

September 12, 2023

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

## Re: Remediation Work Plan SC Federal Battery Incident Number NAPP2303272686 Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Maverick Permian, LLC (Maverick), has prepared the following *Closure Request* to document site assessment, excavation, and soil sampling activities performed at the SC Federal Battery (Site). The purpose of the Site assessment, excavation, and soil sampling activities was to address impacts to soil resulting from a crude oil and produced water release at the Site. Based on the excavation activities and laboratory analytical results from the soil sampling events, Maverick is submitting this *Closure Request*, describing remediation that has occurred and requesting closure for Incident Number NAPP2303272686.

## SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit I, Section 22, Township 17 South, Range 32 East, in Lea County, New Mexico (32.8175°, -103.7481°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On January 9, 2023, internal corrosion of a flow line resulted in the release of approximately 7 barrels (bbls) of crude oil and 2 bbls of produced water onto the surface of the well pad and adjacent pasture east of the pad. A vacuum truck recovered approximately 2 bbls of crude oil. Maverick reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on January 19, 2023. The release was assigned Incident Number NAPP2303272686.

## SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

Depth to groundwater at the Site is estimated to be greater than 60 feet below ground surface (bgs) based on the nearest groundwater well data. A borehole (BH-4) was drilled approximately 0.5 miles southeast of the Site on March 23, 2020. The borehole was drilled during remediation activities associated with Incident Number NJXK1621825385 (closure was approved by NMOCD on October 26,

2022). The borehole was advanced to a depth of 60 bgs via air rotary drilling rig, and no groundwater was encountered. The boring log is included in Appendix A. The location of borehole BH-4 is presented on Figure 1.

The closest continuously flowing or significant watercourse to the Site is a freshwater pond, located approximately 2,800 feet southwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

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

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

A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top 4 feet of the pasture area that was impacted by the release, per 19.15.29.13.D (1) NMAC for the top 4 feet of areas that will be reclaimed following remediation.

## SITE ASSESSMENT ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On January 11, 2023, assessment activities were conducted at the Site to evaluate the release extent based on information provided on the Form C-141 and visible surface staining in the release area. Eight assessment soil samples (SS01 through SS08) were collected within and around the release extent at a depth of 0.5 feet bgs to assess the extent of the release. The soil samples were field screened for volatile aromatic hydrocarbons (VOCs) utilizing a calibrated photoionization detector (PID) and chloride Hach<sup>®</sup> chloride QuanTab<sup>®</sup> test strips. The release extent and assessment 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 soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported at or below 4 degrees Celsius (°C) under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of the following constituents of concern (COC): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 4500.

Laboratory analytical results for assessment soil samples SS01 through SS04, collected within the release extent, indicated that benzene, BTEX, TPH, and chloride concentrations exceeded the Site Closure Criteria or reclamation requirements, where applicable. Laboratory analytical results for assessment soil samples SS05 through SS08, collected around the release extent, indicated that all COC concentrations were compliant with the most stringent Table I Closure Criteria and provided lateral



definition of the release. The laboratory analytical results are summarized on Table 1. Based on visible staining in the release area and laboratory analytical results for assessment soil samples SS01 through SS04, delineation and excavation activities were warranted.

## DELINEATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On March 22, 2023, Ensolum personnel returned to the Site to complete delineation activities. Five boreholes (BH01 through BH05) were advanced via hand auger to a depth of 4 feet bgs within the release extent to delineate the vertical extent of the release. Boreholes BH01 and BH02 were advanced in the pasture release extent and boreholes BH03 through BH05 were advanced in the release extent on the active well pad. Two discrete soil samples (BH01/BH01A through BH05/BH05A) were collected from each borehole at depths of 1-foot and 4 feet bgs. Soil from the boreholes was field screened for VOCs and chloride as described above. Field screening results and observations for the boreholes were documented on lithologic/soil sampling logs and are included as Appendix C. The soil samples were collected, handled, and analyzed as described above. The delineation soil sample locations were mapped utilizing a handheld GPS and are presented on Figure 3.

Laboratory analytical results for delineation soil samples BH01, BH02, and BH03, collected from a depth of 1-foot bgs, indicated that chloride and/or BTEX and TPH concentrations exceeded the Site Closure Criteria or reclamation requirements, where applicable. Laboratory analytical results for delineation soil samples BH01A, BH02A, BH03A, BH04/BH04A, and BH05/BH05A, collected from depths ranging from 1-foot to 4 feet bgs, indicated that all COC concentrations were compliant with the Site Closure Criteria. Laboratory analytical results are summarized on Table 1 and the complete laboratory analytical reports are included as Appendix D. Based on the delineation soil sample analytical results, impacted soil was vertically delineated to below the Site Closure Criteria and excavation activities were scheduled.

## **EXCAVATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS**

Between March 28, 2023 and April 13, 2023, Ensolum personnel were at the Site to oversee excavation of impacted soil as indicated by visible staining in the release area and laboratory analytical results for the assessment and delineation soil samples. To direct excavation activities, soil was field screened for VOCs and chloride. Excavation activities were performed utilizing a backhoe and transport vehicles. The excavation was completed to depths ranging from 0.5 feet to 5 feet bgs.

Following removal of impacted soil, 5-point composite soil samples were collected every 200 square feet from the floor and sidewalls of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS18, FS01A, FS02A, FS12A, and FS13A were collected from the floor of the excavation at depths ranging from 0.5 feet to 5 feet bgs. Composite soil samples SW01 through SW06 were collected from the sidewalls of the deeper southern portion of the excavation, at depths ranging from the ground surface to 4 feet bgs. Due to the shallow depth of the rest of the excavation, soil from any sidewalls was incorporated into the floor samples. The excavation soil samples were handled and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations were mapped utilizing a handheld GPS and are presented on Figure 4.

Laboratory analytical results for excavation soil samples FS01A, FS02A, FS03 through FS11, FS12A, FS13A, FS14 through FS18, and SW01 through SW06, collected from the final excavation extent, indicated all COC concentrations were compliant with the Site Closure Criteria and reclamation requirements, where applicable. Laboratory analytical results for excavation floor samples FS01, FS02, FS12, and FS13 initially exceeded the Site Closure Criteria for BTEX and TPH; additional soil was removed from these areas and subsequent floor samples FS01A, FS02A, FS12A, and FS13A were



compliant. Laboratory analytical results are summarized on Table 1 and the complete laboratory analytical reports are included as Appendix D.

The excavation measured approximately 2,750 square feet in areal extent. A total of approximately 434 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Disposal Facility located in Hobbs, New Mexico. After completion of confirmation sampling, the excavation was secured with fencing.

## **CLOSURE REQUEST**

Site assessment and excavation activities were conducted at the Site to address the January 11, 2023, release of crude oil and produced water. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated all COC concentrations were compliant with the Site Closure Criteria and reclamation requirements in samples collected from the top four feet of off-pad areas. Additionally, the release was laterally delineated to below the most stringent Table I Closure Criteria. Based on the laboratory analytical results, no further remediation is required. Maverick will backfill the excavation with material purchased locally and recontour the Site to match pre-existing conditions.

Initial response efforts and excavation of impacted soil have mitigated impacts at this Site. Depth to groundwater was confirmed to be greater than 60 feet bgs within 0.5 miles of the Site and no sensitive receptors were identified near the release extent. Maverick believes the remedial actions completed are protective of human health, the environment, and groundwater and respectfully requests closure for Incident NAPP2303272686. NMOCD Notifications are included in Appendix E and the final Form C-141 is included in Appendix F.

If you have any questions or comments, please contact Ms. Aimee Cole at (720) 384-7365 or <u>acole@ensolum.com</u>.

Sincerely, Ensolum, LLC

Aimee Cole Senior Managing Scientist

cc: Bryce Wagoner, Maverick Permian, LLC Bureau of Land Management

Appendices:

Figure 1	Site Receptor Map
Figure 2	Assessment Soil Sample Locations
Figure 3	Delineation Soil Sample Locations
Figure 4	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
Appendix E NMOCD Notifications
Appendix F Final C-141



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**FIGURES** 

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## TABLES

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				S Mav	TABLE 1 LE ANALYTICA C Federal Batter verick Permian, I County, New Me	ſY LLC		2 E I	N S O	LUM
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
MOCD Table I	Closure Criteria	(NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	10,000
				Asse	ssment Soil San	nples				
SS01	01/11/2023	0.5	13.6	494	7,860	36,000	5,190	43,860	49,100	6,620
SS02	01/11/2023	0.5	4.53	98.5	945	7,740	1,070	8,685	9,760	13,500
SS03	01/11/2023	0.5	37.9	588	7,160	23,100	3,180	30,260	33,400	7,050
SS04*	01/11/2023	0.5	39.8	692	9,390	37,000	4,930	46,390	51,300	8,290
SS05*	01/11/2023	0.5	<0.0996	1.12	<49.9	<49.9	<49.9	<49.9	<49.9	123
SS06*	01/11/2023	0.5	<0.0498	<0.0996	<50.0	<50.0	<50.0	<50.0	<50.0	60.4
SS07	01/11/2023	0.5	<0.0502	<0.100	<50.0	<50.0	<50.0	<50.0	<50.0	74.2
SS08*	01/11/2023	0.5	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	41.1
				Deliı	neation Soil Sam	ples				
BH01*	03/22/2023	1	1.09	269	2,410	7,210	995	9,620	10,600	4,470
BH01A	03/22/2023	4	0.0762	1.49	<49.8	258	<49.8	258	258	2,600
BH02*	03/22/2023	1	0.0404	0.335	<49.9	<49.9	<49.9	<49.9	<49.9	5,120
BH02A	03/22/2023	4	<0.0402	<0.0805	<49.8	317	54.7	317	372	9,090
BH03	03/22/2023	1	0.277	96.0	1,280	7,400	1,010	8,680	9,690	5,190
BH03A	03/22/2023	4	<0.0396	<0.0792	<50.0	227	<50.0	227	227	7,460
BH04	03/22/2023	1	<0.0996	<0.199	<50.0	959	160	959	1,120	7,790
BH04A	03/22/2023	4	0.0988	0.0988	<49.9	279	<49.9	279	279	7,810
BH05	03/22/2023	1	<0.0399	<0.0798	<49.9	697	108	697	805	4,030
BH05A	03/22/2023	4	<0.0402	<0.0805	<50.0	56.7	<50.0	56.7	56.7	7,640

				S Mav	TABLE 1LE ANALYTICAC Federal Batterverick Permian, ICounty, New Me	ry LLC				
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I	Closure Criteria	(NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	10,000
				Excava	tion Floor Soil S	amples				1
FS01	3/30/2023	4	9.89	444	4,920	17,700	2,910	22,620	25,530	9,120
FS01A	4/13/2023	5	<0.050	<0.300	<10.0	24.7	<10.0	24.7	24.7	1,840
FS02	3/30/2023	4	2.92	304	3,510	13,100	2,250	16,610	18,860	7,920
FS02A	4/13/2023	5	<0.050	<0.300	<10.0	12.0	<10.0	12.0	12.0	512
FS03*	3/31/2023	3	<0.050	0.371	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS04*	3/31/2023	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS05*	3/31/2023	3	<0.050	0.416	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS06	3/30/2023	1.5	0.052	0.742	<10.0	120	27.9	120	148	8,000
FS07	3/30/2023	1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
FS08	3/30/2023	1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
FS09	03/28/2023	0.5	<0.0398	1.08	<49.8	704	109	704	813	3,790
FS10	03/28/2023	0.5	<0.0402	2.64	<50.0	374	55.8	374	430	3,520
FS11	3/31/2023	4	<0.050	3.22	50.3	589	103	639.3	742	2,040
FS12	3/31/2023	4	1.13	132	1,280	5,430	845	6,710	7,555	5,360
FS12A	4/13/2023	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS13	3/31/2023	4	7.76	400	4,420	14,500	2,300	18,920	21,220	8,160
FS13A	4/13/2023	5	<0.050	<0.300	<10.0	20.2	<10.0	20.2	20.2	784
FS14	3/31/2023	0.5	<0.050	0.565	<10.0	140	35.8	176	212	752
FS15	3/31/2023	1.5	<0.050	<0.300	<10.0	15.3	10.4	15.3	25.7	624
FS16	3/31/2023	1.5	<0.050	<0.300	<10.0	29.8	15.3	45.1	60.4	352
FS17	3/31/2023	1.5	<0.050	<0.300	<10.0	271	72.2	271	343	2,040
FS18	3/31/2023	1.5	<0.050	<0.300	<10.0	88.9	35.6	88.9	125	336

				S Ma	TABLE 1           LE ANALYTICA           SC Federal Batter           verick Permian, I           County, New Me	ſY LLC				
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I	Closure Criteria	(NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	10,000
				Excavati	on Sidewall Soil	Samples				
SW01*	03/28/2023	0 - 3	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	165
SW02*	03/28/2023	0 - 3	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	<49.8	61.2
SW03*	03/28/2023	0 - 3	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	80.1
SW04*	03/28/2023	0 - 3	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	558
SW05*	3/30/2023	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW06*	3/30/2023	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0

#### Notes:

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bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

TPH: Total Petroleum Hydrocarbon

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

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

Grey text represents samples that have been excavated

\* indicates sample was collected in area to be reclaimed after remediation is complete; reclamation standard in the top 4 feet is 600 mg/kg for chloride and 100 mg/kg for TPH.



# APPENDIX A

**Referenced Well Records** 

212	C-M	ID-0	2067	T	E) T	ETRA	TEC	н				LOG OF BORING BH-4	Page 1 of 3
Proje	ect N	lam	e: MCA	A 123 Ir	nject	tion L	ine	Rele	ase				
Bore	hole	Lo	cation: (	GPS: 32	.810	847°,	, -103	3.743	217°			Surface Elevation: 3973 ft	
Bore	hole	Nu	mber: E	3H-4						E	oreh	ter (in.): 8 Date Started: 3/23/2020 Date Finished:	3/23/2020
			Q F	(µ	Y (%)	NT (%)			EX			WATER LEVEL OBSERVATIONS While Drilling $\underline{\nabla}$ DRY ft Upon Completion of Drilling $\underline{\Psi}$ DF Remarks:	<u>RY</u> ft
DEPTH (ft)	OPERATION TYPE	SAMPLE	The second secon	UNC FIELD	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)			MINUS NO. 200 (%)	GRAPHIC LOG	MATERIAL DESCRIPTION	REMARKS
	$\sum$	М	208	1.6								-SM- SILTY SAND; Brown, dense, dry, with no	3H-4 (0'-1')
_	$\rangle\rangle$	Ħ											
_	$\rangle\rangle$	$\square$	361	1.7									3H-4 (2'-3')
_	$\rangle\rangle$	Ħ	657	1.9								—	3H-4 (3'-4')
5	$\left \right\rangle$	Ø	2.0	2.1								-SM- SILTY SAND: Tan dense dry with no odor	3H-4 (4'-5')
_	$\left\langle \right\rangle$	X	2.03	1.9									3H-4 (6'-7')
		X	1.95	2									3H-4 (9'-10')
 15		X	9.45	3.1									3H-4 (14'-15')
 20		X	3.75	3.2									3H-4 (19'-20')
 25 Sam	pler		2.81	1.4	cetat	e Liner	r (	<u>)</u> pera	tion			Hand Auger Notes:	3H-4 (24'-25')
уре	з.	1,1,1,1	Spoon Shelby Bulk Sample M Grab Sample	v M		Shear nia			Muc Rota	tinuou ht Auge sh		Air Rotary Air Rotary Direct Push Core Barrel	olumn.

 Logger:
 Devin Dominguez
 Drilling Equipment: Air Rotary
 Driller:
 Scarborough Drilling

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roject N	lam	ne: MCA	. 123 Ir	nject	tion L	ine	Rele	ase		•						
orehole	e Lo	cation: G	GPS: 32	2.810	847°	, -103	3.743	217°			Surface Elevation:	3973 ft				
orehole	e Nu	ımber: B	8H-4						B	oreho	ble ter (in.): 8	Date Starte	ed: 3/23/2020	Date	Finishe	d: 3/23/2020
		cLD (mqo	(mdc	ERY (%)	ENT (%)	sf)		IDEX			v (		VEL OBSERVA Upon Completion		<u>¥</u> [	DRY_ft
DEPTH (ft) OPERATION TYPE	SAMPLE	THLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)		D PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	MATE	RIAL DES	CRIPTION		DEPTH (ft)	REMARKS
		1.87	1.7								<b>-SM-</b> SILTY S with no stainin	AND; Tan, o J.	dense, dry, with	no odor,	29 	BH-4 (29'-30')
		1.67	1.8								- <b>CL-</b> CLAYST with no odor, v	ONE; Red, ith no stain	moderately hard	I, moist,		BH-4 (34'-35') BH-4 (39'-40')
5 		587 ▼ Split	1.7				)pera ypes	tion			Hand Auret Nate					BH-4 (49'-50')
pes:	2	Split Spoon Shelby Bulk Sample Grab Sample		cetati 'ane S Califor Test P	nia	T	ÿpes	Mud Rota	tinuous nt Auge sh		Hand Auger Note Air Rotary Air Rotary Direct Push Core Barrel	lytical samp	bles are shown ii on is an estimate	n the "Rem ed value.	arks"	column.

 Logger:
 Devin Dominguez
 Drilling Equipment: Air Rotary
 Driller:
 Scarborough Drilling

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roje	ect N	lam	e: MC	CA 123 I	njec	tion	Line	Rele	ase				
ore	hole	e Loo	cation:	GPS: 3	2.810	)847°	, -103	3.743	217°			Surface Elevation: 3973 ft	
ore	hole	e Nu	mber:	BH-4						B	oreho	ble 8 Date Started: 3/23/2020 Date Finished:	3/23/2020
	ш		(mdd ELD	(mqq	ERY (%)	TENT (%)	cf)		NDEX			WATER LEVEL OBSERVATIONS While Drilling <u>♀ DRY</u> ft Upon Completion of Drilling <u>♀ DRY</u> Remarks:	∕_ft
	OPERATION TYPE	SAMPLE	EX SCREENING (ppm)	U SCREENING (ppm)	L SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)			MINUS NO. 200 (%)	GRAPHIC LOG	MATERIAL DESCRIPTION	REMARKS
 5													
0	$\langle \langle$	М	491	1.4								Bottom of borehole at 60.0 feet.	1-4 (59'-60')



# New Mexico Office of the State Engineer Point of Diversion Summary

			<b>(1</b>				IE 3=SW	4=SE)				
			(qua	rters ar	e sma	illest to	o largest)				in meters)	
Well Tag	POE	) Number	Q64	Q16	Q4	Sec	Tws	Rng	2	X	Y	
	RA	12020 POD3	2	1	2	28	17S	32E	615152	2 3	3631019 🌍	)
Driller Lic	ense:	1456	Driller	. Con	ipan	ıy:	WE	ITE D	RILLING	сом	IPANY	
Driller Na	me:	WHITE, JOHN W										
Drill Start	Date:	07/13/2015	Drill F	inish	Dat	te:	0′	7/15/20	)15 1	Plug	Date:	
Log File D	ate:	08/10/2015	PCW	Rcv I	Dates	:			S	Sourc	e:	Shallow
Pump Type	e:		Pipe D	lischa	rge	Size:	:		]	Estim	nated Yield:	
Casing Siz	e:	2.00	Depth	Well	:		1	2 feet	1	Deptl	h Water:	83 feet
X	Wate	er Bearing Stratifica	tions:		То	op 1	Bottom	Desc	cription			
					7	70	96	Sand	dstone/Grav	vel/Co	onglomerate	
					9	96	97	Sand	dstone/Grav	vel/Co	onglomerate	
					9	97	101	Shale	e/Mudston	e/Silt	stone	
X		Casing Perfor	ations:		То	op 1	Bottom					
					7	73	108					

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

7/24/23 12:55 PM

POINT OF DIVERSION SUMMARY



# New Mexico Office of the State Engineer Point of Diversion Summary

			(quarters : (quarters					(NAD83 UT	M in meters)	
Well Tag	POD	Number	Q64 Q1	6 Q4	Sec	Tws	Rng	Χ	Y	
	RA	12020 POD1	2 2	2 1	28	17S	32E	614828	3630954 🧲	
Driller Lic	ense:	1456	Driller Co	ompar	ıy:	WH	ITE DRI	LLING CO	MPANY	
Driller Nai	me:	WHITE, JOHN (	LD)							
Drill Start	Date:	09/24/2013	Drill Fini	sh Dat	te:	09	9/25/2013	Plu	g Date:	
Log File D	ate:	10/07/2013	PCW Rev	<b>Date</b>	:			Sou	irce:	Shallow
Pump Type	e:		Pipe Disc	harge	Size:			Est	imated Yield	:
Casing Siz	e:	2.00	Depth We	ell:		12	20 feet	Dep	oth Water:	81 feet
< compared with the second sec	Wate	er Bearing Stratif	ications:	Тс	op I	Bottom	Descri	ption		
				•	70	111	Sandsto	one/Gravel/	Conglomerate	e
				1	11	120	Shale/N	/ludstone/S	iltstone	
X		Casing Per	forations:	Та	op I	Bottom	l			
				,	75	110				

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

1/17/23 9:25 AM

POINT OF DIVERSION SUMMARY



# APPENDIX B

Photographic Log



Photographic Log Maverick Permian, LLC SC Federal Battery Incident Number NAPP2303272686



Photograph 1 Date: 03/22/2023 De: Photo of release area.



Photograph 2 Da Description: Photo of release area.

Date:03/22/2023



Photograph 3 Date: 03/29/2023 De: Photo of excavation activities.



Photograph 4Date: 03/29/2023Description: Photo of excavation extent.





APPENDIX C

Lithologic Soil Sampling Logs

								Sample Name: BH01	Date: 03/22/23
								Site Name: Maverick SC Federal Ba	
					ΟΙ			Incident Number: NAPP230327268	
								Job Number: : 03D2057069	
		LITHOL	OGI		SAMPLING	G LOG		Logged By: Dmitry Nikanorov	Method: Hand auger
Coord	inates: 32			-				Hole Diameter: 4'	Total Depth: 4'
					vith HACH Ch	nloride Test	Strips and	PID for chloride and vapor, respect	
			-					factors included.	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Des	criptions
D		5000 5000	Y Y	BH01			SP SP	0-1': SAND, brown color, dry medium grain, stain and odo 1-2': Same as above (SAA)	
D		4500	Y		-	3	SP	2-3': SAA	
D		1700	Y	BH01A	4	4	SP	3-4': SAA, but with some gre	ev clav
								TD @ 4' bgs	

								Sample Name: BH02	Date: 03/22/23
			N		ΟΙ			Site Name: Maverick SC Federal Ba	
								Incident Number: NAPP230327268	
								Job Number: : 03D2057069	
		LITHOL	OGI		SAMPLING	G LOG		Logged By: Dmitry Nikanorov	Method: Hand auger
Coord	inates: 32			-				Hole Diameter: 4'	Total Depth: 4'
					vith HACH Ch	nloride Test	Strips and	PID for chloride and vapor, respect	tively. Chloride test
perfor	med with	n 1:4 dilu	tion f	actor of so	il to distilled	water. No c	orrection	factors included.	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Des	criptions
D		107.6 181	Y Y	BH02			SP SP	0-1': SAND, brown color, dry medium grain, stain and odd 1-2': Same as above (SAA)	
D		97.4	Y		-	- - - -	SP	2-3': SAA	
D		149.3	Y	BH02A	4	4	SP	3-4': SAA	
								TD @ 4' bgs	

								Sample Name: BH03	Date: 03/22/23			
					ΟΙ		R A	Site Name: Maverick SC Federal Ba				
								Incident Number: NAPP230327268				
								Job Number: : 03D2057069				
		LITHOL	OGI		SAMPLING	i LOG		Logged By: Dmitry Nikanorov	Method: Hand auger			
Coord	inates: 32			-				Hole Diameter: 4'	Total Depth: 4'			
					vith HACH Cł	loride Test	Strips and	PID for chloride and vapor, respect	tively. Chloride test			
perfor	med with	n 1:4 dilu	tion f	actor of so	il to distilled	water. No c	orrection	factors included.				
Moisture Content	Content Chloride (ppm) (						USCS/Rock Symbol	Lithologic Des	criptions			
D		1860 699	Y Y	BH03			SP SP	0-1': SAND, brown color, dry medium grain, stain and odd 1-2': Same as above (SAA)				
D		194.9	Y			3	SP	2-3': SAA				
D		247.9	Y	BH03A	4	4	SP	3-4': SAA				
								TD @ 4' bgs				

								Sample Name: BH04	Date: 03/22/23			
								Site Name: Maverick SC Federal Ba				
			IN		ΟΙ			Incident Number: NAPP230327268				
								Job Number: : 03D2057069	-			
		LITHOL	OGI		SAMPLING	LOG		Logged By: Dmitry Nikanorov	Method: Hand auger			
Coord		2.8175, -1						Hole Diameter: 4'	Total Depth: 4'			
					vith HACH Ch	nloride Test	Strips and	PID for chloride and vapor, respect				
			-					factors included.				
Moisture Content	Chloride (ppm)							Lithologic Descriptions				
					Ц	0						
					_	-		0-1': SAND, brown color, dry	, poorly graded, fine-			
D		127	Y	BH04	1	1	SP	medium grain, stain and odor are present				
					-	_						
					-	-						
D		113	Y		-	2	SP	1-2': Same as above (SAA)				
					-	-						
D		72.3	Y		-	- 3	SP	2-3': SAA				
		/	•		-		0.					
					-	_						
D		83.7	Y	BH04A	4	4	SP	<u>3-4': SAA</u> TD @ 4' bgs				
					-	-						
					-	-						
					-	-						
					-	_						
					-	-						
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								Sample Name: BH05	Date: 03/22/23			
								Site Name: Maverick SC Federal Ba				
					ΟΙ		IV	Incident Number: NAPP230327268				
								Job Number: : 03D2057069				
-		LITHOL	OGI		SAMPLING	G LOG		Logged By: Dmitry Nikanorov	Method: Hand auger			
Coord	inates: 32			-				Hole Diameter: 4'	Total Depth: 4'			
					vith HACH Ch	nloride Test	Strips and	PID for chloride and vapor, respect				
			-					factors included.				
Moisture Content	Chloride (ppm)	Cappor Capor Cap						Lithologic Descriptions				
D		346.9	Y	BH05			SP	0-1': SAND, brown color, dry medium grain, stain and odd	odor are present			
D		184.6	Y		-	2	SP	1-2': Same as above (SAA)				
D		195	Y		-	3	SP	2-3': SAA	·			
D		135	Y	BH05A	4	4	SP	3-4': SAA				
								TD @ 4' bgs				



## APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



April 05, 2023

KALEI JENNINGS ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD, NM 88220

RE: SC FEDERAL BATTERY / MAVERICK

Enclosed are the results of analyses for samples received by the laboratory on 04/03/23 9:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



ENSOLUM KALEI JENNINGS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	04/03/2023	Sampling Date:	03/31/2023
Reported:	04/05/2023	Sampling Type:	Soil
Project Name:	SC FEDERAL BATTERY / MAVERICK	Sampling Condition:	Cool & Intact
Project Number:	03DR057069	Sample Received By:	Shalyn Rodriguez
Project Location:	32.8175-103.7481		

#### Sample ID: FS 03 @ 3' (H231506-01)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/03/2023	ND	1.80	89.9	2.00	1.77	
Toluene*	0.148	0.050	04/03/2023	ND	1.90	95.1	2.00	2.07	
Ethylbenzene*	0.117	0.050	04/03/2023	ND	1.96	98.1	2.00	0.600	
Total Xylenes*	<0.150	0.150	04/03/2023	ND	5.96	99.3	6.00	0.684	
Total BTEX	0.371	0.300	04/03/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/03/2023	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/03/2023	ND	188	94.0	200	1.87	
DRO >C10-C28*	<10.0	10.0	04/03/2023	ND	202	101	200	2.40	
EXT DRO >C28-C36	<10.0	10.0	04/03/2023	ND					
Surrogate: 1-Chlorooctane	93.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

#### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM KALEI JENNINGS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	04/03/2023	Sampling Date:	03/31/2023
Reported:	04/05/2023	Sampling Type:	Soil
Project Name:	SC FEDERAL BATTERY / MAVERICK	Sampling Condition:	Cool & Intact
Project Number:	03DR057069	Sample Received By:	Shalyn Rodriguez
Project Location:	32.8175-103.7481		

#### Sample ID: FS 04 @ 3' (H231506-02)

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/03/2023	ND	1.80	89.9	2.00	1.77	
Toluene*	<0.050	0.050	04/03/2023	ND	1.90	95.1	2.00	2.07	
Ethylbenzene*	<0.050	0.050	04/03/2023	ND	1.96	98.1	2.00	0.600	
Total Xylenes*	<0.150	0.150	04/03/2023	ND	5.96	99.3	6.00	0.684	
Total BTEX	<0.300	0.300	04/03/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	04/03/2023	ND	400	100	400	3.92	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/03/2023	ND	188	94.0	200	1.87	
DRO >C10-C28*	<10.0	10.0	04/03/2023	ND	202	101	200	2.40	
EXT DRO >C28-C36	<10.0	10.0	04/03/2023	ND					
Surrogate: 1-Chlorooctane	80.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.3	% 49.1-14	8						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM KALEI JENNINGS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	04/03/2023	Sampling Date:	03/31/2023
Reported:	04/05/2023	Sampling Type:	Soil
Project Name:	SC FEDERAL BATTERY / MAVERICK	Sampling Condition:	Cool & Intact
Project Number:	03DR057069	Sample Received By:	Shalyn Rodriguez
Project Location:	32.8175-103.7481		

#### Sample ID: FS 05 @ 3' (H231506-03)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/03/2023	ND	1.80	89.9	2.00	1.77	
Toluene*	0.119	0.050	04/03/2023	ND	1.90	95.1	2.00	2.07	
Ethylbenzene*	0.113	0.050	04/03/2023	ND	1.96	98.1	2.00	0.600	
Total Xylenes*	0.184	0.150	04/03/2023	ND	5.96	99.3	6.00	0.684	
Total BTEX	0.416	0.300	04/03/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/03/2023	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/03/2023	ND	188	94.0	200	1.87	
DRO >C10-C28*	<10.0	10.0	04/03/2023	ND	202	101	200	2.40	
EXT DRO >C28-C36	<10.0	10.0	04/03/2023	ND					
Surrogate: 1-Chlorooctane	87.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.5	% 49.1-14	8						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM KALEI JENNINGS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	04/03/2023	Sampling Date:	03/31/2023
Reported:	04/05/2023	Sampling Type:	Soil
Project Name:	SC FEDERAL BATTERY / MAVERICK	Sampling Condition:	Cool & Intact
Project Number:	03DR057069	Sample Received By:	Shalyn Rodriguez
Project Location:	32.8175-103.7481		

#### Sample ID: FS 11 @ 4' (H231506-04)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/03/2023	ND	1.80	89.9	2.00	1.77	
Toluene*	0.394	0.050	04/03/2023	ND	1.90	95.1	2.00	2.07	
Ethylbenzene*	1.01	0.050	04/03/2023	ND	1.96	98.1	2.00	0.600	
Total Xylenes*	1.81	0.150	04/03/2023	ND	5.96	99.3	6.00	0.684	
Total BTEX	3.22	0.300	04/03/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	24						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2040	16.0	04/03/2023	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	50.3	10.0	04/03/2023	ND	188	94.0	200	1.87	
DRO >C10-C28*	589	10.0	04/03/2023	ND	202	101	200	2.40	
EXT DRO >C28-C36	103	10.0	04/03/2023	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	121	% 49.1-14	!8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM KALEI JENNINGS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	04/03/2023	Sampling Date:	03/31/2023
Reported:	04/05/2023	Sampling Type:	Soil
Project Name:	SC FEDERAL BATTERY / MAVERICK	Sampling Condition:	Cool & Intact
Project Number:	03DR057069	Sample Received By:	Shalyn Rodriguez
Project Location:	32.8175-103.7481		

#### Sample ID: FS 12 @ 4' (H231506-05)

BTEX 8021B	mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.13	1.00	04/03/2023	ND	1.80	89.9	2.00	1.77	
Toluene*	29.5	1.00	04/03/2023	ND	1.90	95.1	2.00	2.07	
Ethylbenzene*	40.4	1.00	04/03/2023	ND	1.96	98.1	2.00	0.600	
Total Xylenes*	61.3	3.00	04/03/2023	ND	5.96	99.3	6.00	0.684	
Total BTEX	132	6.00	04/03/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	24						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5360	16.0	04/03/2023	ND	400	100	400	3.92	
TPH 8015M	mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1280	50.0	04/03/2023	ND	188	94.0	200	1.87	
DRO >C10-C28*	5430	50.0	04/03/2023	ND	202	101	200	2.40	
EXT DRO >C28-C36	845	50.0	04/03/2023	ND					
Surrogate: 1-Chlorooctane	177	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	154	% 49.1-14	18						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager


