. Co. Cu. Fe. Pb. Mg. Mn. Mo. Ni. K. Se. Ag. SiO<sub>2</sub>. Na. Sr. Tl. Sn. U. V. Zn. NaHSO 4: NABIS Hg: 1631 / 245.1 / 7470 / 7471 H, PO J: HP None: NO H2504: H2 Page Cool: Cool HCL: HC Work Order Comments ADaPT www.xenco.com 2 EDD State of Project: Deliverables: Program: TCLP/SPLP6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U 890-5871 Chain of Custody ANALYSIS REQUEST NM 88220 SYERT CEXXONNOBIL. COM Green Energy Carlsbad Garrett 8 X31 . للرا Hd XTO 3104 SORIDOS Cont Pres. Code **\*** Parameters Sarrett. Bill to: (if different) Company Name: Comp Grab/ 5 claus 0 City, State ZIP: Mario 0 5 TAT starts the day received by the lab, if received by 4:30pm Yes No HWU Address: Rush Depth 0.5 2 Turn Around Email: Batter Due Date: 12:45 Routine 12:40 Corrected Temperature: 12:50 Wet Ice: Sampled Temperature Reading: 98220 Time Correction Factor: Tacoma Morrissey Parks Thermometer ID: orral Camph Expansion 32.15336 - 104.00022 23 Ved No Sampled Date 0301558299 Carlsbad, NM 331)257-830 Marigha O'Dell 2 Circle Method(s) and Metal(s) to be analyzed 122 National Fnsolum, L Matrix Yes No (NA 5 SIS Temp Blank: 3 200.8 / 6020: CYGE NO Yes No (30) Sample Identification Samples Received Intact: Total 200.7 / 6010 Sample Custody Seals: Cooler Custody Seals: SAMPLE RECEIPT 502 503 1055 roject Number: Total Containers: Project Manager: Company Name: Project Location: Sampler's Name: City, State ZIP: Project Name: Address: PO #:

 Client: Ensolum
 Job Number: 890-5871-1

 SDG Number: 03C1558299

Login Number: 5871 List Source: Eurofins Carlsbad

List Number: 1

Creator: Lopez, Abraham

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	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	N/A	

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<6mm (1/4").

Client: Ensolum

Job Number: 890-5871-1 SDG Number: 03C1558299

Login Number: 5871 **List Source: Eurofins Midland** List Number: 2 List Creation: 01/04/24 01:31 PM

Creator: Rodriguez, Leticia

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

N/A

<6mm (1/4").

Containers requiring zero headspace have no headspace or bubble is

**Environment Testing** 

# **ANALYTICAL REPORT**

## PREPARED FOR

Attn: Ben Belill Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 2/13/2024 1:43:58 PM

## **JOB DESCRIPTION**

Corral Canyon Expansion Battery 03C1558299

## **JOB NUMBER**

890-6042-1

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 2/13/2024 1:43:58 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: Corral Canyon Expansion Battery Laboratory Job ID: 890-6042-1 SDG: 03C1558299

# **Table of Contents**

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#### **Definitions/Glossary**

Job ID: 890-6042-1 Client: Ensolum Project/Site: Corral Canyon Expansion Battery SDG: 03C1558299

#### **Qualifiers**

#### **GC VOA**

Qualifier **Qualifier Description** 

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, high biased. Indicates the analyte was analyzed for but not detected.

#### **HPLC/IC**

Qualifier **Qualifier Description** 

Indicates the analyte was analyzed for but not detected.

#### **Glossary**

Abbreviation	These commonly used abbreviations may or may not be present in this report.
n	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 Job ID: 890-6042-1

Project: Corral Canyon Expansion Battery

Job ID: 890-6042-1 Eurofins Carlsbad

## Job Narrative 890-6042-1

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 1/26/2024 3:36 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 4.4°C

#### **Receipt Exceptions**

The following samples were received and analyzed from an unpreserved bulk soil jar: PH01 (890-6042-1), PH02 (890-6042-2), PH03 (890-6042-3) and PH04 (890-6042-4).

#### **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: Surrogate recovery for the following samples were outside the upper control limit: PH02 (890-6042-2), PH03 (890-6042-3) and PH04 (890-6042-4). This sample did not contain any target analytes; therefore, re-extraction and/or reanalysis was not performed.

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

#### HPLC/IC

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

**Eurofins Carlsbad** 

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Matrix: Solid

Lab Sample ID: 890-6042-1

Job ID: 890-6042-1

Client: Ensolum Project/Site: Corral Canyon Expansion Battery SDG: 03C1558299

**Client Sample ID: PH01** 

Date Collected: 01/25/24 13:00 Date Received: 01/26/24 15:36

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/01/24 10:42	02/05/24 12:26	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/01/24 10:42	02/05/24 12:26	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/01/24 10:42	02/05/24 12:26	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		02/01/24 10:42	02/05/24 12:26	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/01/24 10:42	02/05/24 12:26	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		02/01/24 10:42	02/05/24 12:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130			02/01/24 10:42	02/05/24 12:26	1
1,4-Difluorobenzene (Surr)	106		70 - 130			02/01/24 10:42	02/05/24 12:26	1
Total BTEX	<0.00401	U	0.00401	mg/Kg			02/05/24 12:26	1
Thethod: SW846 8015 NM - Diese	l Range Organ			mg/Kg	— — D	Prepared		
	l Range Organ	ics (DRO) (C	GC)		<u>D</u>	Prepared	02/05/24 12:26  Analyzed 02/03/24 23:18	
Method: SW846 8015 NM - Diese Analyte	Range Organ Result <50.1 sel Range Organ	ics (DRO) (Gualifier	<b>GC)</b> RL  50.1	Unit		Prepared Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies	Range Organ Result <50.1 sel Range Organ	Qualifier Unics (DRO) Qualifier	GC)  RL  50.1	Unit mg/Kg			Analyzed 02/03/24 23:18	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO) Diesel Range Organics (Over	Range Organ Result <50.1 sel Range Orga Result	ics (DRO) (( Qualifier U  nics (DRO) Qualifier U	GC)  RL  50.1  (GC)  RL	Unit mg/Kg		Prepared	Analyzed 02/03/24 23:18 Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO) Diesel Range Organics (Over	Result        	ics (DRO) (( Qualifier U  nics (DRO) Qualifier U  U	GC)  RL  50.1  (GC)  RL  50.1	Unit mg/Kg  Unit mg/Kg		Prepared 01/30/24 14:46	Analyzed 02/03/24 23:18  Analyzed 02/03/24 23:18	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO) Diesel Range Organics (Over C10-C28)	el Range Organ Result <50.1  sel Range Orga Result <50.1 <50.1	ics (DRO) (( Qualifier U  nics (DRO) Qualifier U  U	GC)  RL  50.1  (GC)  RL  50.1  50.1	Unit mg/Kg  Unit mg/Kg mg/Kg		Prepared 01/30/24 14:46 01/30/24 14:46	Analyzed 02/03/24 23:18  Analyzed 02/03/24 23:18 02/03/24 23:18	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO) Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	el Range Organ Result <50.1  sel Range Orga Result <50.1 <50.1 <50.1	ics (DRO) (( Qualifier U  nics (DRO) Qualifier U  U	GC)  RL  50.1  (GC)  RL  50.1  50.1  50.1	Unit mg/Kg  Unit mg/Kg mg/Kg		Prepared 01/30/24 14:46 01/30/24 14:46 01/30/24 14:46	Analyzed 02/03/24 23:18  Analyzed 02/03/24 23:18 02/03/24 23:18 02/03/24 23:18	Dil Fac  Dil Fac  1  Dil Fac  1  Dil Fac  1

**Client Sample ID: PH02** Lab Sample ID: 890-6042-2 Matrix: Solid

RL

25.1

Unit

mg/Kg

D

Prepared

Analyzed

02/03/24 16:25

Dil Fac

Date Collected: 01/24/24 11:45 Date Received: 01/26/24 15:36

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier

3860

Sample Depth: 1

Analyte

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/01/24 10:42	02/05/24 12:47	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/01/24 10:42	02/05/24 12:47	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/01/24 10:42	02/05/24 12:47	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		02/01/24 10:42	02/05/24 12:47	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/01/24 10:42	02/05/24 12:47	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/01/24 10:42	02/05/24 12:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			02/01/24 10:42	02/05/24 12:47	1
1,4-Difluorobenzene (Surr)	111		70 - 130			02/01/24 10:42	02/05/24 12:47	1

Client: Ensolum

Job ID: 890-6042-1

Project/Site: Corral Canyon Expansion Battery SDG: 03C1558299

Lab Sample ID: 890-6042-2

02/12/24 22:34

**Matrix: Solid** 

Date Collected: 01/24/24 11:45 Date Received: 01/26/24 15:36

**Client Sample ID: PH02** 

**Matrix: Solid** 

Sample Depth: 1

C10-C28)

١	Method: TAL SOP Total BTEX - Tot	al BTEX Calo	culation							
	Analyte	Result	Qualifier	RL	Un	it C	)	Prepared	Analyzed	Dil Fac
Į	Total BTEX	<0.00398	U	0.00398	mg	ı/Kg			02/05/24 12:47	1
ſ	_									

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier Unit Analyzed Dil Fac RL Prepared <50.4 U Total TPH 50.4 02/12/24 22:34 mg/Kg

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) Result Qualifier Analyte RL Unit D Prepared Analyzed Dil Fac Gasoline Range Organics (GRO) <50.4 U 50.4 01/30/24 14:46 02/12/24 22:34 mg/Kg 50.4 mg/Kg 01/30/24 14:46 02/12/24 22:34 Diesel Range Organics (Over <50.4 U

Oll Range Organics (Over C28-C36) %Recovery Qualifier Limits Dil Fac Surrogate Prepared Analyzed 70 - 130 01/30/24 14:46 o-Terphenyl 176 S1+ 02/12/24 22:34 1-Chlorooctane 153 S1+ 70 - 130 01/30/24 14:46 02/12/24 22:34

50.4

mg/Kg

01/30/24 14:46

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier Dil Fac Analyte RL Unit D Prepared Analyzed Chloride 204 5.04 mg/Kg 02/03/24 16:32

**Client Sample ID: PH03** Lab Sample ID: 890-6042-3

Date Collected: 01/24/24 10:25 Date Received: 01/26/24 15:36

<50.4 U

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/01/24 10:42	02/05/24 13:07	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/01/24 10:42	02/05/24 13:07	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/01/24 10:42	02/05/24 13:07	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		02/01/24 10:42	02/05/24 13:07	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/01/24 10:42	02/05/24 13:07	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/01/24 10:42	02/05/24 13:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130			02/01/24 10:42	02/05/24 13:07	1
1,4-Difluorobenzene (Surr)	103		70 - 130			02/01/24 10:42	02/05/24 13:07	1
Method: TAL SOP Total BTEX	- Total BTEX Cald				_			1
Method: TAL SOP Total BTEX Analyte	- Total BTEX Cald	Qualifier	RL	Unit	<u>D</u>	02/01/24 10:42 Prepared	Analyzed	1 Dil Fac
Method: TAL SOP Total BTEX	- Total BTEX Cald	Qualifier		Unit mg/Kg	<u>D</u>			Dil Fac
Method: TAL SOP Total BTEX Analyte	- Total BTEX Calc Result <0.00398	Qualifier U	RL0.00398		<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX	- Total BTEX Calc Result <0.00398 esel Range Organ	Qualifier U	RL0.00398		<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die	- Total BTEX Calc Result <0.00398 esel Range Organ	Qualifier U ics (DRO) (C	RL 0.00398	mg/Kg		Prepared	Analyzed 02/05/24 13:07	1
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte	- Total BTEX Calc Result <0.00398 esel Range Organ Result <50.0	Qualifier U ics (DRO) (Comparison of the property of the prope	RL 0.00398  GC)  RL 50.0	mg/Kg		Prepared	Analyzed 02/05/24 13:07 Analyzed	1
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH	- Total BTEX Calc Result <0.00398 esel Range Organ Result <50.0 iesel Range Orga	Qualifier U ics (DRO) (Comparison of the Comparison of the Compari	RL 0.00398  GC)  RL 50.0	mg/Kg		Prepared	Analyzed 02/05/24 13:07 Analyzed	1
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH  Method: SW846 8015B NM - D	- Total BTEX Calc Result <0.00398 esel Range Organ Result <50.0 iesel Range Orga	Qualifier U  ics (DRO) (Qualifier U  nics (DRO) Qualifier	RL 0.00398  GC)  RL 50.0	mg/Kg  Unit  mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 02/05/24 13:07  Analyzed 02/12/24 22:55	Dil Fa

Job ID: 890-6042-1 SDG: 03C1558299

Client: Ensolum Project/Site: Corral Canyon Expansion Battery

**Client Sample ID: PH03** Lab Sample ID: 890-6042-3

Date Collected: 01/24/24 10:25 Matrix: Solid Date Received: 01/26/24 15:36

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/30/24 14:46	02/12/24 22:55	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/30/24 14:46	02/12/24 22:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
o-Terphenyl	187	S1+	70 - 130			01/30/24 14:46	02/12/24 22:55	1
1-Chlorooctane	165	S1+	70 - 130			01/30/24 14:46	02/12/24 22:55	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier Analyte RL Unit Prepared Dil Fac D Analyzed 5.01 02/03/24 16:53 Chloride 440 mg/Kg

**Client Sample ID: PH04** Lab Sample ID: 890-6042-4 Matrix: Solid

Date Collected: 01/24/24 10:35

Date Received: 01/26/24 15:36

Released to Imaging: 5/9/2024 9:15:29 AM

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/01/24 10:42	02/05/24 13:28	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/01/24 10:42	02/05/24 13:28	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/01/24 10:42	02/05/24 13:28	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		02/01/24 10:42	02/05/24 13:28	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/01/24 10:42	02/05/24 13:28	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		02/01/24 10:42	02/05/24 13:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			02/01/24 10:42	02/05/24 13:28	1
1,4-Difluorobenzene (Surr)	107		70 - 130			02/01/24 10:42	02/05/24 13:28	1
Analyte Total BTEX	<0.00399	Qualifier U	RL 0.00399	Unit mg/Kg	D	Prepared	Analyzed 02/05/24 13:28	Dil Fac
			•					
Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH		Qualifier	•	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 02/12/24 23:36	Dil Fac
Analyte	Result  <50.0 sel Range Orga	Qualifier U	<b>RL</b> 50.0		<u>D</u>	Prepared		Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies	Result  <50.0 sel Range Orga	Qualifier U	<b>RL</b> 50.0		<u>D</u>	Prepared Prepared		Dil Fac  Dil Fac
Analyte Total TPH	Result  <50.0 sel Range Orga	Qualifier Unics (DRO) Qualifier	RL 50.0	mg/Kg			02/12/24 23:36	1
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO) Diesel Range Organics (Over	Result <50.0 sel Range Orga	Qualifier U  nics (DRO) Qualifier U	RL 50.0 (GC)	mg/Kg		Prepared	02/12/24 23:36  Analyzed	1 Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte	Result <50.0  Result <50.0	Qualifier U  nics (DRO) Qualifier U  U	RL 50.0 (GC) RL 50.0	mg/Kg  Unit  mg/Kg		Prepared 01/30/24 14:46	02/12/24 23:36  Analyzed 02/12/24 23:36	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO) Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result   <50.0	Qualifier U  nics (DRO) Qualifier U  U	RL 50.0 (GC) RL 50.0 50.0	mg/Kg  Unit  mg/Kg  mg/Kg		Prepared 01/30/24 14:46 01/30/24 14:46	02/12/24 23:36  Analyzed  02/12/24 23:36  02/12/24 23:36	1 Dil Fac 1 1
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO) Diesel Range Organics (Over C10-C28)	Result   <50.0	Qualifier U  nics (DRO) Qualifier U  U	RL 50.0 (GC) RL 50.0 50.0	mg/Kg  Unit  mg/Kg  mg/Kg		Prepared 01/30/24 14:46 01/30/24 14:46 01/30/24 14:46	02/12/24 23:36  Analyzed 02/12/24 23:36 02/12/24 23:36 02/12/24 23:36	1 Dil Fac 1

## **Client Sample Results**

Client: Ensolum Job ID: 890-6042-1 Project/Site: Corral Canyon Expansion Battery SDG: 03C1558299

**Client Sample ID: PH04** Lab Sample ID: 890-6042-4 Matrix: Solid

Date Collected: 01/24/24 10:35 Date Received: 01/26/24 15:36

Sample Depth: 1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
l	Chloride	122		5.02	mg/Kg			02/03/24 16:59	1

DFBZ = 1,4-Difluorobenzene (Surr)

## **Surrogate Summary**

Job ID: 890-6042-1 Client: Ensolum Project/Site: Corral Canyon Expansion Battery SDG: 03C1558299

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-6042-1	PH01	84	106	
890-6042-1 MS	PH01	99	97	
890-6042-1 MSD	PH01	109	97	
890-6042-2	PH02	111	111	
890-6042-3	PH03	113	103	
890-6042-4	PH04	117	107	
LCS 880-72114/1-A	Lab Control Sample	107	94	
LCSD 880-72114/2-A	Lab Control Sample Dup	106	94	
MB 880-72114/5-A	Method Blank	129	120	
Surrogate Legend				

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits
		OTPH1	1CO1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
0-6042-1	PH01	116	102	
)-6042-2	PH02	176 S1+	153 S1+	
0-6042-3	PH03	187 S1+	165 S1+	
0-6042-4	PH04	203 S1+	182 S1+	
0-6044-A-1-G MS	Matrix Spike	87	88	
-6044-A-1-H MSD	Matrix Spike Duplicate	70	71	
870-17960/1-A	Lab Control Sample	114	123	
SD 870-17960/2-A	Lab Control Sample Dup	110	118	
3 870-17960/3-A	Method Blank	108	101	
Surrogate Legend				
OTPH = o-Terphenyl				

1CO = 1-Chlorooctane

Client: Ensolum Job ID: 890-6042-1 Project/Site: Corral Canyon Expansion Battery SDG: 03C1558299

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-72114/5-A

**Matrix: Solid** 

Analysis Batch: 72316

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 72114

ı		MB	МВ						
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Benzene	<0.00200	U	0.00200	mg/Kg		02/01/24 10:42	02/05/24 11:58	1
	Toluene	<0.00200	U	0.00200	mg/Kg		02/01/24 10:42	02/05/24 11:58	1
	Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/01/24 10:42	02/05/24 11:58	1
	m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/01/24 10:42	02/05/24 11:58	1
	o-Xylene	<0.00200	U	0.00200	mg/Kg		02/01/24 10:42	02/05/24 11:58	1
	Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/01/24 10:42	02/05/24 11:58	1

MB MB

Surrogate	%Recovery Quality	fier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129	70 - 130	02/01/24 10:42	02/05/24 11:58	1
1,4-Difluorobenzene (Surr)	120	70 - 130	02/01/24 10:42	02/05/24 11:58	1

Spike

Added

0.100

0.100

0.100

0.200

0.100

LCS LCS

0.1004

0.1048

0.1151

0.2201

0.1064

Result Qualifier

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

Lab Sample ID: LCS 880-72114/1-A

**Matrix: Solid** 

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

m-Xylene & p-Xylene

**Analysis Batch: 72316** 

**Client Sample ID: Lab Control Sample** 

70 - 130

70 - 130

110

106

Prep Type: Total/NA

Prep Batch: 72114

%Rec Limits 100 70 - 130 105 70 - 130 115 70 - 130

LCS LCS

Surrogate	%Recovery	Qualifier	Limits		
4-Bromofluorobenzene (Surr)	107		70 - 130		
1,4-Difluorobenzene (Surr)	94		70 - 130		

Lab Sample ID: LCSD 880-72114/2-A

**Matrix: Solid** 

Analysis Batch: 72316

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 72114

RPD LCSD LCSD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Limit Benzene 0.100 0.09665 mg/Kg 97 70 - 130 35 Toluene 0.100 0.1002 mg/Kg 100 70 - 130 35 Ethylbenzene 0.100 0.1084 mg/Kg 108 70 - 130 35 0.200 m-Xylene & p-Xylene 0.2192 mg/Kg 110 70 - 130 35 0.100 0.1066 107 o-Xylene mg/Kg 70 - 130 35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1.4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 890-6042-1 MS

**Matrix: Solid** 

Analysis Batch: 72316

Client Sample ID: PH01 Prep Type: Total/NA

Prep Batch: 72114

		Sample	Sample	Spike	MS	MS				%Rec	
	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
	Benzene	<0.00200	U	0.0996	0.09142		mg/Kg	_	92	70 - 130	
ı	Toluene	<0.00200	U	0.0996	0.1006		mg/Kg		101	70 - 130	

**Eurofins Carlsbad** 

### **QC Sample Results**

Client: Ensolum Job ID: 890-6042-1 SDG: 03C1558299 Project/Site: Corral Canyon Expansion Battery

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

Lab Sample ID: 890-6042-1 MS **Matrix: Solid** 

Analysis Batch: 72316

**Client Sample ID: PH01** Prep Type: Total/NA Prep Batch: 72114

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00200	U	0.0996	0.1052		mg/Kg		106	70 - 130	 
m-Xylene & p-Xylene	<0.00401	U	0.199	0.2076		mg/Kg		104	70 - 130	
o-Xylene	<0.00200	U	0.0996	0.09916		mg/Kg		100	70 - 130	

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	99	70 - 130
1,4-Difluorobenzene (Surr)	97	70 - 130

Lab Sample ID: 890-6042-1 MSD

**Matrix: Solid** 

**Analysis Batch: 72316** 

**Client Sample ID: PH01** Prep Type: Total/NA Prep Batch: 72114

	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	0.09993		mg/Kg		101	70 - 130	9	35
Toluene	<0.00200	U	0.0990	0.09497		mg/Kg		96	70 - 130	6	35
Ethylbenzene	<0.00200	U	0.0990	0.1120		mg/Kg		113	70 - 130	6	35
m-Xylene & p-Xylene	<0.00401	U	0.198	0.2214		mg/Kg		112	70 - 130	6	35
o-Xylene	<0.00200	U	0.0990	0.1058		mg/Kg		107	70 - 130	7	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

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

Lab Sample ID: MB 870-17960/3-A Client Sample ID: Method Blank Prep Type: Total/NA

**Matrix: Solid** 

Analysis Batch: 17706

	MB N	ИВ						
Analyte	Result C	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<50.0 L	J	50.0	mg/Kg		01/30/24 14:46	02/03/24 17:12	1
Diesel Range Organics (Over	<50.0 L	J	50.0	mg/Kg		01/30/24 14:46	02/03/24 17:12	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0 L	J	50.0	mg/Kg		01/30/24 14:46	02/03/24 17:12	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	108		70 - 130	01/30/24 14:46	02/03/24 17:12	1
1-Chlorooctane	101		70 - 130	01/30/24 14:46	02/03/24 17:12	1

Lab Sample ID: LCS 870-17960/1-A

Matrix: Solid

Analysis Batch: 17988						Prep Batch: 17960		
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)	1020	1171		mg/Kg		115	70 - 130	
Diesel Range Organics (Over	1010	1092		mg/Kg		108	70 - 130	
C10-C28)								

**Eurofins Carlsbad** 

Prep Type: Total/NA

**Client Sample ID: Lab Control Sample** 

Prep Batch: 17960

Project/Site: Corral Canyon Expansion Battery

Job ID: 890-6042-1

SDG: 03C1558299

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

LCS LCS

Lab Sample ID: LCS 870-17960/1-A

**Matrix: Solid** 

Client: Ensolum

**Analysis Batch: 17988** 

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 17960

Surrogate %Recovery Qualifier Limits o-Terphenyl 114 70 - 130 1-Chlorooctane 123 70 - 130

Lab Sample ID: LCSD 870-17960/2-A

**Matrix: Solid** 

**Analysis Batch: 17988** 

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 17960

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit Gasoline Range Organics (GRO) 1020 1106 109 70 - 1306 20 mg/Kg Diesel Range Organics (Over 1010 1163 mg/Kg 115 70 - 130 20 C10-C28)

LCSD LCSD

%Recovery Surrogate Qualifier Limits o-Terphenyl 110 70 - 130 1-Chlorooctane 118 70 - 130

Lab Sample ID: 890-6044-A-1-G MS Client Sample ID: Matrix Spike

**Matrix: Solid** 

Analysis Batch: 17706

Prep Type: Total/NA

Prep Batch: 17960

MS MS %Rec Sample Sample Spike Qualifier Added Qualifier Result Result Unit D %Rec Limits <49.8 U F1 1020 652.6 F1 64 70 - 130 Gasoline Range Organics (GRO) mg/Kg Diesel Range Organics (Over 104 F1 F2 1010 889.9 mg/Kg 78 70 - 130 C10-C28)

Spike

Added

1020

1010

MSD MSD

720.1 F1 F2

Qualifier

Unit

mg/Kg

mg/Kg

Result

608.6 F1

MS MS

%Recovery Qualifier Surrogate Limits o-Terphenyl 87 70 - 130 1-Chlorooctane 88 70 - 130

Lab Sample ID: 890-6044-A-1-H MSD

**Matrix: Solid** 

**Analysis Batch: 17706** 

Gasoline Range Organics (GRO)

Diesel Range Organics (Over

Client Sample ID: Matrix Spike Duplicate

70 - 130

61

Prep Type: Total/NA

Prep Batch: 17960

21

20

%Rec RPD %Rec Limits RPD Limit 60 70 - 130 20

C10-C28)

Analyte

MSD MSD

Sample Sample

<49.8 U F1

Result Qualifier

104 F1 F2

%Recovery Qualifier Surrogate Limits o-Terphenyl 70 70 - 130 1-Chlorooctane 71 70 - 130

Client: Ensolum Job ID: 890-6042-1 Project/Site: Corral Canyon Expansion Battery

SDG: 03C1558299

**Prep Type: Soluble** 

Client Sample ID: Method Blank

Client Sample ID: Matrix Spike Duplicate

**Prep Type: Soluble** 

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-71956/1-A

**Matrix: Solid** 

Analysis Batch: 72172

мв мв

Dil Fac Analyte Result Qualifier RL Unit D Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 02/03/24 15:31

Lab Sample ID: LCS 880-71956/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 72172** 

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 273.0 mg/Kg 109 90 - 110

Lab Sample ID: LCSD 880-71956/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 72172** 

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 266.7 107 mg/Kg 90 - 110

Lab Sample ID: 890-6041-A-1-C MS Client Sample ID: Matrix Spike **Prep Type: Soluble** 

**Matrix: Solid** 

**Analysis Batch: 72172** 

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added %Rec Result Qualifier Unit Limits Chloride 142 248 404.5 106 90 - 110 mg/Kg

Lab Sample ID: 890-6041-A-1-D MSD

**Matrix: Solid** 

**Analysis Batch: 72172** 

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit 248 Chloride 142 402.1 mg/Kg 105 90 - 110 20

## **QC Association Summary**

Client: Ensolum Job ID: 890-6042-1 Project/Site: Corral Canyon Expansion Battery SDG: 03C1558299