ENSOLUM KALEI JENNINGS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	04/03/2023	Sampling Date:	03/31/2023
Reported:	04/05/2023	Sampling Type:	Soil
Project Name:	SC FEDERAL BATTERY / MAVERICK	Sampling Condition:	Cool & Intact
Project Number:	03DR057069	Sample Received By:	Shalyn Rodriguez
Project Location:	32.8175-103.7481		

#### Sample ID: FS 13 @ 4' (H231506-06)

BTEX 8021B	mg	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	7.76	1.00	04/03/2023	ND	1.80	89.9	2.00	1.77	
Toluene*	114	1.00	04/03/2023	ND	1.90	95.1	2.00	2.07	
Ethylbenzene*	120	1.00	04/03/2023	ND	1.96	98.1	2.00	0.600	
Total Xylenes*	159	3.00	04/03/2023	ND	5.96	99.3	6.00	0.684	
Total BTEX	400	6.00	04/03/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	122	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	8160	16.0	04/03/2023	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	ed By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10*	4420	50.0	04/03/2023	ND	188	94.0	200	1.87	
DRO >C10-C28*	14500	50.0	04/03/2023	ND	202	101	200	2.40	
EXT DRO >C28-C36	2300	50.0	04/03/2023	ND					
Surrogate: 1-Chlorooctane	311	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	269	% 49.1-14	18						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM KALEI JENNINGS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	04/03/2023	Sampling Date:	03/31/2023
Reported:	04/05/2023	Sampling Type:	Soil
Project Name:	SC FEDERAL BATTERY / MAVERICK	Sampling Condition:	Cool & Intact
Project Number:	03DR057069	Sample Received By:	Shalyn Rodriguez
Project Location:	32.8175-103.7481		

#### Sample ID: FS 14 @ .5' (H231506-07)

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/03/2023	ND	1.80	89.9	2.00	1.77	
Toluene*	0.229	0.050	04/03/2023	ND	1.90	95.1	2.00	2.07	
Ethylbenzene*	0.146	0.050	04/03/2023	ND	1.96	98.1	2.00	0.600	
Total Xylenes*	0.191	0.150	04/03/2023	ND	5.96	99.3	6.00	0.684	
Total BTEX	0.565	0.300	04/03/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	04/03/2023	ND	400	100	400	3.92	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/03/2023	ND	188	94.0	200	1.87	
DRO >C10-C28*	140	10.0	04/03/2023	ND	202	101	200	2.40	
EXT DRO >C28-C36	35.8	10.0	04/03/2023	ND					
Surrogate: 1-Chlorooctane	89.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

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\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM KALEI JENNINGS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	04/03/2023	Sampling Date:	03/31/2023
Reported:	04/05/2023	Sampling Type:	Soil
Project Name:	SC FEDERAL BATTERY / MAVERICK	Sampling Condition:	Cool & Intact
Project Number:	03DR057069	Sample Received By:	Shalyn Rodriguez
Project Location:	32.8175-103.7481		

#### Sample ID: FS 15 @ 1.5' (H231506-08)

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/03/2023	ND	1.80	89.9	2.00	1.77	
Toluene*	0.090	0.050	04/03/2023	ND	1.90	95.1	2.00	2.07	
Ethylbenzene*	0.060	0.050	04/03/2023	ND	1.96	98.1	2.00	0.600	
Total Xylenes*	<0.150	0.150	04/03/2023	ND	5.96	99.3	6.00	0.684	
Total BTEX	<0.300	0.300	04/03/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	04/03/2023	ND	400	100	400	3.92	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/03/2023	ND	188	94.0	200	1.87	
DRO >C10-C28*	15.3	10.0	04/03/2023	ND	202	101	200	2.40	
EXT DRO >C28-C36	10.4	10.0	04/03/2023	ND					
Surrogate: 1-Chlorooctane	83.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



ENSOLUM KALEI JENNINGS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	04/03/2023	Sampling Date:	03/31/2023
Reported:	04/05/2023	Sampling Type:	Soil
Project Name:	SC FEDERAL BATTERY / MAVERICK	Sampling Condition:	Cool & Intact
Project Number:	03DR057069	Sample Received By:	Shalyn Rodriguez
Project Location:	32.8175-103.7481		

#### Sample ID: FS 16 @ 1.5' (H231506-09)

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/03/2023	ND	1.80	89.9	2.00	1.77	
Toluene*	0.132	0.050	04/03/2023	ND	1.90	95.1	2.00	2.07	
Ethylbenzene*	0.115	0.050	04/03/2023	ND	1.96	98.1	2.00	0.600	
Total Xylenes*	<0.150	0.150	04/03/2023	ND	5.96	99.3	6.00	0.684	
Total BTEX	<0.300	0.300	04/03/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	04/03/2023	ND	400	100	400	3.92	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/03/2023	ND	188	94.0	200	1.87	
DRO >C10-C28*	29.8	10.0	04/03/2023	ND	202	101	200	2.40	
EXT DRO >C28-C36	15.3	10.0	04/03/2023	ND					
Surrogate: 1-Chlorooctane	85.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.9	% 49.1-14	8						

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ENSOLUM KALEI JENNINGS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	04/03/2023	Sampling Date:	03/31/2023
Reported:	04/05/2023	Sampling Type:	Soil
Project Name:	SC FEDERAL BATTERY / MAVERICK	Sampling Condition:	Cool & Intact
Project Number:	03DR057069	Sample Received By:	Shalyn Rodriguez
Project Location:	32.8175-103.7481		

#### Sample ID: FS 17 @ 1.5' (H231506-10)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/03/2023	ND	1.80	89.9	2.00	1.77	
Toluene*	0.071	0.050	04/03/2023	ND	1.90	95.1	2.00	2.07	
Ethylbenzene*	<0.050	0.050	04/03/2023	ND	1.96	98.1	2.00	0.600	
Total Xylenes*	<0.150	0.150	04/03/2023	ND	5.96	99.3	6.00	0.684	
Total BTEX	<0.300	0.300	04/03/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2040	16.0	04/03/2023	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/03/2023	ND	188	94.0	200	1.87	
DRO >C10-C28*	271	10.0	04/03/2023	ND	202	101	200	2.40	
EXT DRO >C28-C36	72.2	10.0	04/03/2023	ND					
Surrogate: 1-Chlorooctane	84.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.7	% 49.1-14	8						

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ENSOLUM KALEI JENNINGS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	04/03/2023	Sampling Date:	03/31/2023
Reported:	04/05/2023	Sampling Type:	Soil
Project Name:	SC FEDERAL BATTERY / MAVERICK	Sampling Condition:	Cool & Intact
Project Number:	03DR057069	Sample Received By:	Shalyn Rodriguez
Project Location:	32.8175-103.7481		

#### Sample ID: FS 18 @ 1.5' (H231506-11)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/03/2023	ND	1.80	89.9	2.00	1.77	
Toluene*	0.086	0.050	04/03/2023	ND	1.90	95.1	2.00	2.07	
Ethylbenzene*	<0.050	0.050	04/03/2023	ND	1.96	98.1	2.00	0.600	
Total Xylenes*	<0.150	0.150	04/03/2023	ND	5.96	99.3	6.00	0.684	
Total BTEX	<0.300	0.300	04/03/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	04/03/2023	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/03/2023	ND	188	94.0	200	1.87	
DRO >C10-C28*	88.9	10.0	04/03/2023	ND	202	101	200	2.40	
EXT DRO >C28-C36	35.6	10.0	04/03/2023	ND					
Surrogate: 1-Chlorooctane	87.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.2	% 49.1-14	8						

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ENSOLUM KALEI JENNINGS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	04/03/2023	Sampling Date:	03/30/2023
Reported:	04/05/2023	Sampling Type:	Soil
Project Name:	SC FEDERAL BATTERY / MAVERICK	Sampling Condition:	Cool & Intact
Project Number:	03DR057069	Sample Received By:	Shalyn Rodriguez
Project Location:	32.8175-103.7481		

#### Sample ID: FS 06 @ 1.5' (H231506-12)

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.052	0.050	04/03/2023	ND	1.80	89.9	2.00	1.77	
Toluene*	0.370	0.050	04/03/2023	ND	1.90	95.1	2.00	2.07	
Ethylbenzene*	0.141	0.050	04/03/2023	ND	1.96	98.1	2.00	0.600	
Total Xylenes*	0.179	0.150	04/03/2023	ND	5.96	99.3	6.00	0.684	
Total BTEX	0.742	0.300	04/03/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8000	16.0	04/03/2023	ND	400	100	400	3.92	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/03/2023	ND	188	94.0	200	1.87	
DRO >C10-C28*	120	10.0	04/03/2023	ND	202	101	200	2.40	
EXT DRO >C28-C36	27.9	10.0	04/03/2023	ND					
Surrogate: 1-Chlorooctane	85.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.7	% 49.1-14	8						

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ENSOLUM KALEI JENNINGS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	04/03/2023	Sampling Date:	03/30/2023
Reported:	04/05/2023	Sampling Type:	Soil
Project Name:	SC FEDERAL BATTERY / MAVERICK	Sampling Condition:	Cool & Intact
Project Number:	03DR057069	Sample Received By:	Shalyn Rodriguez
Project Location:	32.8175-103.7481		

#### Sample ID: FS 07 @ 1.5' (H231506-13)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/03/2023	ND	1.85	92.4	2.00	3.16	
Toluene*	<0.050	0.050	04/03/2023	ND	1.93	96.3	2.00	4.31	
Ethylbenzene*	<0.050	0.050	04/03/2023	ND	2.08	104	2.00	5.73	
Total Xylenes*	<0.150	0.150	04/03/2023	ND	6.39	107	6.00	7.57	
Total BTEX	<0.300	0.300	04/03/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	04/03/2023	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/03/2023	ND	188	94.0	200	1.87	
DRO >C10-C28*	<10.0	10.0	04/03/2023	ND	202	101	200	2.40	
EXT DRO >C28-C36	<10.0	10.0	04/03/2023	ND					
Surrogate: 1-Chlorooctane	89.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.1	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM KALEI JENNINGS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	04/03/2023	Sampling Date:	03/30/2023
Reported:	04/05/2023	Sampling Type:	Soil
Project Name:	SC FEDERAL BATTERY / MAVERICK	Sampling Condition:	Cool & Intact
Project Number:	03DR057069	Sample Received By:	Shalyn Rodriguez
Project Location:	32.8175-103.7481		

#### Sample ID: FS 08 @ 1.5' (H231506-14)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/03/2023	ND	1.85	92.4	2.00	3.16	
Toluene*	<0.050	0.050	04/03/2023	ND	1.93	96.3	2.00	4.31	
Ethylbenzene*	<0.050	0.050	04/03/2023	ND	2.08	104	2.00	5.73	
Total Xylenes*	<0.150	0.150	04/03/2023	ND	6.39	107	6.00	7.57	
Total BTEX	<0.300	0.300	04/03/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	04/03/2023	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/03/2023	ND	188	94.0	200	1.87	
DRO >C10-C28*	<10.0	10.0	04/03/2023	ND	202	101	200	2.40	
EXT DRO >C28-C36	<10.0	10.0	04/03/2023	ND					
Surrogate: 1-Chlorooctane	87.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.4	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM KALEI JENNINGS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	04/03/2023	Sampling Date:	03/30/2023
Reported:	04/05/2023	Sampling Type:	Soil
Project Name:	SC FEDERAL BATTERY / MAVERICK	Sampling Condition:	Cool & Intact
Project Number:	03DR057069	Sample Received By:	Shalyn Rodriguez
Project Location:	32.8175-103.7481		

#### Sample ID: FS 01 @ 4' (H231506-15)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	9.89	1.00	04/03/2023	ND	1.85	92.4	2.00	3.16	
Toluene*	119	1.00	04/03/2023	ND	1.93	96.3	2.00	4.31	
Ethylbenzene*	125	1.00	04/03/2023	ND	2.08	104	2.00	5.73	
Total Xylenes*	190	3.00	04/03/2023	ND	6.39	107	6.00	7.57	
Total BTEX	444	6.00	04/03/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	120	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9120	16.0	04/03/2023	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	4920	50.0	04/03/2023	ND	188	94.0	200	1.87	
DRO >C10-C28*	17700	50.0	04/03/2023	ND	202	101	200	2.40	
EXT DRO >C28-C36	2910	50.0	04/03/2023	ND					
Surrogate: 1-Chlorooctane	415	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	331	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



ENSOLUM KALEI JENNINGS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	04/03/2023	Sampling Date:	03/30/2023
Reported:	04/05/2023	Sampling Type:	Soil
Project Name:	SC FEDERAL BATTERY / MAVERICK	Sampling Condition:	Cool & Intact
Project Number:	03DR057069	Sample Received By:	Shalyn Rodriguez
Project Location:	32.8175-103.7481		

#### Sample ID: FS 02 @ 4' (H231506-16)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.92	1.00	04/03/2023	ND	1.85	92.4	2.00	3.16	
Toluene*	74.1	1.00	04/03/2023	ND	1.93	96.3	2.00	4.31	
Ethylbenzene*	88.7	1.00	04/03/2023	ND	2.08	104	2.00	5.73	
Total Xylenes*	139	3.00	04/03/2023	ND	6.39	107	6.00	7.57	
Total BTEX	304	6.00	04/03/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7920	16.0	04/03/2023	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	3510	50.0	04/03/2023	ND	188	94.0	200	1.87	
DRO >C10-C28*	13100	50.0	04/03/2023	ND	202	101	200	2.40	
EXT DRO >C28-C36	2250	50.0	04/03/2023	ND					
Surrogate: 1-Chlorooctane	319	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	246	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



ENSOLUM KALEI JENNINGS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	04/03/2023	Sampling Date:	03/30/2023
Reported:	04/05/2023	Sampling Type:	Soil
Project Name:	SC FEDERAL BATTERY / MAVERICK	Sampling Condition:	Cool & Intact
Project Number:	03DR057069	Sample Received By:	Shalyn Rodriguez
Project Location:	32.8175-103.7481		

#### Sample ID: SW 04 @ 0-3' (H231506-17)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/03/2023	ND	1.85	92.4	2.00	3.16	
Toluene*	0.137	0.050	04/03/2023	ND	1.93	96.3	2.00	4.31	
Ethylbenzene*	0.081	0.050	04/03/2023	ND	2.08	104	2.00	5.73	
Total Xylenes*	<0.150	0.150	04/03/2023	ND	6.39	107	6.00	7.57	
Total BTEX	<0.300	0.300	04/03/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/03/2023	ND	400	100	400	3.92	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/03/2023	ND	188	94.0	200	1.87	
DRO >C10-C28*	<10.0	10.0	04/03/2023	ND	202	101	200	2.40	
EXT DRO >C28-C36	<10.0	10.0	04/03/2023	ND					
Surrogate: 1-Chlorooctane	94.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101 9	% 49.1-14	8						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM KALEI JENNINGS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received:	04/03/2023	Sampling Date:	03/30/2023
Reported:	04/05/2023	Sampling Type:	Soil
Project Name:	SC FEDERAL BATTERY / MAVERICK	Sampling Condition:	Cool & Intact
Project Number:	03DR057069	Sample Received By:	Shalyn Rodriguez
Project Location:	32.8175-103.7481		

#### Sample ID: SW 05 @ 0-3' (H231506-18)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/03/2023	ND	1.85	92.4	2.00	3.16	
Toluene*	0.062	0.050	04/03/2023	ND	1.93	96.3	2.00	4.31	
Ethylbenzene*	<0.050	0.050	04/03/2023	ND	2.08	104	2.00	5.73	
Total Xylenes*	<0.150	0.150	04/03/2023	ND	6.39	107	6.00	7.57	
Total BTEX	<0.300	0.300	04/03/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/03/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/03/2023	ND	188	94.0	200	1.87	
DRO >C10-C28*	<10.0	10.0	04/03/2023	ND	202	101	200	2.40	
EXT DRO >C28-C36	<10.0	10.0	04/03/2023	ND					
Surrogate: 1-Chlorooctane	87.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.1	% 49.1-14	8						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### **Notes and Definitions**

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### Received by OCD: 9/19/2023 3:34:03 PM

Page 21 of 22

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

D D

oratories

J

Page 51 of 166

Ind. Hobbs, NM 823         State: NM Hot       Bull TO         Project Owner:       PO. 8:         UNATION       Rest         Direction For AS:       Poletic Owner:         UNATION       Rest       Direction For AS:         Direction For AS:       Poletic Owner:       Poletic Owner:       Poletic Owner:         UNATION       Rest       Direction For AS:       Poletic Owner:         UNATION       Rest       Direction For AS:       Direction For AS:         UNATION       Rest       Direction For AS:       Direction For AS:      <		Sampler - UPS - Bus - Other:	Delivered By: (Circle One)	Relinquished By:	N NNMA	service. In no event shall Cardinal be liable for incident affiliates or successors arising out of or related to the pr	PLEASE NOTE: Liability and Damages, Cardina analyses. All claims including those for negligen		18 5000	19 1000	15 1501	14 1008	1 LSO	X 12 FS06	SIC3 11 1	H231506	Lab I.D. S		FOR LAB USE ONLY	Sampler Name:	Project Location: 22, S	Project Name: & SCF	Project #: 08/00/05/1	Phone #: 5/1-683-	city: WUTSDOLD	Address; 5/12 100t	Project Manager: VAL	Company Name:	101 East (575) 39	Lab
		Corrected Temp.		100	B	incidental or consequental damages, including withou to the performance of services hereunder by Cardinal	al's liability and client's exclusive remedy for any clain noe and any other cause whatsoever shall be deemed		1001	02	04			el.s.	50150	(G)RA	Sample I.D.	)OMP.		Ma Falminata	15, -103, 7481. 0	Ealina Kattery	069 Project Owner:		NM	INNAN HARNSHWY	1 Jenning	MULL LLC	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476	oratories
	ot accept verbal changes. Please	Cool Intact A Yes Yes No No No	Z	ceived By:	ceived By:	A fanitation, business interruptions, loss of use, or loss of , regardless of whether such claim is based upon any of	n arising whether based in contract or lort, shall be limite d walved unless made in writing and raceived by Cardina									# CON GROU WAST SOIL OIL SLUDO OTHEI ACID/E	TAINER NDWAT EWATE BE R : BASE: COOL (	IS TER		Fax #:	Phone #:	hidh	City:		88170	Company:	P.O. #:			
ANALYSIS REQUEST	email changes to celey.keene		RY.	REMARKS:	All Results are emaile	profits incurred by client, its subsidiaries, the above stated reasons or otherwise.	d to the amount paid by the client for the I within 30 days after completion of the appricable	t 1000 2 1	1270	0/01	/300	1200	-	30/23 1	13 105	DATE	TFX Dul		٦			Zip:								CHAIN-OF-C
		Rush Cool Infract Rush Cool Infract Ves Yes No	Quys	5 AV RASOLIMA. DOWN	Yes □ No Add't Phone #: / Ctury	* Customer requested us	VDI										1.1	LIDF	25											CUSTODY AND ANALYSIS REQUEST

#### Received by OCD: 9/19/2023 3:34:03 PM 110

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April 18, 2023

KALEI JENNINGS ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND, TX 79705

**RE: SC FEDERAL BATTERY** 

Enclosed are the results of analyses for samples received by the laboratory on 04/13/23 13:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



ENSOLUM, LLC KALEI JENNINGS 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received:	04/13/2023	Sampling Date:	04/13/2023
Reported:	04/18/2023	Sampling Type:	Soil
Project Name:	SC FEDERAL BATTERY	Sampling Condition:	** (See Notes)
Project Number:	03D20257069	Sample Received By:	Tamara Oldaker
Project Location:	32.8175,-103.7481 (LEA)		

#### Sample ID: FS 01 A (H231779-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/15/2023	ND	1.84	92.2	2.00	0.504	
Toluene*	<0.050	0.050	04/15/2023	ND	2.00	100	2.00	0.207	
Ethylbenzene*	<0.050	0.050	04/15/2023	ND	2.09	104	2.00	1.19	
Total Xylenes*	<0.150	0.150	04/15/2023	ND	6.43	107	6.00	0.420	
Total BTEX	<0.300	0.300	04/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1840	16.0	04/14/2023	ND	432	108	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/15/2023	ND	170	84.9	200	3.47	
DRO >C10-C28*	24.7	10.0	04/15/2023	ND	180	90.0	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	04/15/2023	ND					
Surrogate: 1-Chlorooctane	96.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	ENSOLUM, LLC		
	KALEI JENNINGS		
	705 W WADLEY AVE.		
	MIDLAND TX, 79705		
	Fax To:		
04/13/2023		Sampling Date:	
04/10/2022		Course Trans	

Received:	04/13/2023	Sampling Date:	04/13/2023
Reported:	04/18/2023	Sampling Type:	Soil
Project Name:	SC FEDERAL BATTERY	Sampling Condition:	** (See Notes)
Project Number:	03D20257069	Sample Received By:	Tamara Oldaker
Project Location:	32.8175,-103.7481 (LEA)		

#### Sample ID: FS 02 A (H231779-02)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/15/2023	ND	1.84	92.2	2.00	0.504	
Toluene*	<0.050	0.050	04/15/2023	ND	2.00	100	2.00	0.207	
Ethylbenzene*	<0.050	0.050	04/15/2023	ND	2.09	104	2.00	1.19	
Total Xylenes*	<0.150	0.150	04/15/2023	ND	6.43	107	6.00	0.420	
Total BTEX	<0.300	0.300	04/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	04/14/2023	ND	432	108	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/15/2023	ND	170	84.9	200	3.47	
DRO >C10-C28*	12.0	10.0	04/15/2023	ND	180	90.0	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	04/15/2023	ND					
Surrogate: 1-Chlorooctane	91.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	ENSOLUM, LLC		
	KALEI JENNINGS		
	705 W WADLEY AVE.		
	MIDLAND TX, 79705		
	Fax To:		
04/13/2023		Sampling Date:	
		- ··	

Received:	04/13/2023	Sampling Date:	04/13/2023
Reported:	04/18/2023	Sampling Type:	Soil
Project Name:	SC FEDERAL BATTERY	Sampling Condition:	** (See Notes)
Project Number:	03D20257069	Sample Received By:	Tamara Oldaker
Project Location:	32.8175,-103.7481 (LEA)		

#### Sample ID: FS 12 A (H231779-03)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/15/2023	ND	1.84	92.2	2.00	0.504	
Toluene*	<0.050	0.050	04/15/2023	ND	2.00	100	2.00	0.207	
Ethylbenzene*	<0.050	0.050	04/15/2023	ND	2.09	104	2.00	1.19	
Total Xylenes*	<0.150	0.150	04/15/2023	ND	6.43	107	6.00	0.420	
Total BTEX	<0.300	0.300	04/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	04/14/2023	ND	432	108	400	3.64	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/15/2023	ND	170	84.9	200	3.47	
DRO >C10-C28*	<10.0	10.0	04/15/2023	ND	180	90.0	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	04/15/2023	ND					
Surrogate: 1-Chlorooctane	91.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.7	% 49.1-14	8						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	ENSOLUM, LLC	
	KALEI JENNINGS	
	705 W WADLEY AVE.	
	MIDLAND TX, 79705	
	Fax To:	
04/13/2023		Sampling Date:

Received:	04/13/2023	Sampling Date:	04/13/2023
Reported:	04/18/2023	Sampling Type:	Soil
Project Name:	SC FEDERAL BATTERY	Sampling Condition:	** (See Notes)
Project Number:	03D20257069	Sample Received By:	Tamara Oldaker
Project Location:	32.8175,-103.7481 (LEA)		

#### Sample ID: FS 13 A (H231779-04)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/15/2023	ND	1.84	92.2	2.00	0.504	
Toluene*	<0.050	0.050	04/15/2023	ND	2.00	100	2.00	0.207	
Ethylbenzene*	<0.050	0.050	04/15/2023	ND	2.09	104	2.00	1.19	
Total Xylenes*	<0.150	0.150	04/15/2023	ND	6.43	107	6.00	0.420	
Total BTEX	<0.300	0.300	04/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	04/14/2023	ND	432	108	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/15/2023	ND	170	84.9	200	3.47	
DRO >C10-C28*	20.2	10.0	04/15/2023	ND	180	90.0	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	04/15/2023	ND					
Surrogate: 1-Chlorooctane	96.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107 9	% 49.1-14	8						

#### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 7 of 7

	(575) 393-2326 FAX (5/5) 393-24/b	11 70		ANALYSIS REQUEST	EST
Project Manager: Kaloi Jenting	P.O. #		1	1	12 1 1 1 1 1
N. Mar	A SE #400 Company: Eysduur,	isdum, LLC	t V		- 1
	Zip: 79701	Jaming S			
Phone #: 817-683-2503	Fax #:	Address: 601 N. Maniastell S. 40			
Project #: 13 20257069	Project Owner:	ind			
Project Name: SC Federal I	ater	Zip: 79701			
32,8175	SI (Lea)	Phone #: 817-683-7503			
Pater Vou					
Sampler Name: Teta Van	MATRIX	SAMPLING			
FOR LAB USE ONLY	R				
Lab I.D. Sample I.D.	G)RAB OR (C)OM CONTAINERS GROUNDWATER VASTEWATER SOIL DIL SLUDGE DTHER : ACID/BASE: CE / COOL DTHER :	TIME	BTEX		
AILYA MITCA		-	XX		
			XX		
m	CIV	4-13-23 1035 ×	× ×		
HEIST P	C 1 V V	4-13-23 1040 ×	×		
SE NOTE: Liability and Damages. Cardinal's liability and	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the pplicable pLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the applicable pLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the applicable planet.	to the amount paid by the client for the within 30 days after completion of the applic	able		
service. In no event shall Cardinal be liable for incidental or col affiliates or successors arising out of or related to the performat	service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or ross or promis incurve up vomin, as avoid the above stated reasons or otherwise. affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	he above stated reasons or otherwise.	TYes TVNO	Add'l Phone #:	
Relinquished By:	Time: Received By:	and the owner where the party is not	mailed. Please pro	2 -	
al for falle	1300 JUNIA CLARA	REMARKS:	2	) (	00
Relinauished By:		NEWDING:	Cooler Iven	here 100	(
		(			
		(			Comple Condition
cle One)	Temp. °C C.S Sample Condition	CHECKED BY: Turnaround Time: (Initials)	e: Standard	q	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C

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H

Received by OCD: 9/19/2023 3:34:03 PM



**Environment Testing** 

# **ANALYTICAL REPORT**

# PREPARED FOR

Attn: Kalei Jennings Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701 Generated 1/19/2023 1:53:31 PM

# **JOB DESCRIPTION**

SC Federal Battery SDG NUMBER 03D2057069

# **JOB NUMBER**

890-3832-1

RT OR hings blum d St. 400 9701 31 PM

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

See page two for job notes and contact information.

Received by OCD: 9/19/2023 3:34:03 PM

1

# **Eurofins Carlsbad**

Job Notes

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

# Authorization

RAMER

Generated 1/19/2023 1:53:31 PM

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

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

Laboratory Job ID: 890-3832-1 SDG: 03D2057069

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Method Summary	29
Sample Summary	30
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Receipt Checklists	32

ceived by OCD	): 9/19/2023 3:34:03 PM	Page 63 of 1	166
	Definitions/Glossary		
Client: Ensolum Proiect/Site: SC	n C Federal Battery	Job ID: 890-3832-1 SDG: 03D2057069	
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.		
F2	MS/MSD RPD exceeds control limits		
S1+	Surrogate recovery exceeds control limits, high biased.		
U	Indicates the analyte was analyzed for but not detected.		
	······································		
GC Semi VOA	Quelline Description		
Qualifier S1+	Qualifier Description		
51+ U	Surrogate recovery exceeds control limits, high biased.		
	Indicates the analyte was analyzed for but not detected.		
HPLC/IC			
Qualifier	Qualifier Description		
F1	MS and/or MSD recovery exceeds control limits.		
U	Indicates the analyte was analyzed for but not detected.		
Glossary			
Abbreviation	These commonly used abbreviations may or may not be present in this report.		
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis		
%R	Percent Recovery		
CFL	Contains Free Liquid		
CFU	Colony Forming Unit		
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)		

Method Detection Limit

Minimum Level (Dioxin)

Most Probable Number Method Quantitation Limit

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

Not Calculated

Negative / Absent

Positive / Present Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin)

Too Numerous To Count

Reporting Limit or Requested Limit (Radiochemistry)

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

Presumptive Quality Control

MDL ML

MPN

MQL

NC ND

NEG

POS

PQL PRES

QC RER

RL

RPD TEF

TEQ TNTC

Eurofins Carlsbad

Job ID: 890-3832-1 SDG: 03D2057069

#### Job ID: 890-3832-1

#### Laboratory: Eurofins Carlsbad

#### Narrative

Job Narrative 890-3832-1

#### Receipt

The samples were received on 1/11/2023 4:35 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 4.0°C

#### **Receipt Exceptions**

The following samples were received and analyzed from an unpreserved bulk soil jar: SS01 (890-3832-1), SS02 (890-3832-2), SS03 (890-3832-3), SS04 (890-3832-4), SS05 (890-3832-5), SS06 (890-3832-6), SS07 (890-3832-7) and SS08 (890-3832-8).

#### GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: SS01 (890-3832-1), SS03 (890-3832-3) and SS04 (890-3832-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-43910 and analytical batch 880-43961 was outside control limits. Sample matrix interference and/or non-homogeneity is suspected.

Method 8021B: LCSD biased high. Since only an acceptable LCS is required per the method, the data has been qualified and reported. (LCSD 880-43910/2-A)

Method 8021B: Surrogate recovery for the following samples were outside control limits: SS01 (890-3832-1), SS02 (890-3832-2), SS03 (890-3832-3) and SS04 (890-3832-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-43991 and analytical batch 880-44129 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

#### GC Semi VOA

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: SS01 (890-3832-1), SS02 (890-3832-2), SS03 (890-3832-3), SS04 (890-3832-4), SS05 (890-3832-5), SS06 (890-3832-6), SS07 (890-3832-7), SS08 (890-3832-8), (MB 880-43909/1-A) and (890-3831-A-1-A). Evidence of matrix interferences is not obvious.