**GC VOA** 

Prep Batch: 72114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6042-1	PH01	Total/NA	Solid	5035	
890-6042-2	PH02	Total/NA	Solid	5035	
890-6042-3	PH03	Total/NA	Solid	5035	
890-6042-4	PH04	Total/NA	Solid	5035	
MB 880-72114/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-72114/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-72114/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-6042-1 MS	PH01	Total/NA	Solid	5035	
890-6042-1 MSD	PH01	Total/NA	Solid	5035	

**Analysis Batch: 72316** 

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6042-1	PH01	Total/NA	Solid	8021B	72114
890-6042-2	PH02	Total/NA	Solid	8021B	72114
890-6042-3	PH03	Total/NA	Solid	8021B	72114
890-6042-4	PH04	Total/NA	Solid	8021B	72114
MB 880-72114/5-A	Method Blank	Total/NA	Solid	8021B	72114
LCS 880-72114/1-A	Lab Control Sample	Total/NA	Solid	8021B	72114
LCSD 880-72114/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	72114
890-6042-1 MS	PH01	Total/NA	Solid	8021B	72114
890-6042-1 MSD	PH01	Total/NA	Solid	8021B	72114

Analysis Batch: 72429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6042-1	PH01	Total/NA	Solid	Total BTEX	
890-6042-2	PH02	Total/NA	Solid	Total BTEX	
890-6042-3	PH03	Total/NA	Solid	Total BTEX	
890-6042-4	PH04	Total/NA	Solid	Total BTEX	

**GC Semi VOA** 

Analysis Batch: 17706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6042-1	PH01	Total/NA	Solid	8015B NM	17960
MB 870-17960/3-A	Method Blank	Total/NA	Solid	8015B NM	17960
890-6044-A-1-G MS	Matrix Spike	Total/NA	Solid	8015B NM	17960
890-6044-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	17960

Prep Batch: 17960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6042-1	PH01	Total/NA	Solid	8015NM Prep	
890-6042-2	PH02	Total/NA	Solid	8015NM Prep	
890-6042-3	PH03	Total/NA	Solid	8015NM Prep	
890-6042-4	PH04	Total/NA	Solid	8015NM Prep	
MB 870-17960/3-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 870-17960/1-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 870-17960/2-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-6044-A-1-G MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-6044-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

## **QC Association Summary**

Client: Ensolum
Project/Site: Corral Canyon Expansion Battery

Job ID: 890-6042-1
SDG: 03C1558299

#### GC Semi VOA

#### Analysis Batch: 17988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6042-2	PH02	Total/NA	Solid	8015B NM	17960
890-6042-3	PH03	Total/NA	Solid	8015B NM	17960
890-6042-4	PH04	Total/NA	Solid	8015B NM	17960
LCS 870-17960/1-A	Lab Control Sample	Total/NA	Solid	8015B NM	17960
LCSD 870-17960/2-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	17960

#### Analysis Batch: 18037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch
890-6042-1	PH01	Total/NA	Solid	8015 NM
890-6042-2	PH02	Total/NA	Solid	8015 NM
890-6042-3	PH03	Total/NA	Solid	8015 NM
890-6042-4	PH04	Total/NA	Solid	8015 NM

#### **HPLC/IC**

#### Leach Batch: 71956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6042-1	PH01	Soluble	Solid	DI Leach	
890-6042-2	PH02	Soluble	Solid	DI Leach	
890-6042-3	PH03	Soluble	Solid	DI Leach	
890-6042-4	PH04	Soluble	Solid	DI Leach	
MB 880-71956/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-71956/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-71956/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-6041-A-1-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-6041-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

#### **Analysis Batch: 72172**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6042-1	PH01	Soluble	Solid	300.0	71956
890-6042-2	PH02	Soluble	Solid	300.0	71956
890-6042-3	PH03	Soluble	Solid	300.0	71956
890-6042-4	PH04	Soluble	Solid	300.0	71956
MB 880-71956/1-A	Method Blank	Soluble	Solid	300.0	71956
LCS 880-71956/2-A	Lab Control Sample	Soluble	Solid	300.0	71956
LCSD 880-71956/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	71956
890-6041-A-1-C MS	Matrix Spike	Soluble	Solid	300.0	71956
890-6041-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	71956

**Eurofins Carlsbad** 

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Job ID: 890-6042-1

SDG: 03C1558299

Project/Site: Corral Canyon Expansion Battery **Client Sample ID: PH01** 

Lab Sample ID: 890-6042-1

**Matrix: Solid** 

Date Collected: 01/25/24 13:00 Date Received: 01/26/24 15:36

Client: Ensolum

	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	72114	02/01/24 10:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72316	02/05/24 12:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72429	02/05/24 12:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			18037	02/03/24 23:18	CC	EET DAL
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	17960	01/30/24 14:46	WP	EET DAL
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	17706	02/03/24 23:18	WP	EET DAL
Soluble	Leach	DI Leach			4.98 g	50 mL	71956	01/30/24 14:18	SMC	EET MID
Soluble	Analysis	300.0		5			72172	02/03/24 16:25	CH	EET MID

**Client Sample ID: PH02** Lab Sample ID: 890-6042-2

Date Collected: 01/24/24 11:45

Date Received: 01/26/24 15:36

Matrix: Solid

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 72114 Total/NA Prep 5.02 g 5 mL 02/01/24 10:42 MNR EET MID Total/NA 8021B 5 mL 72316 02/05/24 12:47 **EET MID** Analysis 1 5 mL MNR Total/NA Total BTEX 72429 02/05/24 12:47 SM EET MID Analysis 1 Total/NA Analysis 8015 NM 18037 02/12/24 22:34 CC EET DAL Total/NA 17960 01/30/24 14:46 WP EET DAL Prep 8015NM Prep 9.92 g 10 mL Total/NA Analysis 8015B NM 1 uL 1 uL 17988 02/12/24 22:34 WP EET DAL Soluble 01/30/24 14:18 Leach DI Leach 4.96 g 50 mL 71956 SMC **EET MID** Soluble Analysis 300.0 72172 02/03/24 16:32 СН **EET MID** 

**Client Sample ID: PH03** Lab Sample ID: 890-6042-3

Date Collected: 01/24/24 10:25 Date Received: 01/26/24 15:36

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	72114	02/01/24 10:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72316	02/05/24 13:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72429	02/05/24 13:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			18037	02/12/24 22:55	CC	EET DAL
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	17960	01/30/24 14:46	WP	EET DAL
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	17988	02/12/24 22:55	WP	EET DAL
Soluble	Leach	DI Leach			4.99 g	50 mL	71956	01/30/24 14:18	SMC	EET MID
Soluble	Analysis	300.0		1			72172	02/03/24 16:53	CH	EET MID

**Client Sample ID: PH04** Lab Sample ID: 890-6042-4

Date Collected: 01/24/24 10:35 Date Received: 01/26/24 15:36

_	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	72114	02/01/24 10:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72316	02/05/24 13:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72429	02/05/24 13:28	SM	EET MID

**Eurofins Carlsbad** 

Matrix: Solid

Released to Imaging: 5/9/2024 9:15:29 AM

#### **Lab Chronicle**

Client: Ensolum Job ID: 890-6042-1 Project/Site: Corral Canyon Expansion Battery SDG: 03C1558299

**Client Sample ID: PH04** 

Lab Sample ID: 890-6042-4 Date Collected: 01/24/24 10:35

Matrix: Solid

Date Received: 01/26/24 15:36

	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			18037	02/12/24 23:36	CC	EET DAL
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	17960	01/30/24 14:46	WP	EET DAL
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	17988	02/12/24 23:36	WP	EET DAL
Soluble	Leach	DI Leach			4.98 g	50 mL	71956	01/30/24 14:18	SMC	EET MID
Soluble	Analysis	300.0		1			72172	02/03/24 16:59	CH	EET MID

#### Laboratory References:

EET DAL = Eurofins Dallas, 9701 Harry Hines Blvd, Dallas, TX 75220, TEL (214)902-0300

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

## **Accreditation/Certification Summary**

Client: EnsolumJob ID: 890-6042-1Project/Site: Corral Canyon Expansion BatterySDG: 03C1558299

**Laboratory: Eurofins Dallas** 

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704295-23-34	06-30-24

**Laboratory: Eurofins Midland** 

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

Authority	Progra	am	Identification Number	<b>Expiration Date</b>	
Texas	NELA	NELAP		06-30-24	
• ,	s are included in this report, bu	ut the laboratory is not certi	fied by the governing authority. This lis	t may include analytes	
for which the agency	Joes not oner certification.				
Analysis Method	Prep Method	Matrix	Analyte		
Total BTEX					

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#### **Method Summary**

Job ID: 890-6042-1 Client: Ensolum Project/Site: Corral Canyon Expansion Battery SDG: 03C1558299

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 DAL
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET DAL
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET DAL

#### **Protocol References:**

DI Leach

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

**Deionized Water Leaching Procedure** 

#### Laboratory References:

EET DAL = Eurofins Dallas, 9701 Harry Hines Blvd, Dallas, TX 75220, TEL (214)902-0300

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

**Eurofins Carlsbad** 

**EET MID** 

ASTM

## **Sample Summary**

Client: Ensolum

Project/Site: Corral Canyon Expansion Battery

Job ID: 890-6042-1

SDG: 03C1558299

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-6042-1	PH01	Solid	01/25/24 13:00	01/26/24 15:36	4
890-6042-2	PH02	Solid	01/24/24 11:45	01/26/24 15:36	1
890-6042-3	PH03	Solid	01/24/24 10:25	01/26/24 15:36	1
890-6042-4	PH04	Solid	01/24/24 10:35	01/26/24 15:36	1

Midland, TX 79701

Eurofins Midland
1211 W. Florida Ave

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# Chain of Custody Record

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Environment Testing

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, State, Zip: TX, 75220 PH04 (890-6042-4) PH03 (890-6042-3) PH02 (890-6042-2) PH01 (890-6042-1) Corral Canyon Expansion Battery Email Dallas **Eurofins Environment Testing South Centr** Phone: 432-704-5440 Empty Kit Relinquished by: Deliverable Requested: I, II, III, IV, Other (specify) Possible Hazard Identification Sample Identification - Client ID (Lab ID) 214-902-0300(Tel) 9701 Harry Hines Blvd. Shipping/Receiving Client Information Relinquished by: Relinquished by: elinquished by: Custody Seals Intact: Yes △ No (Sub Contract Lab) Custody Seal No. Phone: WO# Date/Time Primary Deliverable Rank: 2 89000093 TAT Requested (days): Due Date Requested: 2/1/2024 Sampler: Sample Date roject #: 1/24/24 1/24/24 1/24/24 1/25/24 Date: Mountain 11:45 Mountain 10:35 Mountain 10:25 Mountain Sample 13:00 ない (C=comp, G=grab) Sample Type Preservation Code: BT=Tissue, A=Air Company Company Company S=solid, O=waste/oil, (W=water, Matrix Solid Solid Solid Solid E-Mail: Kramer, Jessica Jessica.Kramer@et.eurofinsus.com Lab PM: Field Filtered Sample (Yes or No) Ime: NELAP - Texas Accreditations Required (See note): Perform MS/MSD (Yes or No) Special Instructions/QC Requirements Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Month 8015MOD\_NM/8015NM\_S\_Prep Received by Received by: Received by Cooler Temperature(s) °C and Other Remarks × × × × × × × × 8015MOD\_Calc Analysis Requested Carrier Tracking No(s) New Mexico State of Origin: Method of Shipment **Total Number of containers** F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4 880-9089.1 L-EDA Page 1 of 1 Preservation Codes: 890-6042-1 Page Special Instructions/Note: U - Acetone V - MCAA W - pH 4-5 M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 Z - other (specify) T - TSP Dodecahydrate Ver: 06/08/2021 Company Months

 Client: Ensolum
 Job Number: 890-6042-1

 SDG Number: 03C1558299

Login Number: 6042 List Source: Eurofins Carlsbad

List Number: 1

Creator: Lopez, Abraham

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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Client: Ensolum Jo

Job Number: 890-6042-1 SDG Number: 03C1558299

List Source: Eurofins Dallas
List Number: 3
List Creation: 02/02/24 12:43 PM

Creator: Dabinett, Ian

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 ampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
OC is filled out in ink and legible.	True	
OC is filled out with all pertinent information.	False	COC not relinquished.
the Field Sampler's name present on COC?	N/A	
nere are no discrepancies between the containers received and the COC.	True	
amples are received within Holding Time (excluding tests with immediate s)	True	
mple containers have legible labels.	True	
ntainers are not broken or leaking.	True	
mple collection date/times are provided.	True	
propriate sample containers are used.	True	
imple bottles are completely filled.	True	
ample Preservation Verified.	True	
nere is sufficient vol. for all requested analyses, incl. any requested S/MSDs	True	
ontainers requiring zero headspace have no headspace or bubble is 6mm (1/4").	N/A	

2/13/2024

Client: Ensolum

Job Number: 890-6042-1 SDG Number: 03C1558299

List Source: Eurofins Midland
List Number: 2
List Creation: 01/30/24 10:34 AM

Creator: Rodriguez, Leticia

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

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<6mm (1/4").

**Environment Testing** 

# **ANALYTICAL REPORT**

## PREPARED FOR

Attn: Ben Belill

Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 2/13/2024 1:30:07 PM

## **JOB DESCRIPTION**

Corral Canyon Expansion Battery 03C1558299

## **JOB NUMBER**

890-6043-1

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 2/13/2024 1:30:07 PM

Authorized for release by Jessica Kramer, Project Manager <u>Jessica.Kramer@et.eurofinsus.com</u> (432)704-5440 Client: Ensolum Project/Site: Corral Canyon Expansion Battery Laboratory Job ID: 890-6043-1 SDG: 03C1558299

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**Qualifier Description** 

## **Definitions/Glossary**

Client: Ensolum Job ID: 890-6043-1 Project/Site: Corral Canyon Expansion Battery SDG: 03C1558299

#### **Qualifiers**

<b>GC VOA</b>
Qualifier

*+	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.

#### **GC Semi VOA**

Qualifier	Qualifier 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**

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

## **Glossary**

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

DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)

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

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

NEG	Negative / Absent
POS	Positive / Present
DOL	Drastical Overtitation

PQL	Practical Quantitation Limit
PQL	Practical Quantitation Limit

PRES	Presumptive
QC	Quality Control

RER Relative Error Ratio (Radiochemistry)	)
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DI.	Demands of Lineth on Demonstrat Lineth	/D = -l: = -l=: -4\
KL	Reporting Limit or Requested Limit	(Radiochemistry)

RPD Relative Percei	t Difference, a measure of the	relative difference between two points
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	· · · · · · · · · · · · · · · · · · ·
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

#### Case Narrative

Client: Ensolum Job ID: 890-6043-1

Project: Corral Canyon Expansion Battery

**Eurofins Carlsbad** Job ID: 890-6043-1

#### Job Narrative 890-6043-1

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
- 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 1/26/2024 3:36 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 4.4°C

#### Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: FS10 (890-6043-1), FS11 (890-6043-2), FS12 (890-6043-3), FS13 (890-6043-4), FS14 (890-6043-5), SW03 (890-6043-6), FS15 (890-6043-7) and SW04 (890-6043-8).

#### **GC VOA**

Method 8021B: Surrogate recovery for the following samples were outside control limits: FS12 (890-6043-3), (CCV 880-72622/2) and (880-38508-A-1-E MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-72418 and analytical batch 880-72622 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: SW04 (890-6043-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The laboratory control sample duplicate (LCSD) for preparation batch 880-72700 and analytical batch 880-72706 recovered outside control limits for the following analytes: Ethylbenzene and m-Xylene & p-Xylene. Since only an acceptable LCS is required per the method, the data has been qualified and reported.

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-72700 and analytical batch 880-72706 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

#### GC Semi VOA

Method 8015MOD\_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 870-17961 and analytical batch 870-17988 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 8015MOD\_NM: Surrogate recovery for the following samples were outside the upper control limit: FS10 (890-6043-1), FS11 (890-6043-2), FS12 (890-6043-3), FS13 (890-6043-4), FS14 (890-6043-5), SW03 (890-6043-6), FS15 (890-6043-7) and SW04 (890-6043-8). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: (890-6043-A-1-I MS) and (890-6043-A-1-J 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.

# **Case Narrative**

Client: Ensolum Job ID: 890-6043-1

Project: Corral Canyon Expansion Battery

Job ID: 890-6043-1 (Continued) Eurofins Carlsbad

#### HPLC/IC

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

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40

**Matrix: Solid** 

Lab Sample ID: 890-6043-1

Client: Ensolum Job ID: 890-6043-1 Project/Site: Corral Canyon Expansion Battery SDG: 03C1558299

**Client Sample ID: FS10** 

Date Collected: 01/26/24 10:00 Date Received: 01/26/24 15:36

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/05/24 16:00	02/08/24 16:05	
Toluene	< 0.00199	U	0.00199	mg/Kg		02/05/24 16:00	02/08/24 16:05	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		02/05/24 16:00	02/08/24 16:05	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398	mg/Kg		02/05/24 16:00	02/08/24 16:05	1
o-Xylene	< 0.00199	U *+	0.00199	mg/Kg		02/05/24 16:00	02/08/24 16:05	1
Xylenes, Total	<0.00398	U *+	0.00398	mg/Kg		02/05/24 16:00	02/08/24 16:05	•
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	92		70 - 130			02/05/24 16:00	02/08/24 16:05	1
1,4-Difluorobenzene (Surr)	77		70 - 130			02/05/24 16:00	02/08/24 16:05	
Method: SW846 8015 NM - Die	esel Range (	Organics (	DRO) (GC)					
Analyte	_	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			02/13/24 01:40	
Method: SW846 8015B NM - D	Diesel Range	Organics	(DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)	<49.9	U	49.9	mg/Kg		01/30/24 14:51	02/13/24 01:40	
Diesel Range Organics (Over C10-C28)	<49.9	U F1	49.9	mg/Kg		01/30/24 14:51	02/13/24 01:40	•
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/30/24 14:51	02/13/24 01:40	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
- T	196	S1+	70 - 130			01/30/24 14:51	02/13/24 01:40	
o-Terphenyl	190	317	10 - 130			01/30/24 14.51	02/13/24 01.40	

**Client Sample ID: FS11** Lab Sample ID: 890-6043-2

RL

4.97

Unit

mg/Kg

Prepared

Analyzed

02/03/24 17:06

**Matrix: Solid** 

Date Collected: 01/26/24 10:05 Date Received: 01/26/24 15:36

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier

175

Sample Depth: 1

Analyte

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/05/24 16:00	02/08/24 16:31	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/05/24 16:00	02/08/24 16:31	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/05/24 16:00	02/08/24 16:31	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398	mg/Kg		02/05/24 16:00	02/08/24 16:31	1
o-Xylene	<0.00199	U *+	0.00199	mg/Kg		02/05/24 16:00	02/08/24 16:31	1
Xylenes, Total	<0.00398	U *+	0.00398	mg/Kg		02/05/24 16:00	02/08/24 16:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130			02/05/24 16:00	02/08/24 16:31	1
1,4-Difluorobenzene (Surr)	86		70 - 130			02/05/24 16:00	02/08/24 16:31	1

**Matrix: Solid** 

Lab Sample ID: 890-6043-2

01/30/24 14:51 02/13/24 02:42

Client: Ensolum Job ID: 890-6043-1
Project/Site: Corral Canyon Expansion Battery SDG: 03C1558299

Client Sample ID: FS11

Date Collected: 01/26/24 10:05 Date Received: 01/26/24 15:36

Date Received: 01/26/24
Sample Depth: 1

- под											
Method: TAL SOP Total BTEX - Total BTEX Calculation											
Analyte	Result Qualifi	er RL	Unit	D	Prepared	Analyzed	Dil Fac				
Total BTEX	<0.00398 U	0.00398	ma/Ka			02/08/24 16:31	1				

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<49.7	U	49.7	mg/Kg			02/13/24 02:42	1	

<49.7	U	49.7	mg/Kg			02/13/24 02:42	1
iesel Range	Organics	s (DRO) (GC)					
Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
<49.7	U	49.7	mg/Kg		01/30/24 14:51	02/13/24 02:42	1
<49.7	U	49.7	mg/Kg		01/30/24 14:51	02/13/24 02:42	1
<49.7	U	49.7	mg/Kg		01/30/24 14:51	02/13/24 02:42	1
%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
177	S1+	70 - 130			01/30/24 14:51	02/13/24 02:42	1
	Result	Color	Diesel Range Organics (DRO) (GC)           Result         Qualifier         RL           <49.7	Diesel Range Organics (DRO) (GC)           Result         Qualifier         RL         Unit           <49.7	Diesel Range Organics (DRO) (GC)           Result         Qualifier         RL         Unit         D           <49.7	Diesel Range Organics (DRO) (GC)           Result         Qualifier         RL         Unit         D         Prepared           <49.7	Diesel Range Organics (DRO) (GC)           Result         Qualifier         RL         Unit         D         Prepared         Analyzed           <49.7

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble								
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	167	4.97	mg/Kg			02/03/24 17:13	1	

70 - 130

Client Sample ID: FS12

Date Collected: 01/26/24 10:15

Lab Sample ID: 890-6043-3

Matrix: Solid

153 S1+

Result Qualifier

<50.0 U

Date Received: 01/26/24 15:36

Gasoline Range Organics (GRO)

Released to Imaging: 5/9/2024 9:15:29 AM

Sample Depth: 1

1-Chlorooctane

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/05/24 16:00	02/08/24 16:58	1
Toluene	< 0.00200	U	0.00200	mg/Kg		02/05/24 16:00	02/08/24 16:58	1
Ethylbenzene	< 0.00200	U	0.00200	mg/Kg		02/05/24 16:00	02/08/24 16:58	1
m-Xylene & p-Xylene	<0.00399	U *+	0.00399	mg/Kg		02/05/24 16:00	02/08/24 16:58	1
o-Xylene	< 0.00200	U *+	0.00200	mg/Kg		02/05/24 16:00	02/08/24 16:58	1
Xylenes, Total	<0.00399	U *+	0.00399	mg/Kg		02/05/24 16:00	02/08/24 16:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	159	S1+	70 - 130			02/05/24 16:00	02/08/24 16:58	1
1,4-Difluorobenzene (Surr)	130		70 - 130			02/05/24 16:00	02/08/24 16:58	1
Method: TAL SOP Total BT	EX - Total BTE	X Calculat	ion					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			02/08/24 16:58	1
Method: SW846 8015 NM -	Diesel Range	Organics (	DRO) (GC)					
Analyte	_	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			02/13/24 03:23	1

**Eurofins Carlsbad** 

Analyzed

RL

50.0

Unit

mg/Kg

Prepared

01/30/24 14:51 02/13/24 03:23

Dil Fac

2

3

5

7

9

11

12

Job ID: 890-6043-1 SDG: 03C1558299

Client: Ensolum Project/Site: Corral Canyon Expansion Battery

Lab Sample ID: 890-6043-3

**Matrix: Solid** 

**Matrix: Solid** 

Date Collected: 01/26/24 10:15 Date Received: 01/26/24 15:36

**Client Sample ID: FS12** 

Sample Depth: 1

Method: SW846 8015B NM - D	Diesel Range	<b>Organics</b>	(DRO) (GC)	(Continued)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg	_	01/30/24 14:51	02/13/24 03:23	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/30/24 14:51	02/13/24 03:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
o-Terphenyl	178	S1+	70 - 130			01/30/24 14:51	02/13/24 03:23	1
1-Chlorooctane	153	S1+	70 - 130			01/30/24 14:51	02/13/24 03:23	1
Method: EPA 300.0 - Anions,	lon Chroma	tography -	- Soluble					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

5.02 02/03/24 17:20 Chloride 183 mg/Kg **Client Sample ID: FS13** Lab Sample ID: 890-6043-4

Date Collected: 01/26/24 10:20

Date Received: 01/26/24 15:36

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

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/09/24 08:20	02/09/24 11:30	1
Toluene	< 0.00199	U	0.00199	mg/Kg		02/09/24 08:20	02/09/24 11:30	1
Ethylbenzene	< 0.00199	U *+ F1	0.00199	mg/Kg		02/09/24 08:20	02/09/24 11:30	1
m-Xylene & p-Xylene	<0.00398	U *+ F1	0.00398	mg/Kg		02/09/24 08:20	02/09/24 11:30	1
o-Xylene	< 0.00199	U F1	0.00199	mg/Kg		02/09/24 08:20	02/09/24 11:30	1
Xylenes, Total	<0.00398	U *+ F1	0.00398	mg/Kg		02/09/24 08:20	02/09/24 11:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130			02/09/24 08:20	02/09/24 11:30	1
1,4-Difluorobenzene (Surr)	79		70 - 130			02/09/24 08:20	02/09/24 11:30	1
Method: TAL SOP Total BTEX	- Total BTE	X Calculat	ion					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/09/24 11:30	1
: Method: SW846 8015 NM - Die	seal Pange (	Organice (	DPO) (GC)					
	raei italiye i							
Analyte	Result	•	, , ,	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Total TPH	Result <50.3	Qualifier	RL 50.3	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 02/13/24 03:43	Dil Fac
Total TPH	<50.3	Qualifier U	<b>RL</b> 50.3		<u>D</u>	Prepared		
	<50.3	Qualifier U	<b>RL</b> 50.3		<u>D</u> 	Prepared Prepared		
Total TPH  Method: SW846 8015B NM - D	<50.3	Qualifier U Organics Qualifier	RL 50.3	mg/Kg			02/13/24 03:43	1
Total TPH  Method: SW846 8015B NM - DANAINTE  Gasoline Range Organics (GRO)  Diesel Range Organics (Over	<50.3 Diesel Range Result	Qualifier U  Organics Qualifier U	70.3 (DRO) (GC) RL	mg/Kg Unit		Prepared	02/13/24 03:43  Analyzed	1
Total TPH  Method: SW846 8015B NM - DAnalyte  Gasoline Range Organics (GRO)	<50.3  Piesel Range Result <50.3	Qualifier U  Organics Qualifier U  U	RL 50.3 (DRO) (GC) RL 50.3	mg/Kg  Unit mg/Kg		Prepared 01/30/24 14:51	02/13/24 03:43  Analyzed 02/13/24 03:43 02/13/24 03:43	Dil Fac
Total TPH  Method: SW846 8015B NM - DANAINTE  Gasoline Range Organics (GRO)  Diesel Range Organics (Over C10-C28)	<50.3  Diesel Range Result <50.3 <50.3	Qualifier U  Organics Qualifier U  U	RL 50.3 (DRO) (GC) RL 50.3 50.3	mg/Kg  Unit  mg/Kg  mg/Kg		Prepared 01/30/24 14:51 01/30/24 14:51	02/13/24 03:43  Analyzed 02/13/24 03:43 02/13/24 03:43	1 Dil Fac 1
Method: SW846 8015B NM - DANAINTE GASOLINE Range Organics (GRO) Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<50.3  Piesel Range Result <50.3 <50.3 <50.3	Qualifier U  Organics Qualifier U  U	RL 50.3 (DRO) (GC) RL 50.3 50.3 50.3	mg/Kg  Unit  mg/Kg  mg/Kg		Prepared 01/30/24 14:51 01/30/24 14:51 01/30/24 14:51	Analyzed 02/13/24 03:43  02/13/24 03:43 02/13/24 03:43 02/13/24 03:43	1 Dil Fac 1 1

Job ID: 890-6043-1

Client: Ensolum Project/Site: Corral Canyon Expansion Battery

SDG: 03C1558299

Lab Sample ID: 890-6043-4

Matrix: Solid

Date Collected: 01/26/24 10:20 Date Received: 01/26/24 15:36

**Client Sample ID: FS13** 

Sample Depth: 1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	185		5.03	mg/Kg			02/03/24 17:27	1	

Client Sample ID: FS14

Lab Sample ID: 890-6043-5

Matrix: Solid

Date Collected: 01/26/24 10:25 Date Received: 01/26/24 15:36

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		02/09/24 08:20	02/09/24 11:50	1
Toluene	<0.00198	U	0.00198	mg/Kg		02/09/24 08:20	02/09/24 11:50	1
Ethylbenzene	<0.00198	U *+	0.00198	mg/Kg		02/09/24 08:20	02/09/24 11:50	1
m-Xylene & p-Xylene	<0.00396	U *+	0.00396	mg/Kg		02/09/24 08:20	02/09/24 11:50	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		02/09/24 08:20	02/09/24 11:50	1
Xylenes, Total	<0.00396	U *+	0.00396	mg/Kg		02/09/24 08:20	02/09/24 11:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130			02/09/24 08:20	02/09/24 11:50	1
1,4-Difluorobenzene (Surr)	81		70 - 130			02/09/24 08:20	02/09/24 11:50	1

Method: IAL SOP Total BTEX -	- Iotal B I E.	X Calculat	ion					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			02/09/24 11:50	1

Method: SW846 8015 NM - Dies	el Range (	Organics (D	RO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2	mg/Kg			02/13/24 04:04	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<50.2	U	50.2	mg/Kg		01/30/24 14:51	02/13/24 04:04	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2	mg/Kg		01/30/24 14:51	02/13/24 04:04	1
Oll Range Organics (Over C28-C36)	<50.2	U	50.2	mg/Kg		01/30/24 14:51	02/13/24 04:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	185	S1+	70 - 130	01/30/24 14:51	02/13/24 04:04	1
1-Chlorooctane	160	S1+	70 - 130	01/30/24 14:51	02/13/24 04:04	1

Method: EPA 300.0 - Anions, Id	on Chromatograph	y - Soluble					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	180	4.98	mg/Kg			02/03/24 17:47	1

Client Sample ID: SW03

Date Collected: 01/26/24 10:30

Lab Sample ID: 890-6043-6

Matrix: Solid

Date Collected: 01/26/24 10:30 Date Received: 01/26/24 15:36

Sample Depth: 0-1

Method: SW846 8021B - Volati	le Organic	Compound	ds (GC)				
Analyte	Result	Qualifier	RL	Unit D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg	02/09/24 08:20	02/09/24 12:11	1

Date Received: 01/26/24 15:36

Job ID: 890-6043-1 SDG: 03C1558299

Project/Site: Corral Canyon Expansion Battery

**Client Sample ID: SW03** Lab Sample ID: 890-6043-6 Date Collected: 01/26/24 10:30

**Matrix: Solid** 

Sample Depth: 0-1

Client: Ensolum

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00202	U	0.00202	mg/Kg		02/09/24 08:20	02/09/24 12:11	1
Ethylbenzene	<0.00202	U *+	0.00202	mg/Kg		02/09/24 08:20	02/09/24 12:11	1
m-Xylene & p-Xylene	<0.00404	U *+	0.00404	mg/Kg		02/09/24 08:20	02/09/24 12:11	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		02/09/24 08:20	02/09/24 12:11	1
Xylenes, Total	<0.00404	U *+	0.00404	mg/Kg		02/09/24 08:20	02/09/24 12:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130			02/09/24 08:20	02/09/24 12:11	1
1,4-Difluorobenzene (Surr)	79		70 - 130			02/09/24 08:20	02/09/24 12:11	1
Method: TAL SOP Total BTE	X - Total BTE	X Calculat	ion					
		X Calculat Qualifier	ion RL	Unit	D	Prepared	Analyzed	Dil Fac
Method: TAL SOP Total BTE Analyte Total BTEX		Qualifier		<mark>Unit</mark> mg/Kg	<u>D</u>	Prepared	Analyzed 02/09/24 12:11	Dil Fac
Analyte	<0.00404	Qualifier U	RL 0.00404		<u>D</u>	Prepared		Dil Fac
Analyte Total BTEX	Result <0.00404	Qualifier U	RL 0.00404		<u>D</u>	Prepared Prepared		1
Analyte Total BTEX  Method: SW846 8015 NM - D	Result <0.00404	Qualifier U Organics ( Qualifier	RL 0.00404 DRO) (GC)	mg/Kg	_ =		02/09/24 12:11	1
Analyte Total BTEX Method: SW846 8015 NM - D Analyte	Result   <0.00404	Qualifier U  Organics ( Qualifier U	RL 0.00404 DRO) (GC) RL 50.4	mg/Kg	_ =		02/09/24 12:11  Analyzed	1
Analyte Total BTEX  Method: SW846 8015 NM - E Analyte Total TPH  Method: SW846 8015B NM -	Result <0.00404  Diesel Range (Result <50.4  Diesel Range	Qualifier U  Organics ( Qualifier U	RL 0.00404 DRO) (GC) RL 50.4	mg/Kg	_ =		02/09/24 12:11  Analyzed	Dil Fac
Analyte Total BTEX  Method: SW846 8015 NM - DANALYTE  Total TPH	Result <0.00404  Diesel Range (Result <50.4  Diesel Range	Qualifier U Organics ( Qualifier U Organics Qualifier U	RL 0.00404 DRO) (GC) RL 50.4 (DRO) (GC)	mg/Kg  Unit mg/Kg	<u></u>	Prepared	02/09/24 12:11  Analyzed 02/13/24 04:25	Dil Fac  Dil Fac  Dil Fac  1

Oll Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg	01/30/24 14:51	02/13/24 04:25	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
o-Terphenyl	199	S1+	70 - 130		01/30/24 14:51	02/13/24 04:25	1
1-Chlorooctane	172	S1+	70 - 130		01/30/24 14:51	02/13/24 04:25	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier Analyte RL Unit D Prepared Analyzed Dil Fac 02/03/24 17:54 **Chloride** 194 4.99 mg/Kg

**Client Sample ID: FS15** Lab Sample ID: 890-6043-7 Date Collected: 01/26/24 12:35 **Matrix: Solid** 

Sample Depth: 4

Date Received: 01/26/24 15:36

C10-C28)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		02/09/24 08:20	02/09/24 12:32	1
Toluene	<0.00201	U	0.00201	mg/Kg		02/09/24 08:20	02/09/24 12:32	1
Ethylbenzene	<0.00201	U *+	0.00201	mg/Kg		02/09/24 08:20	02/09/24 12:32	1
m-Xylene & p-Xylene	<0.00402	U *+	0.00402	mg/Kg		02/09/24 08:20	02/09/24 12:32	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		02/09/24 08:20	02/09/24 12:32	1
Xylenes, Total	<0.00402	U *+	0.00402	mg/Kg		02/09/24 08:20	02/09/24 12:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130			02/09/24 08:20	02/09/24 12:32	1
1,4-Difluorobenzene (Surr)	80		70 - 130			02/09/24 08:20	02/09/24 12:32	1

Client: Ensolum Job ID: 890-6043-1
Project/Site: Corral Canyon Expansion Battery SDG: 03C1558299

Client Sample ID: FS15

Date Collected: 01/26/24 12:35 Date Received: 01/26/24 15:36

Sample Depth: 4

Lab Sample ID: 890-6043-7

. Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			02/09/24 12:32	1
Method: SW846 8015 NM - Die	esel Range (	Organics (	DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5	mg/Kg			02/13/24 04:45	1
Method: SW846 8015B NM - D	iesel Range	Organics	(DRO) (GC)					
Analyte	_	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<50.5	U	50.5	mg/Kg		01/30/24 14:51	02/13/24 04:45	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5	mg/Kg		01/30/24 14:51	02/13/24 04:45	1
Oll Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		01/30/24 14:51	02/13/24 04:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
o-Terphenyl	208	S1+	70 - 130			01/30/24 14:51	02/13/24 04:45	1
1-Chlorooctane	181	S1+	70 - 130			01/30/24 14:51	02/13/24 04:45	1
Method: EPA 300.0 - Anions,	on Chroma	tography -	Soluble					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	267		5.04	mg/Kg		<del></del>	02/03/24 18:14	

Client Sample ID: SW04

Date Collected: 01/26/24 12:40

Lab Sample ID: 890-6043-8

Matrix: Solid

Date Received: 01/26/24 15:36

Sample Depth: 0-4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		02/09/24 08:20	02/09/24 12:52	1
Toluene	<0.00202	U	0.00202	mg/Kg		02/09/24 08:20	02/09/24 12:52	1
Ethylbenzene	<0.00202	U *+	0.00202	mg/Kg		02/09/24 08:20	02/09/24 12:52	1
m-Xylene & p-Xylene	<0.00403	U *+	0.00403	mg/Kg		02/09/24 08:20	02/09/24 12:52	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		02/09/24 08:20	02/09/24 12:52	1
Xylenes, Total	<0.00403	U *+	0.00403	mg/Kg		02/09/24 08:20	02/09/24 12:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130			02/09/24 08:20	02/09/24 12:52	1
4 4 5 7 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	0.5	0.4	70 400			00/00/04 00:00	02/09/24 12:52	1
1,4-Difluorobenzene (Surr)	65	S1-	70 - 130			02/09/24 08:20	02/09/24 12.52	,
1,4-Difluorobenzene (Surr)  Method: TAL SOP Total BT						02/09/24 08:20	02/09/24 12.52	,
· · · ·	EX - Total BTE			Unit	D	02/09/24 08:20 Prepared	Analyzed	Dil Fac
Method: TAL SOP Total BT	EX - Total BTE	X Calculat Qualifier	ion	Unit mg/Kg	<u>D</u>			Dil Fac
Method: TAL SOP Total BT Analyte	EX - Total BTE Result <0.00403	X Calculat Qualifier	ion RL 0.00403		<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BT Analyte Total BTEX	EX - Total BTE Result <0.00403  Diesel Range 0	X Calculat Qualifier	ion RL 0.00403		<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BT Analyte Total BTEX Method: SW846 8015 NM -	EX - Total BTE Result <0.00403  Diesel Range 0	X Calculat Qualifier U  Organics ( Qualifier	ion RL 0.00403	mg/Kg	_ =	Prepared	Analyzed 02/09/24 12:52	1
Method: TAL SOP Total BT Analyte Total BTEX  Method: SW846 8015 NM - Analyte Total TPH	EX - Total BTE Result <0.00403  Diesel Range Result <50.0	X Calculate Qualifier U  Organics ( Qualifier U	DRO) (GC) RL 50.00	mg/Kg	_ =	Prepared	Analyzed 02/09/24 12:52 Analyzed	1
Method: TAL SOP Total BT Analyte Total BTEX  Method: SW846 8015 NM - Analyte	EX - Total BTE Result <a href="#">Result</a> <0.00403 Diesel Range <a href="#">Result</a> <50.0 - Diesel Range	X Calculate Qualifier U  Organics ( Qualifier U	DRO) (GC) RL 50.00	mg/Kg	_ =	Prepared	Analyzed 02/09/24 12:52 Analyzed	1

# **Client Sample Results**

Client: Ensolum Job ID: 890-6043-1 Project/Site: Corral Canyon Expansion Battery SDG: 03C1558299

Da Date Received: 01/26/24 15:36

Sample Depth: 0-4

Client Sample ID: SW04	Lab Sample ID: 890-6043-8
Oate Collected: 01/26/24 12:40	Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued) Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac <50.0 U 50.0 01/30/24 14:51 02/13/24 05:05 Diesel Range Organics (Over mg/Kg C10-C28) Oll Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 01/30/24 14:51 02/13/24 05:05 %Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac o-Terphenyl 197 S1+ 70 - 130 01/30/24 14:51 02/13/24 05:05 1-Chlorooctane 170 S1+ 70 - 130 01/30/24 14:51 02/13/24 05:05 Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Dil Fac Analyte Result Qualifier RL Unit D Prepared Analyzed Chloride 5.02 mg/Kg 02/03/24 18:21 322

# **Surrogate Summary**

Client: Ensolum Job ID: 890-6043-1 Project/Site: Corral Canyon Expansion Battery SDG: 03C1558299

Method: 8021B - Volatile Organic Compounds (GC)

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

		BFB1	DFBZ1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
80-38508-A-1-D MS	Matrix Spike	105	103	
80-38508-A-1-E MSD	Matrix Spike Duplicate	177 S1+	103	
90-6043-1	FS10	92	77	
90-6043-2	FS11	129	86	
90-6043-3	FS12	159 S1+	130	
90-6043-4	FS13	77	79	
90-6043-4 MS	FS13	116	96	
90-6043-4 MSD	FS13	115	94	
90-6043-5	FS14	83	81	
90-6043-6	SW03	81	79	
90-6043-7	FS15	83	80	
90-6043-8	SW04	81	65 S1-	
CS 880-72418/1-A	Lab Control Sample	116	73	
CS 880-72700/1-A	Lab Control Sample	119	94	
CSD 880-72418/2-A	Lab Control Sample Dup	126	81	
CSD 880-72700/2-A	Lab Control Sample Dup	121	91	
IB 880-72418/5-A	Method Blank	89	122	
B 880-72700/5-A	Method Blank	73	78	

DFBZ = 1,4-Difluorobenzene (Surr)

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

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

			Percent Surrogate Recovery (Acceptance Lin	nits)
		OTPH1	1CO1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-6043-1	FS10	196 S1+	168 S1+	
890-6043-1 MS	FS10	157 S1+	154 S1+	
890-6043-1 MSD	FS10	158 S1+	157 S1+	
890-6043-2	FS11	177 S1+	153 S1+	
890-6043-3	FS12	178 S1+	153 S1+	
890-6043-4	FS13	198 S1+	172 S1+	
890-6043-5	FS14	185 S1+	160 S1+	
890-6043-6	SW03	199 S1+	172 S1+	
890-6043-7	FS15	208 S1+	181 S1+	
890-6043-8	SW04	197 S1+	170 S1+	

Surrogate Legend

OTPH = o-Terphenyl

1CO = 1-Chlorooctane

Client: Ensolum Job ID: 890-6043-1 Project/Site: Corral Canyon Expansion Battery SDG: 03C1558299

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

Lab Sample ID: MB 880-72418/5-A

**Matrix: Solid** 

**Analysis Batch: 72622** 

**Client Sample ID: Method Blank** 

**Prep Type: Total/NA** 

Prep Batch: 72418

	MB	MR						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/05/24 16:00	02/08/24 13:26	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/05/24 16:00	02/08/24 13:26	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/05/24 16:00	02/08/24 13:26	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/05/24 16:00	02/08/24 13:26	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/05/24 16:00	02/08/24 13:26	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/05/24 16:00	02/08/24 13:26	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89	70 - 130	02/05/24 16:00	02/08/24 13:26	1
1,4-Difluorobenzene (Surr)	122	70 - 130	02/05/24 16:00	02/08/24 13:26	1

Lab Sample ID: LCS 880-72418/1-A

Matrix: Solid

**Analysis Batch: 72622** 

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

Prep Batch: 72418

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08382		mg/Kg		84	70 - 130	
Toluene	0.100	0.09013		mg/Kg		90	70 - 130	
Ethylbenzene	0.100	0.09669		mg/Kg		97	70 - 130	
m-Xylene & p-Xylene	0.200	0.2167		mg/Kg		108	70 - 130	
o-Xylene	0.100	0.1044		mg/Kg		104	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	73		70 - 130

Lab Sample ID: LCSD 880-72418/2-A

**Matrix: Solid** 

**Analysis Batch: 72622** 

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

Prep Batch: 72418

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08616		mg/Kg		86	70 - 130	3	35
Toluene	0.100	0.1093		mg/Kg		109	70 - 130	19	35
Ethylbenzene	0.100	0.09912		mg/Kg		99	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2337		mg/Kg		117	70 - 130	8	35
o-Xylene	0.100	0.1196		mg/Kg		120	70 - 130	14	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	126		70 - 130
1,4-Difluorobenzene (Surr)	81		70 - 130

Lab Sample ID: 880-38508-A-1-D MS

**Matrix: Solid** 

**Analysis Batch: 72622** 

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

Prep Batch: 72418

-	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U F2 F1	0.0996	0.03697	F1	mg/Kg		37	70 - 130	
Toluene	<0.00200	U F2 F1	0.0996	0.03544	F1	mg/Kg		36	70 - 130	

Client: Ensolum Job ID: 890-6043-1 Project/Site: Corral Canyon Expansion Battery SDG: 03C1558299

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

Lab Sample ID: 880-38508-A-1-D MS Client Sample ID: Matrix Spike

**Matrix: Solid** 

**Analysis Batch: 72622** 

Prep Type: Total/NA

Prep Batch: 72418

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00200	U F2 F1	0.0996	0.03080	F1	mg/Kg		31	70 - 130	
m-Xylene & p-Xylene	<0.00401	U F2 F1 * +	0.199	0.05892	F1	mg/Kg		30	70 - 130	
o-Xylene	<0.00200	U F2 F1 *	0.0996	0.04415	F1	mg/Kg		44	70 - 130	

MS MS

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

Lab Sample ID: 880-38508-A-1-E MSD **Client Sample ID: Matrix Spike Duplicate** 

**Matrix: Solid** 

**Analysis Batch: 72622** 

Prep Type: Total/NA

Prep Batch: 72418

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Benzene <0.00200 U F2 F1 0.0990 0.1059 F2 mg/Kg 107 70 - 130 97 Toluene 0.0990 0.09447 F2 70 - 130 <0.00200 U F2 F1 mg/Kg 95 91 mg/Kg Ethylbenzene 0.0990 0.1057 F2 70 - 130 <0.00200 U F2 F1 107 110

<0.00401 U F2 F1 \* m-Xylene & p-Xylene 0.198 0.2435 F2 mg/Kg 123 70 - 130 122 35 <0.00200 U F2 F1 \* 0.0990 0.1149 F2 89 o-Xylene mg/Kg 116 70 - 130 35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	177	S1+	70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: MB 880-72700/5-A **Client Sample ID: Method Blank Matrix: Solid** Prep Type: Total/NA

**Analysis Batch: 72706** Prep Batch: 72700 MB MB

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/09/24 08:20	02/09/24 11:08	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/09/24 08:20	02/09/24 11:08	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/09/24 08:20	02/09/24 11:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/09/24 08:20	02/09/24 11:08	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/09/24 08:20	02/09/24 11:08	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/09/24 08:20	02/09/24 11:08	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		70 - 130	02/09/24 08:20	02/09/24 11:08	1
1,4-Difluorobenzene (Surr)	78		70 - 130	02/09/24 08:20	02/09/24 11:08	1

Lab Sample ID: LCS 880-72700/1-A

**Matrix: Solid** 

Prep Type: Total/NA **Analysis Batch: 72706** Prep Batch: 72700 Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1059 70 - 130 mg/Kg 106

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**Client Sample ID: Lab Control Sample** 

35

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Client: Ensolum Job ID: 890-6043-1 Project/Site: Corral Canyon Expansion Battery SDG: 03C1558299

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

Lab Sample ID: LCS 880-72700/1-A

**Matrix: Solid** 

**Analysis Batch: 72706** 

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA Prep Batch: 72700

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Toluene 0 100 0.1098 mg/Kg 110 70 - 130 0.100 Ethylbenzene 0.1224 mg/Kg 122 70 - 1300.200 0.2501 mg/Kg 125 70 - 130 m-Xylene & p-Xylene 0.100 o-Xylene 0.1194 mg/Kg 119 70 - 130

LCS LCS

Surrogate	%Recovery Qual	lifier Limits
4-Bromofluorobenzene (Surr)	119	70 - 130
1,4-Difluorobenzene (Surr)	94	70 - 130

Lab Sample ID: LCSD 880-72700/2-A

**Matrix: Solid** 

**Analysis Batch: 72706** 

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

Prep Type: Total/NA

Prep Batch: 72700 %Rec **RPD** 

Spike LCSD LCSD Added Result Qualifier RPD Limit Analyte Unit Limits D %Rec Benzene 0.100 0.1098 110 70 - 130 4 35 mg/Kg 0.100 Toluene 0.1194 mg/Kg 119 70 - 130 8 35 Ethylbenzene 0.100 0.1366 \*+ mg/Kg 137 70 - 130 35 11 m-Xylene & p-Xylene 0.200 0.2705 \*+ 135 70 - 130 35 mg/Kg 8 o-Xylene 0.100 0.1290 mg/Kg 129 70 - 130 35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	121		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: 890-6043-4 MS

**Matrix: Solid** 

**Analysis Batch: 72706** 

Client Sample ID: FS13 Prep Type: Total/NA

Prep Batch: 72700

Spike MS MS %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Benzene <0.00199 U 0.100 0.1047 mg/Kg 105 70 - 130 Toluene <0.00199 U 0.100 0.1112 mg/Kg 111 70 - 130 Ethylbenzene <0.00199 U\*+F1 0.100 0.1270 mg/Kg 127 70 - 130 m-Xylene & p-Xylene <0.00398 U\*+F1 0.200 0.2580 129 70 - 130 mg/Kg o-Xylene <0.00199 UF1 0.100 0.1255 125 70 - 130 mg/Kg

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	116	70 - 130
1,4-Difluorobenzene (Surr)	96	70 - 130

Lab Sample ID: 890-6043-4 MSD

**Matrix: Solid** 

**Analysis Batch: 72706** 

Client Sample ID: FS13 Prep Type: Total/NA

Prep Batch: 72700

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U	0.101	0.1048		mg/Kg		104	70 - 130	0	35
Toluene	<0.00199	U	0.101	0.1174		mg/Kg		117	70 - 130	5	35
Ethylbenzene	<0.00199	U *+ F1	0.101	0.1360	F1	mg/Kg		135	70 - 130	7	35
m-Xylene & p-Xylene	<0.00398	U *+ F1	0.201	0.2721	F1	mg/Kg		135	70 - 130	5	35

Client: Ensolum Job ID: 890-6043-1
Project/Site: Corral Canyon Expansion Battery SDG: 03C1558299

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

Lab Sample ID: 890-6043-4 MSD

Matrix: Solid

Analysis Batch: 72706

Sample Sample Spike MSD MSD

Client Sample ID: FS13
Prep Type: Total/NA
Prep Batch: 72700

Rec RPD

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
o-Xylene	<0.00199	U F1	0.101	0.1321	F1	mg/Kg		131	70 - 130	5	35

 Surrogate
 %Recovery 4-Bromofluorobenzene (Surr)
 MSD (Qualifier)
 Limits

 1,4-Difluorobenzene (Surr)
 94
 70 - 130

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

Lab Sample ID: 890-6043-1 MS

Matrix: Solid

Client Sample ID: FS10

Prep Type: Total/NA

Analysis Batch: 17988 Prep Batch: 17961

MS MS Sample Sample Spike %Rec Result Qualifier Analyte Added Result Qualifier Unit %Rec Limits <49.9 U Gasoline Range Organics (GRO) 1030 1084 mg/Kg 106 70 - 130 Diesel Range Organics (Over <49.9 U F1 1020 1658 F1 mg/Kg 160 70 - 130 C10-C28)

 Surrogate
 %Recovery
 Qualifier
 Limits

 o-Terphenyl
 157
 S1+
 70 - 130

 1-Chlorooctane
 154
 S1+
 70 - 130

Lab Sample ID: 890-6043-1 MSD

Matrix: Solid

Client Sample ID: FS10

Prep Type: Total/NA

Matrix: Solid Prep Type: Total/NA
Analysis Batch: 17988 Prep Batch: 17961

MSD MSD %Rec **RPD** Sample Sample Spike Result Qualifier Unit %Rec Limits RPD Limit Analyte Added Result Qualifier 20 Gasoline Range Organics (GRO) <49.9 U 1030 1151 112 70 - 130 6 mg/Kg Diesel Range Organics (Over <49.9 UF1 1020 1675 F1 mg/Kg 161 70 - 130 20 C10-C28)

 Surrogate
 %Recovery 0.7 Erphenyl
 Qualifier 158 S1+
 Limits 70 - 130 T0 - 130

 1-Chlorocotane
 157 S1+
 70 - 130 T0 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-71956/1-A Client Sample ID: Method Blank

Matrix: Solid
Analysis Batch: 72172
Prep Type: Soluble

MB MB

 Analyte
 Result
 Qualifier
 RL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 Chloride
 <5.00</td>
 U
 5.00
 mg/Kg
 02/03/24 15:31
 1

Lab Sample ID: LCS 880-71956/2-A

Client Sample ID: Lab Control Sample
Matrix: Solid

Prep Type: Soluble

Analysis Batch: 72172

Spike LCS LCS %Rec

 Analyte
 Added Chloride
 Result 250
 Qualifier 273.0
 Unit mg/Kg
 D %Rec Limits 109
 Limits 20 - 110

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Lab Sample ID: LCSD 880-71956/3-A

# **QC Sample Results**

Client: Ensolum Job ID: 890-6043-1 Project/Site: Corral Canyon Expansion Battery SDG: 03C1558299

Method: 300.0 - Anions, Ion Chromatography (Continued)

Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Soluble Analysis Batch: 72172

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit Chloride 250 266.7 mg/Kg 107 90 - 110 2 20

Lab Sample ID: 890-6043-4 MS

Client Sample ID: FS13

Matrix: Solid

Prep Type: Soluble

Matrix: Solid Prep Type: Soluble Analysis Batch: 72172

Sample Sample Spike MS MS %Rec **Analyte Result Qualifier** Added Result Qualifier Unit D %Rec Limits Chloride 185 252 90 - 110 456.6 mg/Kg 108

Lab Sample ID: 890-6043-4 MSD

Client Sample ID: FS13

Matrix: Solid
Analysis Batch: 72172

Prep Type: Soluble

Sample Sample Spike MSD MSD %Rec RPD

Analyte Result Qualifier Added Result Qualifier Limits RPD Limit Unit %Rec Chloride 185 252 454.7 107 90 - 110 20 mg/Kg

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# **QC Association Summary**

Client: Ensolum Job ID: 890-6043-1
Project/Site: Corral Canyon Expansion Battery SDG: 03C1558299