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

#### HPLC/IC

Method 300\_ORGFM\_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-43971 and analytical batch 880-44147 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

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

Result Qualifier

13.6 \*+

164

140 119

22.6

RL

0.201

0.996

0.996

1.99

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

D

Prepared

01/13/23 13:50

01/16/23 14:35

01/16/23 14:35

01/16/23 14:35

Job ID: 890-3832-1 SDG: 03D2057069

# Project/Site: SC Federal Battery Client Sample ID: SS01

Date Collected: 01/11/23 14:45 Date Received: 01/11/23 16:35

Sample Depth: 0.5'

Client: Ensolum

Analyte

Benzene

Toluene

Ethylbenzene

m-Xylene & p-Xylene

	000	
Lab Sample	e ID:	890-3832-1

Analyzed

01/16/23 17:05

01/17/23 14:12

01/17/23 14:12

01/17/23 14:12

Matrix: Solid

Dil Fac

100

500

500

500

11 12 13

m-Aylene a p-Aylene			1.00			01110/2011000	01/11/2011112	000
o-Xylene	56.9		0.996	mg/Kg		01/16/23 14:35	01/17/23 14:12	500
Xylenes, Total	176		1.99	mg/Kg		01/16/23 14:35	01/17/23 14:12	500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	469	S1+	70 - 130			01/13/23 13:50	01/16/23 17:05	100
1,4-Difluorobenzene (Surr)	109		70 - 130			01/13/23 13:50	01/16/23 17:05	100
- Method: TAL SOP Total BTEX - To	tal BTEX Calo	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	494		1.99	mg/Kg			01/17/23 14:40	1
- Method: SW846 8015 NM - Diesel	Range Organ	ics (DRO) (	GC)					
Analyte	• •	Qualifier	, RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	49100		499	mg/Kg			01/16/23 16:51	1
_ Method: SW846 8015B NM - Diese	l Range Orga	nics (DRO)	(GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	7860		499	mg/Kg		01/13/23 13:11	01/16/23 02:12	10
Diesel Range Organics (Over	36000		499	mg/Kg		01/13/23 13:11	01/16/23 02:12	10
C10-C28)				5.5				
Oll Range Organics (Over C28-C36)	5190		499	mg/Kg		01/13/23 13:11	01/16/23 02:12	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	248	S1+	70 - 130			01/13/23 13:11	01/16/23 02:12	10
o-Terphenyl	178	S1+	70 - 130			01/13/23 13:11	01/16/23 02:12	10
- Method: MCAWW 300.0 - Anions,	Ion Chromato	ography - S	oluble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6620		49.8	mg/Kg			01/17/23 12:08	10
Client Sample ID: SS02						Lab Sar	nple ID: 890-	3832-2
Date Collected: 01/11/23 14:47							Matri	ix: Solid
Date Received: 01/11/23 16:35								
Demails Denths 0 51								
Sample Depth: 0.5'								
Method: SW846 8021B - Volatile O	organic Comp	ounds (GC	)					
-		<mark>ounds (GC</mark> Qualifier	) RL	Unit	D	Prepared	Analyzed	Dil Fac
Method: SW846 8021B - Volatile O				<mark>Unit</mark> mg/Kg	<u>D</u>	Prepared 01/13/23 13:50	Analyzed 01/16/23 17:26	<b>Dil Fac</b>
Method: SW846 8021B - Volatile O Analyte	Result	Qualifier	RL		<u>D</u>	·		
Method: SW846 8021B - Volatile O Analyte Benzene	Result 4.53	Qualifier	<b>RL</b> 0.198	mg/Kg	<u>D</u>	01/13/23 13:50	01/16/23 17:26	100
Method: SW846 8021B - Volatile O Analyte Benzene Toluene	Result 4.53 42.7	Qualifier	RL           0.198           0.497	mg/Kg mg/Kg	<u> </u>	01/13/23 13:50 01/16/23 14:35	01/16/23 17:26 01/17/23 14:33	100 250

Eurofins Carlsbad

01/16/23 17:26

01/13/23 13:50

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**Xylenes**, Total

0.396

mg/Kg

100

# **Client Sample Results**

Job ID: 890-3832-1 SDG: 03D2057069

Matrix: Solid

5

Lab Sample ID: 890-3832-2

# Project/Site: SC Federal Battery Client Sample ID: SS02

Date Collected: 01/11/23 14:47 Date Received: 01/11/23 16:35

Sample Depth: 0.5'

Client: Ensolum

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130			01/13/23 13:50	01/16/23 17:26	100
1,4-Difluorobenzene (Surr)	105		70 - 130			01/13/23 13:50	01/16/23 17:26	100
Method: TAL SOP Total BTEX	- Total BTEX Calo	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	98.5		0.497	mg/Kg			01/17/23 14:40	1
Method: SW846 8015 NM - Dies	sel Range Organ	ics (DRO) (	GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	9760		250	mg/Kg			01/16/23 16:51	1
Method: SW846 8015B NM - Di	iesel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	945		250	mg/Kg		01/13/23 13:11	01/16/23 04:42	5
Diesel Range Organics (Over C10-C28)	7740		250	mg/Kg		01/13/23 13:11	01/16/23 04:42	Ę
Oll Range Organics (Over C28-C36)	1070		250	mg/Kg		01/13/23 13:11	01/16/23 04:42	Ę
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane		S1+	70 - 130			01/13/23 13:11	01/16/23 04:42	
o-Terphenyl	166	S1+	70 - 130			01/13/23 13:11	01/16/23 04:42	ł
-								
Method: MCAWW 300.0 - Anion	ns, Ion Chromato	ography - So	oluble					
		Qualifier	oluble RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Analyte		Qualifier		Unit mg/Kg	<u> </u>	Prepared	Analyzed 01/17/23 12:14	
Analyte Chloride Client Sample ID: SS03	Result	Qualifier	RL		<u> </u>		01/17/23 12:14	20 3832-3
Analyte Chloride Client Sample ID: SS03 rate Collected: 01/11/23 14:50	Result	Qualifier	RL		<u> </u>		01/17/23 12:14	20 3832-3
Analyte Chloride Client Sample ID: SS03 ate Collected: 01/11/23 14:50 ate Received: 01/11/23 16:35	Result	Qualifier	RL		<u> </u>		01/17/23 12:14	20 3832-3
Analyte Chloride Client Sample ID: SS03 ate Collected: 01/11/23 14:50 ate Received: 01/11/23 16:35 ample Depth: 0.5'	Result 13500	Qualifier F1	RL 99.2		<u>D</u>		01/17/23 12:14	20 3832-3
Analyte Chloride Chloride Chloride Collected: 01/11/23 14:50 ate Received: 01/11/23 16:35 ample Depth: 0.5' Method: SW846 8021B - Volatil	Result 13500	Qualifier F1	RL 99.2		D		01/17/23 12:14	20 3832-3 ix: Solic
Analyte Chloride lient Sample ID: SS03 ate Collected: 01/11/23 14:50 ate Received: 01/11/23 16:35 ample Depth: 0.5' Method: SW846 8021B - Volatil Analyte	Result 13500	Qualifier F1	RL 99.2	mg/Kg		Lab Sar	01/17/23 12:14 nple ID: 890- Matri	20 3832-3 ix: Solic
Analyte Chloride lient Sample ID: SS03 ate Collected: 01/11/23 14:50 ate Received: 01/11/23 16:35 ample Depth: 0.5' Method: SW846 8021B - Volatil Analyte Benzene	le Organic Comp Result	Qualifier F1	RL	mg/Kg		Lab San	01/17/23 12:14 nple ID: 890- Matri Analyzed	20 3832-3 ix: Solic Dil Fac
Analyte Chloride lient Sample ID: SS03 ate Collected: 01/11/23 14:50 ate Received: 01/11/23 16:35 ample Depth: 0.5' Method: SW846 8021B - Volatil Analyte Benzene Toluene	le Organic Comp Result 37.9	Qualifier F1	RL           99.2	mg/Kg		Lab San Prepared 01/16/23 14:35	01/17/23 12:14 nple ID: 890- Matri Analyzed 01/17/23 14:53	
Analyte Chloride ilient Sample ID: SS03 ate Collected: 01/11/23 14:50 ate Received: 01/11/23 16:35 ample Depth: 0.5' Method: SW846 8021B - Volatil Analyte Benzene Toluene Ethylbenzene	le Organic Comp Result 37.9 208	Qualifier F1	RL           99.2	Unit mg/Kg mg/Kg mg/Kg		Prepared           01/16/23 14:35           01/18/23 08:29	01/17/23 12:14 nple ID: 890- Matri Analyzed 01/17/23 14:53 01/18/23 14:39	20 3832-3 ix: Solic Dil Fac 500 1000 500
Analyte Chloride Chloride Client Sample ID: SS03 ate Collected: 01/11/23 14:50 ate Received: 01/11/23 16:35 ample Depth: 0.5' Method: SW846 8021B - Volatil Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	le Organic Comp Result 37.9 208 157	Qualifier F1	RL           99.2           RL           0.998           1.98           0.998	Unit mg/Kg mg/Kg mg/Kg mg/Kg		Prepared 01/16/23 14:35 01/18/23 08:29 01/16/23 14:35	01/17/23 12:14 nple ID: 890- Matri 01/17/23 14:53 01/18/23 14:39 01/17/23 14:53	20 3832-3 ix: Solic Dil Fac 500 1000 500 500
Analyte Chloride Chloride Chloride Client Sample ID: SS03 ate Collected: 01/11/23 14:50 ate Received: 01/11/23 16:35 ample Depth: 0.5' Method: SW846 8021B - Volatil Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene	Result 13500	Qualifier F1	RL           99.2           RL           0.998           1.98           0.998           2.00	Unit mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg		Prepared 01/16/23 14:35 01/18/23 08:29 01/16/23 14:35 01/16/23 14:35	01/17/23 12:14 nple ID: 890- Matri 01/17/23 14:53 01/17/23 14:53 01/17/23 14:53 01/17/23 14:53	20 3832-3 ix: Solic 500 1000 500 500 500
Analyte Chloride Client Sample ID: SS03 ate Collected: 01/11/23 14:50 ate Received: 01/11/23 16:35 ample Depth: 0.5' Method: SW846 8021B - Volatil Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate	Result 13500 le Organic Comp Result 37.9 208 157 125 59.7 185 %Recovery	Qualifier F1 Ounds (GC) Qualifier Qualifier	RL           99.2           RL           0.998           1.98           0.998           2.00           0.998           2.00           0.998           2.00           0.998           2.00           Limits	Unit mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg		Prepared           01/16/23 14:35           01/16/23 14:35           01/16/23 14:35           01/16/23 14:35           01/16/23 14:35           01/16/23 14:35           01/16/23 14:35           01/16/23 14:35           01/16/23 14:35           01/16/23 14:35           01/16/23 14:35           01/16/23 14:35           01/16/23 14:35           01/16/23 14:35	01/17/23 12:14 nple ID: 890- Matri 01/17/23 14:53 01/17/23 14:53 01/17/23 14:53 01/17/23 14:53 01/17/23 14:53 01/17/23 14:53 01/17/23 14:53 01/17/23 14:53 01/17/23 14:53	20 3832-3 ix: Solic 500 500 500 500 500 500 500 500 500 50
Analyte Chloride Client Sample ID: SS03 ate Collected: 01/11/23 14:50 ate Received: 01/11/23 16:35 ample Depth: 0.5' Method: SW846 8021B - Volatil Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate	Result 13500 le Organic Comp Result 37.9 208 157 125 59.7 185 %Recovery	Qualifier F1 Ounds (GC) Qualifier	RL           99.2           RL           0.998           1.98           0.998           2.00           0.998           2.00           0.998           2.00	Unit mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg		<b>Prepared</b> 01/16/23 14:35 01/18/23 08:29 01/16/23 14:35 01/16/23 14:35 01/16/23 14:35 01/16/23 14:35	Analyzed           01/17/23 12:14           nple ID: 890-           Matri           01/17/23 12:14           01/17/23 14:53           01/17/23 14:53           01/17/23 14:53           01/17/23 14:53           01/17/23 14:53           01/17/23 14:53           01/17/23 14:53           01/17/23 14:53           01/17/23 14:53           01/17/23 14:53           01/17/23 14:53	20 3832-3 ix: Solic 500 500 500 500 500 500 500 500 500 50
Analyte Chloride Client Sample ID: SS03 Date Collected: 01/11/23 14:50 Date Received: 01/11/23 16:35 Sample Depth: 0.5' Method: SW846 8021B - Volatil Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene	Result 13500 le Organic Comp Result 37.9 208 157 125 59.7 185 %Recovery	Qualifier F1 Ounds (GC) Qualifier Qualifier	RL           99.2           RL           0.998           1.98           0.998           2.00           0.998           2.00           0.998           2.00           0.998           2.00           Limits	Unit mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg		Prepared           01/16/23 14:35           01/16/23 14:35           01/16/23 14:35           01/16/23 14:35           01/16/23 14:35           01/16/23 14:35           01/16/23 14:35           01/16/23 14:35           01/16/23 14:35           01/16/23 14:35           01/16/23 14:35           01/16/23 14:35           01/16/23 14:35           01/16/23 14:35	01/17/23 12:14 nple ID: 890- Matri 01/17/23 14:53 01/17/23 14:53 01/17/23 14:53 01/17/23 14:53 01/17/23 14:53 01/17/23 14:53 01/17/23 14:53 01/17/23 14:53 01/17/23 14:53 01/17/23 14:53	20 3832-3 ix: Solic Dil Fac 500 500 500 500 500 00 500 500
Analyte Chloride Chloride Client Sample ID: SS03 Date Collected: 01/11/23 14:50 Date Received: 01/11/23 16:35 Sample Depth: 0.5' Method: SW846 8021B - Volatil Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX -	Result           13500           Isologic Comp           Result           37.9           208           157           125           59.7           185           %Recovery           538           91           - Total BTEX Calc	Qualifier F1 Qualifier Qualifier S1+ Cullation	RL           99.2           99.2           RL           0.998           1.98           0.998           2.00           0.998           2.00           0.998           2.00           0.998           2.00           0.998           2.00           0.998           2.00           0.998           2.00           0.998           2.00           0.998           2.00           1.30	Unit mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	Prepared           01/16/23 14:35           01/13/23 13:50           01/13/23 13:50	01/17/23 12:14 nple ID: 890- Matri 01/17/23 14:53 01/17/23 14:53	Dil Fac           500           1000           500
Chloride Client Sample ID: SS03 Date Collected: 01/11/23 14:50 Date Received: 01/11/23 16:35 Sample Depth: 0.5' Method: SW846 8021B - Volatil Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr)	Result           13500           Isologic Comp           Result           37.9           208           157           125           59.7           185           %Recovery           538           91           - Total BTEX Calc	Qualifier F1 Ounds (GC) Qualifier Qualifier S1+	RL           99.2           99.2           RL           0.998           1.98           0.998           2.00           0.998           2.00           0.998           2.00           0.998           2.00           0.998           2.00           0.998           2.00           0.998           2.00	Unit mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg		Prepared           01/16/23         14:35           01/16/23         14:35           01/16/23         14:35           01/16/23         14:35           01/16/23         14:35           01/16/23         14:35           01/16/23         14:35           01/16/23         14:35           01/16/23         14:35           01/16/23         14:35           01/16/23         14:35           01/16/23         14:35           01/16/23         14:35           01/16/23         14:35	01/17/23 12:14 nple ID: 890- Matri 01/17/23 14:53 01/17/23 14:53 01/17/23 14:53 01/17/23 14:53 01/17/23 14:53 01/17/23 14:53 01/17/23 14:53 01/17/23 14:53 01/17/23 14:53 01/17/23 14:53	20 3832-3 ix: Solic Dil Fac 500 500 500 500 500 00 500 500

Released to Imaging: 1/10/2024 11:56:33 AM

# **Client Sample Results**

Job ID: 890-3832-1 SDG: 03D2057069

Matrix: Solid

5

Lab Sample ID: 890-3832-3

# Project/Site: SC Federal Battery **Client Sample ID: SS03**

Date Collected: 01/11/23 14:50 Date Received: 01/11/23 16:35

Client: Ensolum

Method: SW846 8015 NM - Dies								
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	33400		500	mg/Kg			01/16/23 16:51	
Method: SW846 8015B NM - Di	esel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	7160		500	mg/Kg		01/13/23 13:11	01/16/23 02:34	1
Diesel Range Organics (Over C10-C28)	23100		500	mg/Kg		01/13/23 13:11	01/16/23 02:34	1
Oll Range Organics (Over C28-C36)	3180		500	mg/Kg		01/13/23 13:11	01/16/23 02:34	Ĩ
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	193	S1+	70 - 130			01/13/23 13:11	01/16/23 02:34	1
o-Terphenyl	167	S1+	70 - 130			01/13/23 13:11	01/16/23 02:34	1
Method: MCAWW 300.0 - Anior	ns, Ion Chromato	ography - So	oluble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	7050		50.4	mg/Kg			01/17/23 12:33	1
ate Received: 01/11/23 16:35 ample Depth: 0.5'	le Organic Comp	ounds (GC	)				Matri	x: Sol
ate Received: 01/11/23 16:35 ample Depth: 0.5' Method: SW846 8021B - Volatil		ounds (GC) Qualifier	) RL	Unit	D	Prepared	Analyzed	
ate Received: 01/11/23 16:35 ample Depth: 0.5' Method: SW846 8021B - Volatil Analyte				Unit mg/Kg	<u>D</u>	Prepared 01/16/23 14:35		Dil Fa
ate Received: 01/11/23 16:35 ample Depth: 0.5' Method: SW846 8021B - Volatil Analyte Benzene	Result		RL		<u>D</u>	· · · ·	Analyzed	<b>Dil F</b> a
ate Received: 01/11/23 16:35 ample Depth: 0.5' Method: SW846 8021B - Volatil Analyte Benzene Toluene	Result 39.8		<b>RL</b> 1.00	mg/Kg	<u>D</u>	01/16/23 14:35	Analyzed 01/17/23 15:14	<b>Dil F</b> i 50
ate Received: 01/11/23 16:35 ample Depth: 0.5' Method: SW846 8021B - Volatil Analyte Benzene Toluene Ethylbenzene	Result 39.8 229		RL           1.00           1.99	mg/Kg mg/Kg	<u>D</u>	01/16/23 14:35 01/18/23 08:29	Analyzed 01/17/23 15:14 01/18/23 15:00	<b>Dil Fa</b> 50 100 50
ate Received: 01/11/23 16:35 ample Depth: 0.5' Method: SW846 8021B - Volatil Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	Result 39.8 229 193		RL           1.00           1.99           1.00	mg/Kg mg/Kg mg/Kg	<u>D</u>	01/16/23 14:35 01/18/23 08:29 01/16/23 14:35	Analyzed 01/17/23 15:14 01/18/23 15:00 01/17/23 15:14	<b>Dil Fa</b> 50 100 50
ate Received: 01/11/23 16:35 ample Depth: 0.5' Method: SW846 8021B - Volatil Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene	Result 39.8 229 193 155		RL           1.00           1.99           1.00           2.00	mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	01/16/23 14:35 01/18/23 08:29 01/16/23 14:35 01/16/23 14:35	Analyzed 01/17/23 15:14 01/18/23 15:00 01/17/23 15:14 01/17/23 15:14	<b>Dil F</b> 50 100 50 50
ate Received: 01/11/23 16:35 ample Depth: 0.5' Method: SW846 8021B - Volatil Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Kylenes, Total	Result 39.8 229 193 155 74.9 230 %Recovery	Qualifier	RL           1.00           1.99           1.00           2.00           1.00	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	<u> </u>	01/16/23 14:35 01/18/23 08:29 01/16/23 14:35 01/16/23 14:35 01/16/23 14:35	Analyzed 01/17/23 15:14 01/18/23 15:00 01/17/23 15:14 01/17/23 15:14 01/17/23 15:14	<b>Dil F</b> 50 100 50 50 50
ate Received: 01/11/23 16:35 ample Depth: 0.5' Method: SW846 8021B - Volatil Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate	Result 39.8 229 193 155 74.9 230 %Recovery	Qualifier	RL           1.00           1.99           1.00           2.00           1.00           2.00	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	01/16/23 14:35 01/18/23 08:29 01/16/23 14:35 01/16/23 14:35 01/16/23 14:35 01/16/23 14:35	Analyzed 01/17/23 15:14 01/18/23 15:00 01/17/23 15:14 01/17/23 15:14 01/17/23 15:14 01/17/23 15:14	Dil Fa 50 100 50 50 50 50 Dil Fa
ate Received: 01/11/23 16:35 ample Depth: 0.5' Method: SW846 8021B - Volatil Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr)	Result 39.8 229 193 155 74.9 230 %Recovery	Qualifier	RL           1.00           1.99           1.00           2.00           1.00           2.00           1.00           2.00	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	01/16/23 14:35 01/18/23 08:29 01/16/23 14:35 01/16/23 14:35 01/16/23 14:35 01/16/23 14:35 01/16/23 14:35 Prepared	Analyzed 01/17/23 15:14 01/18/23 15:00 01/17/23 15:14 01/17/23 15:14 01/17/23 15:14 01/17/23 15:14 01/17/23 15:14 Analyzed	<b>Dil F</b> 50 50 50 50 <b>Dil F</b>
ate Received: 01/11/23 16:35 ample Depth: 0.5' Method: SW846 8021B - Volatil Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr)	Result           39.8           229           193           155           74.9           230           %Recovery           522           77	Qualifier Qualifier S1+	RL           1.00           1.99           1.00           2.00           1.00           2.00           1.00           2.00           70 - 130	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	01/16/23 14:35 01/18/23 08:29 01/16/23 14:35 01/16/23 14:35 01/16/23 14:35 01/16/23 14:35 01/16/23 14:35 <b>Prepared</b> 01/13/23 13:50	Analyzed 01/17/23 15:14 01/18/23 15:00 01/17/23 15:14 01/17/23 15:14 01/17/23 15:14 01/17/23 15:14 01/17/23 15:14 Analyzed 01/16/23 18:08	<b>Dil F</b> 50 50 50 50 <b>Dil F</b>
ate Received: 01/11/23 16:35 ample Depth: 0.5' Method: SW846 8021B - Volatil Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX -	Result 39.8 229 193 155 74.9 230 %Recovery 522 77 - Total BTEX Calo	Qualifier Qualifier S1+	RL           1.00           1.99           1.00           2.00           1.00           2.00           1.00           2.00           70 - 130	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	01/16/23 14:35 01/18/23 08:29 01/16/23 14:35 01/16/23 14:35 01/16/23 14:35 01/16/23 14:35 01/16/23 14:35 <b>Prepared</b> 01/13/23 13:50	Analyzed 01/17/23 15:14 01/18/23 15:00 01/17/23 15:14 01/17/23 15:14 01/17/23 15:14 01/17/23 15:14 01/17/23 15:14 Analyzed 01/16/23 18:08	<b>Dil Fa</b> 50 100 50 50 <b>Dil Fa</b> 10 10 10 10 10 10
ate Received: 01/11/23 16:35 ample Depth: 0.5' Method: SW846 8021B - Volatil Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Kylenes, Total Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX - Analyte	Result 39.8 229 193 155 74.9 230 %Recovery 522 77 - Total BTEX Calo	Qualifier Qualifier S1+	RL         1.00         1.99         1.00         2.00         1.00         2.00         1.00         2.00         1.00         2.00         1.00         2.00         1.00         2.00         1.00         2.00         1.00         2.00         1.00         70 - 130	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg		01/16/23 14:35 01/18/23 08:29 01/16/23 14:35 01/16/23 14:35 01/16/23 14:35 01/16/23 14:35 01/16/23 14:35 <b>Prepared</b> 01/13/23 13:50 01/13/23 13:50	Analyzed 01/17/23 15:14 01/18/23 15:00 01/17/23 15:14 01/17/23 15:14 01/17/23 15:14 01/17/23 15:14 01/17/23 15:14 01/16/23 18:08 01/16/23 18:08	Dil F: 5( 100 5( 5( 5( 5( 5( 10) 10) 10)
ate Received: 01/11/23 16:35 ample Depth: 0.5' Method: SW846 8021B - Volatil Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX - Analyte Total BTEX	Result           39.8           229           193           155           74.9           230           %Recovery           522           77           - Total BTEX Calc           Result           692	Qualifier Qualifier S1+ Culation Qualifier	RL           1.00           1.99           1.00           2.00           1.00           2.00           1.00           2.00           1.00           2.00           1.00           2.00           Limits           70 - 130           RL           2.00	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg		01/16/23 14:35 01/18/23 08:29 01/16/23 14:35 01/16/23 14:35 01/16/23 14:35 01/16/23 14:35 01/16/23 14:35 <b>Prepared</b> 01/13/23 13:50 01/13/23 13:50	Analyzed 01/17/23 15:14 01/18/23 15:00 01/17/23 15:14 01/17/23 15:14 01/17/23 15:14 01/17/23 15:14 01/17/23 15:14 01/16/23 18:08 01/16/23 18:08 Analyzed	Dil Fa 50 50 50 50 50 50 50 10 10
ate Received: 01/11/23 16:35 ample Depth: 0.5' Method: SW846 8021B - Volatil Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX - Analyte Total BTEX Method: SW846 8015 NM - Dies	Result           39.8           229           193           155           74.9           230           %Recovery           522           77           - Total BTEX Calc           Result           692           sel Range Organ	Qualifier Qualifier S1+ Culation Qualifier	RL           1.00           1.99           1.00           2.00           1.00           2.00           1.00           2.00           1.00           2.00           1.00           2.00           Limits           70 - 130           RL           2.00	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg		01/16/23 14:35 01/18/23 08:29 01/16/23 14:35 01/16/23 14:35 01/16/23 14:35 01/16/23 14:35 01/16/23 14:35 <b>Prepared</b> 01/13/23 13:50 01/13/23 13:50	Analyzed 01/17/23 15:14 01/18/23 15:00 01/17/23 15:14 01/17/23 15:14 01/17/23 15:14 01/17/23 15:14 01/17/23 15:14 01/16/23 18:08 01/16/23 18:08 Analyzed	Dil F: 50 50 50 011 F 10 Dil F:
ate Received: 01/11/23 16:35 ample Depth: 0.5' Method: SW846 8021B - Volatil Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX - Analyte Total BTEX Method: SW846 8015 NM - Dies Analyte	Result           39.8           229           193           155           74.9           230           %Recovery           522           77           - Total BTEX Calc           Result           692           sel Range Organ	Qualifier Qualifier S1+ Culation Qualifier ics (DRO) (	RL           1.00           1.99           1.00           2.00           1.00           2.00           1.00           2.00           1.00           2.00           1.00           2.00           Constant           70 - 130           RL           2.00	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg <b>Unit</b> mg/Kg	<u>D</u>	01/16/23 14:35 01/18/23 08:29 01/16/23 14:35 01/16/23 14:35 01/16/23 14:35 01/16/23 14:35 01/16/23 14:35 <b>Prepared</b> 01/13/23 13:50 01/13/23 13:50 <b>Prepared</b>	Analyzed 01/17/23 15:14 01/18/23 15:00 01/17/23 15:14 01/17/23 15:14 01/17/23 15:14 01/17/23 15:14 01/17/23 15:14 Analyzed 01/16/23 18:08 01/16/23 18:08 01/17/23 14:40	Dil F: 50 50 50 011 F 10 Dil F:
ate Received: 01/11/23 16:35 ample Depth: 0.5' Method: SW846 8021B - Volatil Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX - Analyte Total BTEX Method: SW846 8015 NM - Dies Analyte Total TPH	Result           39.8           229           193           155           74.9           230           %Recovery           522           77           - Total BTEX Calc           Result           692           sel Range Organ           Result           51300	Qualifier Qualifier S1+ Culation Qualifier ics (DRO) ( Qualifier	RL           1.00           1.99           1.00           2.00           1.00           2.00           1.00           2.00           1.00           2.00           1.00           2.00           Limits           70 - 130           70 - 130           RL           2.00           GC)           RL           500	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg <b>Unit</b> <b>Unit</b>	<u>D</u>	01/16/23 14:35 01/18/23 08:29 01/16/23 14:35 01/16/23 14:35 01/16/23 14:35 01/16/23 14:35 01/16/23 14:35 <b>Prepared</b> 01/13/23 13:50 01/13/23 13:50 <b>Prepared</b>	Analyzed           01/17/23 15:14           01/18/23 15:00           01/17/23 15:14           01/17/23 15:14           01/17/23 15:14           01/17/23 15:14           01/17/23 15:14           01/17/23 15:14           01/17/23 15:14           01/16/23 18:08           01/16/23 18:08           01/16/23 18:08           01/17/23 14:40           Analyzed           01/17/23 14:40	Dil F: 50 50 50 011 F 10 Dil F:
ate Received: 01/11/23 16:35 ample Depth: 0.5' Method: SW846 8021B - Volatil Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX - Analyte Total BTEX Method: SW846 8015 NM - Dies Analyte Total TPH Method: SW846 8015B NM - Dies	Result           39.8           229           193           155           74.9           230           %Recovery           522           77           - Total BTEX Calc           Result           692           sel Range Organ           Result           51300           esel Range Organ	Qualifier Qualifier S1+ Culation Qualifier ics (DRO) ( Qualifier	RL           1.00           1.99           1.00           2.00           1.00           2.00           1.00           2.00           1.00           2.00           1.00           2.00           Limits           70 - 130           70 - 130           RL           2.00           GC)           RL           500	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg <b>Unit</b> <b>Unit</b>	<u>D</u>	01/16/23 14:35 01/18/23 08:29 01/16/23 14:35 01/16/23 14:35 01/16/23 14:35 01/16/23 14:35 01/16/23 14:35 <b>Prepared</b> 01/13/23 13:50 01/13/23 13:50 <b>Prepared</b>	Analyzed           01/17/23 15:14           01/18/23 15:00           01/17/23 15:14           01/17/23 15:14           01/17/23 15:14           01/17/23 15:14           01/17/23 15:14           01/17/23 15:14           01/17/23 15:14           01/16/23 18:08           01/16/23 18:08           01/16/23 18:08           01/17/23 14:40           Analyzed           01/17/23 14:40	Dil Fa 50 50 50 50 50 50 50 10 10
ate Collected: 01/11/23 14:52 ate Received: 01/11/23 16:35 ample Depth: 0.5' Method: SW846 8021B - Volatil Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX - Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10	Result           39.8           229           193           155           74.9           230           %Recovery           522           77           - Total BTEX Calc           Result           692           sel Range Organ           Result           51300           esel Range Organ	Qualifier Qualifier S1+ Culation Qualifier ics (DRO) ( Qualifier	RL           1.00           1.99           1.00           2.00           1.00           2.00           1.00           2.00 <i>Limits</i> 70 - 130           70 - 130           RL           2.00           GC)           RL           500           (GC)	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg Unit mg/Kg	D	01/16/23 14:35 01/18/23 08:29 01/16/23 14:35 01/16/23 14:35 01/16/23 14:35 01/16/23 14:35 <b>Prepared</b> 01/13/23 13:50 01/13/23 13:50 <b>Prepared</b> <b>Prepared</b>	Analyzed           01/17/23 15:14           01/17/23 15:14           01/17/23 15:14           01/17/23 15:14           01/17/23 15:14           01/17/23 15:14           01/17/23 15:14           01/17/23 15:14           01/17/23 15:14           01/17/23 15:14           01/16/23 18:08           01/16/23 18:08           01/16/23 18:08           01/17/23 14:40           Analyzed           01/17/23 14:40           Analyzed           01/16/23 16:51	Dil Fa 50 100 50 50 01 10 10 Dil Fa Dil Fa

01/16/23 02:56

01/13/23 13:11

Diesel Range Organics (Over

C10-C28)

500

mg/Kg

37000

10

Client S	Sample	Results
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Job ID: 890-3832-1 SDG: 03D2057069

Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-3832-4

Lab Sample ID: 890-3832-5

# Project/Site: SC Federal Battery Client Sample ID: SS04

Date Collected: 01/11/23 14:52 Date Received: 01/11/23 16:35

## Sample Depth: 0.5'

Client: Ensolum

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	4930		500	mg/Kg		01/13/23 13:11	01/16/23 02:56	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130			01/13/23 13:11	01/16/23 02:56	10
o-Terphenyl	178	S1+	70 - 130			01/13/23 13:11	01/16/23 02:56	10

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8290		49.7	mg/Kg			01/17/23 12:39	10

#### **Client Sample ID: SS05**

Date Collected: 01/11/23 14:55 Date Received: 01/11/23 16:35

Sample Depth: 0.5'

Method: SW846 8021B - Volatile C	organic Comp	ounds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0996	U *+	0.0996	mg/Kg		01/13/23 13:50	01/16/23 16:03	50
Toluene	0.393		0.0996	mg/Kg		01/13/23 13:50	01/16/23 16:03	50
Ethylbenzene	0.280	*+	0.0996	mg/Kg		01/13/23 13:50	01/16/23 16:03	50
m-Xylene & p-Xylene	0.296		0.199	mg/Kg		01/13/23 13:50	01/16/23 16:03	50
o-Xylene	0.153		0.0996	mg/Kg		01/13/23 13:50	01/16/23 16:03	50
Xylenes, Total	0.449		0.199	mg/Kg		01/13/23 13:50	01/16/23 16:03	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130			01/13/23 13:50	01/16/23 16:03	50
1,4-Difluorobenzene (Surr)	110		70 - 130			01/13/23 13:50	01/16/23 16:03	50
Method: TAL SOP Total BTEX - To	tal BTEX Calo	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	1.12		0.199	mg/Kg			01/17/23 14:40	1
Method: SW846 8015 NM - Diesel	Range Organ	ics (DRO) (	GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/16/23 16:51	1
Method: SW846 8015B NM - Diese	el Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/13/23 13:11	01/15/23 22:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/13/23 13:11	01/15/23 22:59	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/13/23 13:11	01/15/23 22:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	137	S1+	70 - 130			01/13/23 13:11	01/15/23 22:59	1
o-Terphenyl	155	S1+	70 - 130			01/13/23 13:11	01/15/23 22:59	
								1
 Method: MCAWW 300.0 - Anions,	Ion Chromato	ography - So	oluble					1
Method: MCAWW 300.0 - Anions, Analyte		o <mark>graphy - S</mark> o Qualifier	oluble RL	Unit	D	Prepared	Analyzed	1 Dil Fac

Eurofins Carlsbad

Job ID: 890-3832-1 SDG: 03D2057069

# **Client Sample ID: SS06**

Project/Site: SC Federal Battery

Date Collected: 01/11/23 14:57 Date Received: 01/11/23 16:35

Sample Depth: 0.5'

Client: Ensolum

# Lab Sample ID: 890-3832-6

Matrix: Solid

	Organic Comp							
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0498	U *+	0.0498	mg/Kg		01/13/23 13:50	01/16/23 15:21	25
Toluene	<0.0498	U	0.0498	mg/Kg		01/13/23 13:50	01/16/23 15:21	25
Ethylbenzene	<0.0498	U *+	0.0498	mg/Kg		01/13/23 13:50	01/16/23 15:21	25
m-Xylene & p-Xylene	<0.0996	U	0.0996	mg/Kg		01/13/23 13:50	01/16/23 15:21	25
o-Xylene	<0.0498	U	0.0498	mg/Kg		01/13/23 13:50	01/16/23 15:21	25
Xylenes, Total	<0.0996	U	0.0996	mg/Kg		01/13/23 13:50	01/16/23 15:21	25
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			01/13/23 13:50	01/16/23 15:21	25
1,4-Difluorobenzene (Surr)	118		70 - 130			01/13/23 13:50	01/16/23 15:21	25
Method: TAL SOP Total BTEX - T	otal BTEX Calo	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0996	U	0.0996	mg/Kg			01/17/23 14:40	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (	GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/16/23 16:51	1
Method: SW846 8015B NM - Dies	el Rango Orga	nice (DRO)	(60)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics		-	50.0	mg/Kg	<u> </u>	01/13/23 13:11	01/15/23 23:20	1
(GRO)-C6-C10		-	30.0				2.1.10,20 20.20	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/13/23 13:11	01/15/23 23:20	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/13/23 13:11	01/15/23 23:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	129		70 - 130			01/13/23 13:11	01/15/23 23:20	1
o-Terphenyl	161	S1+	70 - 130			01/13/23 13:11	01/15/23 23:20	1
Method: MCAWW 300.0 - Anions	, Ion Chromato	ography - So	oluble					
Analyte	1	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	60.4		5.00	mg/Kg			01/17/23 13:03	1
lient Sample ID: SS07						Lab Sar	nple ID: 890-	3832-7
ate Collected: 01/11/23 14:59							Matri	x: Solid
ate Received: 01/11/23 16:35								
ample Depth: 0.5'	Organic Comp	ounds (GC						
ample Depth: 0.5' Method: SW846 8021B - Volatile		ounds (GC Qualifier	) RL	Unit	D	Prepared	Analyzed	Dil Fac
ample Depth: 0.5' Method: SW846 8021B - Volatile Analyte		Qualifier		Unit mg/Kg	<u>D</u>	Prepared 01/13/23 13:50	Analyzed 01/16/23 15:42	
ample Depth: 0.5' Method: SW846 8021B - Volatile Analyte Benzene	Result	Qualifier	RL		<u>D</u>			25
ample Depth: 0.5' Method: SW846 8021B - Volatile Analyte Benzene Toluene	Result <0.0502	Qualifier U *+	<b>RL</b> 0.0502	mg/Kg mg/Kg	D	01/13/23 13:50	01/16/23 15:42	25 25
ample Depth: 0.5' Method: SW846 8021B - Volatile Analyte Benzene Toluene Ethylbenzene	Result <0.0502 0.0522	Qualifier U *+ U *+	RL 0.0502 0.0502	mg/Kg	<u> </u>	01/13/23 13:50 01/13/23 13:50	01/16/23 15:42 01/16/23 15:42	25 25 25
ate Received: 01/11/23 16:35 ample Depth: 0.5' Method: SW846 8021B - Volatile Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene		Qualifier U *+ U *+ U	RL 0.0502 0.0502 0.0502	mg/Kg mg/Kg mg/Kg	<u> </u>	01/13/23 13:50 01/13/23 13:50 01/13/23 13:50	01/16/23 15:42 01/16/23 15:42 01/16/23 15:42	Dil Fac 25 25 25 25 25 25 25

Xylenes, Total mg/Kg Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 116 70 - 130 01/13/23 13:50 01/16/23 15:42 25

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# **Client Sample Results**

Job ID: 890-3832-1 SDG: 03D2057069

Matrix: Solid

5

## **Client Sample ID: SS07**

Project/Site: SC Federal Battery

Date Collected: 01/11/23 14:59 Date Received: 01/11/23 16:35

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Sam	DIe	Dec	)IN:	U.	5	

Client: Ensolum

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

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	118		70 - 130			01/13/23 13:50	01/16/23 15:42	25
Method: TAL SOP Total BTE	X - Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.100	U	0.100	mg/Kg			01/17/23 14:40	1
Method: SW846 8015 NM - D	)iesel Range Organ	ics (DRO) (	GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	11	50.0	mg/Kg			01/16/23 16:51	1

	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
	Gasoline Range Organics	<50.0	U	50.0	mg/Kg		01/13/23 13:11	01/15/23 23:41	1	
	(GRO)-C6-C10									
	Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		01/13/23 13:11	01/15/23 23:41	1	
	C10-C28)									
	Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/13/23 13:11	01/15/23 23:41	1	
	Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
	1-Chlorooctane	121		70 - 130			01/13/23 13:11	01/15/23 23:41	1	
	o-Terphenyl	149	S1+	70 - 130			01/13/23 13:11	01/15/23 23:41	1	
ì	—									

Method: MCAWW 300.0 - Anions, lo	on Chromato	graphy - So	oluble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	74.2		4.98	mg/Kg			01/17/23 13:10	1

#### **Client Sample ID: SS08**

Date Collected: 01/11/23 15:05 Date Received: 01/11/23 16:35 Sample Depth: 0.5'

# Lab Sample ID: 890-3832-8

Matrix: Solid

<0.00202 <0.00202 <0.00403	U *+ F2 F1 U F2 F1 U *+ F2 F1 U F2 F1	0.00202 0.00202 0.00202	mg/Kg mg/Kg		01/13/23 13:50 01/13/23 13:50	01/16/23 15:01 01/16/23 15:01	1
<0.00202 <0.00403	U *+ F2 F1				01/13/23 13:50	01/16/23 15:01	1
<0.00403		0.00202					
			mg/Kg		01/13/23 13:50	01/16/23 15:01	1
	01211	0.00403	mg/Kg		01/13/23 13:50	01/16/23 15:01	1
<0.00202	U F2 F1	0.00202	mg/Kg		01/13/23 13:50	01/16/23 15:01	1
<0.00403	U F2 F1	0.00403	mg/Kg		01/13/23 13:50	01/16/23 15:01	1
%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
112		70 - 130			01/13/23 13:50	01/16/23 15:01	1
101		70 - 130			01/13/23 13:50	01/16/23 15:01	1
al BTEX Calo	ulation						
Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
< 0.00403	U	0.00403	mg/Kg			01/17/23 14:40	1
	%Recovery 112 101 tal BTEX Calc Result		%Recovery       Qualifier       Limits         112       70 - 130         101       70 - 130         tal BTEX Calculation         Result       Qualifier	%Recovery       Qualifier       Limits         112       70 - 130         101       70 - 130         tal BTEX Calculation       Result       Qualifier       RL       Unit	%Recovery       Qualifier       Limits         112       70 - 130         101       70 - 130         tal BTEX Calculation         Result       Qualifier       RL       Unit       D	%Recovery         Qualifier         Limits         Prepared           112         70 - 130         01/13/23 13:50           101         70 - 130         01/13/23 13:50           tal BTEX Calculation         Result         Qualifier         RL         Unit         D         Prepared	%Recovery         Qualifier         Limits         Prepared         Analyzed           112         70 - 130         01/13/23 13:50         01/16/23 15:01           101         70 - 130         01/13/23 13:50         01/16/23 15:01           tal BTEX Calculation         Result         Qualifier         RL         Unit         D         Prepared         Analyzed

Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
<49.9	U	49.9	 mg/Kg			01/16/23 16:51	1	

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Lab Sample ID: 890-3832-7

Total TPH

# **Client Sample Results**

Job ID: 890-3832-1 SDG: 03D2057069

# **Client Sample ID: SS08**

Project/Site: SC Federal Battery

#### Date Collected: 01/11/23 15:05 Date Received: 01/11/23 16:35

Sample Depth: 0.5'

Client: Ensolum

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/13/23 13:11	01/16/23 00:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/13/23 13:11	01/16/23 00:02	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/13/23 13:11	01/16/23 00:02	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	115		70 - 130			01/13/23 13:11	01/16/23 00:02	
o-Terphenyl	141	S1+	70 - 130			01/13/23 13:11	01/16/23 00:02	1
Method: MCAWW 300.0 - Anions	, Ion Chromato	ography - So	oluble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	41.1		4.97	mg/Kg			01/17/23 13:16	

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Lab Sample ID: 890-3832-8 Matrix: Solid

5

Client: Ensolum Project/Site: SC Federal Battery

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

_				Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		5
890-3832-1	SS01	469 S1+	109		
890-3832-2	SS02	114	105		6
890-3832-3	SS03	538 S1+	91		
890-3832-4	SS04	522 S1+	77		
890-3832-5	SS05	106	110		
890-3832-6	SS06	108	118		8
890-3832-7	SS07	116	118		
890-3832-8	SS08	112	101		Q
890-3832-8 MS	SS08	107	102		3
890-3832-8 MSD	SS08	109	98		
890-3838-A-61-E MS	Matrix Spike	102	84		
890-3838-A-61-F MSD	Matrix Spike Duplicate	134 S1+	93		
890-3860-A-1-E MS	Matrix Spike	127	101		
890-3860-A-1-F MSD	Matrix Spike Duplicate	114	99		
LCS 880-43910/1-A	Lab Control Sample	99	101		
LCS 880-43991/1-A	Lab Control Sample	108	97		
LCS 880-44226/1-A	Lab Control Sample	89	104		13
LCSD 880-43910/2-A	Lab Control Sample Dup	104	104		
LCSD 880-43991/2-A	Lab Control Sample Dup	111	100		
LCSD 880-44226/2-A	Lab Control Sample Dup	112	99		
MB 880-43910/5-A	Method Blank	99	100		
MB 880-43991/5-A	Method Blank	85	90		
MB 880-44226/5-A	Method Blank	82	90		
Surrogate Legend					

Surrogate Legend

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

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

#### Matrix: Solid

			I	Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-3831-A-1-B MS	Matrix Spike	102	114	
890-3831-A-1-C MSD	Matrix Spike Duplicate	107	119	
890-3832-1	SS01	248 S1+	178 S1+	
890-3832-2	SS02	144 S1+	166 S1+	
890-3832-3	SS03	193 S1+	167 S1+	
890-3832-4	SS04	95	178 S1+	
890-3832-5	SS05	137 S1+	155 S1+	
890-3832-6	SS06	129	161 S1+	
890-3832-7	SS07	121	149 S1+	
890-3832-8	SS08	115	141 S1+	
LCS 880-43909/2-A	Lab Control Sample	104	126	
LCSD 880-43909/3-A	Lab Control Sample Dup	105	126	
MB 880-43909/1-A	Method Blank	179 S1+	227 S1+	

1CO = 1-Chlorooctane OTPH = o-Terphenyl

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Prep Type: Total/NA

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Job ID: 890-3832-1 SDG: 03D2057069

Prep Type: Total/NA
Client: Ensolum Project/Site: SC Federal Battery

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

Lab Sample ID: MB 880-43910/	5-A								Client Sa	ample ID: N		
Matrix: Solid										Prep T	ype: To	otal/N/
Analysis Batch: 43961										Prep	Batch	: 4391
		3 MB					_	_				
Analyte		t Qualifier					<u>D</u>		repared	Analyze		Dil Fa
Benzene	< 0.00200		0.00200		mg/K	-			3/23 13:50	01/16/23 1		
Toluene	< 0.00200		0.00200		mg/K	-			3/23 13:50	01/16/23 1		
Ethylbenzene	< 0.00200		0.00200		mg/K				3/23 13:50 3/23 13:50	01/16/23 1		
m-Xylene & p-Xylene	<0.00400		0.00400		mg/K	-				01/16/23 1		
o-Xylene	< 0.00200		0.00200		mg/K	-			3/23 13:50	01/16/23 1		
Xylenes, Total	<0.00400	) ()	0.00400		mg/K	g	0	1/1.	3/23 13:50	01/16/23 1	14:39	
	ME	B MB										
Surrogate	%Recovery	/ Qualifier	Limits					Pı	repared	Analyz	ed	Dil Fa
4-Bromofluorobenzene (Surr)	99	9	70 - 130				0	)1/1:	3/23 13:50	01/16/23	14:39	
1,4-Difluorobenzene (Surr)	100	0	70 - 130				0	)1/1:	3/23 13:50	01/16/23 1	14:39	
Lab Sample ID: LCS 880-43910	/ <b>1</b> _A						Clic	nt	Samplo		ntrol 9	Sampl
Matrix: Solid							One	ant	Jampie	ID: Lab Co Prep T		
Analysis Batch: 43961											Batch	
Analysis Daten. 40001			Spike	LCS	LCS					%Rec	Daten	. 4551
Analyte			Added		Qualifier	Unit		D	%Rec	Limits		
Benzene			0.100	0.1229	Quanner	mg/Kg		_	123	70 - 130		
Toluene			0.100	0.1128		mg/Kg			113	70 - 130		
Ethylbenzene			0.100	0.1225		mg/Kg			122	70 - 130		
						mg/Kg			111	70 - 130		
m-Xvlene & p-Xvlene			0 200	0 2218								
m-Xylene & p-Xylene o-Xvlene			0.200 0.100	0.2218								
m-Xylene & p-Xylene o-Xylene			0.200 0.100	0.2218		mg/Kg			112	70 - 130		
o-Xylene	LCS LC		0.100									
o-Xylene Surrogate	%Recovery Qu		0.100 <i>Limits</i>									
o-Xylene Surrogate 4-Bromofluorobenzene (Surr)	%Recovery 99		0.100 Limits 70 - 130									
o-Xylene Surrogate	%Recovery Qu		0.100 <i>Limits</i>									
o-Xylene Surrogate 4-Bromofluorobenzene (Surr)	%Recovery 99 101		0.100 Limits 70 - 130			mg/Kg	ent S	am	112	70 - 130	I Samp	ole Du
o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr)	%Recovery 99 101		0.100 Limits 70 - 130			mg/Kg	ent Sa	am	112	70 - 130 ab Contro		
o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-4391 Matrix: Solid	%Recovery 99 101		0.100 Limits 70 - 130			mg/Kg	ent Sa	am	112	70 - 130 ab Contro Prep T	ype: To	otal/N
o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-4391	%Recovery 99 101		0.100 Limits 70 - 130	0.1119	LCSD	mg/Kg	ent S	am	112	70 - 130 ab Contro Prep T		otal/N : 4391
o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-4391 Matrix: Solid	%Recovery 99 101		0.100 Limits 70 - 130 70 - 130	0.1119 LCSD	LCSD Qualifier	mg/Kg		am D	112	70 - 130 ab Control Prep T Prep	ype: To	otal/N : 4391 RP
o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-4391 Matrix: Solid Analysis Batch: 43961	%Recovery 99 101		0.100 <i>Limits</i> 70 - 130 70 - 130 <b>Spike</b>	0.1119 LCSD	Qualifier	Clin Unit			112 ple ID: L	70 - 130 ab Control Prep T Prep %Rec	ype: To Batch	otal/N : 4391 RP 
o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-4391 Matrix: Solid Analysis Batch: 43961 Analyte	%Recovery 99 101		0.100 <i>Limits</i> 70 - 130 70 - 130 Spike Added	0.1119 LCSD Result	Qualifier	mg/Kg			112 ple ID: L <u>%Rec</u>	70 - 130 ab Control Prep T Prep %Rec Limits	ype: To Batch	otal/N : 4391 RP Lim
o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-4391 Matrix: Solid Analysis Batch: 43961 Analyte Benzene	%Recovery 99 101		0.100 Limits 70 - 130 70 - 130 Spike Added 0.100	0.1119 LCSD Result 0.1348	Qualifier *+	Clie			112 <b>ple ID: L</b> <u>%Rec</u> 135	70 - 130 ab Control Prep T %Rec Limits 70 - 130	ype: To Batch RPD 9	otal/N : 4391 RP 
o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-4391 Matrix: Solid Analysis Batch: 43961 Analyte Benzene Toluene	%Recovery 99 101		0.100 Limits 70 - 130 70 - 130 70 - 130 Spike Added 0.100 0.100	0.1119 LCSD Result 0.1348 0.1189	Qualifier *+	Clie Unit mg/Kg mg/Kg			112 <b>ple ID: L</b> <u>%Rec</u> 135 119	70 - 130 ab Control Prep T Prep %Rec Limits 70 - 130 70 - 130	ype: To Batch RPD 9 5	otal/N : 4391 RP <u>Lim</u> 3 3
o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-4391 Matrix: Solid Analysis Batch: 43961 Analyte Benzene Toluene Ethylbenzene	%Recovery 99 101		0.100 Limits 70 - 130 70 - 130 70 - 130 Spike Added 0.100 0.100 0.100	0.1119 LCSD Result 0.1348 0.1189 0.1308	Qualifier *+	mg/Kg Clin mg/Kg mg/Kg mg/Kg			112 <b>ple ID: L</b> <b>%Rec</b> 135 119 131	70 - 130 ab Control Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130	ype: To Batch RPD 9 5 7	otal/N : 4391 RP <u>Lim</u> 3 3 3 3
o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-4391 Matrix: Solid Analysis Batch: 43961 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	%Recovery 99 101	alifier _	0.100 Limits 70 - 130 70 - 130 70 - 130 Spike Added 0.100 0.100 0.100 0.200	0.1119 LCSD Result 0.1348 0.1189 0.1308 0.2375	Qualifier *+	Clin Clin mg/Kg mg/Kg mg/Kg mg/Kg			112 ple ID: L %Rec 135 119 131 119	70 - 130 ab Control Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130	ype: To Batch RPD 9 5 7 7	otal/N : 4391 RP 
o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-4391 Matrix: Solid Analysis Batch: 43961 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	%Recovery Qu 99 101 0/2-A	alifier	0.100 Limits 70 - 130 70 - 130 70 - 130 Spike Added 0.100 0.100 0.100 0.200	0.1119 LCSD Result 0.1348 0.1189 0.1308 0.2375	Qualifier *+	Clin Clin mg/Kg mg/Kg mg/Kg mg/Kg			112 ple ID: L %Rec 135 119 131 119	70 - 130 ab Control Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130	ype: To Batch RPD 9 5 7 7	otal/N. : 4391 RP 
o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-4391 Matrix: Solid Analysis Batch: 43961 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene	%Recovery         Qui           99         101           0/2-A	alifier	0.100 Limits 70 - 130 70 - 130 70 - 130 Spike Added 0.100 0.100 0.100 0.200 0.100	0.1119 LCSD Result 0.1348 0.1189 0.1308 0.2375	Qualifier *+	Clin Clin mg/Kg mg/Kg mg/Kg mg/Kg			112 ple ID: L %Rec 135 119 131 119	70 - 130 ab Control Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130	ype: To Batch RPD 9 5 7 7	otal/N. : 4391 RP 
o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-4391 Matrix: Solid Analysis Batch: 43961 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate	%Recovery Qui 99 101 0/2-A LCSD LC: %Recovery Qui	alifier	0.100 Limits 70 - 130 70 - 130 70 - 130 Spike Added 0.100 0.100 0.100 0.200 0.100 0.100 Limits	0.1119 LCSD Result 0.1348 0.1189 0.1308 0.2375	Qualifier *+	Clin Clin mg/Kg mg/Kg mg/Kg mg/Kg			112 ple ID: L %Rec 135 119 131 119	70 - 130 ab Control Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130	ype: To Batch RPD 9 5 7 7	otal/N : 4391 RP <u>Lim</u> 3 3 3 3
o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-4391 Matrix: Solid Analysis Batch: 43961 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr)	%Recovery         Qui           99         101           0/2-A	alifier	0.100 Limits 70 - 130 70 - 130 70 - 130 Spike Added 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.130	0.1119 LCSD Result 0.1348 0.1189 0.1308 0.2375	Qualifier *+	Clin Clin mg/Kg mg/Kg mg/Kg mg/Kg			112 <b>ple ID: L</b> <b>%Rec</b> 135 119 131 119 119	70 - 130 ab Control Prep T %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	ype: To Batch 9 5 7 7 7 7	otal/N : 4391 RP 
o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-4391 Matrix: Solid Analysis Batch: 43961 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 890-3832-8 MS	%Recovery         Qui           99         101           0/2-A	alifier	0.100 Limits 70 - 130 70 - 130 70 - 130 Spike Added 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.130	0.1119 LCSD Result 0.1348 0.1189 0.1308 0.2375	Qualifier *+	Clin Clin mg/Kg mg/Kg mg/Kg mg/Kg			112 <b>ple ID: L</b> <b>%Rec</b> 135 119 131 119 119	70 - 130 ab Control Prep T %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	ype: To Batch 9 5 7 7 7 7 7	otal/N : 4391 RP <u>Lim</u> : : : : : : : : : : : : : : : : : : :
o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-4391 Matrix: Solid Analysis Batch: 43961 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 890-3832-8 MS Matrix: Solid	%Recovery         Qui           99         101           0/2-A	alifier	0.100 Limits 70 - 130 70 - 130 70 - 130 Spike Added 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.130	0.1119 LCSD Result 0.1348 0.1189 0.1308 0.2375	Qualifier *+	Clin Clin mg/Kg mg/Kg mg/Kg mg/Kg			112 <b>ple ID: L</b> <b>%Rec</b> 135 119 131 119 119	70 - 130 ab Control Prep T %Rec Limits 70 - 130 70 - 170 70 - 70 70	ype: To Batch 9 5 7 7 7 7 7 9 5 7 7 7	otal/N. : 4391 RP Lim 3 3 3 3 3 3 3 0: SS0 otal/N.
o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-4391 Matrix: Solid Analysis Batch: 43961 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 890-3832-8 MS	%Recovery         Qui           99         101           0/2-A	alifier SD alifier	0.100 Limits 70 - 130 70 - 130 70 - 130 Spike Added 0.100 0.100 0.100 0.200 0.100 0.200 0.100 Uimits 70 - 130 70 - 130	0.1119 LCSD Result 0.1348 0.1308 0.1308 0.2375 0.1194	Qualifier *+ *+	Clin Clin mg/Kg mg/Kg mg/Kg mg/Kg			112 <b>ple ID: L</b> <b>%Rec</b> 135 119 131 119 119	70 - 130 ab Control Prep T Prep T %Rec Limits 70 - 130 70 - 190 Prep T Prep T Prep T Prep T Prep T	ype: To Batch 9 5 7 7 7 7 7	otal/N. : 4391 RP Lim 3 3 3 3 3 3 3 0: SS0 otal/N.
o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCSD 880-4391 Matrix: Solid Analysis Batch: 43961 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 890-3832-8 MS Matrix: Solid	%Recovery         Qui           99         101           0/2-A	alifier SD alifier	0.100 Limits 70 - 130 70 - 130 70 - 130 Spike Added 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.130	0.1119 LCSD Result 0.1348 0.1308 0.1308 0.2375 0.1194	Qualifier *+	Clin Clin mg/Kg mg/Kg mg/Kg mg/Kg			112 <b>ple ID: L</b> <b>%Rec</b> 135 119 131 119 119	70 - 130 ab Control Prep T %Rec Limits 70 - 130 70 - 170 70 - 70 70	ype: To Batch 9 5 7 7 7 7 7 9 5 7 7 7	otal/N: 4391 RP Lim 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3

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F1

1/19/2023

Client: Ensolum Project/Site: SC Federal Battery

Lab Sample ID: 890-3832-8 MS

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

Matrix: Solid										Prep Ty	-	
Analysis Batch: 43961											Batch:	
	Sample	Sam	ple	Spike	MS	MS				• %Rec		
Analyte	Result	Qua	lifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Toluene	< 0.00202	U F2	2 F1	0.101	0.07955		mg/Kg		79	70 - 130		
Ethylbenzene	<0.00202	U *+	F2	0.101	0.08884		mg/Kg		88	70 - 130		
m Videna 9 n Videna	<0.00403	F1		0.000	0 4600		no al V a		01	70 120		
m-Xylene & p-Xylene	< 0.00403			0.202	0.1628		mg/Kg		81	70 - 130		
o-Xylene	<0.00202	U F2	2 -1	0.101	0.08464		mg/Kg		84	70 - 130		
	MS	MS										
Surrogate	%Recovery	Qua	lifier	Limits								
4-Bromofluorobenzene (Surr)	107			70 - 130								
1,4-Difluorobenzene (Surr)	102			70 - 130								
Lab Sample ID: 890-3832-8 N										Client Sam		SSO
Matrix: Solid										Prep Ty	-	
Analysis Batch: 43961	Commis	C		Califo	Men	MOD					Batch:	
Analyte	Sample Result		•	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPI Limi
											171	
Benzene	<0.00202	6 F1	FZ	0.0990	0.007699	F2 F1	mg/Kg		8	70 - 130	171	35
Toluene	<0.00202		2 F1	0.0990	0.01331	F2 F1	mg/Kg		13	70 - 130	143	35
Ethylbenzene	<0.00202		F2	0.0990	0.007250	F2 F1	mg/Kg		7	70 - 130	170	3
n-Xylene & p-Xylene	<0.00403	F1 UF2	2 F1	0.198	0.007591	F2 F1	mg/Kg		4	70 - 130	182	3
o-Xylene	<0.00202			0.0990	0.003161		mg/Kg		3	70 - 130	186	3
	MSD	MSE	)									
Surrogate	%Recovery	Qua	lifier	Limits								
4-Bromofluorobenzene (Surr)	109			70 - 130								
1,4-Difluorobenzene (Surr)	98			70 - 130								
Lab Sample ID: MB 880-4399	1/5_A								Client S	ample ID: N	lothod	Blank
Matrix: Solid	1/ <b>5-A</b>								Client S	Prep Ty		
Analysis Batch: 44129											Batch:	
,,,,,,,,,		ΜВ	МВ									
Analyte	R	esult	Qualifier		RL	Unit	I	D P	repared	Analyze	d	Dil Fa
Benzene	<0.0	0200	U	0.00	200	mg/k	ر_	01/1	6/23 14:35	01/17/23 12	2:29	
Toluene	<0.0	0200	U	0.00	200	mg/k	Кg	01/1	6/23 14:35	01/17/23 12	2:29	
Ethylbenzene	<0.0	0200	U	0.00	200	mg/k	٢g	01/1	6/23 14:35	01/17/23 12	2:29	
m-Xylene & p-Xylene	<0.0	0400	U	0.00	400	mg/k	ζg	01/1	6/23 14:35	01/17/23 1	2:29	
p-Xylene	<0.0	0200	U	0.00	200	mg/k		01/1	6/23 14:35			
Xylenes, Total		0400		0.00		mg/k		01/1	6/23 14:35			
		ΜВ	МВ									
Surrogate	%Reco			Limits	5			P	repared	Analyze	d	Dil Fa
4-Bromofluorobenzene (Surr)		85							6/23 14:35			
1,4-Difluorobenzene (Surr)		90		70 - 13					6/23 14:35			
Lab Sample ID: LCS 880-439	91/1_A							Client	Sampla	ID: Lab Co	ntrol S	amnli
Lab Sample ID: LCS 880-439 Matrix: Solid	51/1 <b>-A</b>							Cheff	Jampie	ID: Lab Co Prep Ty		
Analysis Batch: 44129				Sniko	1.00	LCS					Batch:	4039
A				Spike			11-2	_	0/ <b>F</b>	%Rec		
Analyte				Added	Result	Qualifier	Unit	D	%Rec	Limits		

# 70 - 130

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Job ID: 890-3832-1 SDG: 03D2057069 Client Sample ID: SS08

5

7

Benzene

0.09402

mg/Kg

94

0.100

Client: Ensolum Project/Site: SC Federal Battery Job ID: 890-3832-1 SDG: 03D2057069

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

Lab Sample ID: LCS 880-439 Matrix: Solid	991/1-A						Client	Sample		ype: To	tal/N/
Analysis Batch: 44129										Batch:	4399
			Spike		LCS		_		%Rec		
Analyte			Added		Qualifier	Unit	D	%Rec	Limits		
Toluene			0.100	0.1033		mg/Kg		103	70 - 130		
Ethylbenzene			0.100	0.09664		mg/Kg		97	70 - 130		
m-Xylene & p-Xylene			0.200	0.2150		mg/Kg		107	70 - 130		
o-Xylene			0.100	0.1176		mg/Kg		118	70 - 130		
	1.00	1.00									
0		LCS	1								
Surrogate	%Recovery	Quaimer	Limits 70 - 130								
4-Bromofluorobenzene (Surr)	108										
1,4-Difluorobenzene (Surr)	97		70 - 130								
ab Sample ID: I CSD 890.4	2004/2 4					Clie	nt Com		ah Contro	I Compl	- D
Lab Sample ID: LCSD 880-4	3991/2-A					Cile	int Sam	ipie iD: i	Lab Contro		
Matrix: Solid										ype: To	
Analysis Batch: 44129			0	1.000						Batch:	
			Spike		LCSD	11-12	_	0/ B	%Rec		RF
Analyte			Added		Qualifier	Unit	D	%Rec	Limits	RPD	Lim
Benzene			0.100	0.1023		mg/Kg		102	70 - 130	8	:
oluene			0.100	0.1067		mg/Kg		107	70 - 130	3	:
thylbenzene			0.100	0.09902		mg/Kg		99	70 - 130	2	
n-Xylene & p-Xylene			0.200	0.2172		mg/Kg		109	70 - 130	1	:
-Xylene			0.100	0.1197		mg/Kg		120	70 - 130	2	:
	1050	LCSD									
Surrogate	%Recovery		Limits								
I-Bromofluorobenzene (Surr)		quanner	70 - 130								
1,4-Difluorobenzene (Surr)	100		70 - 130 70 - 130								
;4-Dilluorobenzene (Suir)	100		70 - 730								
Lab Sample ID: 890-3838-A-	61-E MS							Client	Sample ID	· Matrix	Snik
Matrix: Solid								onom		ype: To	
Analysis Batch: 44129										Batch:	
Analysis Datch. 44125	Sample	Sample	Spike	MS	MS				%Rec	Daten.	4555
Analyte	•	Qualifier	Added		Qualifier	Unit	D	%Rec	Limits		
-	<0.00199										
Benzene			0.0998	0.06666	FI	mg/Kg		67	70 - 130		
Toluene	<0.00199		0.0998	0.08616		mg/Kg		86	70 - 130		
Ethylbenzene	<0.00199		0.0998	0.09887		mg/Kg		99	70 - 130		
n-Xylene & p-Xylene	<0.00398		0.200	0.1769		mg/Kg		89	70 - 130		
o-Xylene	<0.00199	U	0.0998	0.09305		mg/Kg		93	70 - 130		
	MS	MS									
Surrogate	%Recovery		Limits								
4-Bromofluorobenzene (Surr)			70 - 130								
1,4-Difluorobenzene (Surr)	84		70 - 130 70 - 130								
	04		10 - 150								
_ab Sample ID: 890-3838-A-	61-E MSD					c	lient Sa	mnle ID	): Matrix Sp	nike Dun	licat
Matrix: Solid										ype: To	
										Batch:	
Analysis Batch: 44129	Sample	Sample	Spike	Men	MSD				%Rec	Datch:	4399 RP
	-	Qualifier	Added			Unit	~	0/ D		000	
analyte			AU060	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Lin
									70 400		
Analyte Benzene	<0.00199	U F1	0.100	0.06608		mg/Kg		66	70 - 130	1	3
		U F1 U				mg/Kg mg/Kg mg/Kg			70 - 130 70 - 130 70 - 130		

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4

70 - 130

92

5

7 8

<0.00398 U

m-Xylene & p-Xylene

0.1847

mg/Kg

0.200

35

Client: Ensolum Project/Site: SC Federal Battery

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

Lab Sample ID: 890-3838-A-61-	F MSD							Clien	t Sa	ample ID	: Matrix Sp	oike Du	plicate
Matrix: Solid												Type: To	
Analysis Batch: 44129												Batch:	
	Sample	Sam	ple	Spike	MSD	MSD					%Rec		RPD
Analyte	Result	Qua	lifier	Added	Result	Qualifier	Unit		D	%Rec	Limits	RPD	Limit
o-Xylene	<0.00199	U		0.100	0.1021		mg/Kg		_	102	70 - 130	9	35
	MSD	MSE	<b>)</b>										
Surrogate	%Recovery	Qua	lifier	Limits									
4-Bromofluorobenzene (Surr)	134	S1+		70 - 130									
1,4-Difluorobenzene (Surr)	93			70 - 130									
Lab Sample ID: MB 880-44226/	5-A									Client S	ample ID:	Method	Blank
Matrix: Solid												Type: To	
Analysis Batch: 44223												Batch:	
		мв	МВ										
Analyte	R	esult	Qualifier	RI	_	Unit		D	Р	repared	Analyz	ed	Dil Fac
Benzene	<0.0	0200	U	0.00200	)	mg/k	ζg		01/1	8/23 08:29	01/18/23	11:41	1
Toluene	<0.0	0200	U	0.00200	)	mg/k	ζg		01/1	8/23 08:29	01/18/23	11:41	1
Ethylbenzene	<0.0	0200	U	0.00200	)	mg/k	ίg		01/1	8/23 08:29	01/18/23	11:41	1
m-Xylene & p-Xylene	<0.0	0400	U	0.00400	)	mg/k	ζg		01/1	8/23 08:29	01/18/23	11:41	1
o-Xylene	<0.0	0200	U	0.00200	)	mg/k	ζg		01/1	8/23 08:29	01/18/23	11:41	1
Xylenes, Total	<0.0	0400	U	0.00400	)	mg/k	ζg		01/1	8/23 08:29	01/18/23	11:41	1
		ΜВ	МВ										
Surrogate	%Reco	overy	Qualifier	Limits	_			_	Р	repared	Analyz	ed	Dil Fac
4-Bromofluorobenzene (Surr)		82		70 - 130					01/1	8/23 08:29	01/18/23	11:41	1
1,4-Difluorobenzene (Surr)		90		70 - 130					01/1	8/23 08:29	01/18/23	11:41	1
Lab Sample ID: LCS 880-44226	/1 <b>-A</b>							Cli	ent	Sample	ID: Lab Co	ontrol S	ample
Matrix: Solid												Type: To	
Analysis Batch: 44223												Batch:	
				Spike	LCS	LCS					%Rec		
Analyte				Added	Result	Qualifier	Unit		D	%Rec	Limits		
Benzene				0.100	0.09903		mg/Kg		_	99	70 - 130		
Toluene				0.100	0.09706		mg/Kg			97	70 - 130		
Ethylbenzene				0.100	0.08273		mg/Kg			83	70 - 130		