# **GC VOA**

# Prep Batch: 72418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6043-1	FS10	Total/NA	Solid	5035	
890-6043-2	FS11	Total/NA	Solid	5035	
890-6043-3	FS12	Total/NA	Solid	5035	
MB 880-72418/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-72418/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-72418/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-38508-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
880-38508-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

# **Analysis Batch: 72622**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6043-1	FS10	Total/NA	Solid	8021B	72418
890-6043-2	FS11	Total/NA	Solid	8021B	72418
890-6043-3	FS12	Total/NA	Solid	8021B	72418
MB 880-72418/5-A	Method Blank	Total/NA	Solid	8021B	72418
LCS 880-72418/1-A	Lab Control Sample	Total/NA	Solid	8021B	72418
LCSD 880-72418/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	72418
880-38508-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	72418
880-38508-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	72418

#### Prep Batch: 72700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6043-4	FS13	Total/NA	Solid	5035	
890-6043-5	FS14	Total/NA	Solid	5035	
890-6043-6	SW03	Total/NA	Solid	5035	
890-6043-7	FS15	Total/NA	Solid	5035	
890-6043-8	SW04	Total/NA	Solid	5035	
MB 880-72700/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-72700/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-72700/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-6043-4 MS	FS13	Total/NA	Solid	5035	
890-6043-4 MSD	FS13	Total/NA	Solid	5035	

# **Analysis Batch: 72706**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6043-4	FS13	Total/NA	Solid	8021B	72700
890-6043-5	FS14	Total/NA	Solid	8021B	72700
890-6043-6	SW03	Total/NA	Solid	8021B	72700
890-6043-7	FS15	Total/NA	Solid	8021B	72700
890-6043-8	SW04	Total/NA	Solid	8021B	72700
MB 880-72700/5-A	Method Blank	Total/NA	Solid	8021B	72700
LCS 880-72700/1-A	Lab Control Sample	Total/NA	Solid	8021B	72700
LCSD 880-72700/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	72700
890-6043-4 MS	FS13	Total/NA	Solid	8021B	72700
890-6043-4 MSD	FS13	Total/NA	Solid	8021B	72700

# **Analysis Batch: 72741**

<b>Lab Sample ID</b> 890-6043-1	Client Sample ID FS10	Prep Type Total/NA	Matrix Solid	Method Total BTEX	Prep Batch
890-6043-2	FS11	Total/NA	Solid	Total BTEX	
890-6043-3	FS12	Total/NA	Solid	Total BTEX	

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# **QC Association Summary**

Client: Ensolum
Project/Site: Corral Canyon Expansion Battery
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Job ID: 890-6043-1 SDG: 03C1558299

# **GC VOA (Continued)**

# **Analysis Batch: 72741 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6043-4	FS13	Total/NA	Solid	Total BTEX	
890-6043-5	FS14	Total/NA	Solid	Total BTEX	
890-6043-6	SW03	Total/NA	Solid	Total BTEX	
890-6043-7	FS15	Total/NA	Solid	Total BTEX	
890-6043-8	SW04	Total/NA	Solid	Total BTEX	

#### **GC Semi VOA**

#### Prep Batch: 17961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6043-1	FS10	Total/NA	Solid	8015NM Prep	
890-6043-2	FS11	Total/NA	Solid	8015NM Prep	
890-6043-3	FS12	Total/NA	Solid	8015NM Prep	
890-6043-4	FS13	Total/NA	Solid	8015NM Prep	
890-6043-5	FS14	Total/NA	Solid	8015NM Prep	
890-6043-6	SW03	Total/NA	Solid	8015NM Prep	
890-6043-7	FS15	Total/NA	Solid	8015NM Prep	
890-6043-8	SW04	Total/NA	Solid	8015NM Prep	
890-6043-1 MS	FS10	Total/NA	Solid	8015NM Prep	
890-6043-1 MSD	FS10	Total/NA	Solid	8015NM Prep	

#### **Analysis Batch: 17988**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6043-1	FS10	Total/NA	Solid	8015B NM	17961
890-6043-2	FS11	Total/NA	Solid	8015B NM	17961
890-6043-3	FS12	Total/NA	Solid	8015B NM	17961
890-6043-4	FS13	Total/NA	Solid	8015B NM	17961
890-6043-5	FS14	Total/NA	Solid	8015B NM	17961
890-6043-6	SW03	Total/NA	Solid	8015B NM	17961
890-6043-7	FS15	Total/NA	Solid	8015B NM	17961
890-6043-8	SW04	Total/NA	Solid	8015B NM	17961
890-6043-1 MS	FS10	Total/NA	Solid	8015B NM	17961
890-6043-1 MSD	FS10	Total/NA	Solid	8015B NM	17961

#### **Analysis Batch: 18039**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6043-1	FS10	Total/NA	Solid	8015 NM	
890-6043-2	FS11	Total/NA	Solid	8015 NM	
890-6043-3	FS12	Total/NA	Solid	8015 NM	
890-6043-4	FS13	Total/NA	Solid	8015 NM	
890-6043-5	FS14	Total/NA	Solid	8015 NM	
890-6043-6	SW03	Total/NA	Solid	8015 NM	
890-6043-7	FS15	Total/NA	Solid	8015 NM	
890-6043-8	SW04	Total/NA	Solid	8015 NM	

# **HPLC/IC**

#### Leach Batch: 71956

<b>Lab Sample ID</b> 890-6043-1	Client Sample ID FS10	Prep Type Soluble	Matrix Solid	Method DI Leach	Prep Batch
890-6043-2	FS11	Soluble	Solid	DI Leach	
890-6043-3	FS12	Soluble	Solid	DI Leach	

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# **QC Association Summary**

Client: Ensolum Project/Site: Corral Canyon Expansion Battery Job ID: 890-6043-1 SDG: 03C1558299

# **HPLC/IC (Continued)**

# Leach Batch: 71956 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6043-4	FS13	Soluble	Solid	DI Leach	
890-6043-5	FS14	Soluble	Solid	DI Leach	
890-6043-6	SW03	Soluble	Solid	DI Leach	
890-6043-7	FS15	Soluble	Solid	DI Leach	
890-6043-8	SW04	Soluble	Solid	DI Leach	
MB 880-71956/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-71956/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-71956/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-6043-4 MS	FS13	Soluble	Solid	DI Leach	
890-6043-4 MSD	FS13	Soluble	Solid	DI Leach	

# **Analysis Batch: 72172**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6043-1	FS10	Soluble	Solid	300.0	71956
890-6043-2	FS11	Soluble	Solid	300.0	71956
890-6043-3	FS12	Soluble	Solid	300.0	71956
890-6043-4	FS13	Soluble	Solid	300.0	71956
890-6043-5	FS14	Soluble	Solid	300.0	71956
890-6043-6	SW03	Soluble	Solid	300.0	71956
890-6043-7	FS15	Soluble	Solid	300.0	71956
890-6043-8	SW04	Soluble	Solid	300.0	71956
MB 880-71956/1-A	Method Blank	Soluble	Solid	300.0	71956
LCS 880-71956/2-A	Lab Control Sample	Soluble	Solid	300.0	71956
LCSD 880-71956/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	71956
890-6043-4 MS	FS13	Soluble	Solid	300.0	71956
890-6043-4 MSD	FS13	Soluble	Solid	300.0	71956

Job ID: 890-6043-1 SDG: 03C1558299

**Client Sample ID: FS10** 

Client: Ensolum

Date Collected: 01/26/24 10:00 Date Received: 01/26/24 15:36

Project/Site: Corral Canyon Expansion Battery

Lab Sample ID: 890-6043-1

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	72418	02/05/24 16:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72622	02/08/24 16:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72741	02/08/24 16:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			18039	02/13/24 01:40	CC	EET DAL
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	17961	01/30/24 14:51	WP	EET DAL
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	17988	02/13/24 01:40	WP	EET DAL
Soluble	Leach	DI Leach			5.03 g	50 mL	71956	01/30/24 14:18	SMC	EET MID
Soluble	Analysis	300.0		1			72172	02/03/24 17:06	CH	EET MID

**Client Sample ID: FS11** Lab Sample ID: 890-6043-2 Date Collected: 01/26/24 10:05 **Matrix: Solid** 

Date Received: 01/26/24 15:36

<del>_</del>	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	72418	02/05/24 16:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72622	02/08/24 16:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72741	02/08/24 16:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			18039	02/13/24 02:42	CC	EET DAL
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	17961	01/30/24 14:51	WP	EET DAL
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	17988	02/13/24 02:42	WP	EET DAL
Soluble	Leach	DI Leach			5.03 g	50 mL	71956	01/30/24 14:18	SMC	EET MID
Soluble	Analysis	300.0		1			72172	02/03/24 17:13	CH	EET MID

**Client Sample ID: FS12** Lab Sample ID: 890-6043-3 Date Collected: 01/26/24 10:15 **Matrix: Solid** 

Date Received: 01/26/24 15:36

	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	72418	02/05/24 16:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72622	02/08/24 16:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72741	02/08/24 16:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			18039	02/13/24 03:23	CC	EET DAL
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	17961	01/30/24 14:51	WP	EET DAL
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	17988	02/13/24 03:23	WP	EET DAL
Soluble	Leach	DI Leach			4.98 g	50 mL	71956	01/30/24 14:18	SMC	EET MID
Soluble	Analysis	300.0		1			72172	02/03/24 17:20	CH	EET MID

**Client Sample ID: FS13** Lab Sample ID: 890-6043-4 Date Collected: 01/26/24 10:20 Matrix: Solid

Date Received: 01/26/24 15:36

	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	72700	02/09/24 08:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72706	02/09/24 11:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72741	02/09/24 11:30	SM	EET MID

**Eurofins Carlsbad** 

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Project/Site: Corral Canyon Expansion Battery

Lab Sample ID: 890-6043-4

Matrix: Solid

Client Sample ID: FS13
Date Collected: 01/26/24 10:20

Client: Ensolum

Date Received: 01/26/24 15:36

	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			18039	02/13/24 03:43	CC	EET DAL
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	17961	01/30/24 14:51	WP	EET DAL
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	17988	02/13/24 03:43	WP	EET DAL
Soluble	Leach	DI Leach			4.97 g	50 mL	71956	01/30/24 14:18	SMC	EET MID
Soluble	Analysis	300.0		1			72172	02/03/24 17:27	CH	EET MID

Client Sample ID: FS14

Date Collected: 01/26/24 10:25

Lab Sample ID: 890-6043-5

Matrix: Solid

Date Received: 01/26/24 15:36

_	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	72700	02/09/24 08:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72706	02/09/24 11:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72741	02/09/24 11:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			18039	02/13/24 04:04	CC	EET DAL
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	17961	01/30/24 14:51	WP	EET DAL
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	17988	02/13/24 04:04	WP	EET DAL
Soluble	Leach	DI Leach			5.02 g	50 mL	71956	01/30/24 14:18	SMC	EET MID
Soluble	Analysis	300.0		1			72172	02/03/24 17:47	CH	EET MID

Client Sample ID: SW03

Date Collected: 01/26/24 10:30

Lab Sample ID: 890-6043-6

Matrix: Solid

Date Received: 01/26/24 15:36

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	72700	02/09/24 08:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72706	02/09/24 12:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72741	02/09/24 12:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			18039	02/13/24 04:25	CC	EET DAL
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	17961	01/30/24 14:51	WP	EET DAL
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	17988	02/13/24 04:25	WP	EET DAL
Soluble	Leach	DI Leach			5.01 g	50 mL	71956	01/30/24 14:18	SMC	EET MID
Soluble	Analysis	300.0		1			72172	02/03/24 17:54	CH	EET MID

Client Sample ID: FS15

Date Collected: 01/26/24 12:35

Lab Sample ID: 890-6043-7

Matrix: Solid

Date Received: 01/26/24 15:36

_	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	72700	02/09/24 08:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72706	02/09/24 12:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72741	02/09/24 12:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			18039	02/13/24 04:45	CC	EET DAL
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	9.90 g 1 uL	10 mL 1 uL	17961 17988	01/30/24 14:51 02/13/24 04:45	WP WP	EET DAL EET DAL

72172

02/03/24 18:21 CH

Client: Ensolum Job ID: 890-6043-1 Project/Site: Corral Canyon Expansion Battery SDG: 03C1558299

**Client Sample ID: FS15** Lab Sample ID: 890-6043-7

Date Collected: 01/26/24 12:35 **Matrix: Solid** Date Received: 01/26/24 15:36

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	71956	01/30/24 14:18	SMC	EET MID
Soluble	Analysis	300.0		1			72172	02/03/24 18:14	CH	EET MID

**Client Sample ID: SW04** Lab Sample ID: 890-6043-8

Date Collected: 01/26/24 12:40 Matrix: Solid Date Received: 01/26/24 15:36

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	72700	02/09/24 08:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72706	02/09/24 12:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72741	02/09/24 12:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			18039	02/13/24 05:05	CC	EET DAL
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	17961	01/30/24 14:51	WP	EET DAL
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	17988	02/13/24 05:05	WP	EET DAL
Soluble	Leach	DI Leach			4.98 a	50 mL	71956	01/30/24 14:18	SMC	EET MID

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**Laboratory References:** 

Analysis

Soluble

EET DAL = Eurofins Dallas, 9701 Harry Hines Blvd, Dallas, TX 75220, TEL (214)902-0300 EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

300.0

**EET MID** 

# **Accreditation/Certification Summary**

Client: Ensolum

Job ID: 890-6043-1 Project/Site: Corral Canyon Expansion Battery SDG: 03C1558299

**Laboratory: Eurofins Dallas** 

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	<b>Expiration Date</b>
Texas	NELAP	T104704295-23-34	06-30-24

**Laboratory: Eurofins Midland** 

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

Authority	Progra	am	Identification Number	<b>Expiration Date</b>
Texas	NELAF	)	T104704400-23-26	06-30-24
I he following analyte				
,	does not offer certification	,	not certified by the governing authori	ity. This list may include analy
,	•	,	not certified by the governing authori Analyte	ity. I his list may include analy

# **Method Summary**

Client: Ensolum

Project/Site: Corral Canyon Expansion Battery

Job ID: 890-6043-1

SDG: 03C1558299

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 DAL	
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET DAL	
300.0	Anions, Ion Chromatography	EPA	EET MID	
5035	Closed System Purge and Trap	SW846	EET MID	
8015NM Prep	Microextraction	SW846	EET DAL	
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 DAL = Eurofins Dallas, 9701 Harry Hines Blvd, Dallas, TX 75220, TEL (214)902-0300

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

# **Sample Summary**

Client: Ensolum

Project/Site: Corral Canyon Expansion Battery

Job ID: 890-6043-1

SDG: 03C1558299

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-6043-1	FS10	Solid	01/26/24 10:00	01/26/24 15:36	1
890-6043-2	FS11	Solid	01/26/24 10:05	01/26/24 15:36	1
890-6043-3	FS12	Solid	01/26/24 10:15	01/26/24 15:36	1
890-6043-4	FS13	Solid	01/26/24 10:20	01/26/24 15:36	1
890-6043-5	FS14	Solid	01/26/24 10:25	01/26/24 15:36	1
890-6043-6	SW03	Solid	01/26/24 10:30	01/26/24 15:36	0-1
890-6043-7	FS15	Solid	01/26/24 12:35	01/26/24 15:36	4
890-6043-8	SW04	Solid	01/26/24 12:40	01/26/24 15:36	0-4

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Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-755

**Environment Testing** 

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Work Order No:

3199 GOY3 www.xenco.com Page / of ]	Work Order Comments	Program: UST/PST ☐ PRP☐ Brownfields ☐ RRC ☐ Superfund ☐	State of Project:	Reporting: Level II	Daliverables EDD T Anapt T Other
0, Carlsbad, NM (575) 988-3199	nee		een St.	NM 88220	

Ensolum   3122 National Parks Hwy   Address:   Carlsbad, NM 88220   City, State ZIP:   303-887-2946   Emait: Garrett Green   Corral Canyon Expansion Battery   Turn Around   O3C1558299   Seventhal Canyon Connor Whitman   TAT starts the day received by 4:30pm   Tat starts the day recei	ATO Energy 3104 E. Green St. Carlsbad, NM 88220 n@ExxonMobil.com Pres. Code		Program: UST/PST ☐ PRP☐ Brownfields ☐ RRC ☐ Superfund ☐
3122 National Parks Hwy     Carlsbad, NM 88220     303-887-2946     Corral Canyon Expansion Battery     Corral Canyon Expansion Battery     O3C1558299   Use     Connor Whitman   TAT's     Connor Whitman   Tat	3104 E. Green S Carlsbad, NM 81 N@ExxonMobil.com Pres.		
Carlsbad, NM 88220   303-887-2946   Sampled	Carisbad, NM 8i		
203-887-2946   Corral Canyon Expansion Battery   O3C1558299   C Rep   Connor Whitman   TAT	n@ExxonMobil.com		Reporting: Level III  PST/UST TRRP  Level IV
Corral Canyon Expansion Battery Turn Around  03C1558299 S Routine Rus  Connor Whitman TAT starts the day.rece the lab, if received by A SEIPT Temp Blank: Kes No Wet Ice: Kes No Wat Ice: Kes No Wat Correction Factor: Seals: Yes No Wat Temperature Reading: V. Corrected Temperature: C. Corrected Temperature: C. C. C. Corrected Temperature: C.	Pres.	Deliverables: EDD	ADaPT ☐ Other:
Connor Whitman	Pres. Code	ANALYSIS REQUEST	Preservative Codes
Connor Whitman TAT starts the day recepted by the lab. If received by the lab.			None: NO DI Water: H <sub>2</sub> O
Connor Whitman TAT starts the day recept the lab. if received by 4 the			Cool Cool
Temp Blank:   Yes No   Wet Ice:   Yes No   Ye			
CEIPT   Temp Blank:   (Yes No   Wet Ice:   Yes No   Thermometer ID:   Thermometer			
Seals: Yes No Thermometer ID: TALL's Seals: Yes No WA Correction Factor: O. Seals: Yes No WA Temperature Reading: U. U. Corrected Temperature: U. U. Corrected Temperature: U. U. Corrected Temperature: U.	ieter (0)		0
Seals:         Yes         No         Nux         Temperature Reading:         U. U.           Seals:         Yes         No         Nux         Temperature Reading:         U. U.           Corrected Temperature:         U. U.         U. U.         U. U.           Corrected Temperature:         U. U.         U. U.           Amarix         Sampled         Sampled         Depth           Depth         Depth         Depth         Depth			NaHSO.: NABIS
Seals: Yes No Nux Temperature Reading: U. U. Corrected Temperature: U. U. U. Date   Time   Depth   Sampled   Sampled   Depth   Corrected Temperature: U.			Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>
Corrected Temperature: U.	1		Zn Acetate+NaOH: Zn
Matrix         Date Sampled Sampled         Time Depth           ≤          /26/24    000	(51		NaOH+Ascorbic Acid: SAPC
5 1/2624 1000 1	С # С од С н С од С н С од С н С од С од С од С од С од С од С од С од		Sample Comments
	-		Incident ID:
	-		NACONOGENIA
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ES13 (020 1			Cost Center:
P514 1025 1			1056571001
SW03			AFE
FSIS 12.35 4			
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Hg: 1631 / 245.1 / 7470 / 7471 Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted in Furnifins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted in Furnifins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted in Furnifins Xenco. An expense of \$65 for each project and a charge of \$65 for each project a TCLP/SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U Circle Method(s) and Metal(s) to be analyzed

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by (Signature)	Doto/Timo
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Page 29 of 33

Midland, TX 79701

1211 W. Florida Ave

**Eurofins Midland** 

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# Chain of Custody Record

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eurofins

Environment Testing

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC altertion immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, State, Zip: TX, 75220 Possible Hazard Identification SW04 (890-6043-8) Dallas Relinquished by: Empty Kit Relinquished by Deliverable Requested: I, II, III, IV, Other (specify) FS15 (890-6043-7) SW03 (890-6043-6) FS13 (890-6043-4) FS11 (890-6043-2) Sample Identification - Client ID (Lab ID) 214-902-0300(Tel) 9701 Harry Hines Blvd Eurofins Environment Testing South Centre Shipping/Receiving Client Information Relinquished by Relinquished by: <sup>=</sup>S12 (890-6043-3) <sup>=</sup>S10 (890-6043-1) ণoject Name: Corral Canyon Expansion Battery Phone: 432-704-5440 <sup>:</sup>S14 (890-6043-5) Custody Seals Intact: Yes No Custody Seal No.: (Sub Contract Lab) Project #: 89000093 Primary Deliverable Rank: 2 Due Date Requested: 2/1/2024 Phone: #WOSS WO# PO# TAT Requested (days) Sample Date 1/26/24 1/26/24 1/26/24 1/26/24 1/26/24 1/26/24 1/26/24 1/26/24 Date: Mountain 10:15 Mountain 10:05 Mountain 12:40 Mountain Mountain 12:35 Mountain 10:30 Mountain 10:25 Mountain 10:20 Sample 10:00 (C=comp, G=grab) Sample Type Preservation Code: Company BT=Tissue, A=Ai Company Company (W=water, S=solid, O=waste/oil, Matrix Solid Solid Solid Solid Solid Solid Solid Solid Jessica.Kramer@et.eurofinsus.com Kramer, Jessica Time: Field Filtered Sample (Yes or No) NELAP - Texas Accreditations Required (See note): Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Month Perform MS/MSD (Yes or No) Special Instructions/QC Requirements Cooler Temperature(s) °C and Other Remarks Received by: Received by Received by  $\times$ × × × × × × × 8015MOD\_Calc × × × × 8015MOD\_NM/8015NM\_S\_Prep × × × × **Analysis Requested** State of Origin: New Mexico Carrier Tracking No(s) Method of Shipment Archive For **Total Number of containers** ---\_\_ \_ J - Ice J - DI Water K - EDTA L - EDA A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid Page: Page 1 of 1 COC No: 880-9089.1 Preservation Codes: 890-6043-1 Special Instructions/Note: U - Acetone V - MCAA W - pH 4-5 N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 Z - other (specify) Ver: 06/08/2021 Company Г - TSP Dodecahydrate Company Months

2/13/2024

# **Login Sample Receipt Checklist**

Client: Ensolum

Job Number: 890-6043-1

SDG Number: 03C1558299

Login Number: 6043 List Source: Eurofins Carlsbad

List Number: 1

Creator: Lopez, Abraham

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

# **Login Sample Receipt Checklist**

Client: Ensolum

Job Number: 890-6043-1

SDG Number: 03C1558299

Login Number: 6043
List Source: Eurofins Dallas
List Number: 3
List Creation: 02/02/24 12:43 PM

Creator: Dabinett, Ian

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.	False	COC not relinquished.
Is the Field Sampler's name present on COC?	N/A	
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	N/A	

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<6mm (1/4").

# **Login Sample Receipt Checklist**

Client: Ensolum

Job Number: 890-6043-1

SDG Number: 03C1558299

List Source: Eurofins Midland
List Number: 2
List Creation: 01/30/24 10:34 AM

Creator: Rodriguez, Leticia

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

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<6mm (1/4").

**Environment Testing** 

# **ANALYTICAL REPORT**

# PREPARED FOR

Attn: Ben Belill Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 2/13/2024 1:44:00 PM

# **JOB DESCRIPTION**

Corral Canyon Expansion Battery 03C1558299

# **JOB NUMBER**

890-6044-1

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 2/13/2024 1:44:00 PM

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

Client: Ensolum Project/Site: Corral Canyon Expansion Battery Laboratory Job ID: 890-6044-1 SDG: 03C1558299

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# **Definitions/Glossary**

Client: Ensolum Job ID: 890-6044-1 Project/Site: Corral Canyon Expansion Battery SDG: 03C1558299

# **Qualifiers**

GC VOA	
Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
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.

#### **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

RER

RPD TEF

TEQ

TNTC

RL

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

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

**Eurofins Carlsbad** 

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

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

#### Case Narrative

Client: Ensolum Job ID: 890-6044-1

Project: Corral Canyon Expansion Battery

**Eurofins Carlsbad** Job ID: 890-6044-1

#### Job Narrative 890-6044-1

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
- 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 1/26/2024 3:36 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 4.4°C

#### Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: FS01 (890-6044-1), FS02 (890-6044-2), FS03 (890-6044-3), FS04 (890-6044-4), FS05 (890-6044-5), FS06 (890-6044-6), FS07 (890-6044-7), FS08 (890-6044-8), FS09 (890-6044-9), SW01 (890-6044-10) and SW02 (890-6044-11).

#### **GC VOA**

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-72529 recovered above the upper control limit for Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-72529/20).

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-72529 recovered above the upper control limit for Ethylbenzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-72529/33).

Method 8021B: Surrogate recovery for the following samples were outside control limits: FS01 (890-6044-1), FS05 (890-6044-5), SW02 (890-6044-11) and (890-6038-A-1-I). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-72529 recovered above the upper control limit for Toluene, Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-72529/51).

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-72529 recovered above the upper control limit for <AffectedAnalytes>. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-72529/64).

Method 8021B: Surrogate recovery for the following sample was outside control limits: (LCS 880-72388/1-A). Evidence of matrix interferences is not obvious.