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

#### Lab Sample ID: LCSD 880-44226/2-A Matrix: Solid

Analysis Batch: 44223

o-Xylene

Analysis Batch: 44223							Prep	Batch:	44226
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1030		mg/Kg		103	70 - 130	4	35
Toluene	0.100	0.1089		mg/Kg		109	70 - 130	12	35
Ethylbenzene	0.100	0.1053		mg/Kg		105	70 - 130	24	35
m-Xylene & p-Xylene	0.200	0.2353		mg/Kg		118	70 - 130	32	35
o-Xylene	0.100	0.1291		mg/Kg		129	70 - 130	33	35

0.100

0.09254

mg/Kg

93

70 - 130

Client Sample ID: Lab Control Sample Dup

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Prep Type: Total/NA

Job ID: 890-3832-1 SDG: 03D2057069

Released to Imaging: 1/10/2024 11:56:33 AM

Client: Ensolum Project/Site: SC Federal Battery

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

101

#### Matrix: Solid Analysis Batch: 44223

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

# Lab Sample ID: 890-3860-A-1-E MS Matrix: Solid

# Analysis Batch: 44223

-	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.0990	0.09265		mg/Kg		94	70 - 130	
Toluene	<0.00201	U	0.0990	0.09939		mg/Kg		100	70 - 130	
Ethylbenzene	<0.00201	U	0.0990	0.09605		mg/Kg		97	70 - 130	
m-Xylene & p-Xylene	<0.00402	U	0.198	0.2160		mg/Kg		109	70 - 130	
o-Xylene	<0.00201	U	0.0990	0.1191		mg/Kg		120	70 - 130	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	127		70 - 130							

70 - 130

Lab Sample ID: 890-3860-A-1-F MSD
Matrix: Solid
Analysis Batch: 44223

1,4-Difluorobenzene (Surr)

										.,	
Analysis Batch: 44223									Prep	Batch:	44226
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U	0.101	0.08187		mg/Kg		81	70 - 130	12	35
Toluene	<0.00201	U	0.101	0.08779		mg/Kg		87	70 - 130	12	35
Ethylbenzene	<0.00201	U	0.101	0.08013		mg/Kg		79	70 - 130	18	35
m-Xylene & p-Xylene	<0.00402	U	0.202	0.1785		mg/Kg		89	70 - 130	19	35
o-Xylene	<0.00201	U	0.101	0.09776		mg/Kg		97	70 - 130	20	35
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	114		70 - 130								
1,4-Difluorobenzene (Surr)	99		70 - 130								

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

Lab Sample ID: MB 880-43909/1- Matrix: Solid Analysis Batch: 43947	Α					Client Sa	mple ID: Metho Prep Type: 1 Prep Batch	Total/NA
	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/13/23 13:11	01/15/23 19:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/13/23 13:11	01/15/23 19:47	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/13/23 13:11	01/15/23 19:47	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	179	S1+	70 - 130			01/13/23 13:11	01/15/23 19:47	1

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### Job ID: 890-3832-1 SDG: 03D2057069

Prep Type: Total/NA

Prep Type: Total/NA Prep Batch: 44226

**Client Sample ID: Matrix Spike** 

Prep Batch: 44226

Client Sample ID: Lab Control Sample Dup

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

Client Sample ID: Method

Client: Ensolum Project/Site: SC Federal Battery

Lab Sample ID: MB 880-43909/ <sup>,</sup>	1-A							<b>Client S</b>	ample ID: I	Method	Blank
Matrix: Solid										ype: To	
Analysis Batch: 43947										Batch:	
		MB MB					_				
Surrogate		very Qualifier	Limits					repared	Analyz		Dil Fac
o-Terphenyl	,	227 S1+	70 - 130				01/1	3/23 13:11	01/15/23	19:47	1
Lab Sample ID: LCS 880-43909	1/2-A						Client	Sample	ID: Lab Co	ontrol S	ample
Matrix: Solid							onom	Campio		ype: To	
Analysis Batch: 43947										Batch:	
Analysis Baton: 40041			Spike	LCS	LCS				%Rec	Datom	
Analyte			Added		Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics			1000	945.3		mg/Kg		95	70 - 130		
(GRO)-C6-C10											
Diesel Range Organics (Over			1000	932.4		mg/Kg		93	70 - 130		
C10-C28)											
	LCS	ICS									
Surrogate	%Recovery		Limits								
1-Chlorooctane	104		70 - 130								
o-Terphenyl	126		70 - 130								
Lab Sample ID: LCSD 880-4390	)9/3-A					Clier	nt Sam	nple ID: L	ab Contro	I Sampl	e Dup
Matrix: Solid									Prep T	ype: To	tal/NA
Analysis Batch: 43947									Prep	Batch:	43909
			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics			1000	907.9		mg/Kg		91	70 - 130	4	20
(GRO)-C6-C10											
Diesel Range Organics (Over			1000	939.3		mg/Kg		94	70 - 130	1	20
C10-C28)											
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	105		70 - 130								
o-Terphenyl	126		70 - 130								
Lab Sample ID: 890-3831-A-1-B	3 MS							Client	Sample ID:		
Matrix: Solid									Prep T	ype: To	tal/NA
Analysis Batch: 43947									Prep	Batch:	43909
	Sample S	Sample	Spike	MS	MS				%Rec		
	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Analyte				907.3		mg/Kg		88	70 - 130		
Gasoline Range Organics	<49.9	U	998	001.0							
Gasoline Range Organics (GRO)-C6-C10	<49.9							400	70 100		
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over			998 998	1114		mg/Kg		108	70 - 130		
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<49.9					mg/Kg		108	70 - 130		
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.9	U				mg/Kg		108	70 - 130		
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<49.9 ( <49.9 (	U <b>MS</b>				mg/Kg		108	70 - 130		
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.9 ( <49.9 ( <b>MS</b> )	U <b>MS</b>	998			mg/Kg		108	70 - 130		

Client: Ensolum Project/Site: SC Federal Battery

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

Analysis Batch: 43947       Prep Batch: 439         Analysis Batch: 43947       Sample Sample Sample MSD       MSD       MSD       WRec       Limits       RPD       L         Analyte       Result       Qualifier       Added       Result       Qualifier       Unit       D       %Rec       Limits       RPD       L         Gasoline Range Organics       <49.9	Matrix: Solid	-1-C MSD								Sherit	Cample	ID: Matr P	rep Type		
AnalyteSampleSampleSpikeMSDMSDMSD%RecLimitsRPDLGasoline Range Organics<49.9U997997944.2mg/Kg09270-1304GRO-Cc-C10GRO-Cc-C10044.2mg/Kg11570-13054Diesel Range Organics (Over<49.9U9971175mg/Kg11570-1305SurrogateMSDMSDMSDMSDClient Sample ID:Method Bit1-Chlorooctane10770-13070-130777771-Chlorooctane10770-13070-130777<	Analysis Batch: 43947														
Gasoline Range Organics         <49.9		Sample	Samp	le	Spike		MSD	MSD							RPI
MSD         MSD         MSD         MSD           Surrogate         %Recovery         Qualifier         Limits           1-Chlorooctane         107         70 - 130           o - Terphenyl         119         70 - 130           lethod: 300.0 - Anions, Ion Chromatography         Client Sample ID: MB 880-43971/1-A         Client Sample ID: Method Bit           Matrix: Solid         Result         Qualifier         RL         Prep Type: Solut           Analyte         Result         Qualifier         RL         Unit         D         Prepared         Analyzed         Dil           Chloride         <5.00         U         5.00         mg/Kg         D         Prepared         Analyzed         Dil           Chloride         <5.00         U         5.00         mg/Kg         D         Prepared         Analyzed         Dil           Analyte         Result         Qualifier         RL         Unit         D         %Rec         Dil           Analyte         Result         Qualifier         RL         Unit         D         %Rec           Analyte         Client Sample ID: LCS 880-43971/2-A         Spike         LCS LCS         %Rec         Limits         Dil           Chl	Analyte	Result	Quali	fier	Added	R	lesult	Qualifier	Unit	I	D %Re	c Limit	ts R	PD	Lim
MSD MSD         Surrogate       %Recovery       Qualifier       Limits         1-Chioroactane       107       70.130         o-Terphenyl       119       70.130         lethod:       300.0 - Anions, Ion Chromatography       Client Sample ID: MB 880-43971/1-A         Lab Sample ID: MB 880-43971/1-A       Client Sample ID: Method Bid         Matrix: Solid       Prep Type: Solution         Analyte       Result       Qualifier       RL       Unit       D       Prepared       Analyzed       Dil         Chioride       <5.00		<49.9	U		997		944.2		mg/Kg		9	2 70 - 1	130	4	2
Surrogate       %Recovery       Qualifier       Limits         1-Chlorooctane       107       70.130         o-Terphenyl       119       70.130         lethod: 300.0 - Anions, lon Chromatography       Lab Sample ID: MB 880-43971/1-A       Client Sample ID: Method Bit Prep Type: Solu         Lab Sample ID: MB 880-43971/1-A       MB       MB         Analyte       Result       Qualifier       RL         Chloride       <5.00		<49.9	U		997		1175		mg/Kg		11	5 70 - 1	130	5	2
1-Chlorooctane       107       70 - 130         0-Terphenyl       119       70 - 130         Lethod: 300.0 - Anions, Ion Chromatography       Ili       Result       Client Sample ID: MB 880-43971/1-A         Lab Sample ID: MB 880-43971/1-A       MB MB       Prep Type: Solu         Analyte       Result       Qualifier       RL       Unit       D       Prepared       Analyzed       Dil         Chloride       <5.00		MSD	MSD												
o-Terphenyl     119     70-130       Nethod: 300.0 - Anions, Ion Chromatography     Client Sample ID: MB 880-43971/1-A     Client Sample ID: Method Bit       Lab Sample ID: MB 880-43971/1-A     MB MB     Prep Type: Solu       Analyte     Result     Qualifier     RL     Unit     D     Prepared     Analyzed     Dil       Choride     <5.00	Surrogate	%Recovery	Quali	fier	Limits										
Method: 300.0 - Anions, Ion Chromatography         Lab Sample ID: MB 880-43971/1-A       Client Sample ID: Method Bla         Matrix: Solid       Prep Type: Solu         Analysis Batch: 44147       MB         MB       MB         Analyte       Result       Qualifier         Choride       <5.00	1-Chlorooctane				70 - 130	-									
Lab Sample ID: MB 880-43971/1-A Matrix: Solid Analysis Batch: 44147 MB MB Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Chloride <5.00 U 5.00 mg/Kg 01/17/23 10:03 Lab Sample ID: LCS 880-43971/2-A Matrix: Solid Analysis Batch: 44147 Spike LCS LCS V Analyte Added Result Qualifier Unit D %Rec Limits Chloride 250 254.4 mg/Kg 102 90.110 Lab Sample ID: LCSD 880-43971/3-A Matrix: Solid	o-Terphenyl	119			70 - 130										
Chloride       <5.00       U       5.00       mg/Kg       01/17/23 10:03         Lab Sample ID: LCS 880-43971/2-A       Client Sample ID: Lab Control Sam Prep Type: Solu         Matrix: Solid       Prep Type: Solu         Analyte       Added       Result       Qualifier       Unit       D       %Rec         Chloride       250       254.4       mg/Kg       102       90 - 110         Lab Sample ID: LCSD 880-43971/3-A       Client Sample ID: Lab Control Sample ID         Matrix: Solid       250       254.4       mg/Kg       102       90 - 110												r	rep type	e: So	olub
Lab Sample ID: LCS 880-43971/2-A     Client Sample ID: Lab Control Sam       Matrix: Solid     Prep Type: Solu       Analysis Batch: 44147     Spike     LCS     KRec       Analyte     Added     Result     Qualifier     Unit     D     %Rec       Chloride     250     254.4     mg/Kg     102     90 - 110       Lab Sample ID: LCSD 880-43971/3-A     Client Sample ID: Lab Control Sample ID       Matrix: Solid     Prep Type: Solu	Analysis Batch: 44147		МВ	МВ										e: So	olubl
Matrix: Solid     Prep Type: Solut       Analysis Batch: 44147     Spike     LCS     LCS     %Rec       Analyte     Added     Result     Qualifier     Unit     D     %Rec       Chloride     250     254.4     mg/Kg     D     102     90 - 110       Lab Sample ID: LCSD 880-43971/3-A     Client Sample ID: Lab Control Sample ID     Prep Type: Solut	Analysis Batch: 44147 Analyte		esult	Qualifier						<u>D</u>	Prepare	d _	Analyzed		
Spike       LCS       LCS       LCS       Maintegrad         Analyte       Added       Result       Qualifier       Unit       D       %Rec         Chloride       250       254.4       Maintegrad       D       %Rec       Limits       D         Lab Sample ID: LCSD 880-43971/3-A       Client Sample ID: Lab Control Sample ID: Lab Control Sample ID: Prep Type: Solution       Prep Type: Solution	Analysis Batch: 44147 <sup>Analyte</sup>		esult	Qualifier					g	<u>D</u>	Prepare	d _	Analyzed		
Spike     LCS     LCS     MRec       Analyte     Added     Result     Qualifier     Unit     D     %Rec       Chloride     250     254.4     Unit     D     %Rec     Limits       Lab Sample ID: LCSD 880-43971/3-A     Client Sample ID: Lab Control Sample ID     Prep Type: Solut	Analysis Batch: 44147 Analyte Chloride Lab Sample ID: LCS 880-43	<	esult	Qualifier					g			d A 01/ <sup>/</sup> ple ID: La	Analyzed 17/23 10:03 ab Contro	– – ol Sa	Dil Fa
Analyte       Added       Result       Qualifier       Unit       D       %Rec       Limits         Chloride       250       254.4       mg/Kg       D       102       90 - 110         Lab Sample ID: LCSD 880-43971/3-A       Client Sample ID: Lab Control Sample	Analysis Batch: 44147 Analyte Chloride Lab Sample ID: LCS 880-43 Matrix: Solid	<	esult	Qualifier					g			d A 01/ <sup>/</sup> ple ID: La	Analyzed 17/23 10:03 ab Contro	– – ol Sa	Dil Fa
Chloride     250     254.4     mg/Kg     102     90 - 110       Lab Sample ID: LCSD 880-43971/3-A     Client Sample ID: Lab Control Sample ID       Matrix: Solid     Prep Type: Solution	Analysis Batch: 44147 Analyte Chloride Lab Sample ID: LCS 880-43 Matrix: Solid	<	esult	Qualifier				mg/K	g			d A 01/' ple ID: La F	Analyzed 17/23 10:03 ab Contro Prep Type	– – ol Sa	Dil Fa
Lab Sample ID: LCSD 880-43971/3-A     Client Sample ID: Lab Control Sample ID       Matrix: Solid     Prep Type: Solution	Analysis Batch: 44147 Analyte Chloride Lab Sample ID: LCS 880-43 Matrix: Solid Analysis Batch: 44147	<	esult	Qualifier		5.00		LCS	-	Clie	ent Sam	d A 01/′ ple ID: La F %Re	Analyzed 17/23 10:03 ab Contro Prep Typo	– – ol Sa	Dil Fa
Matrix: Solid Prep Type: Solu	Analysis Batch: 44147 Analyte Chloride Lab Sample ID: LCS 880-43 Matrix: Solid Analysis Batch: 44147 Analyte	<	esult	Qualifier	Added	5.00 R	Result	LCS	Unit	Clie	ent Sam	d A 01/ ple ID: La F %Re c Limit	Analyzed 17/23 10:03 ab Contro Prep Type c ts	– – ol Sa	Dil Fa
A STREET STREE	Analysis Batch: 44147 Analyte Chloride Lab Sample ID: LCS 880-43 Matrix: Solid Analysis Batch: 44147 Analyte	<	esult	Qualifier	Added	5.00 R	Result	LCS	Unit	Clie	ent Sam	d A 01/ ple ID: La F %Re c Limit	Analyzed 17/23 10:03 ab Contro Prep Type c ts	– – ol Sa	Dil Fa
Analysis Batch: 44147	Analysis Batch: 44147 Analyte Chloride Lab Sample ID: LCS 880-43 Matrix: Solid Analysis Batch: 44147 Analyte Chloride Lab Sample ID: LCSD 880-4	971/2-A	esult	Qualifier	Added	5.00 R	Result	LCS	Unit mg/Kg	Clie	<b>D</b> <u>%Re</u> 10	d <u>A</u> ple ID: La F %Re <u>c</u> <u>2</u> D: Lab Co	Analyzed 17/23 10:03 ab Contro Prep Type c ts 110 ontrol Sa	ol Sa e: So mple	Dil Fa ample blubl
Spike LCSD LCSD %Rec I	Analysis Batch: 44147 Analyte Chloride Lab Sample ID: LCS 880-43 Matrix: Solid Analysis Batch: 44147 Analyte Chloride Lab Sample ID: LCSD 880-4 Matrix: Solid	971/2-A	esult	Qualifier	Added	5.00 R	Result	LCS	Unit mg/Kg	Clie	<b>D</b> <u>%Re</u> 10	d <u>A</u> ple ID: La F %Re <u>c</u> <u>2</u> D: Lab Co	Analyzed 17/23 10:03 ab Contro Prep Type c ts 110 ontrol Sa	ol Sa e: So mple	Dil Fa ampl blubl

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	254.6		mg/Kg		102	90 _ 110	0	20

Lab Sample ID: 890-3832-2 MS Matrix: Solid									Client Sar Prep	mple ID: Type: Se	
Analysis Batch: 44147											
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	13500	F1	4960	20300	F1	mg/Kg		137	90 - 110		
- Lab Sample ID: 890-3832-2 MSD									Client Sa	mple ID:	SS02
Matrix: Solid									Prep	Type: So	oluble
Analysis Batch: 44147											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	13500	F1	4960	20280	F1	mg/Kg		137	90 - 110	0	20

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Job ID: 890-3832-1 SDG: 03D2057069

Client: Ensolum Project/Site: SC Federal Battery

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#### Job ID: 890-3832-1 SDG: 03D2057069

**GC VOA** 

#### Prep Batch: 43910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3832-1	SS01	Total/NA	Solid	5035	
890-3832-2	SS02	Total/NA	Solid	5035	
890-3832-3	SS03	Total/NA	Solid	5035	
890-3832-4	SS04	Total/NA	Solid	5035	
890-3832-5	SS05	Total/NA	Solid	5035	
890-3832-6	SS06	Total/NA	Solid	5035	
890-3832-7	SS07	Total/NA	Solid	5035	
890-3832-8	SS08	Total/NA	Solid	5035	
MB 880-43910/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-43910/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-43910/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3832-8 MS	SS08	Total/NA	Solid	5035	
890-3832-8 MSD	SS08	Total/NA	Solid	5035	

#### Analysis Batch: 43961

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3832-1	SS01	Total/NA	Solid	8021B	43910
890-3832-2	SS02	Total/NA	Solid	8021B	43910
890-3832-3	SS03	Total/NA	Solid	8021B	43910
890-3832-4	SS04	Total/NA	Solid	8021B	43910
890-3832-5	SS05	Total/NA	Solid	8021B	43910
890-3832-6	SS06	Total/NA	Solid	8021B	43910
890-3832-7	SS07	Total/NA	Solid	8021B	43910
890-3832-8	SS08	Total/NA	Solid	8021B	43910
MB 880-43910/5-A	Method Blank	Total/NA	Solid	8021B	43910
LCS 880-43910/1-A	Lab Control Sample	Total/NA	Solid	8021B	43910
LCSD 880-43910/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	43910
890-3832-8 MS	SS08	Total/NA	Solid	8021B	43910
890-3832-8 MSD	SS08	Total/NA	Solid	8021B	43910

#### Prep Batch: 43991

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3832-1	SS01	Total/NA	Solid	5035	
890-3832-2	SS02	Total/NA	Solid	5035	
890-3832-3	SS03	Total/NA	Solid	5035	
890-3832-4	SS04	Total/NA	Solid	5035	
MB 880-43991/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-43991/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-43991/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3838-A-61-E MS	Matrix Spike	Total/NA	Solid	5035	
890-3838-A-61-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

#### Analysis Batch: 44129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3832-1	SS01	Total/NA	Solid	8021B	43991
890-3832-2	SS02	Total/NA	Solid	8021B	43991
890-3832-3	SS03	Total/NA	Solid	8021B	43991
890-3832-4	SS04	Total/NA	Solid	8021B	43991
MB 880-43991/5-A	Method Blank	Total/NA	Solid	8021B	43991
LCS 880-43991/1-A	Lab Control Sample	Total/NA	Solid	8021B	43991
LCSD 880-43991/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	43991

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Client: Ensolum Project/Site: SC Federal Battery

#### GC VOA (Continued)

#### Analysis Batch: 44129 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3838-A-61-E MS	Matrix Spike	Total/NA	Solid	8021B	43991
890-3838-A-61-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	43991

#### Analysis Batch: 44173

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3832-1	SS01	Total/NA	Solid	Total BTEX	
890-3832-2	SS02	Total/NA	Solid	Total BTEX	
890-3832-3	SS03	Total/NA	Solid	Total BTEX	
890-3832-4	SS04	Total/NA	Solid	Total BTEX	
890-3832-5	SS05	Total/NA	Solid	Total BTEX	
890-3832-6	SS06	Total/NA	Solid	Total BTEX	
890-3832-7	SS07	Total/NA	Solid	Total BTEX	
890-3832-8	SS08	Total/NA	Solid	Total BTEX	

#### Analysis Batch: 44223

890-3832-2	5502	Iotal/INA	Solia	IOTAL BIEX		
890-3832-3	SS03	Total/NA	Solid	Total BTEX		8
890-3832-4	SS04	Total/NA	Solid	Total BTEX		
890-3832-5	SS05	Total/NA	Solid	Total BTEX		9
890-3832-6	SS06	Total/NA	Solid	Total BTEX		
890-3832-7	SS07	Total/NA	Solid	Total BTEX		10
890-3832-8	SS08	Total/NA	Solid	Total BTEX		
Analysis Batch: 44223	i -					11
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch	12
Lab Sample ID 890-3832-3	Client Sample ID SS03	Total/NA	Matrix Solid	Method 8021B	Prep Batch 44226	12
						12
890-3832-3		Total/NA	Solid	8021B	44226	12 13
890-3832-3 890-3832-4	SS03 SS04	Total/NA Total/NA	Solid Solid	8021B 8021B	44226 44226	12 13
890-3832-3 890-3832-4 MB 880-44226/5-A	SS03 SS04 Method Blank	Total/NA Total/NA Total/NA	Solid Solid Solid	8021B 8021B 8021B	44226 44226 44226	12 13 14
890-3832-3 890-3832-4 MB 880-44226/5-A LCS 880-44226/1-A	SS03 SS04 Method Blank Lab Control Sample	Total/NA Total/NA Total/NA Total/NA	Solid Solid Solid Solid	8021B 8021B 8021B 8021B	44226 44226 44226 44226 44226	12 13 14
890-3832-3 890-3832-4 MB 880-44226/5-A LCS 880-44226/1-A LCSD 880-44226/2-A	SS03 SS04 Method Blank Lab Control Sample Lab Control Sample Dup	Total/NA Total/NA Total/NA Total/NA Total/NA	Solid Solid Solid Solid Solid Solid	8021B 8021B 8021B 8021B 8021B 8021B	44226 44226 44226 44226 44226 44226	12 13 14

#### Prep Batch: 44226

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3832-3	SS03	Total/NA	Solid	5035	
890-3832-4	SS04	Total/NA	Solid	5035	
MB 880-44226/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-44226/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-44226/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3860-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
890-3860-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

## GC Semi VOA

#### Prep Batch: 43909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3832-1	SS01	Total/NA	Solid	8015NM Prep	
890-3832-2	SS02	Total/NA	Solid	8015NM Prep	
890-3832-3	SS03	Total/NA	Solid	8015NM Prep	
890-3832-4	SS04	Total/NA	Solid	8015NM Prep	
890-3832-5	SS05	Total/NA	Solid	8015NM Prep	
890-3832-6	SS06	Total/NA	Solid	8015NM Prep	
890-3832-7	SS07	Total/NA	Solid	8015NM Prep	
890-3832-8	SS08	Total/NA	Solid	8015NM Prep	
MB 880-43909/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-43909/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-43909/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3831-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3831-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

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Job ID: 890-3832-1 SDG: 03D2057069

Client: Ensolum Project/Site: SC Federal Battery Job ID: 890-3832-1 SDG: 03D2057069

## GC Semi VOA

#### Analysis Batch: 43947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3832-1	SS01	Total/NA	Solid	8015B NM	43909
890-3832-2	SS02	Total/NA	Solid	8015B NM	43909
890-3832-3	SS03	Total/NA	Solid	8015B NM	43909
890-3832-4	SS04	Total/NA	Solid	8015B NM	43909
890-3832-5	SS05	Total/NA	Solid	8015B NM	43909
890-3832-6	SS06	Total/NA	Solid	8015B NM	43909
890-3832-7	SS07	Total/NA	Solid	8015B NM	43909
890-3832-8	SS08	Total/NA	Solid	8015B NM	43909
MB 880-43909/1-A	Method Blank	Total/NA	Solid	8015B NM	43909
LCS 880-43909/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	43909
LCSD 880-43909/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	43909
890-3831-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	43909
890-3831-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	43909

#### Analysis Batch: 44065

		Matrix	Method F	Prep Batch 🛛 🛃
SS01	Total/NA	Solid	8015 NM	
SS02	Total/NA	Solid	8015 NM	
SS03	Total/NA	Solid	8015 NM	
SS04	Total/NA	Solid	8015 NM	
SS05	Total/NA	Solid	8015 NM	
SS06	Total/NA	Solid	8015 NM	
SS07	Total/NA	Solid	8015 NM	
SS08	Total/NA	Solid	8015 NM	
	SS02 SS03 SS04 SS05 SS06 SS07 SS08	SS02Total/NASS03Total/NASS04Total/NASS05Total/NASS06Total/NASS07Total/NA	SS02Total/NASolidSS03Total/NASolidSS04Total/NASolidSS05Total/NASolidSS06Total/NASolidSS07Total/NASolid	SS02Total/NASolid8015 NMSS03Total/NASolid8015 NMSS04Total/NASolid8015 NMSS05Total/NASolid8015 NMSS06Total/NASolid8015 NMSS07Total/NASolid8015 NM

#### HPLC/IC

#### Leach Batch: 43971

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3832-1	SS01	Soluble	Solid	DI Leach	
890-3832-2	SS02	Soluble	Solid	DI Leach	
890-3832-3	SS03	Soluble	Solid	DI Leach	
890-3832-4	SS04	Soluble	Solid	DI Leach	
890-3832-5	SS05	Soluble	Solid	DI Leach	
890-3832-6	SS06	Soluble	Solid	DI Leach	
890-3832-7	SS07	Soluble	Solid	DI Leach	
890-3832-8	SS08	Soluble	Solid	DI Leach	
MB 880-43971/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-43971/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-43971/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3832-2 MS	SS02	Soluble	Solid	DI Leach	
890-3832-2 MSD	SS02	Soluble	Solid	DI Leach	

#### Analysis Batch: 44147

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3832-1	SS01	Soluble	Solid	300.0	43971
890-3832-2	SS02	Soluble	Solid	300.0	43971
890-3832-3	SS03	Soluble	Solid	300.0	43971
890-3832-4	SS04	Soluble	Solid	300.0	43971
890-3832-5	SS05	Soluble	Solid	300.0	43971
890-3832-6	SS06	Soluble	Solid	300.0	43971

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Client: Ensolum Project/Site: SC Federal Battery

# HPLC/IC (Continued)

#### Analysis Batch: 44147 (Continued)

ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
90-3832-7	SS07	Soluble	Solid	300.0	43971
90-3832-8	SS08	Soluble	Solid	300.0	43971
B 880-43971/1-A	Method Blank	Soluble	Solid	300.0	43971
CS 880-43971/2-A	Lab Control Sample	Soluble	Solid	300.0	43971
CSD 880-43971/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	43971
90-3832-2 MS	SS02	Soluble	Solid	300.0	43971
0-3832-2 MSD	SS02	Soluble	Solid	300.0	43971

Job ID: 890-3832-1 SDG: 03D2057069

Initial

Amount

4.97 g

5 mL

5.02 q

5 mL

10.03 g

1 uL

5.02 g

Final

Amount

5 mL

5 mL

5 mL

5 mL

10 ml

1 uL

50 mL

Batch

Number

43910

43961

43991

44129

44173

44065

43909

43947

43971

44147

Prepared

or Analyzed

01/13/23 13:50

01/16/23 17:05

01/16/23 14:35

01/17/23 14:12

01/17/23 14:40

01/16/23 16:51

01/13/23 13:11

01/16/23 02:12

01/16/23 09:22

01/17/23 12:08

Dil

100

500

1

1

10

10

Factor

Run

Batch

Туре

Prep

Prep

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Leach

Client Sample ID: SS02 Date Collected: 01/11/23 14:47

Date Received: 01/11/23 16:35

Prep

Batch

Method

5035

8021B

5035

8021B

Total BTEX

8015NM Prep

8015B NM

DI Leach

300.0

8015 NM

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Soluble

Soluble

Job ID: 890-3832-1 SDG: 03D2057069

# Lab Sample ID: 890-3832-1

Analyst

MNR

MNR

MNR

MNR

SM

AJ

DM

AJ

ĸs

СН

Matrix: Solid

Lab

EET MID

EET MID

EET MID

EET MID

EET MID

EET MID

FFT MID

EET MID

# EET MID EET MID

#### Lab Sample ID: 890-3832-2

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	43910	01/13/23 13:50	MNR	EET MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	43961	01/16/23 17:26	MNR	EET MID
Total/NA	Prep	5035			5.03 g	5 mL	43991	01/16/23 14:35	MNR	EET MID
Total/NA	Analysis	8021B		250	5 mL	5 mL	44129	01/17/23 14:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44173	01/17/23 14:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			44065	01/16/23 16:51	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	43909	01/13/23 13:11	DM	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	43947	01/16/23 04:42	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	43971	01/16/23 09:22	KS	EET MID
Soluble	Analysis	300.0		20			44147	01/17/23 12:14	СН	EET MI

#### **Client Sample ID: SS03** Date Collected: 01/11/23 14:50 Date Received: 01/11/23 16:35

Prep Type

Total/NA

Soluble

Soluble

Batch

Туре

Prep

Prep

Prep

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Leach

Prep

Batch

5035

8021B

5035

5035

8021B

8015 NM

8015NM Prep

8015B NM

**DI Leach** 

300.0

8021B

Method

#### Lab Sample ID: 890-3832-3 Matrix: Solid

Dil Initial Final Batch Prepared Run Factor Amount Amount Number or Analyzed Analyst Lab 5.01 g 5 mL 43910 01/13/23 13:50 MNR EET MID 100 5 mL 5 mL 43961 01/16/23 17:47 MNR EET MID 5.01 g 5 ml 43991 01/16/23 14:35 MNR FET MID 500 5 mL 5 mL 44129 01/17/23 14:53 MNR EET MID 5.05 g 01/18/23 08:29 MNR 5 ml 44226 FFT MID 1000 5 mL 5 mL 44223 01/18/23 14:39 MNR EET MID Total BTEX 44173 01/17/23 14:40 SM EET MID 1 44065 01/16/23 16:51 AJ EET MID 1

43909

43947

43971

44147

01/13/23 13:11

01/16/23 02:34

01/16/23 09:22

01/17/23 12:33

10 mL

1 uL

50 mL

**Eurofins Carlsbad** 

DM

AJ

KS

СН

10.00 g

1 uL

4.96 g

10

10

EET MID

EET MID

EET MID

EET MID

5 6

9

#### Job ID: 890-3832-1 SDG: 03D2057069

# Lab Sample ID: 890-3832-4

Matrix: Solid

Client Sample ID: SS04 Date Collected: 01/11/23 14:52 Date Received: 01/11/23 16:35

Project/Site: SC Federal Battery

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	43910	01/13/23 13:50	MNR	EET MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	43961	01/16/23 18:08	MNR	EET MIC
Total/NA	Prep	5035			4.99 g	5 mL	43991	01/16/23 14:35	MNR	EET MID
Total/NA	Analysis	8021B		500	5 mL	5 mL	44129	01/17/23 15:14	MNR	EET MID
Total/NA	Prep	5035			5.03 g	5 mL	44226	01/18/23 08:29	MNR	EET MI
Total/NA	Analysis	8021B		1000	5 mL	5 mL	44223	01/18/23 15:00	MNR	EET MI
Total/NA	Analysis	Total BTEX		1			44173	01/17/23 14:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			44065	01/16/23 16:51	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	43909	01/13/23 13:11	DM	EET MID
Total/NA	Analysis	8015B NM		10	1 uL	1 uL	43947	01/16/23 02:56	AJ	EET MI
Soluble	Leach	DI Leach			5.03 g	50 mL	43971	01/16/23 09:22	KS	EET MI
Soluble	Analysis	300.0		10			44147	01/17/23 12:39	СН	EET MID

#### Client Sample ID: SS05 Date Collected: 01/11/23 14:55 Date Received: 01/11/23 16:35

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	43910	01/13/23 13:50	MNR	EET MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	43961	01/16/23 16:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44173	01/17/23 14:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			44065	01/16/23 16:51	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	43909	01/13/23 13:11	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43947	01/15/23 22:59	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	43971	01/16/23 09:22	KS	EET MID
Soluble	Analysis	300.0		1			44147	01/17/23 12:57	СН	EET MID

#### Client Sample ID: SS06 Date Collected: 01/11/23 14:57 Date Received: 01/11/23 16:35

#### Lab Sample ID: 890-3832-6 Matrix: Solid

Lab Sample ID: 890-3832-5

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 43910 01/13/23 13:50 MNR EET MID 8021B Total/NA Analysis 25 5 mL 5 mL 43961 01/16/23 15:21 MNR EET MID Total/NA Analysis Total BTEX 44173 01/17/23 14:40 SM EET MID 1 Total/NA Analysis 8015 NM 44065 01/16/23 16:51 AJ EET MID 1 Total/NA Prep 8015NM Prep 10.01 g 10 mL 43909 01/13/23 13:11 DM EET MID Total/NA Analysis 8015B NM 1 uL 43947 01/15/23 23:20 1 1 uL AJ EET MID Soluble Leach DI Leach 5 g 50 mL 43971 01/16/23 09:22 KS EET MID Soluble Analysis 300.0 44147 01/17/23 13:03 СН EET MID 1

Job ID: 890-3832-1 SDG: 03D2057069

# Lab Sample ID: 890-3832-7 Matrix: Solid

Date Collected: 01/11/23 14:59 Date Received: 01/11/23 16:35

**Client Sample ID: SS07** 

Project/Site: SC Federal Battery

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	43910	01/13/23 13:50	MNR	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	43961	01/16/23 15:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44173	01/17/23 14:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			44065	01/16/23 16:51	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	43909	01/13/23 13:11	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43947	01/15/23 23:41	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	43971	01/16/23 09:22	KS	EET MID
Soluble	Analysis	300.0		1			44147	01/17/23 13:10	СН	EET MID

# Client Sample ID: SS08

Date Collected: 01/11/23 15:05 Date Received: 01/11/23 16:35

		-								
	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	43910	01/13/23 13:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43961	01/16/23 15:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44173	01/17/23 14:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			44065	01/16/23 16:51	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	43909	01/13/23 13:11	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43947	01/16/23 00:02	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	43971	01/16/23 09:22	KS	EET MID
Soluble	Analysis	300.0		1			44147	01/17/23 13:16	СН	EET MID

#### Laboratory References:

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

- 4 \_ 5 6

> 8 9 10

# Lab Sample ID: 890-3832-8

Matrix: Solid

Accreditation/Certification Summary

Client: Ensolum Project/Site: SC Federal Battery

#### Laboratory: Eurofins Midland

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

uthority		rogram	Identification Number	Expiration Date
xas	N	ELAP	T104704400-22-25	06-30-23
The following analytes	are included in this report, bu	ut the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for v
the agency does not of Analysis Method		Matrix	Analyte	
Analysis Method	fer certification. Prep Method	Matrix	Analyte	
0,		Matrix Solid Solid	Analyte Total TPH Total BTEX	

Eurofins Carlsbad

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Job ID: 890-3832-1

SDG: 03D2057069

Job ID: 890-3832-1 SDG: 03D2057069

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID
	"Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third E = TestAmerica Laboratories, Standard Operating Procedure	dition, November 1986 And Its Updates.	
EET MID	= Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440		

#### Protocol References:

#### Laboratory References:

# **Sample Summary**

Client: Ensolum Project/Site: SC Federal Battery Job ID: 890-3832-1 SDG: 03D2057069

ab Sample ID.	Client Sample ID	Matrix	Collected	Received	Depth	
90-3832-1	SS01	Solid	01/11/23 14:45	01/11/23 16:35	0.5'	
90-3832-2	SS02	Solid	01/11/23 14:47	01/11/23 16:35	0.5'	
90-3832-3	SS03	Solid	01/11/23 14:50	01/11/23 16:35	0.5'	
90-3832-4	SS04	Solid	01/11/23 14:52	01/11/23 16:35	0.5'	
90-3832-5	SS05	Solid	01/11/23 14:55	01/11/23 16:35	0.5'	
90-3832-6	SS06	Solid	01/11/23 14:57	01/11/23 16:35	0.5'	
90-3832-7	SS07	Solid	01/11/23 14:59	01/11/23 16:35	0.5'	
90-3832-8	SS08	Solid	01/11/23 15:05	01/11/23 16:35	0.5'	
						1
						1
						1

	Relinquished by: (Sign	Notice: Signature of this document a of service. Eurofins Xenco will be lia of Eurofins Xenco. A minimum char.	Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed		2025	5506	5655	SSOH	5003	SS02	1055	Sample Identification	Total Containers:	Sample Custody Seals:	Cooler Custody Seals:	Samples Received Intact:	SAMPLE RECEIPT	PO #:	Project Location: Ma	Project Number: O	Project Name: S	Phone:	City, State ZIP:			Project Manager:	💸 eurofins
æ	(Signature)	and relinquishment of so ble only for the cost of s ge of \$85.00 will be app	200.8 / 6020: Metal(s) to be a		SU	200	S	S	S	S		on Matrix		Yes No N/A	Yes NO NIA	(res) NO	Temp Blank:		allamar	0302057069	C Federal	0	erlsbad, NM	3122 National	Ensolum	Kalei Jen	
	Received b	amples constitutes a v amples and shall not a lied to each project ar		X	1/11/23					-	1/11/23	Date Sampled	Corrected Temperature:	Temperature Reading:	Correction Factor:	Thermometer ID:	Tel No			69	1 Buttery	2503	2822	Parks		Jenning 3	Environment Testing Xenco
la Si	Received by: (Signature)	alid purchase order assume any respons nd a charge of \$5 fo	8RCRA 13PPM TCLP/SPLP		1502	1451	1455	1452	1450	1447	1445	Time Sampled	emperature:	e Reading:	actor:	riD:	Wet Ice:	the lab, if received by 4:30pm	TAT starts the day received by	Routine	Turn Around	Email:	-	Hwy /		m	sting
est 1		from client company to ibility for any losses or e r each sample submitted	1 Texas 11 Al LP 6010 : 8RCR/	)	S -					-	5 6	Depth Grab/ #	4.0	4.0	6.0.	INM BOT	No No		av received by	Rush		K rennings@	City, State ZIP:	Address:	Company Name:	Bill to: (if different)	Houston Midland, TY EL Paso, T Hobbs, N
1.123 1635	Date/Time	Eurofins Xenco, its affiliates an spenses incurred by the client I to Eurofins Xenco, but not ana	Al Sb As Ba Be B Cd CRA Sb As Ba Be Cd (		IXXX X						1 X X X		PI	-		8		-1	_	Code	-	ensolum.com				Accounting	Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199
4 N	Relinquished by: (Signature)	Noice: Signature of this document and relinquishment of samples constitutes a valid purchase order from cilent company to Eurofins Xenco. Its affilates 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 S85.00 will be applied to each project and a charge of 55 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated of Eurofins Xenco. A minimum charge of S85.00 will be applied to each project and a charge of 55 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated of Eurofins Xenco. A minimum charge of S85.00 will be applied to each project and a charge of 55 for each sample submitted to Eurofins Xenco. but not analyzed. These terms will be enforced unless previously negotiated of Eurofins Xenco. A minimum charge of S85.00 will be applied to each project and a charge of 55 for each sample submitted to Eurofins Xenco. but not analyzed. These terms will be enforced unless previously negotiated of Eurofins Xenco. Barge of S85.00 will be applied to each project and a charge of 55 for each sample submitted to Eurofins Xenco. but not analyzed. These terms will be enforced unless previously negotiated of Eurofins Xenco. Barge of S85.00 will be applied to each project and a charge of 55 for each sample submitted to Eurofins Xenco. but not analyzed. These terms will be enforced unless previously negotiated to the sample sample sample sample sample submitted to each sample submitted to Eurofins and the sample sampl	Ca Cr Co Cu Fe P r Co Cu Pb Mn Mc										_	890-3832 Chain of Custody							ANALYSIS REQUEST					Pensolum.con	, TX (214) 902-0300 nio, TX (210) 509-3334 , TX (806) 794-1296 , NM (575) 988-3199
	ure)	ms and conditions eyond the control sss previously negotlate	b Mg Mn Mo Ni K o Ni Se Ag Ti U										_	Custody							JEST	Deliverables:	Reporting: L	State of Project:	Program: U		
	Received by: (Signature)	đ.	<pre>&lt; Se Ag SiO<sub>2</sub> Na Sr Tl Sn Hg: 1631 / 245.1 / 7470</pre>										-										Reporting: Level II Level III		UST/PST PRP Br	Work Order Comments	Work Order No:_ www.xenco.com
	re)		r TI Sn U V Zn 1 / 7470 / 7471									Sample	NaOH+Ascor	Zn Acetate+NaOH: Zn	Na 2S 2O3: NaSO 3	NaHSO 4: NABIS	H 3PO 4: HP	H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>	Cool: Cool HCL: HC	None: NO	Preserv	ADaPT Other:	ST	]	Brownfields 🗌 Rí	omments	n Page
	Date/Time		Zn 71									Sample Comments	NaUH+Ascorbic Acid: SAPC	NaOH: Zn	SO 3	BIS		NaOH: Na	HNO 3: HN	DI Water: H <sub>2</sub> O	Preservative Codes	her:	RRP L Level IV		RRC Superfund		of

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5 6

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## Login Sample Receipt Checklist

Client: Ensolum

#### Login Number: 3832 List Number: 1 Creator: Stutzman, Amanda

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

#### Job Number: 890-3832-1 SDG Number: 03D2057069

List Source: Eurofins Carlsbad

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Job Number: 890-3832-1 SDG Number: 03D2057069

List Source: Eurofins Midland

List Creation: 01/13/23 10:36 AM

## Login Sample Receipt Checklist

Client: Ensolum

<6mm (1/4").

Login Number: 3832 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	

Released to Imaging: 1/10/2024 11:56:33 AM



**Environment Testing** 

# **ANALYTICAL REPORT**

# PREPARED FOR

Attn: Kalei Jennings Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701 Generated 4/4/2023 3:38:52 PM

# JOB DESCRIPTION

SC Federal Battery (Maverick) SDG NUMBER Lea County NM

# **JOB NUMBER**

890-4390-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

See page two for job notes and contact information.



Received by OCD: 9/19/2023 3:34:03 PM

# **Eurofins Carlsbad**

Job Notes

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

# Authorization

RAMER

Generated 4/4/2023 3:38:52 PM

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

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

Laboratory Job ID: 890-4390-1 SDG: Lea County NM

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Sample Summary	30
Chain of Custody	31
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	Definitions/Glossary		
Client: Ensolu		D: 890-4390-1	ī
Project/Site: 8	SC Federal Battery (Maverick) SDG: Le	ea County NM	
Qualifiers			
GC VOA			1
Qualifier	Qualifier Description		
S1+	Surrogate recovery exceeds control limits, high biased.		
U	Indicates the analyte was analyzed for but not detected.		
GC Semi VO	Α		ł
Qualifier	Qualifier Description		
*+	LCS and/or LCSD is outside acceptance limits, high biased.		
S1+	Surrogate recovery exceeds control limits, high biased.		
U	Indicates the analyte was analyzed for but not detected.		
HPLC/IC			
Qualifier	Qualifier Description		1
F1	MS and/or MSD recovery exceeds control limits.		
U	Indicates the analyte was analyzed for but not detected.		
Glossary			
Abbreviation	These commonly used abbreviations may or may not be present in this report.		
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis		
%R	Percent Recovery		
CFL	Contains Free Liquid		
CFU	Colony Forming Unit		
CNF	Contains No Free Liquid		
DER	Duplicate Error Ratio (normalized absolute difference)		
Dil Fac	Dilution Factor		

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
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

Client: Ensolum Project/Site: SC Federal Battery (Maverick)

#### Job ID: 890-4390-1

#### Laboratory: Eurofins Carlsbad

#### Narrative

Job Narrative 890-4390-1

#### Receipt

The samples were received on 3/22/2023 3:42 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 6.8°C

#### **Receipt Exceptions**

The following samples were received and analyzed from an unpreserved bulk soil jar: BH01 (890-4390-1), BH01A (890-4390-2), BH02 (890-4390-3), BH02A (890-4390-4), BH03 (890-4390-5), BH03A (890-4390-6), BH04 (890-4390-7), BH04A (890-4390-8), BH05 (890-4390-9) and BH05A (890-4390-10).

#### GC VOA

Method 8021B: The following samples were diluted due to the nature of the sample matrix: BH01 (890-4390-1), BH01A (890-4390-2), BH02 (890-4390-3), BH02A (890-4390-4), BH03 (890-4390-5), BH03A (890-4390-6), BH04 (890-4390-7), BH04A (890-4390-8), BH05 (890-4390-9) and BH05A (890-4390-10). Elevated reporting limits (RLs) are provided.

Method 8021B: Surrogate recovery for the following samples were outside control limits: BH01 (890-4390-1), BH03 (890-4390-5), BH04A (890-4390-8) and BH05A (890-4390-10). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

#### GC Semi VOA

Method 8015MOD\_NM: The surrogate recovery for the blank associated with preparation batch 880-49712 and analytical batch 880-49689 was outside the upper control limits.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-49712/2-A) and (LCSD 880-49712/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: (890-4387-A-7-B MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: BH01 (890-4390-1) and BH03 (890-4390-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD\_NM: An incorrect volume of spiking solution was inadvertently added to the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) associated with preparation batch 880-49712 and analytical batch 880-49689. MS/MSD will show recovery for the batch.

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

#### HPLC/IC

Method 300\_ORGFM\_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-50009 and analytical batch 880-50058 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.BH01 (890-4390-1), BH01A (890-4390-2), BH02 (890-4390-3), BH02A (890-4390-4), BH03 (890-4390-5), BH03A (890-4390-6), BH04 (890-4390-7), BH04A (890-4390-8), BH05 (890-4390-9), BH05A (890-4390-10), (890-4390-A-1-F MS) and (890-4390-A-1-G MSD)

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

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

Result Qualifier

1.09

75.8

84.2

73.0

0.274

0.781

RL

0.198

0.994

0.994

1.99

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

D

Prepared

03/29/23 16:35

04/04/23 10:00

04/04/23 10:00

04/04/23 10:00

03/29/23 16:35

03/29/23 16:35

Job ID: 890-4390-1 SDG: Lea County NM

# **Client Sample ID: BH01**

Date Collected: 03/22/23 11:20 Date Received: 03/22/23 15:42

Sample Depth: 1'

Client: Ensolum

Analyte

Benzene

Toluene

Ethylbenzene

m-Xylene & p-Xylene

Lab Sample ID: 890-4390-1

Analyzed

04/03/23 18:42

04/04/23 13:07

04/04/23 13:07

04/04/23 13:07

Matrix: Solid

Dil Fac

100

500

500

500

5

o-Xylene	35.0		0.198	mg/Kg		03/29/23 16:35	04/03/23 18:42	100
Xylenes, Total	103		1.99	mg/Kg		04/04/23 10:00	04/04/23 13:07	500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		<u>S1+</u>	70 - 130			03/29/23 16:35	04/03/23 18:42	100
1,4-Difluorobenzene (Surr)	92		70 - 130			03/29/23 16:35	04/03/23 18:42	100
Method: TAL SOP Total BTEX - To	tal BTEX Cal	culation						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	269		1.99	mg/Kg			04/04/23 10:18	1
	_							
Method: SW846 8015 NM - Diesel I		Qualifier	GC) RL	Unit	D	Dranavad	Analyzad	Dil Fac
Analyte		Quaimer	249			Prepared	Analyzed	1
Total TPH	10600		249	mg/Kg			03/29/23 14:59	1
Method: SW846 8015B NM - Diese	I Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2410	*+	249	mg/Kg		03/28/23 10:11	03/29/23 03:28	5
Diesel Range Organics (Over C10-C28)	7210	*+	249	mg/Kg		03/28/23 10:11	03/29/23 03:28	5
Oll Range Organics (Over C28-C36)	995		249	mg/Kg		03/28/23 10:11	03/29/23 03:28	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	147	S1+	70 - 130			03/28/23 10:11	03/29/23 03:28	5
o-Terphenyl	131	S1+	70 - 130			03/28/23 10:11	03/29/23 03:28	5
- Method: EPA 300.0 - Anions, Ion C	hromatogra	ohy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4470	F1	25.1	mg/Kg			04/01/23 00:00	5
lient Sample ID: BH01A						Lab Sar	nple ID: 890-	4390-2
· · · · · · · · · · · · · · · · · · ·						Lab Sar	nple ID: 890- Matri	4390-2 x: Solid
Date Collected: 03/22/23 11:40						Lab Sar	-	
Date Collected: 03/22/23 11:40 Date Received: 03/22/23 15:42						Lab Sar	-	
Date Collected: 03/22/23 11:40 Date Received: 03/22/23 15:42 Sample Depth: 4'	rganic Comp	ounds (GC)				Lab Sar	-	
Date Collected: 03/22/23 11:40 Date Received: 03/22/23 15:42		oounds (GC) Qualifier	RL	Unit	D	Lab Sar	-	
Date Collected: 03/22/23 11:40 Date Received: 03/22/23 15:42 Sample Depth: 4' Method: SW846 8021B - Volatile O				Unit mg/Kg	<u>D</u>		Matri	x: Solid
Date Collected: 03/22/23 11:40 Date Received: 03/22/23 15:42 Sample Depth: 4' Method: SW846 8021B - Volatile O Analyte	Result		RL		<u>D</u>	Prepared	Matri Analyzed	x: Solid
Analyte Benzene	Result 0.0762		<b>RL</b> 0.0398	mg/Kg	<u>D</u>	Prepared 03/29/23 16:35	Matri Analyzed 04/03/23 15:55	x: Solid

**Eurofins Carlsbad** 

04/03/23 15:55

04/03/23 15:55

o-Xylene

**Xylenes**, Total

0.0398

0.0795

mg/Kg

mg/Kg

20

20

5

# **Client Sample Results**

Job ID: 890-4390-1

Client: Ensolum Project/Site: SC Federal Battery (M	averick)						Job ID: 890 SDG: Lea Co	
Client Sample ID: BH01A						Lah Sar	nple ID: 890-	
Date Collected: 03/22/23 11:40						Lab Sai		x: Solid
Date Received: 03/22/23 15:42							Wath	x. Solid
Sample Depth: 4'								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130			03/29/23 16:35	04/03/23 15:55	20
1,4-Difluorobenzene (Surr)	98		70 - 130			03/29/23 16:35	04/03/23 15:55	20
	otal BTEX Cal	sulation						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	1.49	Quanner	0.0795	mg/Kg		Ticparca	04/03/23 16:48	1
	1.45		0.0735	ilig/itg			04/03/23 10:40	1
Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (	GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	258		49.8	mg/Kg			03/29/23 14:59	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(60)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U *+	49.8	mg/Kg		03/28/23 10:11	03/29/23 05:38	1
(GRO)-C6-C10			10.0					
Diesel Range Organics (Over C10-C28)	258	*+	49.8	mg/Kg		03/28/23 10:11	03/29/23 05:38	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		03/28/23 10:11	03/29/23 05:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130			03/28/23 10:11	03/29/23 05:38	1
o-Terphenyl	118		70 - 130			03/28/23 10:11	03/29/23 05:38	1
Method: EPA 300.0 - Anions, Ion	Chromatogram	hy - Solubl	e					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2600		25.0	mg/Kg			04/01/23 00:14	5
Client Sample ID: BH02						Lah Sar	nple ID: 890-	1300-3
Date Collected: 03/22/23 12:00						Lab Sal		x: Solid
							Watri	x. 50110
Date Received: 03/22/23 15:42								
Sample Depth: 1'								
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene							04/02/02 40:40	
	0.0404		0.0399	mg/Kg		03/29/23 16:35	04/03/23 16:16	20
Toluene	<b>0.0404</b> <0.0399	U	0.0399 0.0399	mg/Kg mg/Kg		03/29/23 16:35 03/29/23 16:35	04/03/23 16:16	20 20
Toluene Ethylbenzene		U						
	<0.0399	U	0.0399	mg/Kg		03/29/23 16:35	04/03/23 16:16	20
Ethylbenzene	<0.0399 <b>0.156</b>	U	0.0399 0.0399	mg/Kg mg/Kg		03/29/23 16:35 03/29/23 16:35	04/03/23 16:16 04/03/23 16:16	20 20
Ethylbenzene m-Xylene & p-Xylene	<0.0399 0.156 0.0863	U	0.0399 0.0399 0.0798	mg/Kg mg/Kg mg/Kg		03/29/23 16:35 03/29/23 16:35 03/29/23 16:35	04/03/23 16:16 04/03/23 16:16 04/03/23 16:16	20 20 20
Ethylbenzene m-Xylene & p-Xylene o-Xylene	<0.0399 0.156 0.0863 0.0523	U Qualifier	0.0399 0.0399 0.0798 0.0399	mg/Kg mg/Kg mg/Kg mg/Kg		03/29/23 16:35 03/29/23 16:35 03/29/23 16:35 03/29/23 16:35	04/03/23 16:16 04/03/23 16:16 04/03/23 16:16 04/03/23 16:16	20 20 20 20
Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total	<0.0399 0.156 0.0863 0.0523 0.139		0.0399 0.0399 0.0798 0.0399 0.0798	mg/Kg mg/Kg mg/Kg mg/Kg		03/29/23 16:35 03/29/23 16:35 03/29/23 16:35 03/29/23 16:35 03/29/23 16:35	04/03/23 16:16 04/03/23 16:16 04/03/23 16:16 04/03/23 16:16 04/03/23 16:16	20 20 20 20 20 20
Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate	<0.0399 0.156 0.0863 0.0523 0.139 %Recovery		0.0399 0.0399 0.0798 0.0399 0.0798 Limits	mg/Kg mg/Kg mg/Kg mg/Kg		03/29/23 16:35 03/29/23 16:35 03/29/23 16:35 03/29/23 16:35 03/29/23 16:35 <b>Prepared</b>	04/03/23 16:16 04/03/23 16:16 04/03/23 16:16 04/03/23 16:16 04/03/23 16:16 <b>Analyzed</b>	20 20 20 20 20 <b>Dil Fac</b>
Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr)	<0.0399 0.156 0.0863 0.0523 0.139 <u>%Recovery</u> 125 103	Qualifier	0.0399 0.0399 0.0798 0.0399 0.0798 <u>Limits</u> 70 - 130	mg/Kg mg/Kg mg/Kg mg/Kg		03/29/23 16:35 03/29/23 16:35 03/29/23 16:35 03/29/23 16:35 03/29/23 16:35 <b>Prepared</b> 03/29/23 16:35	04/03/23 16:16 04/03/23 16:16 04/03/23 16:16 04/03/23 16:16 04/03/23 16:16 <b>Analyzed</b> 04/03/23 16:16	20 20 20 20 20 20 <b>Dil Fac</b> 20
Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr)	<0.0399 0.156 0.0863 0.0523 0.139 <u>%Recovery</u> 125 103 Total BTEX Cald	Qualifier	0.0399 0.0399 0.0798 0.0399 0.0798 <u>Limits</u> 70 - 130	mg/Kg mg/Kg mg/Kg mg/Kg		03/29/23 16:35 03/29/23 16:35 03/29/23 16:35 03/29/23 16:35 03/29/23 16:35 <b>Prepared</b> 03/29/23 16:35	04/03/23 16:16 04/03/23 16:16 04/03/23 16:16 04/03/23 16:16 04/03/23 16:16 <b>Analyzed</b> 04/03/23 16:16	20 20 20 20 20 20 <b>Dil Fac</b> 20

 Method: SW846 8015 NM - Diesel Ra	ange Organi	ics (DRO) (0	GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			03/29/23 14:59	1

Matrix: Solid

Dil Fac

1

Job ID: 890-4390-1 SDG: Lea County NM

Lab Sample ID: 890-4390-3

Analyzed

03/29/23 06:21

Lab Sample ID: 890-4390-4

Matrix: Solid

Prepared

03/28/23 10:11

D

# **Client Sample ID: BH02**

#### Date Collected: 03/22/23 12:00 Date Received: 03/22/23 15:42

Sample Depth: 1'

Client: Ensolum

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	Unit						
Gasoline Range Organics	<49.9	U *+	49.9	mg/Kg						

(GRO)-C6-C10							
Diesel Range Organics (Over	<49.9	U *+	49.9	mg/Kg	03/28/23 10:11	03/29/23 06:21	1
C10-C28)							
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg	03/28/23 10:11	03/29/23 06:21	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130		03/28/23 10:11	03/29/23 06:21	1
o-Terphenyl	117		70 - 130		03/28/23 10:11	03/29/23 06:21	1

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

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5120	49.8	mg/Kg			04/01/23 00:19	10

#### **Client Sample ID: BH02A**

Date Collected: 03/22/23 12:20 Date Received: 03/22/23 15:42

#### Sample Depth: 4'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0402	U	0.0402	mg/Kg		03/29/23 16:35	04/03/23 16:37	20
Toluene	<0.0402	U	0.0402	mg/Kg		03/29/23 16:35	04/03/23 16:37	20
Ethylbenzene	<0.0402	U	0.0402	mg/Kg		03/29/23 16:35	04/03/23 16:37	20
m-Xylene & p-Xylene	<0.0805	U	0.0805	mg/Kg		03/29/23 16:35	04/03/23 16:37	20
o-Xylene	<0.0402	U	0.0402	mg/Kg		03/29/23 16:35	04/03/23 16:37	20
Xylenes, Total	<0.0805	U	0.0805	mg/Kg		03/29/23 16:35	04/03/23 16:37	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			03/29/23 16:35	04/03/23 16:37	20
1,4-Difluorobenzene (Surr)	106		70 - 130			03/29/23 16:35	04/03/23 16:37	20

Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0805	U	0.0805	mg/Kg			04/04/23 10:18	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	372		49.8	mg/Kg			03/29/23 14:59	1
- Method: SW846 8015B NM - Die	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U *+	49.8	mg/Kg		03/28/23 10:11	03/29/23 04:54	1
(GRO)-C6-C10								
Diesel Range Organics (Over	317	*+	49.8	mg/Kg		03/28/23 10:11	03/29/23 04:54	1
C10-C28)								
Oll Range Organics (Over	54.7		49.8	mg/Kg		03/28/23 10:11	03/29/23 04:54	1
C28-C36)								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130			03/28/23 10:11	03/29/23 04:54	1
o-Terphenyl	117		70 - 130			03/28/23 10:11	03/29/23 04:54	1

Eurofins Carlsbad

# Released to Imaging: 1/10/2024 11:56:33 AM

		Clier	nt Sample Re	sults				
Client: Ensolum			-				Job ID: 890	
Project/Site: SC Federal Battery (M	averick)						SDG: Lea Co	
Client Sample ID: BH02A						Lab Sar	nple ID: 890-	4390-4
Date Collected: 03/22/23 12:20							Matri	ix: Solid
Date Received: 03/22/23 15:42								
Sample Depth: 4'								
_ Method: EPA 300.0 - Anions, Ion	Chromatogran	hy - Solub	le					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	9090		49.5	mg/Kg		·	04/01/23 00:32	1
- Client Sample ID: BH02						Lab Sar	nple ID: 890-	1200 4
Client Sample ID: BH03 Date Collected: 03/22/23 12:40						Lap Sai		
Date Collected: 03/22/23 12:40							watri	ix: Solid
Sample Depth: 1'								
Method: SW846 8021B - Volatile			·					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	0.277		0.202	mg/Kg		03/29/23 16:35	04/03/23 19:02	10
Toluene	20.0		0.202	mg/Kg		03/29/23 16:35	04/03/23 19:02	10
Ethylbenzene	34.3		0.202	mg/Kg		03/29/23 16:35	04/03/23 19:02	10
m-Xylene & p-Xylene	28.3		0.404	mg/Kg		03/29/23 16:35	04/03/23 19:02	10
o-Xylene	13.1		0.202	mg/Kg		03/29/23 16:35	04/03/23 19:02	10
Xylenes, Total	41.4		0.404	mg/Kg		03/29/23 16:35	04/03/23 19:02	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)		S1+	70 - 130			03/29/23 16:35	04/03/23 19:02	10
1,4-Difluorobenzene (Surr)	85		70 - 130			03/29/23 16:35	04/03/23 19:02	10
Method: TAL SOP Total BTEX - T	otal BTEX Cal	sulation						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	96.0		0.404	mg/Kg		·	04/04/23 10:18	
Method: SW846 8015 NM - Diese								
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	9690		249	mg/Kg			03/29/23 14:59	
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	1280	*+	249	mg/Kg		03/28/23 10:11	03/29/23 03:50	
Diesel Range Organics (Over	7400	*+	249	mg/Kg		03/28/23 10:11	03/29/23 03:50	:
C10-C28)	1010		249	mg/Kg		03/28/23 10:11	03/29/23 03:50	
C10-C28) Oll Range Organics (Over C28-C36)								
Oll Range Organics (Over		Qualifier	Limits			Prepared	Analyzed	Dil Fa
Oll Range Organics (Over C28-C36)	%Recovery	<b>Qualifier</b> S1+	Limits 70 - 130			<b>Prepared</b> 03/28/23 10:11	Analyzed 03/29/23 03:50	Dil Fa

 Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

 Analyte
 Result
 Qualifier
 RL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 Chloride
 5190
 50.1
 mg/Kg
 D
 Oreganed
 Analyzed
 Dil Fac

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

Result Qualifier

<0.0396 U

<0.0396 U

<0.0396 U

<0.0792 U

<0.0396 U

RL

0.0396

0.0396

0.0396

0.0792

0.0396

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

D

Prepared

03/29/23 16:35

03/29/23 16:35

03/29/23 16:35

03/29/23 16:35

03/29/23 16:35

Job ID: 890-4390-1 SDG: Lea County NM

# **Client Sample ID: BH03A**

Date Collected: 03/22/23 13:00 Date Received: 03/22/23 15:42

Sample Depth: 4'

Client: Ensolum

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

m-Xylene & p-Xylene

Lab Sample ID: 890-4390-6

Analyzed

04/03/23 16:58

04/03/23 16:58

04/03/23 16:58

04/03/23 16:58

04/03/23 16:58

Matrix: Solid

Xylenes, Total	<0.0792	U	0.0792	mg/Kg		03/29/23 16:35	04/03/23 16:58	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			03/29/23 16:35	04/03/23 16:58	20
1,4-Difluorobenzene (Surr)	104		70 - 130			03/29/23 16:35	04/03/23 16:58	20
- Method: TAL SOP Total BTEX - T	otal BTEX Cal	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0792	U	0.0792	mg/Kg			04/04/23 10:18	1
Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (	GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	227		50.0	mg/Kg			03/29/23 14:59	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	<50.0	U *+	50.0	mg/Kg		03/28/23 10:11	03/29/23 05:16	1
(GRO)-C6-C10								
Diesel Range Organics (Over	227	*+	50.0	mg/Kg		03/28/23 10:11	03/29/23 05:16	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/28/23 10:11	03/29/23 05:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130			03/28/23 10:11	03/29/23 05:16	1
o-Terphenyl	114		70 - 130			03/28/23 10:11	03/29/23 05:16	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	ohy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7460		50.2	mg/Kg			04/01/23 00:41	10
Client Sample ID: BH04						Lab Sar	nple ID: 890-	4390-7
Date Collected: 03/22/23 13:20							Matri	x: Solid
Date Received: 03/22/23 15:42								
Sample Depth: 1'								
_ Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)	)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0996	U	0.0996	mg/Kg		03/29/23 16:35	04/03/23 18:21	50
				0 0				

4-Bromofluorobenzene (Surr)	119		70 _ 130		03/29/23 16:35	04/03/23 18:21	50
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
Xylenes, Total	<0.199	U	0.199	mg/Kg	03/29/23 16:35	04/03/23 18:21	50
o-Xylene	<0.0996	U	0.0996	mg/Kg	03/29/23 16:35	04/03/23 18:21	50
m-Xylene & p-Xylene	<0.199	U	0.199	mg/Kg	03/29/23 16:35	04/03/23 18:21	50
Ethylbenzene	<0.0996	U	0.0996	mg/Kg	03/29/23 16:35	04/03/23 18:21	50
Toluene	<0.0996	U	0.0996	mg/Kg	03/29/23 16:35	04/03/23 18:21	50
Benzene	<0.0996	U	0.0996	mg/Kg	03/29/23 16:35	04/03/23 18:21	50