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-72388 and analytical batch 880-72529 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside the upper control limit: FS03 (890-6044-3), FS04 (890-6044-4), FS05 (890-6044-5), FS06 (890-6044-6), FS07 (890-6044-7), FS09 (890-6044-9), SW01 (890-6044-10) and SW02 (890-6044-11). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

#### **Case Narrative**

Client: Ensolum Job ID: 890-6044-1

Project: Corral Canyon Expansion Battery

# Job ID: 890-6044-1 (Continued)

**Eurofins Carlsbad** 

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: FS01 (890-6044-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

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

Matrix: Solid

Lab Sample ID: 890-6044-1

# **Client Sample Results**

Client: Ensolum Job ID: 890-6044-1
Project/Site: Corral Canyon Expansion Battery SDG: 03C1558299

**Client Sample ID: FS01** 

Date Collected: 01/25/24 11:15 Date Received: 01/26/24 15:36

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/05/24 14:05	02/08/24 01:05	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/05/24 14:05	02/08/24 01:05	1
Ethylbenzene	< 0.00199	U *+	0.00199	mg/Kg		02/05/24 14:05	02/08/24 01:05	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398	mg/Kg		02/05/24 14:05	02/08/24 01:05	1
o-Xylene	<0.00199	U *+	0.00199	mg/Kg		02/05/24 14:05	02/08/24 01:05	1
Xylenes, Total	<0.00398	U *+	0.00398	mg/Kg		02/05/24 14:05	02/08/24 01:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130			02/05/24 14:05	02/08/24 01:05	1
1,4-Difluorobenzene (Surr)	61	S1-	70 - 130			02/05/24 14:05	02/08/24 01:05	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/08/24 01:05	1
Method: SW846 8015 NM - Diese Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Total TPH	104		49.8	mg/Kg			02/03/24 18:26	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)	<49.8	U F1	49.8	mg/Kg		01/30/24 14:46	02/03/24 18:26	1
Diesel Range Organics (Over C10-C28)	104	F1 F2	49.8	mg/Kg		01/30/24 14:46	02/03/24 18:26	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		01/30/24 14:46	02/03/24 18:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
o-Terphenyl	0	S1-	70 - 130			01/30/24 14:46	02/03/24 18:26	1
1-Chlorooctane	94		70 - 130			01/30/24 14:46	02/03/24 18:26	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	198		4.97	mg/Kg			02/03/24 18:28	1

**Client Sample ID: FS02** 

Date Collected: 01/25/24 11:20

Date Received: 01/26/24 15:36

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/05/24 14:05	02/08/24 01:25	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/05/24 14:05	02/08/24 01:25	1
Ethylbenzene	<0.00199	U *+	0.00199	mg/Kg		02/05/24 14:05	02/08/24 01:25	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398	mg/Kg		02/05/24 14:05	02/08/24 01:25	1
o-Xylene	<0.00199	U *+	0.00199	mg/Kg		02/05/24 14:05	02/08/24 01:25	1
Xylenes, Total	<0.00398	U *+	0.00398	mg/Kg		02/05/24 14:05	02/08/24 01:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130			02/05/24 14:05	02/08/24 01:25	1
1,4-Difluorobenzene (Surr)	75		70 - 130			02/05/24 14:05	02/08/24 01:25	1

Eurofins Carlsbad

Lab Sample ID: 890-6044-2

**Matrix: Solid** 

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ofins Carisbac

Job ID: 890-6044-1

Matrix: Solid

Lab Sample ID: 890-6044-2

02/03/24 18:35

Client: Ensolum Project/Site: Corral Canyon Expansion Battery SDG: 03C1558299

**Client Sample ID: FS02** 

Date Collected: 01/25/24 11:20 Date Received: 01/26/24 15:36

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/08/24 01:25	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (	GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg			02/03/24 19:30	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)	<50.1	U	50.1	mg/Kg		01/30/24 14:46	02/03/24 19:30	1
Diesel Range Organics (Over	<50.1	U	50.1	mg/Kg		01/30/24 14:46	02/03/24 19:30	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		01/30/24 14:46	02/03/24 19:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
o-Terphenyl	93		70 - 130			01/30/24 14:46	02/03/24 19:30	1
1-Chlorooctane	84		70 - 130			01/30/24 14:46	02/03/24 19:30	1
Method: EPA 300.0 - Anions, Ion	Chromatogran	hv - Solubl	•					
Analyte		Qualifier	e RL	Unit	D	Prepared	Analyzed	Dil Fac

**Client Sample ID: FS03** Lab Sample ID: 890-6044-3 **Matrix: Solid** 

209

4.95

mg/Kg

Date Collected: 01/25/24 11:25 Date Received: 01/26/24 15:36

Sample Depth: 1

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/05/24 14:05	02/08/24 01:46	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/05/24 14:05	02/08/24 01:46	1
Ethylbenzene	<0.00200	U *+	0.00200	mg/Kg		02/05/24 14:05	02/08/24 01:46	1
m-Xylene & p-Xylene	<0.00399	U *+	0.00399	mg/Kg		02/05/24 14:05	02/08/24 01:46	1
o-Xylene	<0.00200	U *+	0.00200	mg/Kg		02/05/24 14:05	02/08/24 01:46	1
Xylenes, Total	<0.00399	U *+	0.00399	mg/Kg		02/05/24 14:05	02/08/24 01:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130			02/05/24 14:05	02/08/24 01:46	1
1,4-Difluorobenzene (Surr)	73		70 - 130			02/05/24 14:05	02/08/24 01:46	1
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			02/08/24 01:46	1
Method: SW846 8015 NM - Dies	el Range Organ	ics (DRO) (	GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			02/12/24 19:48	1
Method: SW846 8015B NM - Die	esel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<49.7	U	49.7	ma/Ka		01/30/24 14:46	02/12/24 19:48	

Job ID: 890-6044-1 SDG: 03C1558299

Client: Ensolum Project/Site: Corral Canyon Expansion Battery

Lab Sample ID: 890-6044-3

02/03/24 18:41

Date Collected: 01/25/24 11:25 Date Received: 01/26/24 15:36

203

Matrix: Solid

Sample Depth: 1

**Client Sample ID: FS03** 

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		01/30/24 14:46	02/12/24 19:48	1
Oll Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		01/30/24 14:46	02/12/24 19:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
o-Terphenyl	206	S1+	70 - 130			01/30/24 14:46	02/12/24 19:48	1
1-Chlorooctane	179	S1+	70 - 130			01/30/24 14:46	02/12/24 19:48	1
_ Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					

**Client Sample ID: FS04** Lab Sample ID: 890-6044-4 Matrix: Solid

4.96

mg/Kg

Date Collected: 01/25/24 11:30

Date Received: 01/26/24 15:36

Sample Depth: 1

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		02/05/24 14:05	02/08/24 02:06	1
Toluene	<0.00201	U	0.00201	mg/Kg		02/05/24 14:05	02/08/24 02:06	1
Ethylbenzene	<0.00201	U *+	0.00201	mg/Kg		02/05/24 14:05	02/08/24 02:06	1
m-Xylene & p-Xylene	<0.00402	U *+	0.00402	mg/Kg		02/05/24 14:05	02/08/24 02:06	1
o-Xylene	<0.00201	U *+	0.00201	mg/Kg		02/05/24 14:05	02/08/24 02:06	1
Xylenes, Total	<0.00402	U *+	0.00402	mg/Kg		02/05/24 14:05	02/08/24 02:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130			02/05/24 14:05	02/08/24 02:06	1
1,4-Difluorobenzene (Surr)	76		70 - 130			02/05/24 14:05	02/08/24 02:06	1
Method: TAL SOP Total BTEX - T	otal BTEX Cal	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			02/08/24 02:06	1
Mothod: CW04C 004E NM Disco	I Danna Onnan	: (DDO) (	00)					
Method: SW846 8015 NM - Diese Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH			50.0	<u></u>		Frepareu	02/12/24 20:09	1
-	<b>\30.0</b>	U	30.0	mg/Kg			02/12/24 20:09	'
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)	<50.0	U	50.0	mg/Kg		01/30/24 14:46	02/12/24 20:09	1
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		01/30/24 14:46	02/12/24 20:09	1
C10-C28)								
	<50.0	U	50.0	mg/Kg		01/30/24 14:46	02/12/24 20:09	1
OII Range Organics (Over C28-C36)								
Oll Range Organics (Over C28-C36)  Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
,		Qualifier S1+	70 - 130			<b>Prepared</b> 01/30/24 14:46	Analyzed 02/12/24 20:09	Dil Fac

Job ID: 890-6044-1

Matrix: Solid

Lab Sample ID: 890-6044-4

Client: Ensolum Project/Site: Corral Canyon Expansion Battery SDG: 03C1558299

**Client Sample ID: FS04** 

Date Collected: 01/25/24 11:30 Date Received: 01/26/24 15:36

Sample Depth: 1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	218		4.95	mg/Kg			02/03/24 18:48	1		

**Client Sample ID: FS05** Lab Sample ID: 890-6044-5 **Matrix: Solid** 

Date Collected: 01/25/24 11:40 Date Received: 01/26/24 15:36

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/05/24 14:05	02/08/24 02:26	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/05/24 14:05	02/08/24 02:26	1
Ethylbenzene	<0.00200	U *+	0.00200	mg/Kg		02/05/24 14:05	02/08/24 02:26	1
m-Xylene & p-Xylene	<0.00401	U *+	0.00401	mg/Kg		02/05/24 14:05	02/08/24 02:26	1
o-Xylene	<0.00200	U *+	0.00200	mg/Kg		02/05/24 14:05	02/08/24 02:26	1
Xylenes, Total	<0.00401	U *+	0.00401	mg/Kg		02/05/24 14:05	02/08/24 02:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130			02/05/24 14:05	02/08/24 02:26	1
1,4-Difluorobenzene (Surr)	56	S1-	70 - 130			02/05/24 14:05	02/08/24 02:26	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			02/08/24 02:26	1

Method: SW846 8015 NM - Diesel Range	Organ	ics (DRO) (G0	C)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			02/12/24 20:30	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<49.8	U	49.8	mg/Kg		01/30/24 14:46	02/12/24 20:30	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		01/30/24 14:46	02/12/24 20:30	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		01/30/24 14:46	02/12/24 20:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
o-Terphenyl	196	S1+	70 - 130			01/30/24 14:46	02/12/24 20:30	1

Method: EPA 300.0 - Anions, Ion Chromato	graphy - Soluble				
1-Chlorooctane	170 S1+	70 - 130	01/30/24 14:46	02/12/24 20:30	1
o-Terphenyl	196 S1+	70 - 130	01/30/24 14:46	02/12/24 20:30	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	197		5.02	mg/Kg			02/03/24 18:55	1

Lab Sample ID: 890-6044-6 **Client Sample ID: FS06** Date Collected: 01/25/24 11:45 **Matrix: Solid** Date Received: 01/26/24 15:36

Sample Depth: 1

Method: SW846 8021B - Volatile O	rganic Compounds	Method: SW846 8021B - Volatile Organic Compounds (GC)							
Analyte	Result Qualifie	er RL	Unit	D	Prepared	Analyzed	Dil Fac		
Benzene	<0.00199 U	0.00199	mg/Kg		02/05/24 14:05	02/08/24 03:49	1		

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Client: Ensolum Job ID: 890-6044-1 Project/Site: Corral Canyon Expansion Battery SDG: 03C1558299

**Client Sample ID: FS06** 

Lab Sample ID: 890-6044-6 Date Collected: 01/25/24 11:45 Matrix: Solid Date Received: 01/26/24 15:36

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00199	U	0.00199	mg/Kg		02/05/24 14:05	02/08/24 03:49	1
Ethylbenzene	<0.00199	U *+	0.00199	mg/Kg		02/05/24 14:05	02/08/24 03:49	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398	mg/Kg		02/05/24 14:05	02/08/24 03:49	1
o-Xylene	<0.00199	U *+	0.00199	mg/Kg		02/05/24 14:05	02/08/24 03:49	1
Xylenes, Total	<0.00398	U *+	0.00398	mg/Kg		02/05/24 14:05	02/08/24 03:49	,
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	82		70 - 130			02/05/24 14:05	02/08/24 03:49	
1,4-Difluorobenzene (Surr)	77		70 - 130			02/05/24 14:05	02/08/24 03:49	1
Method: TAL SOP Total BTEX - To	tal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/08/24 03:49	1
Method: SW846 8015 NM - Diesel	Range Organ	ics (DRO) (	GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	П	40.0					
•		Ü	49.6	mg/Kg			02/12/24 20:50	1
: Method: SW846 8015B NM - Diese				mg/Kg			02/12/24 20:50	1
	el Range Orga			mg/Kg <b>Unit</b>	D	Prepared	02/12/24 20:50  Analyzed	Dil Fac
Analyte	el Range Orga	nics (DRO) Qualifier	(GC)		<u>D</u>	Prepared 01/30/24 14:46		Dil Fac
Analyte Gasoline Range Organics (GRO) Diesel Range Organics (Over	el Range Orga Result	nics (DRO) Qualifier	(GC)	Unit	<u>D</u>		Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO) Diesel Range Organics (Over C10-C28)	Result <49.6	nics (DRO) Qualifier U	(GC)  RL  49.6	Unit mg/Kg	<u> </u>	01/30/24 14:46	Analyzed 02/12/24 20:50	
Analyte Gasoline Range Organics (GRO) Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.6 <49.6	nics (DRO) Qualifier U U	(GC)  RL  49.6  49.6	<b>Unit</b> mg/Kg mg/Kg	<u> </u>	01/30/24 14:46 01/30/24 14:46	Analyzed 02/12/24 20:50 02/12/24 20:50	
Analyte Gasoline Range Organics (GRO) Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate	Result <49.6 <49.6 <49.6	nics (DRO) Qualifier U U	(GC)  RL 49.6 49.6 49.6	<b>Unit</b> mg/Kg mg/Kg	<u> </u>	01/30/24 14:46 01/30/24 14:46 01/30/24 14:46	Analyzed 02/12/24 20:50 02/12/24 20:50 02/12/24 20:50	Dil Fac
Analyte Gasoline Range Organics (GRO) Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate o-Terphenyl	Result	Qualifier  U  Qualifier	(GC)  RL 49.6 49.6 49.6  Limits	<b>Unit</b> mg/Kg mg/Kg	<u> </u>	01/30/24 14:46 01/30/24 14:46 01/30/24 14:46 Prepared	Analyzed 02/12/24 20:50 02/12/24 20:50 02/12/24 20:50 Analyzed	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO) Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate o-Terphenyl 1-Chlorooctane	Result	Qualifier  U  U  Qualifier  S1+ S1+	(GC)  RL 49.6 49.6  49.6  Limits 70 - 130 70 - 130	<b>Unit</b> mg/Kg mg/Kg	<u>D</u>	01/30/24 14:46 01/30/24 14:46 01/30/24 14:46 Prepared 01/30/24 14:46	Analyzed 02/12/24 20:50 02/12/24 20:50 02/12/24 20:50  Analyzed 02/12/24 20:50	Dil Fac
Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO) Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate o-Terphenyl 1-Chlorooctane  Method: EPA 300.0 - Anions, Ion CAnalyte	Result <49.6 <49.6 <49.6  **Recovery  194  168  Chromatograp	Qualifier  U  U  Qualifier  S1+ S1+	(GC)  RL 49.6 49.6  49.6  Limits 70 - 130 70 - 130	<b>Unit</b> mg/Kg mg/Kg	<u>D</u>	01/30/24 14:46 01/30/24 14:46 01/30/24 14:46 Prepared 01/30/24 14:46	Analyzed 02/12/24 20:50 02/12/24 20:50 02/12/24 20:50  Analyzed 02/12/24 20:50	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Lab Sample ID: 890-6044-7 **Client Sample ID: FS07 Matrix: Solid** 

Date Collected: 01/25/24 11:50

Date Received: 01/26/24 15:36

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199	mg/Kg		02/05/24 14:05	02/08/24 04:09	
Toluene	<0.00199	U	0.00199	mg/Kg		02/05/24 14:05	02/08/24 04:09	
Ethylbenzene	<0.00199	U *+	0.00199	mg/Kg		02/05/24 14:05	02/08/24 04:09	•
m-Xylene & p-Xylene	<0.00398	U *+	0.00398	mg/Kg		02/05/24 14:05	02/08/24 04:09	
o-Xylene	<0.00199	U *+	0.00199	mg/Kg		02/05/24 14:05	02/08/24 04:09	•
Xylenes, Total	<0.00398	U *+	0.00398	mg/Kg		02/05/24 14:05	02/08/24 04:09	,
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	86		70 - 130			02/05/24 14:05	02/08/24 04:09	-
1,4-Difluorobenzene (Surr)	77		70 - 130			02/05/24 14:05	02/08/24 04:09	

Matrix: Solid

Lab Sample ID: 890-6044-7

02/12/24 21:11

Job ID: 890-6044-1 SDG: 03C1558299

01/30/24 14:46

Client: Ensolum Project/Site: Corral Canyon Expansion Battery

**Client Sample ID: FS07** 

Date Collected: 01/25/24 11:50 Date Received: 01/26/24 15:36

Sample Depth: 1

Method: TAL SOP Total BTEX - T	otal BTEX Cal	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/08/24 04:09	1
Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (0	GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2	mg/Kg			02/12/24 21:11	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)	<50.2	U	50.2	ma/Ka		01/30/24 14:46	02/12/24 21:11	1

Oll Range Organics (Over C28-C36)	<50.2	U	50.2	mg/Kg	01/30/24 14:46	02/12/24 21:11	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
o-Terphenyl	182	S1+	70 - 130		01/30/24 14:46	02/12/24 21:11	1
1-Chlorooctane	159	S1+	70 - 130		01/30/24 14:46	02/12/24 21:11	1

50.2

mg/Kg

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	181		5.04	mg/Kg			02/03/24 13:24	1

**Client Sample ID: FS08** Date Collected: 01/25/24 11:55 Date Received: 01/26/24 15:36

<50.2 U

Diesel Range Organics (Over

C10-C28)

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/05/24 14:05	02/08/24 04:30	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/05/24 14:05	02/08/24 04:30	1
Ethylbenzene	<0.00200	U *+	0.00200	mg/Kg		02/05/24 14:05	02/08/24 04:30	1
m-Xylene & p-Xylene	<0.00399	U *+	0.00399	mg/Kg		02/05/24 14:05	02/08/24 04:30	1
o-Xylene	<0.00200	U *+	0.00200	mg/Kg		02/05/24 14:05	02/08/24 04:30	1
Xylenes, Total	<0.00399	U *+	0.00399	mg/Kg		02/05/24 14:05	02/08/24 04:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130			02/05/24 14:05	02/08/24 04:30	1
1,4-Difluorobenzene (Surr)	77		70 - 130			02/05/24 14:05	02/08/24 04:30	1
Method: TAL SOP Total BTEX	- Total RTEY Cale	culation						
Michiga. IAL OOI Total BILA	- IUIAI DILA CAI	Julation						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
		Qualifier	RL 0.00399	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 02/08/24 04:30	Dil Fac
Analyte Total BTEX	<0.00399	<b>Qualifier</b> U	0.00399		<u>D</u>	Prepared		Dil Fac
Analyte Total BTEX  Method: SW846 8015 NM - Die	Result <0.00399 esel Range Organ	<b>Qualifier</b> U	0.00399		<u>D</u>	Prepared Prepared		Dil Fac Dil Fac
Analyte	Result <0.00399 esel Range Organ	Qualifier U ics (DRO) (Comparison of the property of the prope	0.00399 GC)	mg/Kg	<u> </u>		02/08/24 04:30	1
Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte	Result <a href="#">&lt;0.00399</a> <a href="#">esel Range Organ</a> <a href="#">Result <a href="#">&lt;50.5</a></a>	Qualifier U  ics (DRO) ( Qualifier U	0.00399  GC)  RL  50.5	mg/Kg	<u> </u>		02/08/24 04:30 Analyzed	1
Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH	Result <a href="#">&lt;0.00399</a> esel Range Organ Result <a href="#">&lt;50.5</a> iesel Range Organ	Qualifier U  ics (DRO) ( Qualifier U	0.00399  GC)  RL  50.5	mg/Kg	<u> </u>		02/08/24 04:30 Analyzed	1

**Eurofins Carlsbad** 

Lab Sample ID: 890-6044-8

**Matrix: Solid** 

Job ID: 890-6044-1 SDG: 03C1558299

Project/Site: Corral Canyon Expansion Battery

**Client Sample ID: FS08** Lab Sample ID: 890-6044-8 Date Collected: 01/25/24 11:55

Matrix: Solid

Date Received: 01/26/24 15:36 Sample Depth: 1

Client: Ensolum

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5	mg/Kg		01/30/24 14:46	02/03/24 21:34	1
Oll Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		01/30/24 14:46	02/03/24 21:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
o-Terphenyl	80		70 - 130			01/30/24 14:46	02/03/24 21:34	1
1-Chlorooctane	73		70 - 130			01/30/24 14:46	02/03/24 21:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL Unit Prepared Dil Fac D Analyzed 5.05 02/03/24 13:29 Chloride 194 mg/Kg

**Client Sample ID: FS09** Lab Sample ID: 890-6044-9 Matrix: Solid

Date Collected: 01/25/24 12:10

Date Received: 01/26/24 15:36

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		02/05/24 14:05	02/08/24 04:50	1
Toluene	<0.00201	U	0.00201	mg/Kg		02/05/24 14:05	02/08/24 04:50	1
Ethylbenzene	<0.00201	U *+	0.00201	mg/Kg		02/05/24 14:05	02/08/24 04:50	1
m-Xylene & p-Xylene	<0.00402	U *+	0.00402	mg/Kg		02/05/24 14:05	02/08/24 04:50	1
o-Xylene	<0.00201	U *+	0.00201	mg/Kg		02/05/24 14:05	02/08/24 04:50	1
Xylenes, Total	<0.00402	U *+	0.00402	mg/Kg		02/05/24 14:05	02/08/24 04:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130			02/05/24 14:05	02/08/24 04:50	1
1,4-Difluorobenzene (Surr)	78		70 - 130			02/05/24 14:05	02/08/24 04:50	1
Method: TAL SOP Total BTEX - T Analyte Total BTEX		Qualifier	RL 0.00402	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 02/08/24 04:50	Dil Fac
Method: SW846 8015 NM - Diese Analyte	•	ics (DRO) (	GC)	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9		49.9	mg/Kg			02/12/24 21:32	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)	<49.9	U	49.9	mg/Kg		01/30/24 14:46	02/12/24 21:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/30/24 14:46	02/12/24 21:32	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/30/24 14:46	02/12/24 21:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
o-Terphenyl	201	S1+	70 - 130			01/30/24 14:46	02/12/24 21:32	1

Matrix: Solid

Lab Sample ID: 890-6044-9

### **Client Sample Results**

Client: Ensolum Job ID: 890-6044-1 Project/Site: Corral Canyon Expansion Battery SDG: 03C1558299

**Client Sample ID: FS09** 

Date Collected: 01/25/24 12:10 Date Received: 01/26/24 15:36

Sample Depth: 1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	185		5.05	mg/Kg			02/03/24 13:34	1	

**Client Sample ID: SW01** Lab Sample ID: 890-6044-10 **Matrix: Solid** 

Date Collected: 01/25/24 12:15 Date Received: 01/26/24 15:36

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/05/24 14:05	02/08/24 05:10	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/05/24 14:05	02/08/24 05:10	1
Ethylbenzene	<0.00200	U *+	0.00200	mg/Kg		02/05/24 14:05	02/08/24 05:10	1
m-Xylene & p-Xylene	<0.00401	U *+	0.00401	mg/Kg		02/05/24 14:05	02/08/24 05:10	1
o-Xylene	<0.00200	U *+	0.00200	mg/Kg		02/05/24 14:05	02/08/24 05:10	1
Xylenes, Total	<0.00401	U *+	0.00401	mg/Kg		02/05/24 14:05	02/08/24 05:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76		70 - 130			02/05/24 14:05	02/08/24 05:10	1
1,4-Difluorobenzene (Surr)	81		70 - 130			02/05/24 14:05	02/08/24 05:10	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			02/08/24 05:10	1
ì	_ _								

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			02/12/24 21:52	1

Method: SW846 8015B NM - Dies		• •	. ,					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<49.7	U	49.7	mg/Kg		01/30/24 14:46	02/12/24 21:52	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		01/30/24 14:46	02/12/24 21:52	1
Oll Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		01/30/24 14:46	02/12/24 21:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
o-Terphenyl	198	S1+	70 - 130			01/30/24 14:46	02/12/24 21:52	1
1-Chlorooctane	169	S1+	70 - 130			01/30/24 14:46	02/12/24 21:52	1

- Chilor Goodane	700 07	70 - 700			0110012111.10	02722727.02	•
Method: EPA 300.0 - Anions, Ion Ch	romatography - Soluble						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	176	5.02	mg/Kg			02/03/24 13:39	1

**Client Sample ID: SW02** Lab Sample ID: 890-6044-11 **Matrix: Solid** 

Date Collected: 01/25/24 11:35 Date Received: 01/26/24 15:36

Sample Depth: 0-1

Method: SW846 8021B - Volatile	e Organic Comp	ounds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/05/24 14:05	02/08/24 05:31	1

Job ID: 890-6044-1 SDG: 03C1558299

Client: Ensolum Project/Site: Corral Canyon Expansion Battery

**Client Sample ID: SW02** Lab Sample ID: 890-6044-11 Date Collected: 01/25/24 11:35 Matrix: Solid

Date Received: 01/26/24 15:36

Sample Depth: 0-1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00199	U	0.00199	mg/Kg		02/05/24 14:05	02/08/24 05:31	1
Ethylbenzene	< 0.00199	U *+	0.00199	mg/Kg		02/05/24 14:05	02/08/24 05:31	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398	mg/Kg		02/05/24 14:05	02/08/24 05:31	1
o-Xylene	< 0.00199	U *+	0.00199	mg/Kg		02/05/24 14:05	02/08/24 05:31	1
Xylenes, Total	<0.00398	U *+	0.00398	mg/Kg		02/05/24 14:05	02/08/24 05:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	67	S1-	70 - 130			02/05/24 14:05	02/08/24 05:31	1
1,4-Difluorobenzene (Surr)	65	S1-	70 - 130			02/05/24 14:05	02/08/24 05:31	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/08/24 05:31	1
Total TPH	<50.4		50.4	mg/Kg			02/12/24 22:13	1
Method: SW846 8015B NM - Dies		INICS (DRO)  Qualifier	(GC)	Unit	D	Dranarad	Analyzad	Dil Fac
Analyte Gasoline Range Organics (GRO)			50.4	mg/Kg	— <del>-</del>	Prepared 01/30/24 14:46	Analyzed 02/12/24 22:13	Dii Fac
Diesel Range Organics (Over	<50.4 <50.4		50.4	mg/Kg		01/30/24 14:46	02/12/24 22:13	1
C10-C28)	<b>\30.4</b>	U	30.4	ilig/Kg		01/30/24 14.40	02/12/24 22.13	'
Oll Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg		01/30/24 14:46	02/12/24 22:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
o-Terphenyl	180	S1+	70 - 130			01/30/24 14:46	02/12/24 22:13	1
1-Chlorooctane	157	S1+	70 - 130			01/30/24 14:46	02/12/24 22:13	1
•								
Method: EPA 300.0 - Anions, Ion	Chromatograp	ohy - Solubl	e					
- -	• •	ohy - Solubl Qualifier	e RL	Unit	D	Prepared	Analyzed	Dil Fac

Released to Imaging: 5/9/2024 9:15:29 AM

# **Surrogate Summary**

Client: Ensolum Job ID: 890-6044-1 Project/Site: Corral Canyon Expansion Battery SDG: 03C1558299

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Re
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-6038-A-1-G MS	Matrix Spike	116	94	
890-6038-A-1-H MSD	Matrix Spike Duplicate	119	90	
890-6044-1	FS01	88	61 S1-	
890-6044-2	FS02	81	75	
890-6044-3	FS03	83	73	
890-6044-4	FS04	85	76	
890-6044-5	FS05	100	56 S1-	
890-6044-6	FS06	82	77	
890-6044-7	FS07	86	77	
890-6044-8	FS08	83	77	
890-6044-9	FS09	86	78	
890-6044-10	SW01	76	81	
890-6044-11	SW02	67 S1-	65 S1-	
LCS 880-72388/1-A	Lab Control Sample	133 S1+	90	
LCSD 880-72388/2-A	Lab Control Sample Dup	123	105	
MB 880-72368/5-A	Method Blank	75	78	
MB 880-72388/5-A	Method Blank	76	77	