4-Bromofluorobenzene (Surr)

Eurofins Carlsbad

Released to Imaging: 1/10/2024 11:56:33 AM

Matrix: Solid

5

#### **Client Sample Results**

Job ID: 890-4390-1 SDG: Lea County NM

Lab Sample ID: 890-4390-7

## **Client Sample ID: BH04**

Date Collected: 03/22/23 13:20 Date Received: 03/22/23 15:42

Sample Depth: 1'

Client: Ensolum

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

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1,4-Difluorobenzene (Surr)	97		70 - 130			03/29/23 16:35	04/03/23 18:21	5
Method: TAL SOP Total BTEX -	• Total BTEX Calo	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.199	U	0.199	mg/Kg			04/04/23 10:18	
Method: SW846 8015 NM - Dies	sel Range Organ	ics (DRO) (	GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	1120		50.0	mg/Kg			03/29/23 14:59	
Method: SW846 8015B NM - Di	esel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics	<50.0	U *+	50.0	mg/Kg		03/28/23 10:11	03/29/23 04:11	
(GRO)-C6-C10								
Diesel Range Organics (Over	9 <b>5</b> 9	*+	50.0	mg/Kg		03/28/23 10:11	03/29/23 04:11	
C10-C28)								
Oll Range Organics (Over	160		50.0	mg/Kg		03/28/23 10:11	03/29/23 04:11	
C28-C36)								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
Surroyate			70 - 130			03/28/23 10:11	03/29/23 04:11	
1-Chlorooctane	95							

#### Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier Unit Dil Fac RL D Prepared Analyzed Chloride 49.9 04/01/23 00:46 10 mg/Kg 7790

#### **Client Sample ID: BH04A**

Date Collected: 03/22/23 13:40 Date Received: 03/22/23 15:42 Sample Depth: 4'

# Lab Sample ID: 890-4390-8 Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0988		0.0398	mg/Kg		03/29/23 16:35	04/03/23 17:19	20
Toluene	<0.0398	U	0.0398	mg/Kg		03/29/23 16:35	04/03/23 17:19	20
Ethylbenzene	<0.0398	U	0.0398	mg/Kg		03/29/23 16:35	04/03/23 17:19	20
m-Xylene & p-Xylene	<0.0795	U	0.0795	mg/Kg		03/29/23 16:35	04/03/23 17:19	20
o-Xylene	<0.0398	U	0.0398	mg/Kg		03/29/23 16:35	04/03/23 17:19	20
Xylenes, Total	<0.0795	U	0.0795	mg/Kg		03/29/23 16:35	04/03/23 17:19	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	156	S1+	70 - 130			03/29/23 16:35	04/03/23 17:19	20
1,4-Difluorobenzene (Surr)	104		70 - 130			03/29/23 16:35	04/03/23 17:19	20
- Method: TAL SOP Total BTEX	- Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0988		0.0795	mg/Kg			04/04/23 10:18	1

Matrix: Solid

Matrix: Solid

5

# **Client Sample Results**

Job ID: 890-4390-1 SDG: Lea County NM

Lab Sample ID: 890-4390-8

# **Client Sample ID: BH04A**

Date Collected: 03/22/23 13:40 Date Received: 03/22/23 15:42

Client: Ensolum

Method: SW846 8015 NM - Diese								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	279		49.9	mg/Kg			03/29/23 14:59	1
Method: SW846 8015B NM - Die	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *+	49.9	mg/Kg		03/28/23 10:11	03/29/23 06:00	1
Diesel Range Organics (Over C10-C28)	279	*+	49.9	mg/Kg		03/28/23 10:11	03/29/23 06:00	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/28/23 10:11	03/29/23 06:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	97		70 - 130			03/28/23 10:11	03/29/23 06:00	1
o-Terphenyl	117		70 - 130			03/28/23 10:11	03/29/23 06:00	1
o-Terphenyl Method: EPA 300.0 - Anions, Ion		ohy - Solubl				03/28/23 10:11	03/29/23 06:00	î
Method: EPA 300.0 - Anions, Ion	Chromatograp	o <mark>hy - Solubl</mark> Qualifier		Unit	D	03/28/23 10:11 Prepared	03/29/23 06:00 Analyzed	Dil Fac
Method: EPA 300.0 - Anions, Ion Analyte	Chromatograp		e	Unit mg/Kg	<u>D</u>			
Method: EPA 300.0 - Anions, Ion Analyte Chloride	Chromatograp		e		D	Prepared	Analyzed	1(
Method: EPA 300.0 - Anions, Ion Analyte Chloride Client Sample ID: BH05	Chromatograp		e		<u>D</u>	Prepared	Analyzed 04/01/23 00:51 nple ID: 890-	10 4390-9
Method: EPA 300.0 - Anions, Ion Analyte Chloride Client Sample ID: BH05 Date Collected: 03/22/23 14:00	Chromatograp		e		<u> </u>	Prepared	Analyzed 04/01/23 00:51 nple ID: 890-	10 4390-9
Method: EPA 300.0 - Anions, Ion Analyte Chloride Client Sample ID: BH05 Date Collected: 03/22/23 14:00 Date Received: 03/22/23 15:42	Chromatograp		e		<u>D</u>	Prepared	Analyzed 04/01/23 00:51 nple ID: 890-	10 4390-9
Method: EPA 300.0 - Anions, Ion Analyte Chloride Client Sample ID: BH05 Date Collected: 03/22/23 14:00 Date Received: 03/22/23 15:42 Sample Depth: 1'	Chromatograp	Qualifier	eRL		<u>D</u>	Prepared	Analyzed 04/01/23 00:51 nple ID: 890-	10 4390-9
Method: EPA 300.0 - Anions, Ion Analyte Chloride Client Sample ID: BH05 Date Collected: 03/22/23 14:00 Date Received: 03/22/23 15:42 Sample Depth: 1' Method: SW846 8021B - Volatile	Organic Comp	Qualifier	eRL		<u>D</u>	Prepared	Analyzed 04/01/23 00:51 nple ID: 890-	4 <b>390-9</b> ix: Solic
Method: EPA 300.0 - Anions, Ion Analyte Chloride Client Sample ID: BH05 Date Collected: 03/22/23 14:00 Date Received: 03/22/23 15:42 Sample Depth: 1' Method: SW846 8021B - Volatile Analyte	Organic Comp	Qualifier ounds (GC) Qualifier	e RL	mg/Kg		Prepared Lab Sar	Analyzed 04/01/23 00:51 nple ID: 890- Matri	10 4390-9 ix: Solid
Method: EPA 300.0 - Anions, Ion Analyte Chloride Client Sample ID: BH05 Date Collected: 03/22/23 14:00 Date Received: 03/22/23 15:42	Organic Comp Result	Qualifier ounds (GC) Qualifier U	e 	mg/Kg		Prepared Lab Sar	Analyzed 04/01/23 00:51 nple ID: 890- Matri Analyzed	1 Dil Fac 10 4390-9 ix: Solid Dil Fac 20 20 20

1,4-Difluorobenzene (Surr)	102		70 - 130		03/29/23 16:35	04/03/23 17:39	20
4-Bromofluorobenzene (Surr)	106		70 - 130		03/29/23 16:35	04/03/23 17:39	20
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
Xylenes, Total	<0.0798	U	0.0798	mg/Kg	03/29/23 16:35	04/03/23 17:39	20
o-Xylene	<0.0399	U	0.0399	mg/Kg	03/29/23 16:35	04/03/23 17:39	20
m-Xylene & p-Xylene	<0.0798	U	0.0798	mg/Kg	03/29/23 16:35	04/03/23 17:39	20
Ethylbenzene	0.0437		0.0399	mg/Kg	03/29/23 16:35	04/03/23 17:39	20
Toluelle	-0.0000	0	0.0333	ing/itg	03/23/25 10.33	04/03/23 17:33	20

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0798	U	0.0798	mg/Kg			04/04/23 10:18	1
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (G	C)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	805		49.9	mg/Kg			03/29/23 14:59	1
		nics (DRO) (					00,20,20 1100	
Method: SW846 8015B NM - Dies	sel Range Orga		GC)		п	Prenared		Dil Eac
Method: SW846 8015B NM - Dies Analyte	sel Range Orga Result	Qualifier	GC) RL	<u>Unit</u>	D	Prepared	Analyzed	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	sel Range Orga	Qualifier	GC)		<u>D</u>	Prepared 03/28/23 10:11		Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	sel Range Orga Result <49.9	Qualifier U *+	GC) RL 49.9	Unit mg/Kg	<u>D</u>	03/28/23 10:11	Analyzed 03/29/23 04:33	1
	sel Range Orga Result	Qualifier	GC) RL	<u>Unit</u>	<u> </u>		Analyzed	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	sel Range Orga Result <49.9	Qualifier U *+	GC) RL 49.9	Unit mg/Kg	<u> </u>	03/28/23 10:11	Analyzed 03/29/23 04:33	

Client: Ensolum

# **Client Sample Results**

Job ID: 890-4390-1 SDG: Lea County NM

Client Sample ID: BH05						Lab Sar	nple ID: 890-	4390-9
ate Collected: 03/22/23 14:00							Matri	x: Solid
ate Received: 03/22/23 15:42								
ample Depth: 1'								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130			03/28/23 10:11	03/29/23 04:33	1
o-Terphenyl	129		70 - 130			03/28/23 10:11	03/29/23 04:33	1
Method: EPA 300.0 - Anions, lo	n Chromatograp	hy - Solub	le					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4030		25.2	mg/Kg			04/01/23 00:55	Ę
Client Sample ID: BH05A						Lab Sam	ple ID: 890-4	390-10
Date Collected: 03/22/23 14:20							Matri	x: Solid
Date Received: 03/22/23 15:42								
Sample Depth: 4'								
_ Method: SW846 8021B - Volatile	Organic Comp	ounds (GC	<b>N</b>					
Analyte		Qualifier	, RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0402	U	0.0402	mg/Kg		03/29/23 16:35	04/03/23 18:00	20
Toluene	<0.0402	U	0.0402	mg/Kg		03/29/23 16:35	04/03/23 18:00	20
Ethylbenzene	<0.0402	U	0.0402	mg/Kg		03/29/23 16:35	04/03/23 18:00	20
m-Xylene & p-Xylene	<0.0805	U	0.0805	mg/Kg		03/29/23 16:35	04/03/23 18:00	20
o-Xylene	<0.0402	U	0.0402	mg/Kg		03/29/23 16:35	04/03/23 18:00	20
Xylenes, Total	<0.0805	U	0.0805	mg/Kg		03/29/23 16:35	04/03/23 18:00	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130			03/29/23 16:35	04/03/23 18:00	20
1,4-Difluorobenzene (Surr)	105		70 - 130			03/29/23 16:35	04/03/23 18:00	20
- Method: TAL SOP Total BTEX -	Total BTEX Cal	culation						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0805	U	0.0805	mg/Kg		· · · ·	04/04/23 10:18	1
			<b>2</b> 0)					
Method: SW846 8015 NM - Dies Analyte		Qualifier	GC) RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	56.7		50.0	mg/Kg			03/29/23 14:59	1
-								
Method: SW846 8015B NM - Die Analyte	• •	Dinics (DRO) Qualifier	(GC) RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics			50.0	mg/Kg		03/28/23 10:11	03/29/23 06:44	
(GRO)-C6-C10	-00.0	5	50.0			30/20/20 10.11	55,20,20 00.74	
Diesel Range Organics (Over	56.7	*+	50.0	mg/Kg		03/28/23 10:11	03/29/23 06:44	1
C10-C28) Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/28/23 10:11	03/29/23 06:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130			03/28/23 10:11	03/29/23 06:44	1
o-Terphenyl	111		70 - 130			03/28/23 10:11	03/29/23 06:44	1
Method: EPA 300.0 - Anions, lo	n Chromatograp	ohy - Solub	le					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
				Unit mg/Kg	<u> </u>	Prepar	ed	red Analyzed 04/01/23 01:00

Client: Ensolum

Job ID: 890-4390-1 SDG: Lea County NM

Prep Type: Total/NA

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

				Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		5
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		<b>O</b>
880-26267-A-1-D MS	Matrix Spike	103	91		
880-26267-A-1-E MSD	Matrix Spike Duplicate	104	90		6
880-26634-A-3-C MS	Matrix Spike	98	89		
880-26634-A-3-D MSD	Matrix Spike Duplicate	93	89		
890-4390-1	BH01	277 S1+	92		
890-4390-2	BH01A	98	98		8
890-4390-3	BH02	125	103		
890-4390-4	BH02A	101	106		0
890-4390-5	BH03	187 S1+	85		3
890-4390-6	BH03A	119	104		
890-4390-7	BH04	119	97		
890-4390-8	BH04A	156 S1+	104		
890-4390-9	BH05	106	102		
890-4390-10	BH05A	134 S1+	105		
LCS 880-49890/1-A	Lab Control Sample	92	90		
LCS 880-50148/1-A	Lab Control Sample	97	90		
LCSD 880-49890/2-A	Lab Control Sample Dup	105	98		13
LCSD 880-50148/2-A	Lab Control Sample Dup	93	91		
MB 880-49890/5-A	Method Blank	98	81		
MB 880-50148/5-A	Method Blank	97	80		

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Prep Type: Total/NA

				Percent Surrogate Rec
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-4387-A-7-B MS	Matrix Spike	127	135 S1+	
890-4387-A-7-C MSD	Matrix Spike Duplicate	116	123	
890-4390-1	BH01	147 S1+	131 S1+	
890-4390-2	BH01A	97	118	
890-4390-3	BH02	97	117	
890-4390-4	BH02A	96	117	
890-4390-5	BH03	141 S1+	129	
890-4390-6	BH03A	94	114	
890-4390-7	BH04	95	116	
890-4390-8	BH04A	97	117	
890-4390-9	BH05	112	129	
890-4390-10	BH05A	98	111	
LCS 880-49712/2-A	Lab Control Sample	139 S1+	165 S1+	
LCSD 880-49712/3-A	Lab Control Sample Dup	127	149 S1+	
MB 880-49712/1-A	Method Blank	124	153 S1+	
Surrogate Legend				

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Lab Sample ID: MB 880-49890/5-A

# **QC Sample Results**

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

Matrix: Solid Analysis Batch: 50118							Prep Type: 1 Prep Batch	
	МВ	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00200	U	0.00200	mg/Kg		03/29/23 16:35	04/03/23 11:02	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/29/23 16:35	04/03/23 11:02	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/29/23 16:35	04/03/23 11:02	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/29/23 16:35	04/03/23 11:02	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/29/23 16:35	04/03/23 11:02	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/29/23 16:35	04/03/23 11:02	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130			03/29/23 16:35	04/03/23 11:02	1
1,4-Difluorobenzene (Surr)	81		70 - 130			03/29/23 16:35	04/03/23 11:02	1

#### Lab Sample ID: LCS 880-49890/1-A Matrix: Solid

#### Analysis Batch: 50118

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09023		mg/Kg		90	70 - 130	
Toluene	0.100	0.09583		mg/Kg		96	70 - 130	
Ethylbenzene	0.100	0.08819		mg/Kg		88	70 - 130	
m-Xylene & p-Xylene	0.200	0.1798		mg/Kg		90	70 - 130	
o-Xylene	0.100	0.08983		mg/Kg		90	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

#### Lab Sample ID: LCSD 880-49890/2-A

#### Matrix: Solid

Analysis Batch: 50118							Prep Batch: 49890		
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09909		mg/Kg		99	70 - 130	9	35
Toluene	0.100	0.1074		mg/Kg		107	70 - 130	11	35
Ethylbenzene	0.100	0.09936		mg/Kg		99	70 - 130	12	35
m-Xylene & p-Xylene	0.200	0.2037		mg/Kg		102	70 - 130	12	35
o-Xylene	0.100	0.1013		mg/Kg		101	70 - 130	12	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

## Lab Sample ID: 880-26267-A-1-D MS

# Matrix: Solid

Analysis Batch: 50118									Pre	Batch: 49890
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.0998	0.09733		mg/Kg		98	70 - 130	
Toluene	<0.00200	U	0.0998	0.1056		mg/Kg		106	70 - 130	

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Prep Type: Total/NA

**Client Sample ID: Matrix Spike** 

**Client Sample ID: Method Blank** 

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 49890

MS MS

0.09611

0.1967

0.09628

**Result Qualifier** 

Unit

mg/Kg

mg/Kg

mg/Kg

Spike

Added

0.0998

0.200

0.0998

Limits

70 - 130

70 - 130

Client: Ensolum Project/Site: SC Federal Battery (Maverick)

Lab Sample ID: 880-26267-A-1-D MS

Matrix: Solid

Analyte

o-Xylene

Surrogate

Ethylbenzene

m-Xylene & p-Xylene

Analysis Batch: 50118

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

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

Sample Sample

<0.00200

<0.00401 U

<0.00200 U

103

91

%Recovery

Result Qualifier

U

MS MS

Qualifier

Job ID: 890-4390-1 SDG: Lea County NM

Prep Type: Total/NA

Prep Batch: 49890

**Client Sample ID: Matrix Spike** 

%Rec

Limits

70 - 130

70 - 130

70 - 130

%Rec

96

99

96

D

# 7

ep iype: lota

Client Sample ID	: Matrix	Spike	Duplicate
	Pro	n Tyne	· Total/NA

**Client Sample ID: Method Blank** 

04/04/23 11:21

**Client Sample ID: Lab Control Sample** 

04/03/23 09:46

Prep Type: Total/NA

Prep Batch: 50148

#### Matrix: Solid Analysis Batch: 50118

Lab Sample ID: 880-26267-A-1-E MSD

Analysis Batch: 50118									Prep	Batch:	49890	
-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	<0.00200	U	0.100	0.09477		mg/Kg		95	70 - 130	3	35	
Toluene	<0.00200	U	0.100	0.1021		mg/Kg		102	70 - 130	3	35	
Ethylbenzene	<0.00200	U	0.100	0.09258		mg/Kg		92	70 - 130	4	35	
m-Xylene & p-Xylene	<0.00401	U	0.200	0.1889		mg/Kg		94	70 - 130	4	35	÷
o-Xylene	<0.00200	U	0.100	0.09317		mg/Kg		93	70 - 130	3	35	

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

#### Lab Sample ID: MB 880-50148/5-A Matrix: Solid Analysis Batch: 50286

	МВ	мв					•	
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00200	U	0.00200	mg/Kg		04/03/23 09:46	04/04/23 11:21	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/03/23 09:46	04/04/23 11:21	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/03/23 09:46	04/04/23 11:21	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/03/23 09:46	04/04/23 11:21	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/03/23 09:46	04/04/23 11:21	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/03/23 09:46	04/04/23 11:21	1
	MB	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130			04/03/23 09:46	04/04/23 11:21	1

70 - 130

## 80 1,4-Difluorobenzene (Surr)

#### Lab Sample ID: LCS 880-50148/1-A Matrix: Solid Analysis Batch: 50286

Analysis Batch: 50286							Prep Batch: 50148		
	Spike	LCS	LCS				%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	0.100	0.09315		mg/Kg		93	70 - 130		
Toluene	0.100	0.09893		mg/Kg		99	70 - 130		
Ethylbenzene	0.100	0.09269		mg/Kg		93	70 - 130		
m-Xylene & p-Xylene	0.200	0.1909		mg/Kg		95	70 - 130		

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Prep Type: Total/NA

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1
Lab Sample ID: LCS 880-50148/1-A

Matrix: Solid

### **QC Sample Results**

Client: Ensolum Project/Site: SC Federal Battery (Maverick)

#### Job ID: 890-4390-1 SDG: Lea County NM

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

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

Analysis Batch: 50286									Prep 1		
									Prep	Batch:	50148
			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
o-Xylene			0.100	0.09584		mg/Kg		96	70 - 130		
	LCS	LCS									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	<u>97</u>		70 - 130								
1,4-Difluorobenzene (Surr)	90		70 - 130								
Lab Sample ID: LCSD 880-5	50148/2-A					Clier	nt Sam	ple ID:	Lab Contro	ol Sampl	e Dup
Matrix: Solid									Prep 1	Type: To	tal/NA
Analysis Batch: 50286										Batch:	
-			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene			0.100	0.08455		mg/Kg		85	70 - 130	10	35
Toluene			0.100	0.08681		mg/Kg		87	70 - 130	13	35
Ethylbenzene			0.100	0.07907		mg/Kg		79	70 - 130	16	35
m-Xylene & p-Xylene			0.200	0.1628		mg/Kg		81	70 - 130	16	35
o-Xylene			0.100	0.08159		mg/Kg		82	70 - 130	16	35
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	93		70 - 130								
1,4-Difluorobenzene (Surr)	91		70 - 130								
Analysis Batch: 50286										Batch:	<b>5014</b> 8
		Sample	Spike		MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	<0.00200	U	0.0996	0.08794		mg/Kg		88	70 - 130		
Benzene Toluene	<0.00200 <0.00200		0.0996 0.0996	0.08794 0.09399		mg/Kg mg/Kg		88 94	70 <sub>-</sub> 130 70 <sub>-</sub> 130		
		U									
Toluene	<0.00200	U U	0.0996	0.09399		mg/Kg		94	70 - 130		
Toluene Ethylbenzene	<0.00200 <0.00200	บ บ บ	0.0996 0.0996	0.09399 0.08527		mg/Kg mg/Kg		94 85	70 <sub>-</sub> 130 70 <sub>-</sub> 130		
Toluene Ethylbenzene m-Xylene & p-Xylene	<0.00200 <0.00200 <0.00399 <0.00200	บ บ บ บ	0.0996 0.0996 0.199	0.09399 0.08527 0.1768		mg/Kg mg/Kg mg/Kg		94 85 88	70 - 130 70 - 130 70 - 130		
Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene	<0.00200 <0.00200 <0.00399 <0.00200 <i>MS</i>	U U U U MS	0.0996 0.0996 0.199 0.0996	0.09399 0.08527 0.1768		mg/Kg mg/Kg mg/Kg		94 85 88	70 - 130 70 - 130 70 - 130		
Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate	<0.00200 <0.00200 <0.00399 <0.00200 <i>MS</i> % <i>Recovery</i>	U U U U MS	0.0996 0.0996 0.199 0.0996 <i>Limits</i>	0.09399 0.08527 0.1768		mg/Kg mg/Kg mg/Kg		94 85 88	70 - 130 70 - 130 70 - 130		
Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene <b>Surrogate</b> 4-Bromofluorobenzene (Surr)	<0.00200 <0.00200 <0.00399 <0.00200 <i>MS</i> % <i>Recovery</i> 98	U U U U MS	0.0996 0.0996 0.199 0.0996 <u>Limits</u> 70 - 130	0.09399 0.08527 0.1768		mg/Kg mg/Kg mg/Kg		94 85 88	70 - 130 70 - 130 70 - 130		
Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate	<0.00200 <0.00200 <0.00399 <0.00200 <i>MS</i> % <i>Recovery</i>	U U U U MS	0.0996 0.0996 0.199 0.0996 <i>Limits</i>	0.09399 0.08527 0.1768		mg/Kg mg/Kg mg/Kg		94 85 88	70 - 130 70 - 130 70 - 130		
Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene <b>Surrogate</b> 4-Bromofluorobenzene (Surr)	<0.00200 <0.00200 <0.00399 <0.00200 <i>MS</i> <i>%Recovery</i> 98 89	U U U U MS	0.0996 0.0996 0.199 0.0996 <u>Limits</u> 70 - 130	0.09399 0.08527 0.1768		mg/Kg mg/Kg mg/Kg mg/Kg		94 85 88 87	70 - 130 70 - 130 70 - 130	pike Dup	Dlicate
Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr)	<0.00200 <0.00200 <0.00399 <0.00200 <i>MS</i> <i>%Recovery</i> 98 89	U U U U MS	0.0996 0.0996 0.199 0.0996 <u>Limits</u> 70 - 130	0.09399 0.08527 0.1768		mg/Kg mg/Kg mg/Kg mg/Kg		94 85 88 87	70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	pike Dup Type: To	
Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene <i>Surrogate</i> 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-26634-4	<0.00200 <0.00200 <0.00399 <0.00200 <i>MS</i> <i>%Recovery</i> 98 89	U U U U MS	0.0996 0.0996 0.199 0.0996 <u>Limits</u> 70 - 130	0.09399 0.08527 0.1768		mg/Kg mg/Kg mg/Kg mg/Kg		94 85 88 87	70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 9: Matrix Sp Prep 1		tal/NA
Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene <i>Surrogate</i> <i>4-Bromofluorobenzene (Surr)</i> <i>1,4-Difluorobenzene (Surr)</i> Lab Sample ID: 880-26634-4 Matrix: Solid	<0.00200 <0.00200 <0.00399 <0.00200 <i>MS</i> <i>%Recovery</i> 98 89	U U U MS Qualifier	0.0996 0.0996 0.199 0.0996 <u>Limits</u> 70 - 130	0.09399 0.08527 0.1768 0.08796	MSD	mg/Kg mg/Kg mg/Kg mg/Kg		94 85 88 87	70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 9: Matrix Sp Prep 1	Гуре: То	tal/NA
Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene <i>Surrogate</i> <i>4-Bromofluorobenzene (Surr)</i> <i>1,4-Difluorobenzene (Surr)</i> Lab Sample ID: 880-26634-4 Matrix: Solid	<0.00200 <0.00200 <0.00399 <0.00200 <i>MS</i> <i>%Recovery</i> 98 89 A-3-D MSD Sample	U U U MS Qualifier	0.0996 0.0996 0.199 0.0996 <u>Limits</u> 70 - 130 70 - 130	0.09399 0.08527 0.1768 0.08796	MSD Qualifier	mg/Kg mg/Kg mg/Kg mg/Kg		94 85 88 87	70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 9: Matrix Sp Prep 1 Prep 1 Prep	Гуре: То	tal/NA 50148
Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene <u>Surrogate</u> 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-26634-4 Matrix: Solid Analysis Batch: 50286	<0.00200 <0.00200 <0.00399 <0.00200 <i>MS</i> <i>%Recovery</i> 98 89 A-3-D MSD Sample	U U U MS Qualifier Sample Qualifier	0.0996 0.199 0.0996 <i>Limits</i> 70 - 130 70 - 130 70 - 130	0.09399 0.08527 0.1768 0.08796		mg/Kg mg/Kg mg/Kg mg/Kg	ient Sa	94 85 88 87	70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 9: Matrix Sp Prep 1 Prep 3 %Rec	Type: To Batch:	tal/NA 50148 RPD
Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene <i>Surrogate</i> 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-26634-4 Matrix: Solid Analysis Batch: 50286 Analyte Benzene	<0.00200 <0.00200 <0.00399 <0.00200 <i>MS</i> % <i>Recovery</i> 98 89 A-3-D MSD Sample Result	U U U MS Qualifier U	0.0996 0.199 0.0996 <i>Limits</i> 70 - 130 70 - 130 70 - 130	0.09399 0.08527 0.1768 0.08796 MSD Result		mg/Kg mg/Kg mg/Kg mg/Kg	ient Sa	94 85 88 87 ample IC	70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 9: Matrix Sp Prep 1 Prep %Rec Limits	Type: To Batch: RPD	tal/NA 50148 RPD Limit
Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene <i>Surrogate</i> <i>4-Bromofluorobenzene (Surr)</i> <i>1,4-Difluorobenzene (Surr)</i> <i>1,4-Difluorobenzene (Surr)</i> Lab Sample ID: 880-26634-4 Matrix: Solid Analysis Batch: 50286 Analyte	<0.00200 <0.00200 <0.00399 <0.00200 <i>MS</i> % <i>Recovery</i> 98 89 A-3-D MSD Sample <u>Result</u> <0.00200	U U U MS Qualifier U U	0.0996 0.0996 0.199 0.0996 <u>Limits</u> 70 - 130 70 - 130 70 - 130 <b>Spike</b> Added 0.0990	0.09399 0.08527 0.1768 0.08796 MSD Result 0.09928		mg/Kg mg/Kg mg/Kg mg/Kg - Unit mg/Kg	ient Sa	94 85 88 87 <b>ample IC</b> <u>%Rec</u> 100	70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 9: Matrix Sp Prep 1 Prep %Rec Limits 70 - 130	Type: To Batch: RPD 12	tal/NA 50148 RPD Limit 35
Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene <i>Surrogate</i> <i>4-Bromofluorobenzene (Surr)</i> 1,4-Difluorobenzene (Surr) Lab Sample ID: 880-26634-4 Matrix: Solid Analysis Batch: 50286 Analyte Benzene Toluene	<0.00200 <0.00200 <0.00399 <0.00200 <i>MS</i> % <i>Recovery</i> 98 89 <b>A-3-D MSD</b> <b>Sample</b> <u>Result</u> <0.00200 <0.00200	U U U U MS Qualifier U U U	0.0996 0.0996 0.199 0.0996 <u>Limits</u> 70 - 130 70 - 130 70 - 130 <b>Spike</b> Added 0.0990 0.0990	0.09399 0.08527 0.1768 0.08796 <b>MSD</b> Result 0.09928 0.1068		mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	ient Sa	94 85 88 87 <b>ample IC</b> <u>%Rec</u> 100 108	70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 <b>0: Matrix Sg</b> <b>Prep 1</b> <b>Prep 3</b> <b>%Rec</b> <b>Limits</b> 70 - 130 70 - 130	Type: To Batch: RPD 12 13	tal/NA 50148 RPD Limit 35 35