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		OTPH1	1CO1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
90-6044-1	FS01	0 S1-	94	
90-6044-1 MS	FS01	87	88	
90-6044-1 MSD	FS01	70	71	
90-6044-2	FS02	93	84	
90-6044-3	FS03	206 S1+	179 S1+	
90-6044-4	FS04	203 S1+	173 S1+	
90-6044-5	FS05	196 S1+	170 S1+	
90-6044-6	FS06	194 S1+	168 S1+	
90-6044-7	FS07	182 S1+	159 S1+	
90-6044-8	FS08	80	73	
90-6044-9	FS09	201 S1+	175 S1+	
90-6044-10	SW01	198 S1+	169 S1+	
90-6044-11	SW02	180 S1+	157 S1+	
CS 870-17960/1-A	Lab Control Sample	114	123	
.CSD 870-17960/2-A	Lab Control Sample Dup	110	118	
IB 870-17960/3-A	Method Blank	108	101	

OTPH = o-Terphenyl

1CO = 1-Chlorooctane

Client: Ensolum Job ID: 890-6044-1 SDG: 03C1558299 Project/Site: Corral Canyon Expansion Battery

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-72368/5-A

**Matrix: Solid** 

Analysis Batch: 72529

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 72368

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/05/24 12:04	02/07/24 11:36	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/05/24 12:04	02/07/24 11:36	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/05/24 12:04	02/07/24 11:36	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/05/24 12:04	02/07/24 11:36	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/05/24 12:04	02/07/24 11:36	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/05/24 12:04	02/07/24 11:36	1

MB MB

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	75		70 - 130
1,4-Difluorobenzene (Surr)	78		70 - 130

Dil Fac Analyzed 02/05/24 12:04 02/07/24 11:36 02/05/24 12:04 02/07/24 11:36

Prepared

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

Prep Batch: 72388

Lab Sample ID: MB 880-72388/5-A

Matrix: Solid

Analysis Batch: 72529

MB MB

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/05/24 14:05	02/07/24 23:01	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/05/24 14:05	02/07/24 23:01	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/05/24 14:05	02/07/24 23:01	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/05/24 14:05	02/07/24 23:01	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/05/24 14:05	02/07/24 23:01	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/05/24 14:05	02/07/24 23:01	1

MB MB

Surrogate	%Recovery	Qualifier Lin	imits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76	70	0 - 130	02/05/24 14:05	02/07/24 23:01	1
1,4-Difluorobenzene (Surr)	77	70	) <sub>-</sub> 130	02/05/24 14:05	02/07/24 23:01	1

Lab Sample ID: LCS 880-72388/1-A

**Matrix: Solid** 

**Analysis Batch: 72529** 

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

Client Sample ID: Lab Control Sample Dup

Prep Batch: 72388

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1175		mg/Kg		117	70 - 130	
Toluene	0.100	0.1154		mg/Kg		115	70 - 130	
Ethylbenzene	0.100	0.1542	*+	mg/Kg		154	70 - 130	
m-Xylene & p-Xylene	0.200	0.2975	*+	mg/Kg		149	70 - 130	
o-Xylene	0.100	0.1450	*+	mg/Kg		145	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

Lab Sample ID: LCSD 880-72388/2-A

**Matrix: Solid** 

**Analysis Batch: 72529** 

						Prep Type: Total/NA					
						Prep	Prep Batch: 72388				
Spike	LCSD	LCSD				%Rec		RPD			
Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit			

Analyte Benzene 0.100 0.1052 mg/Kg 105 70 - 130

Client: Ensolum Job ID: 890-6044-1 Project/Site: Corral Canyon Expansion Battery SDG: 03C1558299

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

Lab Sample ID: LCSD 880-72388/2-A

**Matrix: Solid** 

Analysis Batch: 72529

Client	Sample	ID:	Lab	Control	Sample	Dup

Prep Type: Total/NA

Prep Batch: 72388

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.1142		mg/Kg		114	70 - 130	1	35
Ethylbenzene	0.100	0.1353	*+	mg/Kg		135	70 - 130	13	35
m-Xylene & p-Xylene	0.200	0.2586		mg/Kg		129	70 - 130	14	35
o-Xylene	0.100	0.1265		mg/Kg		126	70 - 130	14	35
0-Aylene	0.100	0.1203		mg/rtg		120	10 - 130	14	33

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	123		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 890-6038-A-1-G MS Client Sample ID: Matrix Spike

**Matrix: Solid** 

Analysis Batch: 72529

Prep Type: Total/NA
Prep Batch: 72388

%Rec

MS MS Sample Sample Spike Result Qualifier Analyte Added Result Qualifier Unit %Rec Limits Benzene <0.00200 0.0996 0.08573 86 mg/Kg 70 - 130 Toluene <0.00200 U 0.0996 0.09654 97 70 - 130 mg/Kg Ethylbenzene <0.00200 U\*+ 0.0996 0.1129 70 - 130 mg/Kg 113 m-Xylene & p-Xylene <0.00401 U\*+ 0.199 0.2151 108 70 - 130 mg/Kg o-Xylene <0.00200 U\*+ 0.0996 0.1044 mg/Kg 105 70 - 130

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	116	70 - 130
1,4-Difluorobenzene (Surr)	94	70 - 130

Lab Sample ID: 890-6038-A-1-H MSD Client Sample ID: Matrix Spike Duplicate

**Matrix: Solid** 

Analysis Batch: 72529

Prep Type: Total/NA Prep Batch: 72388

-	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	0.08704		mg/Kg		88	70 - 130	2	35
Toluene	<0.00200	U	0.0990	0.09959		mg/Kg		101	70 - 130	3	35
Ethylbenzene	<0.00200	U *+	0.0990	0.1186		mg/Kg		120	70 - 130	5	35
m-Xylene & p-Xylene	<0.00401	U *+	0.198	0.2248		mg/Kg		114	70 - 130	4	35
o-Xylene	<0.00200	U *+	0.0990	0.1095		mg/Kg		111	70 - 130	5	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

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

Lab Sample ID: MB 870-17960/3-A

**Matrix: Solid** 

Analysis Batch: 17706

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

Prep Batch: 17960

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	<50.0	U	50.0	mg/Kg		01/30/24 14:46	02/03/24 17:12	1

Client: Ensolum Job ID: 890-6044-1 Project/Site: Corral Canyon Expansion Battery SDG: 03C1558299

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

MB MB

Client Sample ID: Method Blank Lab Sample ID: MB 870-17960/3-A **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 17706

Prep Batch: 17960

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		01/30/24 14:46	02/03/24 17:12	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/30/24 14:46	02/03/24 17:12	1

	IND IND				
Surrogate	%Recovery Qualif	fier Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	108	70 - 130	01/30/24 14:46	02/03/24 17:12	1
1-Chlorooctane	101	70 - 130	01/30/24 14:46	02/03/24 17:12	1

**Client Sample ID: Lab Control Sample** 

Lab Sample ID: LCS 870-17960/1-A **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 17988 Prep Batch: 17960

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)	1020	1171		mg/Kg		115	70 - 130	
Diesel Range Organics (Over	1010	1092		mg/Kg		108	70 - 130	
C10-C28)								

LCS LCS Surrogate %Recovery Qualifier Limits o-Terphenyl 114 70 - 130 1-Chlorooctane 123 70 - 130

Lab Sample ID: LCSD 870-17960/2-A

Surrogate

o-Terphenyl

Client Sample ID: Lab Control Sample Dup

**Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 17988** 

Prep Batch: 17960

-	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)	1020	1106		mg/Kg		109	70 - 130	6	20
Diesel Range Organics (Over	1010	1163		mg/Kg		115	70 - 130	6	20
C10-C28)									

LCSD LCSD %Recovery Qualifier Limits 110 70 - 130 1-Chlorooctane 70 - 130 118

Lab Sample ID: 890-6044-1 MS **Client Sample ID: FS01 Matrix: Solid** 

Prep Type: Total/NA Analysis Batch: 17706 Prep Batch: 17960

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Unit %Rec Limits 1020 Gasoline Range Organics (GRO) <49.8 U F1 652.6 F1 64 70 - 130 mg/Kg Diesel Range Organics (Over 104 F1 F2 1010 889.9 mg/Kg 78 70 - 130 C10-C28)

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
o-Terphenyl	87		70 - 130
1-Chlorooctane	88		70 - 130

Job ID: 890-6044-1 Client: Ensolum Project/Site: Corral Canyon Expansion Battery SDG: 03C1558299

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

Lab Sample ID: 890-6044-1 MSD **Client Sample ID: FS01** 

**Matrix: Solid** 

Analysis Batch: 17706

Prep Type: Total/NA Prep Batch: 17960

Client Sample ID: Lab Control Sample Dup

**Prep Type: Soluble** 

Spike MSD MSD RPD Sample Sample Added RPD Limit Analyte Result Qualifier Result Qualifier Unit %Rec Limits Gasoline Range Organics (GRO) <49.8 UF1 1020 608.6 F1 mg/Kg 60 70 - 130 7 20 Diesel Range Organics (Over 104 F1 F2 1010 720.1 F1 F2 mg/Kg 61 70 - 130 21 20

C10-C28)

MSD MSD %Recovery Surrogate Qualifier Limits 70 - 130 o-Terphenyl 70 1-Chlorooctane 71 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-71956/1-A Client Sample ID: Method Blank **Prep Type: Soluble** 

**Matrix: Solid** 

**Analysis Batch: 72172** 

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Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac 5.00 Chloride <5.00 U mg/Kg 02/03/24 15:31

Lab Sample ID: LCS 880-71956/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 72172** 

LCS LCS Spike %Rec babbA Analyte Result Qualifier Limits Unit %Rec Chloride 250 273.0 mg/Kg 109 90 - 110

Lab Sample ID: LCSD 880-71956/3-A

**Matrix: Solid** 

**Analysis Batch: 72172** 

	Spike	LCSD LCSD				%Rec		RPD	
Analyte	Added	Result Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	266.7	mg/Kg		107	90 - 110	2	20	

Lab Sample ID: 890-6043-A-4-B MS Client Sample ID: Matrix Spike **Prep Type: Soluble** 

Matrix: Solid

**Analysis Batch: 72172** 

-	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	185		252	456.6		ma/Ka		108	90 - 110	

Lab Sample ID: 890-6043-A-4-C MSD Client Sample ID: Matrix Spike Duplicate **Prep Type: Soluble** 

**Matrix: Solid** 

Analysis Batch: 72172

Analysis batch: 72172											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	185		252	454.7		ma/Ka		107	90 - 110		20

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

**Prep Type: Soluble** 

**Prep Type: Soluble** 

**Prep Type: Soluble** 

**Client Sample ID: FS06** 

Client Sample ID: FS06

**Prep Type: Soluble** 

**Prep Type: Soluble** 

## **QC Sample Results**

Client: Ensolum Job ID: 890-6044-1
Project/Site: Corral Canyon Expansion Battery SDG: 03C1558299

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 880-71957/1-A

Matrix: Solid

Analysis Batch: 72174

MB MB

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 mg/Kg
 02/03/24 12:55
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Lab Sample ID: LCS 880-71957/2-A

Matrix: Solid

Analysis Batch: 72174

Spike LCS LCS %Rec Added %Rec Analyte Result Qualifier Unit D Limits Chloride 250 240.7 mg/Kg 96 90 - 110

Lab Sample ID: LCSD 880-71957/3-A

Matrix: Solid

**Analysis Batch: 72174** 

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 250 244.5 98 mg/Kg 90 - 110

Lab Sample ID: 890-6044-6 MS

Matrix: Solid

**Analysis Batch: 72174** 

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added Qualifier Unit %Rec Result Limits Chloride 191 250 435.0 98 90 - 110 mg/Kg

Lab Sample ID: 890-6044-6 MSD

Matrix: Solid

Analysis Batch: 72174

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit 250 Chloride 191 435.8 mg/Kg 98 90 - 110 0 20

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Client: Ensolum Job ID: 890-6044-1
Project/Site: Corral Canyon Expansion Battery SDG: 03C1558299

**GC VOA** 

Prep Batch: 72368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-72368/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 72388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-6044-1	FS01	Total/NA	Solid	5035	
890-6044-2	FS02	Total/NA	Solid	5035	
890-6044-3	FS03	Total/NA	Solid	5035	
890-6044-4	FS04	Total/NA	Solid	5035	
890-6044-5	FS05	Total/NA	Solid	5035	
890-6044-6	FS06	Total/NA	Solid	5035	
890-6044-7	FS07	Total/NA	Solid	5035	
890-6044-8	FS08	Total/NA	Solid	5035	
890-6044-9	FS09	Total/NA	Solid	5035	
890-6044-10	SW01	Total/NA	Solid	5035	
890-6044-11	SW02	Total/NA	Solid	5035	
MB 880-72388/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-72388/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-72388/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-6038-A-1-G MS	Matrix Spike	Total/NA	Solid	5035	
890-6038-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 72529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6044-1	FS01	Total/NA	Solid	8021B	72388
890-6044-2	FS02	Total/NA	Solid	8021B	72388
890-6044-3	FS03	Total/NA	Solid	8021B	72388
890-6044-4	FS04	Total/NA	Solid	8021B	72388
890-6044-5	FS05	Total/NA	Solid	8021B	72388
890-6044-6	FS06	Total/NA	Solid	8021B	72388
890-6044-7	FS07	Total/NA	Solid	8021B	72388
890-6044-8	FS08	Total/NA	Solid	8021B	72388
890-6044-9	FS09	Total/NA	Solid	8021B	72388
890-6044-10	SW01	Total/NA	Solid	8021B	72388
890-6044-11	SW02	Total/NA	Solid	8021B	72388
MB 880-72368/5-A	Method Blank	Total/NA	Solid	8021B	72368
MB 880-72388/5-A	Method Blank	Total/NA	Solid	8021B	72388
LCS 880-72388/1-A	Lab Control Sample	Total/NA	Solid	8021B	72388
LCSD 880-72388/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	72388
890-6038-A-1-G MS	Matrix Spike	Total/NA	Solid	8021B	72388
890-6038-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	72388

Analysis Batch: 72683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6044-1	FS01	Total/NA	Solid	Total BTEX	- <del></del>
890-6044-2	FS02	Total/NA	Solid	Total BTEX	
890-6044-3	FS03	Total/NA	Solid	Total BTEX	
890-6044-4	FS04	Total/NA	Solid	Total BTEX	
890-6044-5	FS05	Total/NA	Solid	Total BTEX	
890-6044-6	FS06	Total/NA	Solid	Total BTEX	
890-6044-7	FS07	Total/NA	Solid	Total BTEX	
890-6044-8	FS08	Total/NA	Solid	Total BTEX	

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Client: Ensolum Job ID: 890-6044-1 Project/Site: Corral Canyon Expansion Battery SDG: 03C1558299

**GC VOA (Continued)** 

#### **Analysis Batch: 72683 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6044-9	FS09	Total/NA	Solid	Total BTEX	
890-6044-10	SW01	Total/NA	Solid	Total BTEX	
890-6044-11	SW02	Total/NA	Solid	Total BTEX	

#### **GC Semi VOA**

#### Analysis Batch: 17706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6044-1	FS01	Total/NA	Solid	8015B NM	17960
890-6044-2	FS02	Total/NA	Solid	8015B NM	17960
890-6044-8	FS08	Total/NA	Solid	8015B NM	17960
MB 870-17960/3-A	Method Blank	Total/NA	Solid	8015B NM	17960
890-6044-1 MS	FS01	Total/NA	Solid	8015B NM	17960
890-6044-1 MSD	FS01	Total/NA	Solid	8015B NM	17960

#### Prep Batch: 17960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6044-1	FS01	Total/NA	Solid	8015NM Prep	
890-6044-2	FS02	Total/NA	Solid	8015NM Prep	
890-6044-3	FS03	Total/NA	Solid	8015NM Prep	
890-6044-4	FS04	Total/NA	Solid	8015NM Prep	
890-6044-5	FS05	Total/NA	Solid	8015NM Prep	
890-6044-6	FS06	Total/NA	Solid	8015NM Prep	
890-6044-7	FS07	Total/NA	Solid	8015NM Prep	
890-6044-8	FS08	Total/NA	Solid	8015NM Prep	
890-6044-9	FS09	Total/NA	Solid	8015NM Prep	
890-6044-10	SW01	Total/NA	Solid	8015NM Prep	
890-6044-11	SW02	Total/NA	Solid	8015NM Prep	
MB 870-17960/3-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 870-17960/1-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 870-17960/2-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-6044-1 MS	FS01	Total/NA	Solid	8015NM Prep	
890-6044-1 MSD	FS01	Total/NA	Solid	8015NM Prep	

#### Analysis Batch: 17988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6044-3	FS03	Total/NA	Solid	8015B NM	17960
890-6044-4	FS04	Total/NA	Solid	8015B NM	17960
890-6044-5	FS05	Total/NA	Solid	8015B NM	17960
890-6044-6	FS06	Total/NA	Solid	8015B NM	17960
890-6044-7	FS07	Total/NA	Solid	8015B NM	17960
890-6044-9	FS09	Total/NA	Solid	8015B NM	17960
890-6044-10	SW01	Total/NA	Solid	8015B NM	17960
890-6044-11	SW02	Total/NA	Solid	8015B NM	17960
LCS 870-17960/1-A	Lab Control Sample	Total/NA	Solid	8015B NM	17960
LCSD 870-17960/2-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	17960

#### Analysis Batch: 18036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6044-1	FS01	Total/NA	Solid	8015 NM	
890-6044-2	FS02	Total/NA	Solid	8015 NM	

Client: Ensolum Job ID: 890-6044-1
Project/Site: Corral Canyon Expansion Battery SDG: 03C1558299

GC Semi VOA (Continued)

#### **Analysis Batch: 18036 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6044-3	FS03	Total/NA	Solid	8015 NM	
890-6044-4	FS04	Total/NA	Solid	8015 NM	
890-6044-5	FS05	Total/NA	Solid	8015 NM	
890-6044-6	FS06	Total/NA	Solid	8015 NM	
890-6044-7	FS07	Total/NA	Solid	8015 NM	
890-6044-8	FS08	Total/NA	Solid	8015 NM	
890-6044-9	FS09	Total/NA	Solid	8015 NM	
890-6044-10	SW01	Total/NA	Solid	8015 NM	
890-6044-11	SW02	Total/NA	Solid	8015 NM	

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#### Leach Batch: 71956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-6044-1	FS01	Soluble	Solid	DI Leach	
890-6044-2	FS02	Soluble	Solid	DI Leach	
890-6044-3	FS03	Soluble	Solid	DI Leach	
890-6044-4	FS04	Soluble	Solid	DI Leach	
890-6044-5	FS05	Soluble	Solid	DI Leach	
MB 880-71956/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-71956/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-71956/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-6043-A-4-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-6043-A-4-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 71957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6044-6	FS06	Soluble	Solid	DI Leach	_
890-6044-7	FS07	Soluble	Solid	DI Leach	
890-6044-8	FS08	Soluble	Solid	DI Leach	
890-6044-9	FS09	Soluble	Solid	DI Leach	
890-6044-10	SW01	Soluble	Solid	DI Leach	
890-6044-11	SW02	Soluble	Solid	DI Leach	
MB 880-71957/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-71957/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-71957/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-6044-6 MS	FS06	Soluble	Solid	DI Leach	
890-6044-6 MSD	FS06	Soluble	Solid	DI Leach	

Analysis Batch: 72172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6044-1	FS01	Soluble	Solid	300.0	71956
890-6044-2	FS02	Soluble	Solid	300.0	71956
890-6044-3	FS03	Soluble	Solid	300.0	71956
890-6044-4	FS04	Soluble	Solid	300.0	71956
890-6044-5	FS05	Soluble	Solid	300.0	71956
MB 880-71956/1-A	Method Blank	Soluble	Solid	300.0	71956
LCS 880-71956/2-A	Lab Control Sample	Soluble	Solid	300.0	71956
LCSD 880-71956/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	71956
890-6043-A-4-B MS	Matrix Spike	Soluble	Solid	300.0	71956
890-6043-A-4-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	71956

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Client: Ensolum
Project/Site: Corral Canyon Expansion Battery
SDG: 03C1558299

#### HPLC/IC

#### Analysis Batch: 72174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6044-6	FS06	Soluble	Solid	300.0	71957
890-6044-7	FS07	Soluble	Solid	300.0	71957
890-6044-8	FS08	Soluble	Solid	300.0	71957
890-6044-9	FS09	Soluble	Solid	300.0	71957
890-6044-10	SW01	Soluble	Solid	300.0	71957
890-6044-11	SW02	Soluble	Solid	300.0	71957
MB 880-71957/1-A	Method Blank	Soluble	Solid	300.0	71957
LCS 880-71957/2-A	Lab Control Sample	Soluble	Solid	300.0	71957
LCSD 880-71957/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	71957
890-6044-6 MS	FS06	Soluble	Solid	300.0	71957
890-6044-6 MSD	ES06	Soluble	Solid	300.0	71957

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SDG: 03C1558299

Project/Site: Corral Canyon Expansion Battery

Lab Sample ID: 890-6044-1

**Client Sample ID: FS01** 

Client: Ensolum

Matrix: Solid

Date Collected: 01/25/24 11:15 Date Received: 01/26/24 15:36

	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	72388	02/05/24 14:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72529	02/08/24 01:05	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			72683	02/08/24 01:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			18036	02/03/24 18:26	CC	EET DAL
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	17960	01/30/24 14:46	WP	EET DAL
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	17706	02/03/24 18:26	WP	EET DAL
Soluble	Leach	DI Leach			5.03 g	50 mL	71956	01/30/24 14:18	SMC	EET MID
Soluble	Analysis	300.0		1			72172	02/03/24 18:28	CH	EET MID

**Client Sample ID: FS02** Lab Sample ID: 890-6044-2

Date Collected: 01/25/24 11:20

Matrix: Solid

Date Received: 01/26/24 15:36

	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	72388	02/05/24 14:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72529	02/08/24 01:25	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			72683	02/08/24 01:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			18036	02/03/24 19:30	CC	EET DAL
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	17960	01/30/24 14:46	WP	EET DAL
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	17706	02/03/24 19:30	WP	EET DAL
Soluble	Leach	DI Leach			5.05 g	50 mL	71956	01/30/24 14:18	SMC	EET MID
Soluble	Analysis	300.0		1			72172	02/03/24 18:35	CH	EET MID

**Client Sample ID: FS03** Lab Sample ID: 890-6044-3

Date Collected: 01/25/24 11:25 Date Received: 01/26/24 15:36 **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	72388	02/05/24 14:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72529	02/08/24 01:46	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			72683	02/08/24 01:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			18036	02/12/24 19:48	CC	EET DAL
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	17960	01/30/24 14:46	WP	EET DAL
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	17988	02/12/24 19:48	WP	EET DAL
Soluble	Leach	DI Leach			5.04 g	50 mL	71956	01/30/24 14:18	SMC	EET MID
Soluble	Analysis	300.0		1			72172	02/03/24 18:41	CH	EET MID

**Client Sample ID: FS04** Lab Sample ID: 890-6044-4

Date Collected: 01/25/24 11:30 Date Received: 01/26/24 15:36

	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	72388	02/05/24 14:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72529	02/08/24 02:06	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			72683	02/08/24 02:06	SM	EET MID

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**Matrix: Solid** 

Project/Site: Corral Canyon Expansion Battery

SDG: 03C1558299

**Client Sample ID: FS04** 

Client: Ensolum

Date Collected: 01/25/24 11:30 Date Received: 01/26/24 15:36 Lab Sample ID: 890-6044-4

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			18036	02/12/24 20:09	CC	EET DAL
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	17960	01/30/24 14:46	WP	EET DAL
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	17988	02/12/24 20:09	WP	EET DAL
Soluble	Leach	DI Leach			5.05 g	50 mL	71956	01/30/24 14:18	SMC	EET MID
Soluble	Analysis	300.0		1			72172	02/03/24 18:48	CH	EET MID

**Client Sample ID: FS05** Lab Sample ID: 890-6044-5 Date Collected: 01/25/24 11:40

Date Received: 01/26/24 15:36

**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	72388	02/05/24 14:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72529	02/08/24 02:26	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			72683	02/08/24 02:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			18036	02/12/24 20:30	CC	EET DAL
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	17960	01/30/24 14:46	WP	EET DAL
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	17988	02/12/24 20:30	WP	EET DAL
Soluble	Leach	DI Leach			4.98 g	50 mL	71956	01/30/24 14:18	SMC	EET MID
Soluble	Analysis	300.0		1			72172	02/03/24 18:55	CH	EET MID

**Client Sample ID: FS06** Lab Sample ID: 890-6044-6

Date Collected: 01/25/24 11:45 Date Received: 01/26/24 15:36 **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			5.02 g	5 mL	72388	02/05/24 14:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72529	02/08/24 03:49	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			72683	02/08/24 03:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			18036	02/12/24 20:50	CC	EET DAL
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	17960	01/30/24 14:46	WP	EET DAL
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	17988	02/12/24 20:50	WP	EET DAL
Soluble	Leach	DI Leach			5.00 g	50 mL	71957	01/30/24 14:22	SMC	EET MID
Soluble	Analysis	300.0		1			72174	02/03/24 13:10	CH	EET MID

**Client Sample ID: FS07** Lab Sample ID: 890-6044-7

Date Collected: 01/25/24 11:50 Date Received: 01/26/24 15:36

	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	72388	02/05/24 14:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72529	02/08/24 04:09	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			72683	02/08/24 04:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			18036	02/12/24 21:11	CC	EET DAL
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	17960	01/30/24 14:46	WP	EET DAL
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	17988	02/12/24 21:11	WP	EET DAL

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**Matrix: Solid** 

Date Received: 01/26/24 15:36

Client: Ensolum

Job ID: 890-6044-1

Project/Site: Corral Canyon Expansion Battery SDG: 03C1558299

**Client Sample ID: FS07** Lab Sample ID: 890-6044-7 Date Collected: 01/25/24 11:50

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Soluble DI Leach 71957 SMC Leach 4.96 g 50 mL 01/30/24 14:22 EET MID 300.0 02/03/24 13:24 Soluble Analysis 1 72174 СН **EET MID** 

Client Sample ID: FS08 Lab Sample ID: 890-6044-8

Date Collected: 01/25/24 11:55 Matrix: Solid

Date Received: 01/26/24 15:36

	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	72388	02/05/24 14:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72529	02/08/24 04:30	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			72683	02/08/24 04:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			18036	02/03/24 21:34	CC	EET DAL
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	17960	01/30/24 14:46	WP	EET DAL
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	17706	02/03/24 21:34	WP	EET DAL
Soluble	Leach	DI Leach			4.95 g	50 mL	71957	01/30/24 14:22	SMC	EET MID
Soluble	Analysis	300.0		1			72174	02/03/24 13:29	CH	EET MID

**Client Sample ID: FS09** Lab Sample ID: 890-6044-9

Date Collected: 01/25/24 12:10 **Matrix: Solid** Date Received: 01/26/24 15:36

	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	72388	02/05/24 14:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72529	02/08/24 04:50	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			72683	02/08/24 04:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			18036	02/12/24 21:32	CC	EET DAL
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	17960	01/30/24 14:46	WP	EET DAL
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	17988	02/12/24 21:32	WP	EET DAL
Soluble	Leach	DI Leach			4.95 g	50 mL	71957	01/30/24 14:22	SMC	EET MID
Soluble	Analysis	300.0		1			72174	02/03/24 13:34	CH	EET MID

**Client Sample ID: SW01** Lab Sample ID: 890-6044-10

Date Collected: 01/25/24 12:15 **Matrix: Solid** Date Received: 01/26/24 15:36

	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	72388	02/05/24 14:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72529	02/08/24 05:10	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			72683	02/08/24 05:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			18036	02/12/24 21:52	CC	EET DAL
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	17960	01/30/24 14:46	WP	EET DAL
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	17988	02/12/24 21:52	WP	EET DAL
Soluble	Leach	DI Leach			4.98 g	50 mL	71957	01/30/24 14:22	SMC	EET MID
Soluble	Analysis	300.0		1			72174	02/03/24 13:39	CH	EET MID

#### Lab Chronicle

Client: EnsolumJob ID: 890-6044-1Project/Site: Corral Canyon Expansion BatterySDG: 03C1558299

Client Sample ID: SW02 Lab Sample ID: 890-6044-11

Date Collected: 01/25/24 11:35

Date Received: 01/26/24 15:36

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			5.02 g	5 mL	72388	02/05/24 14:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72529	02/08/24 05:31	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			72683	02/08/24 05:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			18036	02/12/24 22:13	CC	EET DAL
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	17960	01/30/24 14:46	WP	EET DAL
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	17988	02/12/24 22:13	WP	EET DAL
Soluble	Leach	DI Leach			5.01 g	50 mL	71957	01/30/24 14:22	SMC	EET MID
Soluble	Analysis	300.0		1			72174	02/03/24 13:54	CH	EET MID

#### Laboratory References:

EET DAL = Eurofins Dallas, 9701 Harry Hines Blvd, Dallas, TX 75220, TEL (214)902-0300

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: 890-6044-1
Project/Site: Corral Canyon Expansion Battery SDG: 03C1558299

**Laboratory: Eurofins Dallas** 

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704295-23-34	06-30-24

**Laboratory: Eurofins Midland** 

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

Authority	Progra	am	Identification Number	<b>Expiration Date</b>
Texas	NELA	)	T104704400-23-26	06-30-24
The following analy	tes are included in this report, bu	it the laboratory is not certi	ified by the governing authority. This lis	t may include analytes
for which the agenc	y does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte	
Total BTEX		Solid	Total BTEX	

1

1

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#### **Method Summary**

Project/Site: Corral Canyon Expansion Battery

Job ID: 890-6044-1 Client: Ensolum SDG: 03C1558299

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 DAL
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET DAL
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET DAL
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 DAL = Eurofins Dallas, 9701 Harry Hines Blvd, Dallas, TX 75220, TEL (214)902-0300

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

# **Sample Summary**

Client: Ensolum

Project/Site: Corral Canyon Expansion Battery

Job ID: 890-6044-1

SDG: 03C1558299

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-6044-1	FS01	Solid	01/25/24 11:15	01/26/24 15:36	1
890-6044-2	FS02	Solid	01/25/24 11:20	01/26/24 15:36	1
890-6044-3	FS03	Solid	01/25/24 11:25	01/26/24 15:36	1
890-6044-4	FS04	Solid	01/25/24 11:30	01/26/24 15:36	1
890-6044-5	FS05	Solid	01/25/24 11:40	01/26/24 15:36	1
890-6044-6	FS06	Solid	01/25/24 11:45	01/26/24 15:36	1
890-6044-7	FS07	Solid	01/25/24 11:50	01/26/24 15:36	1
890-6044-8	FS08	Solid	01/25/24 11:55	01/26/24 15:36	1
890-6044-9	FS09	Solid	01/25/24 12:10	01/26/24 15:36	1
890-6044-10	SW01	Solid	01/25/24 12:15	01/26/24 15:36	1
890-6044-11	SW02	Solid	01/25/24 11:35	01/26/24 15:36	0-1

# Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Mildland, 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, Carisbad, NM (575) 988-3199

Environment Testing Xenco

💸 eurofins

Work Order No:

Project Manager:	Ben Belill			Bill to: (if different)	14mm	O House				
				DIII (O. (II diller	ent	Garrett Green	eeu		8	Work Order Comments
Company Name:	Ensolum			Company Name:	ne:	XTO Energy	gy		Program: UST/PST ☐ F	Program: UST/PST   PRP   Brownfields   RRC   Superfund
Address:	3122 National Parks Hwy	arks Hwy		Address:		3104 E. Green St	reen St.		State of Project:	
City, State ZIP:	Carlsbad, NM 88220	3220		City, State ZIP:	2.	Carlsbad, NM 88220	NM 8822	50	Reporting: Level II   Le	Reporting: Level II
Phone:	303-887-2946		Email:	Email: Garrett. Green@ExxonMobil.com	n@Exx	onMobil.c	om		Deliverables: EDD	ADaPT Other:
Project Name:	Corral Canyon E	Corral Canyon Expansion Battery		Turn Around				ANALYSIS REQUEST	REQUEST	Preservative Codes
Project Number:	03C1	03C1558299	✓ Routine	Rush	Pres.					CH referred ON
Project Location:			Due Date:							
Sampler's Name:	Connor	Connor Whitman	TAT starts th	AT starts the day received by						0
PO#:			the lab, if rec	the lab, if received by 4:30pm						
SAMPLE RECEIPT	PT Temp Blank:	nk: Yes No	Wet Ice:	Yes No	neter	(0				12504: 112 NAOH: NA
Samples Received Intact:	Yes	No Thermometer ID:	er ID:		we.	.000				H3PQ4: HP
Cooler Custody Seals:	Yes No	N/A Correction Factor	actor.		Pal	ν: 30				Nansod, Nabio
Sample Custody Seals:	Yes No	N/A Temperature Reading:	P. Roadino:			d3				N420203. N4003
Total Containere							(1			Zn Acetate+NaOH: Zn
oral containers.		Corrected	Corrected remperature:			-	208			NaOH+Ascorbic Acid: SAPC
Sample Identification		Matrix Sampled	Time	Depth Grab/	# of Cont	CHLOR	) ХЭТЕ			Sample Comments
SW02		1/2/24	1215	0-1 C	7	$\vdash$				Incident ID:
/										NAPP2330049344
	1									Cost Center:
						-				1056571001
		1	/	1		+				AFE:
				1		+				
				1	1	1	,			
						1	3/			
Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	0 200.8 / 6020: Metal(s) to be an		8RCRA 13PPM TCLP / SPLF	CLP / SPLP 6010: 8RCRA	Al Sb	As Ba B	Be Cd	Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K	b Mg Mn Mo Ni K Se Ag	Se Ag SiO <sub>2</sub> Na Sr Ti Sn U V Zn
Notice: Signature of this do of service. Eurofins Xenco of Eurofins Xenco. A minim	cument and relinquishr will be liable only for th um charge of \$85.00 w	nent of samples consi ie cost of samples and ill be applied to each I	titutes a valid purch I shall not assume project and a charg	hase order from cl any responsibility te of \$5 for each s	ent comp for any lo ample sub	any to Eurofi sses or exper mitted to Eur	ns Xenco, i nses incurr ofins Xenc	Its affiliates and subcontractors ed by the client if such losses : o, but not analyzed. These term	ns and co beyond th previously	19: 1001 240.1714/0 1 44/1 dditions e control
Relinquished by: (Signature)	(Signature)	Received by	d by: (Signature)	re)		Date/Time		Relinquished by: (Signature)	ature) Received by	Received by: (Signature)
1 Cottle							2			
8							4			
							1			

Midland, TX 79701

1211 W. Florida Ave **Eurofins Midland** 

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# Chain of Custody Record

: eurofins

**Environment Testing** 

State, Zip TX, 75220 Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, Possible Hazard Identification Corral Canyon Expansion Battery Phone: 432-704-5440 Empty Kit Relinquished by FS04 (890-6044-4) Sample Identification - Client ID (Lab ID) 214-902-0300(Tel) 9701 Harry Hines Blvd, Eurofins Environment Testing South Centr Client Information Relinquished by: Relinquished by Deliverable Requested: I, II, III, IV, Other (specify) <sup>-</sup>S07 (890-6044-7) -S06 (890-6044-6) =S05 (890-6044-5) S03 (890-6044-3) S02 (890-6044-2) S01 (890-6044-1) Shipping/Receiving telinquished by: S09 (890-6044-9) :S08 (890-6044-8) oject Name: Custody Seals Intact: Yes No (Sub Contract Lab) Custody Seal No. Project #: 89000093 Date/Time: WO# Due Date Requested: 2/1/2024 Sampler Phone Primary Deliverable Rank: 2 TAT Requested (days): Sample Date 1/25/24 1/25/24 1/25/24 1/25/24 1/25/24 1/25/24 1/25/24 1/25/24 1/25/24 Date: Mountain 12:10 Mountain 11:55 Mountain 11:50 Mountain 11:45 Mountain 11:40 Mountain 11:30 Mountain 11:25 Mountain 11:20 Mountain Sample 11:15 2 G=grab) (C=comp Sample Type Preservation Code: Company Company Company Matrix Solid Solid Solid Solid Solid Solid Solid Solid Solid E-Mail: Lab PM: Kramer, Jessica Jessica.Kramer@et.eurofinsus.com Time: Field Filtered Sample (Yes or No) **NELAP - Texas** ccreditations Required (See note) Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For \_\_\_\_\_ Month Perform MS/MSD (Yes or No) Special Instructions/QC Requirements Cooler Temperature(s) °C and Other Remarks Received by Received by Received by: × × × × × 8015MOD\_Calc × × × × 8015MOD\_NM/8015NM\_S\_Prep × × × × × × × × Analysis Requested State of Origin: New Mexico Carrier Tracking No(s): Method of Shipment Date/Time TO COLOR **Total Number of containers** ---.... ш. \_ A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid J - Ice J - DI Water K - EDTA COC No: 880-9089.1 L-EDA Preservation Codes: 890-6044-1 age 1 of 2 Special Instructions/Note: 432 Y - Trizma Z - other (specify) N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4 V - MCAA W - pH 4-5 T - TSP Dodecahydrate Company Company Ver: 06/08/2021 Company Months

**Eurofins Midland** 

Dallas

# Chain of Custody Record

I211 W. Florida Ave Midland, TX 79701	Chain of Custody Record	/ Record		eurofins Environment Testing
Phone: 432-704-5440	Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:
Client Information (Sub Contract Lab)		Kramer, Jessica		880-9089.2
Dient Contact:	Phone:	E-Mail:	State of Origin:	Page
Shipping/Receiving		Jessica.Kramer@et.eurofinsus.com	New Mexico	Page 2 of 2
company:		Accreditations Required (See note):		Job#:
urofins Environment Testing South Centr		NELAP - lexas		890-6044-1
oddress:	Due Date Requested:	Analysis Ro	oriested	M - Hexane
3701 Harry Hines Blvd,	2/1/2024	Analysis A	/sis requesied	A - HCL WI - Dexalle

Midland, TX 79701 Phone: 432-704-544 Empty Kit Relinquished by Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, State, Zip: TX, 75220 Possible Hazard Identification SW01 (890-6044-10) Corral Canyon Expansion Battery Eurofins Environm Shipping/Receiving Deliverable Requested: I, II, III, IV, Other (specify) SW02 (890-6044-11) 214-902-0300(Tel) Relinquished by: Sample Identification - Client ID (Lab ID) 9701 Harry Hines I elinquished by: elinquished by: Client Informat nconfirmed Custody Seals Intact: oject Name: Yes No Custody Seal No. Project #: 89000093 Date/Time: WO# Primary Deliverable Rank: 2 SOW# FAT Requested (days): Sample Date 1/25/24 1/25/24 Mountain 11:35 Date Mountain Sample 12:15 G=grab) (C=comp, Sample 232 Preservation Code: Type Company Company Company Matrix Solid Solid Time Field Filtered Sample (Yes or No) Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month) Perform MS/MSD (Yes or No) Special Instructions/QC Requirements Received by: Cooler Temperature(s) °C and Other Remarks: Received by: Received by: × × 8015MOD\_Calc Return To Client 8015MOD\_NM/8015NM\_S\_Prep × × Disposal By Lab Method of Shipment Archive For Total Number of containers B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid J - Ice J - DI Water K - EDTA L - EDA Special Instructions/Note: N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate U - Acetone
V - MCAA
W - pH 4-5
Y - Trizma Z - other (specify) Company Ver: 06/08/2021 ompany Months

# **Login Sample Receipt Checklist**

Client: Ensolum Job Number: 890-6044-1 SDG Number: 03C1558299

Login Number: 6044 List Source: Eurofins Carlsbad

List Number: 1

Creator: Lopez, Abraham

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

# **Login Sample Receipt Checklist**

Client: Ensolum

Job Number: 890-6044-1 SDG Number: 03C1558299

Login Number: 6044 **List Source: Eurofins Dallas** List Number: 3

List Creation: 02/02/24 12:43 PM

Creator: Dabinett, Ian

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	
OC is present.	True	
OC is filled out in ink and legible.	True	
OC is filled out with all pertinent information.	False	COC not relinquished.
the Field Sampler's name present on COC?	N/A	
ere are no discrepancies between the containers received and the COC.	True	
mples are received within Holding Time (excluding tests with immediate s)	True	
imple containers have legible labels.	True	
ontainers are not broken or leaking.	True	
mple collection date/times are provided.	True	
propriate sample containers are used.	True	
mple bottles are completely filled.	True	
mple Preservation Verified.	True	
ere is sufficient vol. for all requested analyses, incl. any requested s/MSDs	True	
ontainers requiring zero headspace have no headspace or bubble is	N/A	

Released to Imaging: 5/9/2024 9:15:29 AM

<6mm (1/4").

# **Login Sample Receipt Checklist**

Client: Ensolum Job Number: 890-6044-1 SDG Number: 03C1558299

**List Source: Eurofins Midland** 

List Number: 2 Creator: Rodriguez, Leticia

Login Number: 6044

List Creation: 01/30/24 10:34 AM

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

**Environment Testing** 

# **ANALYTICAL REPORT**

# PREPARED FOR

Attn: Ben Belill

Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 3/4/2024 8:26:45 PM Revision 1

# **JOB DESCRIPTION**

CORRAL CANYON EXPANSION BATTERY 03C1558299

# **JOB NUMBER**

890-6228-1

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 3/4/2024 8:26:45 PM Revision 1

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

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

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Client: Ensolum Project/Site: CORRAL CANYON EXPANSION BATTERY Laboratory Job ID: 890-6228-1 SDG: 03C1558299

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# **Definitions/Glossary**

Client: Ensolum Job ID: 890-6228-1 Project/Site: CORRAL CANYON EXPANSION BATTERY SDG: 03C1558299

#### **Qualifiers**

**GC VOA** Qualifier

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

F1 MS and/or MSD recovery exceeds control limits.

U Indicates the analyte was analyzed for but not detected.

#### GC Semi VOA

Qualifier	Qualitier Description
*1	LCS/LCSD RPD exceeds control limits.
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

Indicates the analyte was analyzed for but not detected.

#### **Glossary**

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

**EDL** Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) Limit of Quantitation (DoD/DOE) LOQ MCL EPA recommended "Maximum Contaminant Level"

Minimum Detectable Activity (Radiochemistry) MDA MDC Minimum Detectable Concentration (Radiochemistry)

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

Not Calculated

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

NEG Negative / Absent POS Positive / Present

**Practical Quantitation Limit** PQL

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

**RER** Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

**TNTC** Too Numerous To Count

#### **Case Narrative**

Client: Ensolum Job ID: 890-6228-1

Project: CORRAL CANYON EXPANSION BATTERY

Job ID: 890-6228-1 Eurofins Carlsbad

Job Narrative 890-6228-1

#### REVISION

The report being provided is a revision of the original report sent on 2/29/2024. The report (revision 1) is being revised due to Per client email, requesting TPH re run.

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 2/20/2024 1:27 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 3.8°C.

#### **Receipt Exceptions**

The following samples were received and analyzed from an unpreserved bulk soil jar: FS01 A (890-6228-1) and SW05 (890-6228-2).

#### GC VOA

Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-73912 and analytical batch 880-73907 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-74021 and analytical batch 880-74123 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-74123 recovered above the upper control limit for Toluene and Ethylbenzene. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-74123/20).

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 880-73899 and analytical batch 880-74227 was outside the upper control limits.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: FS01 A (890-6228-1), SW05 (890-6228-2) and (890-6208-A-2-I MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD\_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-73899 and analytical batch 880-74227 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28).

Method 8015MOD\_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-73899 and analytical batch 880-74227 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

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# **Case Narrative**

Client: Ensolum Job ID: 890-6228-1

Project: CORRAL CANYON EXPANSION BATTERY

## Job ID: 890-6228-1 (Continued)

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acceptance limits.

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

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

**Matrix: Solid** 

Lab Sample ID: 890-6228-1

03/03/24 23:27

Client: Ensolum Job ID: 890-6228-1 Project/Site: CORRAL CANYON EXPANSION BATTERY SDG: 03C1558299

**Client Sample ID: FS01 A** 

Date Collected: 02/20/24 11:50 Date Received: 02/20/24 13:27

Sample Depth: 2'

Total TPH

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/23/24 15:11	02/23/24 19:01	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/23/24 15:11	02/23/24 19:01	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/23/24 15:11	02/23/24 19:01	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		02/23/24 15:11	02/23/24 19:01	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/23/24 15:11	02/23/24 19:01	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		02/23/24 15:11	02/23/24 19:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130			02/23/24 15:11	02/23/24 19:01	1
1,4-Difluorobenzene (Surr)	108		70 - 130			02/23/24 15:11	02/23/24 19:01	1

Total BTEX	<0.00399 U	0.00399	mg/Kg			02/23/24 19:01	1
Method: SW846 8015 NM - Dies	sel Range Organics	(DRO) (GC)					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

49.9

<49.9 U

mg/Kg

Method: SW846 8015B NM - L Analyte	_	Qualifier	RL (DRO)	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		03/03/24 00:24	03/03/24 23:27	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		03/03/24 00:24	03/03/24 23:27	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/03/24 00:24	03/03/24 23:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130			03/03/24 00:24	03/03/24 23:27	1
o-Terphenyl	101		70 - 130			03/03/24 00:24	03/03/24 23:27	1

Method: EPA 300.0 - Anions, I	on Chromatography -	Soluble					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	300	5.04	mg/Kg			02/25/24 06:05	1

**Client Sample ID: SW05** Lab Sample ID: 890-6228-2 Date Collected: 02/20/24 12:55 **Matrix: Solid** Date Received: 02/20/24 13:27

Sample Depth: 0 - 2'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		02/23/24 15:11	02/23/24 19:22	1
Toluene	<0.00198	U	0.00198	mg/Kg		02/23/24 15:11	02/23/24 19:22	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		02/23/24 15:11	02/23/24 19:22	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		02/23/24 15:11	02/23/24 19:22	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		02/23/24 15:11	02/23/24 19:22	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		02/23/24 15:11	02/23/24 19:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130			02/23/24 15:11	02/23/24 19:22	1

# **Client Sample Results**

Client: Ensolum Job ID: 890-6228-1 Project/Site: CORRAL CANYON EXPANSION BATTERY SDG: 03C1558299

Client Sample ID: SW05

Lab Sample ID: 890-6228-2

Matrix: Solid

Date Collected: 02/20/24 12:55 Date Received: 02/20/24 13:27 Sample Depth: 0 - 2'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared Analyzed	Dil Fac
1.4-Difluorobenzene (Surr)	109		70 - 130	02/23/24 15:11 02/23/24 19:22	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00396	U	0.00396	mg/Kg			02/23/24 19:22	1

ı	Method: SW846 8015 NM - Diesel Ra	inge Organics (DRO) (GC)
ı	Method. Syvoto outs Min - Dieser Na	inge organics (bito) (oc)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			02/29/24 00:38	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)
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Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/22/24 17:59	02/29/24 00:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0	mg/Kg		02/22/24 17:59	02/29/24 00:38	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/22/24 17:59	02/29/24 00:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	1-Chlorooctane	139	S1+	70 - 130	02/22/24 17:59	02/29/24 00:38	1
	o-Terphenyl	117		70 - 130	02/22/24 17:59	02/29/24 00:38	1
į,							

Method: EPA 300.0 - Anions, id	on Chromatography -	Soluble					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	222	4.97	mg/Kg			02/25/24 06:10	1

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# **Surrogate Summary**

Client: Ensolum Job ID: 890-6228-1 Project/Site: CORRAL CANYON EXPANSION BATTERY SDG: 03C1558299

Method: 8021B - Volatile Organic Compounds (GC)

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

		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-39759-A-1-B MS	Matrix Spike	92	107	
880-39759-A-1-C MSD	Matrix Spike Duplicate	97	113	
890-6228-1	FS01 A	93	108	
890-6228-1 MS	FS01 A	114	99	
890-6228-1 MSD	FS01 A	105	102	
890-6228-2	SW05	92	109	
LCS 880-73912/1-A	Lab Control Sample	89	108	
LCS 880-74021/1-A	Lab Control Sample	103	100	
LCSD 880-73912/2-A	Lab Control Sample Dup	89	103	
LCSD 880-74021/2-A	Lab Control Sample Dup	118	100	
MB 880-73912/5-A	Method Blank	75	102	
MB 880-74021/5-A	Method Blank	129	129	

DFBZ = 1,4-Difluorobenzene (Surr)

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

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

			Perce	nt Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-6208-A-2-I MS	Matrix Spike	157 S1+	117	
890-6208-A-2-J MSD	Matrix Spike Duplicate	128	100	
890-6228-1	FS01 A	113	101	
890-6228-2	SW05	139 S1+	117	
890-6285-A-39-D MS	Matrix Spike	119	96	
890-6285-A-39-E MSD	Matrix Spike Duplicate	118	97	
LCS 880-73899/2-A	Lab Control Sample	128	127	
LCS 880-74527/2-A	Lab Control Sample	83	71	
LCSD 880-73899/3-A	Lab Control Sample Dup	90	88	
LCSD 880-74527/3-A	Lab Control Sample Dup	97	84	
MB 880-73899/1-A	Method Blank	199 S1+	178 S1+	
MB 880-74527/1-A	Method Blank	107	97	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-73912/5-A

**Matrix: Solid** 

**Analysis Batch: 73907** 

**Client Sample ID: Method Blank** 

Prep Type: Total/NA

Prep Batch: 73912

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/23/24 08:11	02/23/24 14:01	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/23/24 08:11	02/23/24 14:01	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/23/24 08:11	02/23/24 14:01	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/23/24 08:11	02/23/24 14:01	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/23/24 08:11	02/23/24 14:01	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/23/24 08:11	02/23/24 14:01	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		70 - 130	02/23/24 08:11	02/23/24 14:01	1
1,4-Difluorobenzene (Surr)	102		70 - 130	02/23/24 08:11	02/23/24 14:01	1

Lab Sample ID: LCS 880-73912/1-A

**Matrix: Solid** 

**Analysis Batch: 73907** 

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA Prep Batch: 73912

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1177 mg/Kg 118 70 - 130 Toluene 0.100 0.09419 mg/Kg 70 - 130 94 Ethylbenzene 0.100 0.09140 mg/Kg 91 70 - 130 0.200 91 m-Xylene & p-Xylene 0.1816 mg/Kg 70 - 130o-Xylene 0.100 0.09206 92 70 - 130 mg/Kg

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: LCSD 880-73912/2-A

**Matrix: Solid** 

**Analysis Batch: 73907** 

Client	Sample	ID: La	ab Co	ntrol S	ample	Dup

91

mg/Kg

Prep Type: Total/NA Prep Batch: 73912

Spike LCSD LCSD %Rec **RPD** Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Benzene 0.100 0.1059 mg/Kg 106 70 - 130 11 35 Toluene 0.100 0.09157 mg/Kg 92 70 - 130 3 35 Ethylbenzene 0.100 0.09162 mg/Kg 92 70 - 130 0 35 m-Xylene & p-Xylene 0.200 0.1808 mg/Kg 90 70 - 130 35

0.09140

LCSD LCSD

Surrogate	%Recovery Q	Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		70 - 130
1.4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 880-39759-A-1-B MS

**Matrix: Solid** 

o-Xylene

**Analysis Batch: 73907** 

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

70 - 130

Prep Batch: 73912

35

Spike MS MS %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Benzene <0.00199 U 0.101 0.1011 100 70 - 130 mg/Kg Toluene <0.00199 U 0.101 0.07676 mg/Kg 76 70 - 130

0.100

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

Lab Sample ID: 880-39759-A-1-B MS

Lab Sample ID: 880-39759-A-1-C MSD

**Matrix: Solid** 

**Analysis Batch: 73907** 

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 73912

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00199	U F1	0.101	0.06923	F1	mg/Kg		69	70 - 130	
m-Xylene & p-Xylene	<0.00398	U F1	0.202	0.1365	F1	mg/Kg		68	70 - 130	
o-Xylene	<0.00199	U	0.101	0.07072		mg/Kg		70	70 - 130	

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

**Client Sample ID: Matrix Spike Duplicate** 

Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 73907** 

Prep Batch: 73912 %Rec **RPD** 

Sample Sample Spike MSD MSD Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit 0.100 70 - 130 Benzene <0.00199 U 0.1178 mg/Kg 118 15 35 Toluene <0.00199 U 0.100 0.08516 85 70 - 130 10 35 mg/Kg 75 Ethylbenzene <0.00199 UF1 0.100 0.07452 mg/Kg 70 - 130 7 35 m-Xylene & p-Xylene <0.00398 UF1 0.200 0.1449 mg/Kg 72 70 - 130 6 35 o-Xylene <0.00199 U 0.100 0.07455 75 70 - 130 mg/Kg 5

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	113		70 - 130

Lab Sample ID: MB 880-74021/5-A

**Matrix: Solid** 

**Analysis Batch: 74123** 

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

Prep Batch: 74021

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/26/24 11:29	02/27/24 14:15	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/26/24 11:29	02/27/24 14:15	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/26/24 11:29	02/27/24 14:15	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/26/24 11:29	02/27/24 14:15	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/26/24 11:29	02/27/24 14:15	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/26/24 11:29	02/27/24 14:15	1

MB MB

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared A	nalyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130	02/26/24 11:29 02/2	7/24 14:15	1
1,4-Difluorobenzene (Surr)	129		70 - 130	02/26/24 11:29 02/2	7/24 14:15	1

Lab Sample ID: LCS 880-74021/1-A

**Matrix: Solid** 

**Analysis Batch: 74123** 

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

Prep Batch: 74021

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1266		mg/Kg		127	70 - 130	
Toluene	0.100	0.1100		mg/Kg		110	70 - 130	
Ethylbenzene	0.100	0.1207		mg/Kg		121	70 - 130	
m-Xylene & p-Xylene	0.200	0.2029		mg/Kg		101	70 - 130	

Client: Ensolum Project/Site: CORRAL CANYON EXPANSION BATTERY Job ID: 890-6228-1

SDG: 03C1558299

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

Lab Sample ID: LCS 880-74021/1-A

**Matrix: Solid** 

**Matrix: Solid** 

o-Xylene

Analyte

o-Xylene

**Analysis Batch: 74123** 

Lab Sample ID: LCSD 880-74021/2-A

		Prep Type: Total/NA
		Prep Batch: 74021
niko	109 109	%Rec

Spike Added Result Qualifier Unit %Rec Limits 0.100 0.1065 mg/Kg 106 70 - 130

mg/Kg

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

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

126

Prep Type: Total/NA Prep Batch: 74021

70 - 130

17

**Client Sample ID: Lab Control Sample** 

**Analysis Batch: 74123** LCSD LCSD Spike %Rec **RPD** Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 0.1302 Benzene 0.100 mg/Kg 130 70 - 130 3 35 mg/Kg Toluene 0.100 0.1187 119 70 - 130 8 35 Ethylbenzene 0.100 0.1319 \*+ mg/Kg 132 70 - 130 9 35 m-Xylene & p-Xylene 0.200 0.2429 mg/Kg 121 70 - 130 18 35

0.100

LCSD LCSD %Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene (Surr) 118 70 - 130 1,4-Difluorobenzene (Surr) 100 70 - 130

Lab Sample ID: 890-6228-1 MS

**Matrix: Solid** 

Client Sample ID: FS01 A Prep Type: Total/NA **Analysis Batch: 74123** Prep Batch: 74021

0.1259

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.101	0.1138		mg/Kg		113	70 - 130	
Toluene	<0.00199	U	0.101	0.1022		mg/Kg		101	70 - 130	
Ethylbenzene	< 0.00199	U *+	0.101	0.1237		mg/Kg		123	70 - 130	
m-Xylene & p-Xylene	<0.00398	U	0.202	0.2407		mg/Kg		119	70 - 130	
o-Xylene	<0.00199	U	0.101	0.1127		mg/Kg		111	70 - 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 890-6228-1 MSD

**Matrix: Solid** 

Analysis Batch: 74123									Prep Batch: 74		
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U	0.100	0.1035		mg/Kg		104	70 - 130	9	35
Toluene	<0.00199	U	0.100	0.09378		mg/Kg		94	70 - 130	9	35
Ethylbenzene	<0.00199	U *+	0.100	0.1083		mg/Kg		108	70 - 130	13	35
m-Xylene & p-Xylene	<0.00398	U	0.200	0.2053		mg/Kg		103	70 - 130	16	35
o-Xylene	<0.00199	U	0.100	0.09696		mg/Kg		96	70 - 130	15	35

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Client Sample ID: FS01 A

Prep Type: Total/NA

35

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

MSD MSD

Lab Sample ID: 890-6228-1 MSD

**Matrix: Solid** 

**Analysis Batch: 74123** 

Client Sample ID: FS01 A Prep Type: Total/NA

Prep Batch: 74021

%Recovery Qualifier Surrogate

Limits 4-Bromofluorobenzene (Surr) 105 70 - 130 1,4-Difluorobenzene (Surr) 102 70 - 130

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

Lab Sample ID: MB 880-73899/1-A

**Matrix: Solid** 

**Analysis Batch: 74227** 

**Client Sample ID: Method Blank** 

Prep Type: Total/NA

Prep Batch: 73899

MB MB

	IVID	IVIL
Analyte	Result	Qu
O		

RL Unit ualifier D Prepared Analyzed Dil Fac 02/22/24 17:59 02/28/24 19:35 Gasoline Range Organics 50.0 mg/Kg <50.0 U (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 02/22/24 17:59 02/28/24 19:35 C10-C28) Oll Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 02/22/24 17:59 02/28/24 19:35

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	199	S1+	70 - 130	02/22/24 17:59	02/28/24 19:35	1
o-Terphenyl	178	S1+	70 - 130	02/22/24 17:59	02/28/24 19:35	1

Lab Sample ID: LCS 880-73899/2-A

**Matrix: Solid** 

**Analysis Batch: 74227** 

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

Prep Batch: 73899

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	1000	1200		mg/Kg		120	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	1061		mg/Kg		106	70 - 130	

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

Lab Sample ID: LCSD 880-73899/3-A

**Matrix: Solid** 

**Analysis Batch: 74227** 

Client Sample ID: Lab Control Sample Dup

**Prep Type: Total/NA** Prep Batch: 73899

Spike LCSD LCSD %Rec **RPD** Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Gasoline Range Organics 1000 1032 mg/Kg 103 70 - 130 15 20 (GRO)-C6-C10 Diesel Range Organics (Over 1000 766.8 \*1 mg/Kg 77 70 - 130 32 20

C10-C28)

LCSD LCSD

Surrogate	%Recovery Qualifie	er Limits
1-Chlorooctane	90	70 - 130
o-Terphenyl	88	70 - 130

MS MS

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

Sample Sample

Lab Sample ID: 890-6208-A-2-I MS

**Matrix: Solid** 

**Analysis Batch: 74227** 

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

Prep Batch: 73899 %Rec Limits

Result Qualifier Result Qualifier Added %Rec Analyte Unit Gasoline Range Organics <49.6 U 1010 1286 mg/Kg 124 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 1010 1781 F1 174 70 - 130 <49.6 U F1 \*1 mg/Kg C10-C28)

Spike

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane S1+ 70 - 130 157 70 - 130 o-Terphenyl 117

**Client Sample ID: Matrix Spike Duplicate** 

Prep Type: Total/NA

Prep Batch: 73899

**Analysis Batch: 74227** Sample Sample Spike MSD MSD %Rec **RPD** Analyte Result Qualifier Added Result Qualifier Limits RPD Limit Unit D %Rec Gasoline Range Organics <49.6 U 1010 1088 104 70 - 130 17 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.6 U F1 \*1 1010 1523 F1 mg/Kg 149 70 - 130 16 20 C10-C28)

**Matrix: Solid** 

MSD MSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 128 70 - 130 o-Terphenyl 100 70 - 130

Lab Sample ID: MB 880-74527/1-A

Lab Sample ID: 890-6208-A-2-J MSD

**Matrix: Solid** 

**Analysis Batch: 74540** 

**Client Sample ID: Method Blank** 

Prep Type: Total/NA Prep Batch: 74527

MB MB Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Gasoline Range Organics <50.0 U 50.0 03/03/24 00:24 03/03/24 20:56 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 03/03/24 00:24 03/03/24 20:56 C10-C28) Oll Range Organics (Over C28-C36) <50.0 U 50.0 03/03/24 00:24 03/03/24 20:56 mg/Kg

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	03/03/24 00:24	03/03/24 20:56	1
o-Terphenyl	97		70 - 130	03/03/24 00:24	03/03/24 20:56	1

Lab Sample ID: LCS 880-74527/2-A

**Matrix: Solid** 

**Analysis Batch: 74540** 

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

Prep Batch: 74527

	Spike	e LCS	LCS				%Rec	
Analyte	Added	d Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	761.7		mg/Kg		76	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1023		mg/Kg		102	70 - 130	
C10-C28)								

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

Lab Sample ID: LCS 880-74527/2-A

**Matrix: Solid** 

**Analysis Batch: 74540** 

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

Prep Batch: 74527

LCS LCS %Recovery Qualifier Limits Surrogate 1-Chlorooctane 83 70 - 130 o-Terphenyl 71 70 - 130

Lab Sample ID: LCSD 880-74527/3-A

Lab Sample ID: 890-6285-A-39-D MS

**Matrix: Solid** 

**Analysis Batch: 74540** 

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

**Prep Type: Total/NA** 

Prep Batch: 74527

LCSD LCSD RPD %Rec Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Gasoline Range Organics 1000 805.8 mg/Kg 81 70 - 130 6 20 (GRO)-C6-C10 Diesel Range Organics (Over 1000 1218 mg/Kg 122 70 - 130 17 20 C10-C28)

LCSD LCSD

%Recovery Qualifier Surrogate Limits 1-Chlorooctane 97 70 - 130 70 - 130 o-Terphenyl 84

**Client Sample ID: Matrix Spike** 

**Prep Type: Total/NA** 

Prep Batch: 74527

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Limits Analyte Unit D %Rec <49.6 U Gasoline Range Organics 1000 906.2 mg/Kg 86 70 - 130 (GRO)-C6-C10 1000 Diesel Range Organics (Over <49.6 U 1062 mg/Kg 102 70 - 130

C10-C28)

**Matrix: Solid** 

**Analysis Batch: 74540** 

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 70 - 130 119 o-Terphenyl 96 70 - 130

Lab Sample ID: 890-6285-A-39-E MSD Client Sample ID: Matrix Spike Duplicate

**Matrix: Solid** 

**Analysis Batch: 74540** 

Prep Type: Total/NA Prep Batch: 74527

%Rec **RPD** 

Sample Sample Spike MSD MSD Result Qualifier RPD Added Result Qualifier Limits Limit Analyte Unit %Rec Gasoline Range Organics <49.6 U 1000 923.7 88 70 - 130 2 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.6 U 1000 1070 mg/Kg 103 70 - 130 20

C10-C28)

MSD MSD

Surrogate	%Recovery Q	ualifier	Limits
1-Chlorooctane	118		70 - 130
o-Terphenyl	97		70 - 130

# QC Sample Results

Client: Ensolum Job ID: 890-6228-1 Project/Site: CORRAL CANYON EXPANSION BATTERY SDG: 03C1558299

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-73800/1-A

Client Sample ID: Method Blank

**Prep Type: Soluble** 

**Analysis Batch: 73928** 

**Matrix: Solid** 

MB MB

Analyte Result Qualifier RL Unit Analyzed Dil Fac D Prepared 5.00 02/25/24 03:56 Chloride <5.00 U mg/Kg

Lab Sample ID: LCS 880-73800/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble** 

**Prep Type: Soluble** 

**Client Sample ID: Matrix Spike Duplicate** 

**Analysis Batch: 73928** 

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits Chloride 250 259.9 90 - 110 mg/Kg 104

Lab Sample ID: LCSD 880-73800/3-A Client Sample ID: Lab Control Sample Dup

**Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 73928** 

Spike LCSD LCSD %Rec RPD Added Result Qualifier Limits **RPD** Limit **Analyte** Unit %Rec Chloride 250 260.3 104 90 - 110 20 mg/Kg

Lab Sample ID: 880-39711-A-31-B MS **Client Sample ID: Matrix Spike Prep Type: Soluble** 

**Matrix: Solid** 

**Analysis Batch: 73928** 

Spike MS MS %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 122 249 378.4 mg/Kg 103 90 - 110

Lab Sample ID: 880-39711-A-31-C MSD

**Matrix: Solid** 

**Analysis Batch: 73928** 

MSD MSD RPD Sample Sample Spike %Rec Analyte Result Qualifier Added Unit Limits Result Qualifier %Rec **RPD** Limit Chloride 122 249 374.9 102 20 mg/Kg 90 - 110

# **QC Association Summary**

Client: Ensolum Project/Site: CORRAL CANYON EXPANSION BATTERY Job ID: 890-6228-1 SDG: 03C1558299

## **Analysis Batch: 73907**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6228-1	FS01 A	Total/NA	Solid	8021B	73912
890-6228-2	SW05	Total/NA	Solid	8021B	73912
MB 880-73912/5-A	Method Blank	Total/NA	Solid	8021B	73912
LCS 880-73912/1-A	Lab Control Sample	Total/NA	Solid	8021B	73912
LCSD 880-73912/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	73912
880-39759-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	73912
880-39759-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	73912

# Prep Batch: 73912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6228-1	FS01 A	Total/NA	Solid	5035	
890-6228-2	SW05	Total/NA	Solid	5035	
MB 880-73912/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-73912/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-73912/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-39759-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-39759-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

#### Prep Batch: 74021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-74021/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-74021/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-74021/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-6228-1 MS	FS01 A	Total/NA	Solid	5035	
890-6228-1 MSD	FS01 A	Total/NA	Solid	5035	

## **Analysis Batch: 74052**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6228-1	FS01 A	Total/NA	Solid	Total BTEX	
890-6228-2	SW05	Total/NA	Solid	Total BTEX	

#### **Analysis Batch: 74123**

<b>Lab Sample ID</b> MB 880-74021/5-A	Client Sample ID  Method Blank	Prep Type Total/NA	Matrix Solid	Method 8021B	Prep Batch 74021
LCS 880-74021/1-A	Lab Control Sample	Total/NA	Solid	8021B	74021
LCSD 880-74021/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	74021
890-6228-1 MS	FS01 A	Total/NA	Solid	8021B	74021
890-6228-1 MSD	FS01 A	Total/NA	Solid	8021B	74021

# **GC Semi VOA**

#### Prep Batch: 73899

<b>Lab Sample ID</b> 890-6228-2	Client Sample ID SW05	Prep Type  Total/NA	Matrix Solid	Method 8015NM Prep	Prep Batch
MB 880-73899/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-73899/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-73899/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-6208-A-2-I MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-6208-A-2-J MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

# **QC Association Summary**

Client: Ensolum Job ID: 890-6228-1
Project/Site: CORRAL CANYON EXPANSION BATTERY SDG: 03C1558299

# **GC Semi VOA**

## **Analysis Batch: 74227**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6228-2	SW05	Total/NA	Solid	8015B NM	73899
MB 880-73899/1-A	Method Blank	Total/NA	Solid	8015B NM	73899
LCS 880-73899/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	73899
LCSD 880-73899/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	73899
890-6208-A-2-I MS	Matrix Spike	Total/NA	Solid	8015B NM	73899
890-6208-A-2-J MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	73899

# **Analysis Batch: 74357**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6228-1	FS01 A	Total/NA	Solid	8015 NM	
890-6228-2	SW05	Total/NA	Solid	8015 NM	

## Prep Batch: 74527

Lab Sample ID 890-6228-1	Client Sample ID FS01 A	Prep Type Total/NA	Matrix Solid	Method 8015NM Prep	Prep Batch
MB 880-74527/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-74527/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-74527/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-6285-A-39-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-6285-A-39-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

# **Analysis Batch: 74540**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6228-1	FS01 A	Total/NA	Solid	8015B NM	74527
MB 880-74527/1-A	Method Blank	Total/NA	Solid	8015B NM	74527
LCS 880-74527/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	74527
LCSD 880-74527/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	74527
890-6285-A-39-D MS	Matrix Spike	Total/NA	Solid	8015B NM	74527
890-6285-A-39-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	74527

## **HPLC/IC**

#### Leach Batch: 73800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6228-1	FS01 A	Soluble	Solid	DI Leach	
890-6228-2	SW05	Soluble	Solid	DI Leach	
MB 880-73800/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-73800/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-73800/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-39711-A-31-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-39711-A-31-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

#### **Analysis Batch: 73928**

Released to Imaging: 5/9/2024 9:15:29 AM

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6228-1	FS01 A	Soluble	Solid	300.0	73800
890-6228-2	SW05	Soluble	Solid	300.0	73800
MB 880-73800/1-A	Method Blank	Soluble	Solid	300.0	73800
LCS 880-73800/2-A	Lab Control Sample	Soluble	Solid	300.0	73800
LCSD 880-73800/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	73800
880-39711-A-31-B MS	Matrix Spike	Soluble	Solid	300.0	73800
880-39711-A-31-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	73800

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**Matrix: Solid** 

Client Sample ID: FS01 A Date Collected: 02/20/24 11:50

Date Received: 02/20/24 13:27

Client: Ensolum

	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	73912	02/23/24 15:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73907	02/23/24 19:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74052	02/23/24 19:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			74357	03/03/24 23:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	74527	03/03/24 00:24	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74540	03/03/24 23:27	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	73800	02/21/24 15:14	SA	EET MID
Soluble	Analysis	300.0		1			73928	02/25/24 06:05	CH	EET MID

Lab Sample ID: 890-6228-2

**Matrix: Solid** 

Date Collected: 02/20/24 12:55 Date Received: 02/20/24 13:27

**Client Sample ID: SW05** 

Batch Batch Dil Initial Final Batch Prepared Method **Prep Type** Type Run **Factor Amount** Amount Number or Analyzed **Analyst** Lab Total/NA 5035 73912 02/23/24 15:11 EET MID Prep 5.05 g 5 mL MNR Total/NA 8021B Analysis 5 mL 5 mL 73907 02/23/24 19:22 MNR EET MID 1 Total/NA Analysis Total BTEX 1 74052 02/23/24 19:22 SM **EET MID** Total/NA 8015 NM Analysis 1 74357 02/29/24 00:38 SM **EET MID** Total/NA Prep 8015NM Prep 10.01 g 10 mL 73899 02/22/24 17:59 TKC **EET MID** Total/NA 8015B NM Analysis 1 uL 1 uL 74227 02/29/24 00:38 SM **EET MID** Soluble DI Leach 5.03 g 50 mL 73800 02/21/24 15:14 SA **EET MID** Leach 300.0 Soluble Analysis 1 73928 02/25/24 06:10 CH **EET MID** 

**Laboratory References:** 

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

Released to Imaging: 5/9/2024 9:15:29 AM

# **Accreditation/Certification Summary**

Client: Ensolum Project/Site: CORRAL CANYON EXPANSION BATTERY Job ID: 890-6228-1

SDG: 03C1558299

# **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	P	T104704400-23-26	06-30-24
The following englyte:	and the standard to the standa	. 4 . 1 4 . 41 1 . 1		
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for which the agency	does not offer certification	i.	, с с	ty. This list may include ai

# **Method Summary**

Client: Ensolum

Project/Site: CORRAL CANYON EXPANSION BATTERY

Job ID: 890-6228-1 SDG: 03C1558299

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: CORRAL CANYON EXPANSION BATTERY

Job ID: 890-6228-1

SDG: 03C1558299

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-6228-1	FS01 A	Solid	02/20/24 11:50	02/20/24 13:27	2'
890-6228-2	SW05	Solid	02/20/24 12:55	02/20/24 13:27	0 - 2'

Project Manager:	Environment lesting	Midland, TX (432)	dland, TX (432) 704-5440, San Antonio, TX (210) 509-3334	Work Order No:	
Pen	Xenco	EL Paso, TX (915 Hobbs, NM (575	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlebad, NM (575) 988-3199		Dane
			Cadoli Hover	Www.xenco.com	- age
	0 1 100 1	Bill to: (if different)	74	Program: UST/PST   PRP	Brownfields   Superfund
y Name:	Mational Davy C Hivil	Address:	11	oject:	
City State ZIP:	-15	City, State ZIP:	Shad NN 8	Reporting: Level II ☐ Level III ☐	PST/UST TRRP Level IV
		Garrett.	xonMobi	Deliverables: EDD 🗌	ADaPT ☐ Other:
Name:	20 attent	Turn Around	ANALYSIS REQUEST	JEST	Preservative Codes
er:	Rout	Rush Code			None: NO DI Water: H <sub>2</sub> O
	ju - 104, 00022 Due Date:	: 5 days			-
er's Name:	Mariaha O'Dell Tatstarts the lab if the	TAT starts the day received by			HNO 3: HN
PO #:	Joseph Company				
j.	Thermometer	ЗШЕ	890-6228	3228 Chain of Custody	Sians C
Yes		10.7 Par	p		2O3: NaSO 3
Yes	(N/A)	4.0			Zn Acetate+NaOH: Zn
Total Containers:	Corrected Temperature:	3.2	-1d -1d -1d		NaOH+Ascorbic Acid: SAPC
Sample Identification	-	Depth			Sample Comments
	Sampled	dwo	> ;		+ 1000
FS01A	5 2 2024 11:50		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		110000 F # .
SMOS		207. 7			100 HOUSE OF 100 HOUSE
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				2	
Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	8RCR.	8RCRA 13PPM Texas 11 Al Sb. TCLP / SPLP 6010 : 8RCRA Sb	AI Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K RA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U	Se	Ag SiO <sub>2</sub> Na Sr Tl Sn U V Zn Hg: 1631/245.1/7470 /7471
Notice: Signature of this document and relinqui si service. Eurofins Xenco will be liable only for if Eurofins Xenco: Aminimum charge of \$85.00	ishment of samples constitutes a valid purchase or the cost of samples and shall not assume any res ywit be applied to each project and a charge of t	order from client company to Eurofi sponsibility for any losses or expense \$5 for each sample submitted to Eur	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 ferms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of services. The manual properties of the control of services and shall be supplied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	ms and conditions syond the control ss previously negotiated.	
Relinguished by: (Signature)	Reveived by: (Signature)	urje)	Date/Time - Relinquished by: (Signature)	ure) Received by: (Signature)	ure) Date/Time
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			D		Revised Date: 08/25/2020 Rev. 2020 2

# **Login Sample Receipt Checklist**

Client: Ensolum Job Number: 890-6228-1 SDG Number: 03C1558299

Login Number: 6228 List Source: Eurofins Carlsbad

List Number: 1

Creator: Bruns, Shannon

Comment Question **Answer** 

The cooler's custody seal, if present, is intact.

Sample custody seals, if present, are intact.

The cooler or samples do not appear to have been compromised or tampered with.

Samples were received on ice.

Cooler Temperature is acceptable.

Cooler Temperature is recorded.

COC is present.

COC is filled out in ink and legible.

COC is filled out with all pertinent information.

Is the Field Sampler's name present on COC?

There are no discrepancies between the containers received and the COC.

Samples are received within Holding Time (excluding tests with immediate HTs)

Sample containers have legible labels.

Containers are not broken or leaking.

Sample collection date/times are provided.

Appropriate sample containers are used.

Sample bottles are completely filled.

Sample Preservation Verified.

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

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

# **Login Sample Receipt Checklist**

Client: Ensolum Job Number: 890-6228-1 SDG Number: 03C1558299

Login Number: 6228 **List Source: Eurofins Midland** List Creation: 02/21/24 11:47 AM List Number: 2

Creator: Rodriguez, Leticia

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

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<6mm (1/4").

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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

Action 333496

#### **QUESTIONS**

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	333496
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2330049344
Incident Name	NAPP2330049344 CORRAL CANYON EXPANSION BATTERY @ 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	CORRAL CANYON EXPANSION BATTERY
Date Release Discovered	10/15/2023
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   Other (Specify)   Produced Water   Released: 12 BBL   Recovered: 10 BBL   Lost: 2 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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<u>District IV</u> 1220 S. St Francis Dr., Santa Fe, NM 87505

# **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 333496

Phone:(505) 476-3470 Fax:(505) 476-3462	
QUEST	TONS (continued)
Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380 Action Number: 333496 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	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.
	niation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative c sted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of evaluation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for rele the 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 rt does not relieve the operator of responsibility for compliance with any other federal, state, or
	Nama: Alan Ramara

Title: Regulatory Analyst

Date: 04/15/2024

Email: alan.romero1@exxonmobil.com

I hereby agree and sign off to the above statement

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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 333496

#### **QUESTIONS** (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	333496
	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 51 and 75 (ft.)	
What method was used to determine the depth to ground water	NM OSE iWaters Database Search	
Did this release impact groundwater or surface water	No	
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:		
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (mi.)	
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 1000 (ft.) and ½ (mi.)	
A subsurface mine	Between 1 and 5 (mi.)	
An (non-karst) unstable area	Between ½ and 1 (mi.)	
Categorize the risk of this well / site being in a karst geology	Medium	
A 100-year floodplain	Between 1000 (ft.) and ½ (mi.)	
Did the release impact areas not on an exploration, development, production, or storage site	No	

Remediation Plan		
Please answer all the questions that apply or are indicated. This information must be	provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes	
Attach a comprehensive report demonstrating the lateral and vertical extents of soil c	contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineat	ted Yes	
Was this release entirely contained within a lined containment area	No	
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)		
Chloride (EPA 300.0 or SM4500 Cl B)	322	
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	67.1	
GRO+DRO (EPA SW-846 Method 8015M)	67.1	
BTEX (EPA SW-846 Method 8021B or 8260B	3) 0	
Benzene (EPA SW-846 Method 8021B or 8260E	B) 0	
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report include which includes the anticipated timelines for beginning and completing the remediatic	es completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, on.	
On what estimated date will the remediation commence	01/02/2024	
On what date will (or did) the final sampling or liner inspection occur	02/20/2024	
On what date will (or was) the remediation complete(d)	02/22/2024	
What is the estimated surface area (in square feet) that will be reclaimed	ed 3643	
What is the estimated volume (in cubic yards) that will be reclaimed	265	
What is the estimated surface area (in square feet) that will be remedia	ated 3643	
What is the estimated volume (in cubic yards) that will be remediated	0	
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.		
The OCD recognizes that proposed remediation measures may have to be minimally	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.

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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 333496

#### **QUESTIONS** (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	333496
	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	HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510]	
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.	
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.	
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.	
(In Situ) Soil Vapor Extraction	Not answered.	
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.	
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.	
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.	
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.	
OTHER (Non-listed remedial process)	Not answered.	

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement

Name: Alan Romero Title: Regulatory Analyst

Email: alan.romero1@exxonmobil.com

Date: 04/15/2024

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

Released to Imaging: 5/9/2024 9:15:29 AM

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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 5

Action 333496

**QUESTIONS** (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	333496
	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 submission	No

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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 333496

**QUESTIONS** (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	333496
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	315243
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/20/2024
What was the (estimated) number of samples that were to be gathered	4
What was the sampling surface area in square feet	800

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all re	emediation 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	3643
What was the total volume (cubic yards) remediated	0
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	2968
What was the total volume (in cubic yards) reclaimed	165
Summarize any additional remediation activities not included by answers (above)	Site assessment and excavation activities were conducted at the Site to address the October 15, 2023 release of produced water. Laboratory analytical results for the delineation soil samples, indicated impacted soil existed at the Site, however, waste-containing soil was identified in the top 4 feet. XTO removed all waste-containing soil that was accessible on pad. Laboratory analytical results for final excavation soil samples indicated all COC concentrations were compliant with the reclamation requirement. A maximum of 100 cubic yards of waste containing soil are left in place, assuming a maximum extent of 4 feet bgs, immediately adjacent to and underneath the active production equipment which will be addressed during pad abandonment or major facility reconstruction.

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.

I hereby agree and sign off to the above statement

I hereby agree and sign off to the above statement

Title: Regulatory Analyst
Email: alan.romero1@exxonmobil.com
Date: 04/15/2024

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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 7

Action 333496

<b>QUESTIONS</b>	(continued)
QUESTIONS!	COH I III I I I I C C I I

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	333496
	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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**State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505** 

CONDITIONS

Action 333496

#### **CONDITIONS**

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	333496
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### CONDITIONS

Created By	Condition	Condition Date
crystal.walker	Closure Approved. Please provide sampling notification for all sampling that is utilized for confirmation sampling. Failure to provide proper sampling notice is a compliance issue and OCD may pursue compliance actions pursuant to 19.15.5 NMAC. Operator shall ensure future compliance with 19.15.29.12.D.(1).(a) NMAC	5/9/2024