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Client: Ensolum

### **QC Sample Results**

### Job ID: 890-4390-1 SDG: Lea County NM

Lab Sample ID: 880-26634-A-3-	D MSD						С	lient S	ample ID:	Matrix Spike	e Dup	olicate
Matrix: Solid										Prep Typ	e: To	tal/N/
Analysis Batch: 50286										Prep Ba	atch:	5014
	MSD	Men										
Surrogata				Limits								
Surrogate 4-Bromofluorobenzene (Surr)	%Recovery 93	Qual	mer	70 - 130								
1,4-Difluorobenzene (Surr)	93 89			70 - 130 70 - 130								
Aethod: 8015B NM - Diesel		aan	vice (DP									
-		gan		.0) (00)					Olivert Or		41	Disal
Lab Sample ID: MB 880-49712/	1-A								Client Sa	ample ID: Me		
Matrix: Solid										Prep Typ		
Analysis Batch: 49689		мв	MD							Prep Ba	atch:	49/12
Analyta	B			ы		Unit			Propored	Analyzed		
Analyte		50.0	Qualifier	<b>RL</b> 50.0		Unit			Prepared 28/23 10:11	Analyzed 03/28/23 21:4	13 -	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<	50.0	U	50.0		mg/Kg		03/2	20/23 10:11	03/20/23 21:2	ьЭ	1
Diesel Range Organics (Over C10-C28)	<	50.0	U	50.0		mg/Kg		03/2	28/23 10:11	03/28/23 21:4	13	1
Oll Range Organics (Over C28-C36)	<	50.0	U	50.0		mg/Kg		03/2	28/23 10:11	03/28/23 21:4	13	1
		MВ	MB									
Surrogate	%Reco	very	Qualifier	Limits				ŀ	Prepared	Analyzed		Dil Fac
1-Chlorooctane		124		70 - 130				03/	28/23 10:11	03/28/23 21:4	43	1
o-Terphenyl		153	S1+	70 - 130				03/	28/23 10:11	03/28/23 21:4	43	1
Lab Sample ID: LCS 880-49712	/ <b>2-A</b>							Clien	t Sample	ID: Lab Cont	rol S	ample
Lab Sample ID: LCS 880-49712 Matrix: Solid Analysis Batch: 49689	/ <b>2-A</b>			Spike	LCS		Unit		-	Prep Typ Prep Ba %Rec	e: To	tal/NA
Matrix: Solid Analysis Batch: 49689 Analyte	/2-A			Added	Result	Qualifier	Unit ma/Ka	Clien	%Rec	Prep Typ Prep Ba %Rec Limits	e: To	tal/NA
Matrix: Solid Analysis Batch: 49689 Analyte Gasoline Range Organics	/2-A			-		Qualifier	Unit mg/Kg		-	Prep Typ Prep Ba %Rec	e: To	tal/NA
Matrix: Solid Analysis Batch: 49689 Analyte	/2-A			Added	Result	Qualifier *+			%Rec	Prep Typ Prep Ba %Rec Limits	e: To	tal/NA
Matrix: Solid Analysis Batch: 49689 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	LCS			Added 1000	Result 1940	Qualifier *+	mg/Kg		<b>%Rec</b>	Prep Typ Prep Ba %Rec Limits 70 - 130	e: To	tal/NA
Matrix: Solid Analysis Batch: 49689 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate	LCS %Recovery	Qual	lifier	Added 1000 1000 <i>Limits</i>	Result 1940	Qualifier *+	mg/Kg		<b>%Rec</b>	Prep Typ Prep Ba %Rec Limits 70 - 130	e: To	tal/NA
Matrix: Solid Analysis Batch: 49689 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane	LCS %Recovery 139	<b>Qual</b> S1+	lifier	Added 1000 1000 <i>Limits</i> 70 - 130	Result 1940	Qualifier *+	mg/Kg		<b>%Rec</b>	Prep Typ Prep Ba %Rec Limits 70 - 130	e: To	tal/NA
Matrix: Solid Analysis Batch: 49689 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate	LCS %Recovery 139	Qual	lifier	Added 1000 1000 <i>Limits</i>	Result 1940	Qualifier *+	mg/Kg		<b>%Rec</b>	Prep Typ Prep Ba %Rec Limits 70 - 130	e: To	tal/NA
Matrix: Solid Analysis Batch: 49689 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-4971	LCS %Recovery 139 165	<b>Qual</b> S1+	lifier	Added 1000 1000 <i>Limits</i> 70 - 130	Result 1940	Qualifier *+	mg/Kg mg/Kg	<u>D</u>	<b>%Rec</b> 194 209	Prep Typ Prep Ba %Rec Limits 70 - 130 70 - 130 70 - 130	e: To atch:	49712
Matrix: Solid Analysis Batch: 49689 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-4971 Matrix: Solid	LCS %Recovery 139 165	<b>Qual</b> S1+	lifier	Added 1000 1000 <i>Limits</i> 70 - 130	Result 1940	Qualifier *+	mg/Kg mg/Kg	<u>D</u>	<b>%Rec</b> 194 209	Prep Typ Prep Ba %Rec Limits 70 - 130 70 - 130 70 - 130 ab Control S Prep Typ	e: To atch:  ampl e: To	le Dup
Matrix: Solid Analysis Batch: 49689 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-4971	LCS %Recovery 139 165	<b>Qual</b> S1+	lifier	Added 1000 1000 <u>Limits</u> 70 - 130 70 - 130	<b>Result</b> 1940 2086	Qualifier *+ *+	mg/Kg mg/Kg	<u>D</u>	<b>%Rec</b> 194 209	Prep Typ Prep Ba %Rec Limits 70 - 130 70 - 130 70 - 130 70 - Prep Ba	e: To atch:  ampl e: To	le Dup tal/NA 49712
Matrix: Solid Analysis Batch: 49689 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-4971 Matrix: Solid Analysis Batch: 49689	LCS %Recovery 139 165	<b>Qual</b> S1+	lifier	Added 1000 1000 <i>Limits</i> 70 - 130 70 - 130 <b>Spike</b>	<b>Result</b> 1940 2086	Qualifier *+ *+	mg/Kg mg/Kg Clie	D_	<mark>%Rec</mark> 194 209	Prep Typ Prep Ba %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 8 b Control S Prep Typ Prep Ba %Rec	e: To atch:  e: To atch:	le Dup tal/NA 49712 49712 49712 RPD
Matrix: Solid Analysis Batch: 49689 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-4971 Matrix: Solid Analysis Batch: 49689 Analyte	LCS %Recovery 139 165	<b>Qual</b> S1+	lífier	Added 1000 1000 <i>Limits</i> 70 - 130 70 - 130 Spike Added	Result 1940 2086 LCSD Result	Qualifier *+ *+ LCSD Qualifier	mg/Kg mg/Kg Clie	<u>D</u>	<u>%Rec</u> 194 209 nple ID: L	Prep Typ Prep Ba %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - Prep Ba %Rec Limits	e: To atch:  e: To atch: 	le Dup tal/NA 49712 49712 tal/NA 49712 RPI Limi
Matrix: Solid Analysis Batch: 49689 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-4971 Matrix: Solid Analysis Batch: 49689 Analyte Gasoline Range Organics (GRO)-C6-C10	LCS %Recovery 139 165	<b>Qual</b> S1+	lífier	Added 1000 1000 <i>Limits</i> 70 - 130 70 - 130 70 - 130 Spike Added 1000	Result           1940           2086           LCSD           Result           1829	Qualifier *+ *+ *+ LCSD Qualifier *+	mg/Kg mg/Kg Unit mg/Kg	D_	%Rec         194         209         mple ID: L	Prep Typ Prep Ba %Rec Limits 70 - 130 70 - 130 70 - 130 ab Control S Prep Typ Prep Ba %Rec Limits 70 - 130	e: To atch: 	le Dur tal/N/ 49712 49712 49712 49712 RPI Limi 20
Matrix: Solid Analysis Batch: 49689 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-4971 Matrix: Solid Analysis Batch: 49689 Analyte Gasoline Range Organics	LCS %Recovery 139 165	<b>Qual</b> S1+	lifier	Added 1000 1000 <i>Limits</i> 70 - 130 70 - 130 Spike Added	Result 1940 2086 LCSD Result	Qualifier *+ *+ *+ LCSD Qualifier *+	mg/Kg mg/Kg Clie	D_	<u>%Rec</u> 194 209 nple ID: L	Prep Typ Prep Ba %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - Prep Ba %Rec Limits	e: To atch:  e: To atch: 	le Dup tal/N/ 49712 49712 49712 49712 RPC Limi 20
Matrix: Solid         Analysis Batch: 49689         Analyte         Gasoline Range Organics         (GRO)-C6-C10         Diesel Range Organics (Over         C10-C28)         Surrogate         1-Chlorooctane         o-Terphenyl         Lab Sample ID: LCSD 880-4971         Matrix: Solid         Analyte         Gasoline Range Organics         (GRO)-C6-C10         Diesel Range Organics         (GRO)-C6-C10         Diesel Range Organics (Over	LCS %Recovery 139 165 12/3-A	Qual S1+ S1+		Added 1000 1000 <i>Limits</i> 70 - 130 70 - 130 70 - 130 Spike Added 1000	Result           1940           2086           LCSD           Result           1829	Qualifier *+ *+ *+ LCSD Qualifier *+	mg/Kg mg/Kg Unit mg/Kg	D_	%Rec         194         209         mple ID: L	Prep Typ Prep Ba %Rec Limits 70 - 130 70 - 130 70 - 130 ab Control S Prep Typ Prep Ba %Rec Limits 70 - 130	e: To atch: 	le Dup tal/NA 49712 49712 49712 RPC Limit 20
Matrix: Solid         Analysis Batch: 49689         Analyte         Gasoline Range Organics         (GRO)-C6-C10         Diesel Range Organics (Over         C10-C28)         Surrogate         1-Chlorooctane         o-Terphenyl         Lab Sample ID: LCSD 880-4971         Matrix: Solid         Analyte         Gasoline Range Organics         (GRO)-C6-C10         Diesel Range Organics         (GRO)-C6-C10         Diesel Range Organics (Over	LCS %Recovery 139 165	Qual S1+ S1+		Added 1000 1000 <i>Limits</i> 70 - 130 70 - 130 70 - 130 Spike Added 1000	Result           1940           2086           LCSD           Result           1829	Qualifier *+ *+ *+ LCSD Qualifier *+	mg/Kg mg/Kg Unit mg/Kg	D_	%Rec         194         209         mple ID: L	Prep Typ Prep Ba %Rec Limits 70 - 130 70 - 130 70 - 130 ab Control S Prep Typ Prep Ba %Rec Limits 70 - 130	e: To atch: 	le Dup

o-Terphenyl

70 - 130

149 S1+

Lab Sample ID: 890-4387-A-7-B MS

Matrix: Solid

(GRO)-C6-C10

Analyte

C10-C28)

Surrogate

o-Terphenyl

1-Chlorooctane

Analysis Batch: 49689

Gasoline Range Organics

Diesel Range Organics (Over

### **QC Sample Results**

MS MS

1168

1219

Result Qualifier

Unit

mg/Kg

mg/Kg

D

Spike

Added

998

998

Limits 70 - 130

70 - 130

Client: Ensolum Project/Site: SC Federal Battery (Maverick)

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

Sample Sample

<49.9 U \*+

<49.9 U\*+

MS MS

135 S1+

%Recovery Qualifier

127

Result Qualifier

			-	
Client		ype: Tot	al/NA	
		Batch:	49712	E
	%Rec			5
%Rec	Limits			
114	70 - 130			
120	70 - 130			7
				8
				9
mple IE	): Matrix Sp			
		ype: Tot Batch:		
	%Rec		RPD	
%Rec	Limits	RPD	Limit	
107	70 - 130	6	20	
118	70 - 130	2	20	13

Lab Sample ID: 890-4387-A-7-0 Matrix: Solid Analysis Batch: 49689	C MSD					CI	lient Sa	ample IC		oike Dup Type: Tot Batch: 4	tal/NA
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *+	999	1099		mg/Kg		107	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	<49.9	U *+	999	1195		mg/Kg		118	70 - 130	2	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	116		70 - 130								
o-Terphenyl	123		70 - 130								

### Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-50009/1-A Matrix: Solid Analysis Batch: 50058									Client S	ample ID: M Prep 1	/lethod Гуре: S	
-	МВ	МВ										
Analyte	Result	Qualifier		RL		Unit		D P	Prepared	Analyze	ed	Dil Fac
Chloride	<5.00	U		5.00		mg/Kg				03/31/23 2	2:43	1
Lab Sample ID: LCS 880-50009/2-A Matrix: Solid Analysis Batch: 50058								Client	t Sample	e ID: Lab Co Prep ⊺	ntrol S Type: S	
Analysis Baton. cocco			Spike		LCS	LCS				%Rec		
Analyte			Added		Result	Qualifier	Unit	D	%Rec	Limits		
Chloride			250		254.8		mg/Kg		102	90 _ 110		
 Lab Sample ID: LCSD 880-50009/3-A							Cli	ent San	nple ID:	Lab Control	Sampl	e Dup
Matrix: Solid										Prep 7	Гуре: S	oluble
Analysis Batch: 50058												
			Spike		LCSD	LCSD				%Rec		RPD
Analyte			Added		Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride			250		249.9		mg/Kg		100	90 _ 110	2	20

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Client: Ensolum Project/Site: SC Federal Battery (Maverick) Job ID: 890-4390-1 SDG: Lea County NM

### Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-4390-1 MS Matrix: Solid									Client Sar Prep	nple ID: Type: S	
Analysis Batch: 50058											
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	4470	F1	1260	5322	F1	mg/Kg		68	90 - 110		
Lab Sample ID: 890-4390-1 MSD									Client Sar	nple ID:	BH01
Matrix: Solid									Prep	Type: S	oluble
Analysis Batch: 50058											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	4470	F1	1260	5345	F1	mg/Kg		70	90 - 110	0	20

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Client: Ensolum Project/Site: SC Federal Battery (Maverick)

### Job ID: 890-4390-1 SDG: Lea County NM

5 6 7

### **GC VOA**

### Prep Batch: 49890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4390-1	BH01	Total/NA	Solid	5035	
890-4390-2	BH01A	Total/NA	Solid	5035	
890-4390-3	BH02	Total/NA	Solid	5035	
890-4390-4	BH02A	Total/NA	Solid	5035	
390-4390-5	BH03	Total/NA	Solid	5035	
890-4390-6	BH03A	Total/NA	Solid	5035	
390-4390-7	BH04	Total/NA	Solid	5035	
890-4390-8	BH04A	Total/NA	Solid	5035	
890-4390-9	BH05	Total/NA	Solid	5035	
390-4390-10	BH05A	Total/NA	Solid	5035	
MB 880-49890/5-A	Method Blank	Total/NA	Solid	5035	
_CS 880-49890/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-49890/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-26267-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
880-26267-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4390-1	BH01	Total/NA	Solid	8021B	49890
890-4390-2	BH01A	Total/NA	Solid	8021B	49890
890-4390-3	BH02	Total/NA	Solid	8021B	49890
890-4390-4	BH02A	Total/NA	Solid	8021B	49890
890-4390-5	BH03	Total/NA	Solid	8021B	49890
890-4390-6	BH03A	Total/NA	Solid	8021B	49890
890-4390-7	BH04	Total/NA	Solid	8021B	49890
890-4390-8	BH04A	Total/NA	Solid	8021B	49890
890-4390-9	BH05	Total/NA	Solid	8021B	49890
890-4390-10	BH05A	Total/NA	Solid	8021B	49890
MB 880-49890/5-A	Method Blank	Total/NA	Solid	8021B	49890
LCS 880-49890/1-A	Lab Control Sample	Total/NA	Solid	8021B	49890
LCSD 880-49890/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	49890
880-26267-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	49890
880-26267-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	49890

### Prep Batch: 50148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4390-1	BH01	Total/NA	Solid	5035	
MB 880-50148/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-50148/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-50148/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-26634-A-3-C MS	Matrix Spike	Total/NA	Solid	5035	
880-26634-A-3-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

#### Analysis Batch: 50265

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-4390-1	BH01	Total/NA	Solid	Total BTEX	
890-4390-2	BH01A	Total/NA	Solid	Total BTEX	
890-4390-3	BH02	Total/NA	Solid	Total BTEX	
890-4390-4	BH02A	Total/NA	Solid	Total BTEX	
890-4390-5	BH03	Total/NA	Solid	Total BTEX	
890-4390-6	BH03A	Total/NA	Solid	Total BTEX	

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### Released to Imaging: 1/10/2024 11:56:33 AM

Client: Ensolum Project/Site: SC Federal Battery (Maverick)

### Analysis Batch: 50265 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4390-7	BH04	Total/NA	Solid	Total BTEX	
890-4390-8	BH04A	Total/NA	Solid	Total BTEX	
890-4390-9	BH05	Total/NA	Solid	Total BTEX	
890-4390-10	BH05A	Total/NA	Solid	Total BTEX	
Analysis Batch: 50286					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4390-1	BH01	Total/NA	Solid	8021B	50148
MB 880-50148/5-A	Method Blank	Total/NA	Solid	8021B	50148
LCS 880-50148/1-A	Lab Control Sample	Total/NA	Solid	8021B	50148
LCSD 880-50148/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	50148
880-26634-A-3-C MS	Matrix Spike	Total/NA	Solid	8021B	50148 🧹
880-26634-A-3-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	50148
GC Semi VOA					1
Analysis Batch: 49689					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4390-1	BH01	Total/NA	Solid	8015B NM	49712
890-4390-2	BH01A	Total/NA	Solid	8015B NM	49712
890-4390-3	BH02	Total/NA	Solid	8015B NM	49712

### GC Semi VOA

### Analysis Batch: 49689

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4390-1	BH01	Total/NA	Solid	8015B NM	49712
890-4390-2	BH01A	Total/NA	Solid	8015B NM	49712
890-4390-3	BH02	Total/NA	Solid	8015B NM	49712
890-4390-4	BH02A	Total/NA	Solid	8015B NM	49712
890-4390-5	BH03	Total/NA	Solid	8015B NM	49712
890-4390-6	BH03A	Total/NA	Solid	8015B NM	49712
890-4390-7	BH04	Total/NA	Solid	8015B NM	49712
890-4390-8	BH04A	Total/NA	Solid	8015B NM	49712
890-4390-9	BH05	Total/NA	Solid	8015B NM	49712
890-4390-10	BH05A	Total/NA	Solid	8015B NM	49712
MB 880-49712/1-A	Method Blank	Total/NA	Solid	8015B NM	49712
LCS 880-49712/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	49712
LCSD 880-49712/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	49712
890-4387-A-7-B MS	Matrix Spike	Total/NA	Solid	8015B NM	49712
890-4387-A-7-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	49712

#### Prep Batch: 49712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4390-1	BH01	Total/NA	Solid	8015NM Prep	
890-4390-2	BH01A	Total/NA	Solid	8015NM Prep	
890-4390-3	BH02	Total/NA	Solid	8015NM Prep	
890-4390-4	BH02A	Total/NA	Solid	8015NM Prep	
890-4390-5	BH03	Total/NA	Solid	8015NM Prep	
890-4390-6	BH03A	Total/NA	Solid	8015NM Prep	
890-4390-7	BH04	Total/NA	Solid	8015NM Prep	
890-4390-8	BH04A	Total/NA	Solid	8015NM Prep	
890-4390-9	BH05	Total/NA	Solid	8015NM Prep	
890-4390-10	BH05A	Total/NA	Solid	8015NM Prep	
MB 880-49712/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-49712/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-49712/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4387-A-7-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4387-A-7-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

SDG: Lea County NM

Job ID: 890-4390-1

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Client: Ensolum Project/Site: SC Federal Battery (Maverick)

### Job ID: 890-4390-1 SDG: Lea County NM

### GC Semi VOA Analysis Batch: 49859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4390-1	BH01	Total/NA	Solid	8015 NM	
890-4390-2	BH01A	Total/NA	Solid	8015 NM	
890-4390-3	BH02	Total/NA	Solid	8015 NM	
890-4390-4	BH02A	Total/NA	Solid	8015 NM	
890-4390-5	BH03	Total/NA	Solid	8015 NM	
890-4390-6	BH03A	Total/NA	Solid	8015 NM	
890-4390-7	BH04	Total/NA	Solid	8015 NM	
890-4390-8	BH04A	Total/NA	Solid	8015 NM	
890-4390-9	BH05	Total/NA	Solid	8015 NM	
890-4390-10	BH05A	Total/NA	Solid	8015 NM	
IPLC/IC each Batch: 50009					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-4390-1	BH01	Soluble	Solid	DI Leach	
890-4390-2	BH01A	Soluble	Solid	DI Leach	
890-4390-3	BH02	Soluble	Solid	DI Leach	
890-4390-4	BH02A	Soluble	Solid	DI Leach	
890-4390-5	BH03	Soluble	Solid	DI Leach	

### HPLC/IC

### Leach Batch: 50009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4390-1	BH01	Soluble	Solid	DI Leach	
890-4390-2	BH01A	Soluble	Solid	DI Leach	
890-4390-3	BH02	Soluble	Solid	DI Leach	
890-4390-4	BH02A	Soluble	Solid	DI Leach	
890-4390-5	BH03	Soluble	Solid	DI Leach	
890-4390-6	BH03A	Soluble	Solid	DI Leach	
890-4390-7	BH04	Soluble	Solid	DI Leach	
890-4390-8	BH04A	Soluble	Solid	DI Leach	
890-4390-9	BH05	Soluble	Solid	DI Leach	
890-4390-10	BH05A	Soluble	Solid	DI Leach	
MB 880-50009/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-50009/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-50009/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4390-1 MS	BH01	Soluble	Solid	DI Leach	
890-4390-1 MSD	BH01	Soluble	Solid	DI Leach	

### Analysis Batch: 50058

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-4390-1	BH01	Soluble	Solid	300.0	50009
890-4390-2	BH01A	Soluble	Solid	300.0	50009
890-4390-3	BH02	Soluble	Solid	300.0	50009
890-4390-4	BH02A	Soluble	Solid	300.0	50009
890-4390-5	BH03	Soluble	Solid	300.0	50009
890-4390-6	BH03A	Soluble	Solid	300.0	50009
890-4390-7	BH04	Soluble	Solid	300.0	50009
890-4390-8	BH04A	Soluble	Solid	300.0	50009
890-4390-9	BH05	Soluble	Solid	300.0	50009
890-4390-10	BH05A	Soluble	Solid	300.0	50009
MB 880-50009/1-A	Method Blank	Soluble	Solid	300.0	50009
LCS 880-50009/2-A	Lab Control Sample	Soluble	Solid	300.0	50009
LCSD 880-50009/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	50009
890-4390-1 MS	BH01	Soluble	Solid	300.0	50009
890-4390-1 MSD	BH01	Soluble	Solid	300.0	50009

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Job ID: 890-4390-1 SDG: Lea County NM

### Lab Sample ID: 890-4390-1 Matrix: Solid

Client Sample ID: BH01 Date Collected: 03/22/23 11:20 Date Received: 03/22/23 15:42

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	49890	03/29/23 16:35	MNR	EET MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	50118	04/03/23 18:42	MNR	EET MID
Total/NA	Prep	5035			5.03 g	5 mL	50148	04/04/23 10:00	MNR	EET MID
Total/NA	Analysis	8021B		500	5 mL	5 mL	50286	04/04/23 13:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50265	04/04/23 10:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			49859	03/29/23 14:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	49712	03/28/23 10:11	AM	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	49689	03/29/23 03:28	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	50009	03/31/23 09:24	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	50058	04/01/23 00:00	SMC	EET MID

### **Client Sample ID: BH01A**

Date Collected: 03/22/23 11:40 Date Received: 03/22/23 15:42

### Lab Sample ID: 890-4390-2

Lab Sample ID: 890-4390-3

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	49890	03/29/23 16:35	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	50118	04/03/23 15:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50265	04/03/23 16:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			49859	03/29/23 14:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	49712	03/28/23 10:11	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49689	03/29/23 05:38	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	50009	03/31/23 09:24	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	50058	04/01/23 00:14	SMC	EET MID

### Client Sample ID: BH02 Date Collected: 03/22/23 12:00 Date Received: 03/22/23 15:42

	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	49890	03/29/23 16:35	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	50118	04/03/23 16:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50265	04/04/23 10:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			49859	03/29/23 14:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49712	03/28/23 10:11	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49689	03/29/23 06:21	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	50009	03/31/23 09:24	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	50058	04/01/23 00:19	SMC	EET MID

Job ID: 890-4390-1 SDG: Lea County NM

### Lab Sample ID: 890-4390-4 Matrix: Solid

Date Collected: 03/22/23 12:20 Date Received: 03/22/23 15:42

**Client Sample ID: BH02A** 

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			4.97 g	5 mL	49890	03/29/23 16:35	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	50118	04/03/23 16:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50265	04/04/23 10:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			49859	03/29/23 14:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	49712	03/28/23 10:11	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49689	03/29/23 04:54	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	50009	03/31/23 09:24	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	50058	04/01/23 00:32	SMC	EET MID

### **Client Sample ID: BH03**

### Date Collected: 03/22/23 12:40

Date Received: 03/22/23 15:42

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	49890	03/29/23 16:35	MNR	EET MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	50118	04/03/23 19:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50265	04/04/23 10:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			49859	03/29/23 14:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	49712	03/28/23 10:11	AM	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	49689	03/29/23 03:50	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	50009	03/31/23 09:24	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	50058	04/01/23 00:37	SMC	EET MID

### **Client Sample ID: BH03A**

### Date Collected: 03/22/23 13:00

### Date Received: 03/22/23 15:42

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	49890	03/29/23 16:35	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	50118	04/03/23 16:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50265	04/04/23 10:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			49859	03/29/23 14:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49712	03/28/23 10:11	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49689	03/29/23 05:16	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	50009	03/31/23 09:24	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	50058	04/01/23 00:41	SMC	EET MID

#### **Client Sample ID: BH04** Date Collected: 03/22/23 13:20 Date Received: 03/22/23 15:42

_	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	49890	03/29/23 16:35	MNR	EET MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	50118	04/03/23 18:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50265	04/04/23 10:18	SM	EET MID

**Eurofins Carlsbad** 

Matrix: Solid

Lab Sample ID: 890-4390-7

Lab Sample ID: 890-4390-5 Matrix: Solid

13	

5 6

9

Lab Sample ID: 890-4390-6

Matrix: Solid

Job ID: 890-4390-1 SDG: Lea County NM

### Lab Sample ID: 890-4390-7 Matrix: Solid

Lab Sample ID: 890-4390-8

Client Sample ID: BH04 Date Collected: 03/22/23 13:20 Date Received: 03/22/23 15:42

Client: Ensolum

	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			49859	03/29/23 14:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	49712	03/28/23 10:11	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49689	03/29/23 04:11	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	50009	03/31/23 09:24	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	50058	04/01/23 00:46	SMC	EET MID

### Client Sample ID: BH04A

#### Date Collected: 03/22/23 13:40 Date Received: 03/22/23 15:42

	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	49890	03/29/23 16:35	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	50118	04/03/23 17:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50265	04/04/23 10:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			49859	03/29/23 14:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	49712	03/28/23 10:11	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49689	03/29/23 06:00	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	50009	03/31/23 09:24	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	50058	04/01/23 00:51	SMC	EET MID

### **Client Sample ID: BH05**

Date Collected: 03/22/23 14:00 Date Received: 03/22/23 15:42

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	49890	03/29/23 16:35	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	50118	04/03/23 17:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50265	04/04/23 10:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			49859	03/29/23 14:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	49712	03/28/23 10:11	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49689	03/29/23 04:33	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	50009	03/31/23 09:24	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	50058	04/01/23 00:55	SMC	EET MID

### **Client Sample ID: BH05A**

#### Date Collected: 03/22/23 14:20 Date Received: 03/22/23 15:42

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	49890	03/29/23 16:35	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	50118	04/03/23 18:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50265	04/04/23 10:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			49859	03/29/23 14:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49712	03/28/23 10:11	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49689	03/29/23 06:44	SM	EET MID

Eurofins Carlsbad

Matrix: Solid

11 12 13

Lab Sample ID: 890-4390-9

Lab Sample ID: 890-4390-10

Matrix: Solid

Matrix: Solid

### Lab Chronicle

Job ID: 890-4390-1 SDG: Lea County NM

### **Client Sample ID: BH05A** Date Collected: 03/22/23 14:20

Date Received: 03/22/23 15:42

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared			
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab	5
Soluble	Leach	DI Leach			4.96 g	50 mL	50009	03/31/23 09:24	KS	EET MID	
Soluble	Analysis	300.0		10	50 mL	50 mL	50058	04/01/23 01:00	SMC	EET MID	

#### Laboratory References:

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

### Lab Sample ID: 890-4390-10 Matrix: Solid

8 9

Eurofins Carlsbad

		Accreditation/C	ertification Summary		
Client: Ensolum Project/Site: SC Federa	al Battery (Maverick)			Job ID: 890-4390-1 SDG: Lea County NM	2
Laboratory: Eurofi					
Unless otherwise noted, all a 	analytes for this laboratory v	vere covered under each acc	reditation/certification below.		
Authority	F	Program	Identification Number	Expiration Date	
Texas	1	NELAP	T104704400-22-25	06-30-23	
The following analytes	are included in this report	out the laboratory is not certif	fied by the governing authority. This list ma	av include analytes for which	5
the agency does not of			led by the governing autionty. This list the		
Analysis Method	Prep Method	Matrix	Analyte		
8015 NM		Solid	Total TPH		
Total BTEX		Solid	Total BTEX		
					8
					9
					10
					13

Eurofins Carlsbad

.

### **Method Summary**

Client: Ensolum Project/Site: SC Federal Battery (Maverick)

Job ID: 890-4390-1 SDG: Lea County NM

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         8015B NM       Diesel Range Organics (DRO) (GC)       SW846       EET MID         800.0       Anions, Ion Chromatography       EPA       EET MID         5035       Closed System Purge and Trap       SW846       EET MID         8015NM Prep       Microextraction       SW846       EET MID         8015NM Prep       Microextraction       SW846       EET MID         8015NM Prep       Microextraction       SW846       EET MID         801Leach       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       EET MID	lethod	Method Description	Protocol	Laboratory
8015 NMDiesel Range Organics (DRO) (GC)SW846EET MID8015B NMDiesel Range Organics (DRO) (GC)SW846EET MID300.0Anions, Ion ChromatographyEPAEET MID5035Closed System Purge and TrapSW846EET MID8015NM PrepMicroextractionSW846EET MIDDI LeachDeionized Water Leaching ProcedureASTMEET MIDProtocol Refereres: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 ProcedureStandard Operating Procedure	021B	Volatile Organic Compounds (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         8015B NM Prep       Microextraction       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:	otal BTEX	Total BTEX Calculation	TAL SOP	EET MID
300.0Anions, Ion ChromatographyEPAEET MID5035Closed System Purge and TrapSW846EET MID8015NM PrepMicroextractionSW846EET MIDDI LeachDeionized Water Leaching ProcedureASTMEET MIDProtocol References:ASTM = ASTM InternationalEPA = US Environmental Protection AgencySW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.TAL SOP = TestAmerica Laboratories, Standard Operating Procedure	015 NM	Diesel Range Organics (DRO) (GC)	SW846	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:       Laboratory References:       Kasta Asta Asta Asta Asta Asta Asta Asta	015B NM	Diesel Range Organics (DRO) (GC)	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:	00.0	Anions, Ion Chromatography	EPA	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:       Laboratory References:       ASTM       EET MID	035	Closed System Purge and Trap	SW846	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:	015NM Prep	Microextraction	SW846	EET MID
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:	01 Leach	Deionized Water Leaching Procedure	ASTM	EET MID
Laboratory References:	EPA = US SW846 =	Environmental Protection Agency 'Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Ed	tion, November 1986 And Its Updates.	
-	TAL SOP	<ul> <li>TestAmerica Laboratories, Standard Operating Procedure</li> </ul>		
EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440	-			
	EET MID :	= Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440		

#### Laboratory References:

Eurofins Carlsbad

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### **Sample Summary**

Solid

Solid

Client: Ensolum Project/Site: SC Federal Battery (Maverick)

BH05

BH05A

Lab Sample ID

890-4390-1

890-4390-2

890-4390-3

890-4390-4

890-4390-5

890-4390-6 890-4390-7

890-4390-8

890-4390-9

890-4390-10

Client Sample ID	Matrix	Collected	Received	Depth
BH01	Solid	03/22/23 11:20	03/22/23 15:42	1'
BH01A	Solid	03/22/23 11:40	03/22/23 15:42	4'
BH02	Solid	03/22/23 12:00	03/22/23 15:42	1'
BH02A	Solid	03/22/23 12:20	03/22/23 15:42	4'
BH03	Solid	03/22/23 12:40	03/22/23 15:42	1'
BH03A	Solid	03/22/23 13:00	03/22/23 15:42	4'
BH04	Solid	03/22/23 13:20	03/22/23 15:42	1'
BH04A	Solid	03/22/23 13:40	03/22/23 15:42	4'

03/22/23 14:00

03/22/23 14:20

03/22/23 15:42

03/22/23 15:42 4'

1'

Page 122 of 166

	5
	8
	9
1	2

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olum, LLC			0	Company Nam		Ensolum,	LLC		Program	: UST/PST 🗌 PRP	Brownfields	RRC Superfund
N Marienfelo	Suite	400	1	Address:		601 N Ma	rienfeld St	Suite 400	State of	Project:		
land, TX 7970	1		0	City, State ZIP		Midland,	FX 79701		Reporting	g: Level II 🗌 Level II	I PST/UST 1	
-683-2503			Email: k	(jennings@e	nsolum.	.com, dn	ikanorov(	@ensolum.com	Deliverat	oles: EDD	ADaPT C 0	Other
C Federal Ba	tterv (May	verick)	Turn	Around			- Cray		QUEST		Pres	Preservative Codes
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Lea Co	inty, NM		)ue Date:			_					Coal: Cool	MeOH: Me
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Yes No		rection Fact	lor:	10.2	Pa	PA: 3					Na2S2O3: NaSO3	NaSO3
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	pject Manager: Kalei Jennings impany Name: Ensolum, LLC dress: 601 N Marienfeld y, State ZIP: Midland, TX 7970 one: 817-683-2503 ject Name: 03D26 ject Name: 03D26 ject Name: 03D26 ject Name: 03D26 ject Name: 03D26 ject Name: 03D26 Dier Custody Seals: Ves No oler Custody Seals: Ves No oler Custody Seals: Ves No oler Custody Seals: Ves No oler Custody Seals: Ves No BH01 BH01 BH01 BH01 BH03 BH02A BH02A BH02A BH03A BH03A BH03A BH03A BH04 BH04 BH05A SH05A SH05A SH05A SH05A SH05A BH05A BH05A BH05A BH05A BH05A BH05A BH05A BH04 BH05A BH	Project Manager:       Kalei Jennings         Company Name:       Ensolum, LLC         Address:       601 N Marienfeld St Suite         City, State ZIP:       Midland, TX 79701         Phone:       817-683-2503         Project Name:       SC Federal Battery (Marenfeld St Suite         Project Name:       03D2057069         Project Location:       Lea County, NM         Samples Received Intact:       Yes No         Ves       No         Sample Custody Seals:       Yes No         BH01       S         BH02       S         BH03A       S         BH04       S         BH05A       S         BH05A	alei Jennings       Isolum, LLC       11 N Marienfeld St Suite 400       12 Other St Suite 400       Idland, TX 79701       17-683-2503       SC Federal Battery (Maverick)       03D2057069       Lea County, NM       Dmitry Nikanorov       Dmitry Nikanorov       Ves No       S 3/22/2023       S 3/22/202	i. Jennings       I         i. Jennings       I         Jum, LLC       Image: Construct of the sector	i.Jennings       Bill to: (if difference         Juum, LLC       Company Nan         N Marienfield St Suite 400       Address:         and, TX 79701       City. State ZIP         683-2503       Email: Kiennings@e         Company Nan       Address:         and, TX 79701       Email: Kiennings@e         Company Nan       City. State ZIP         683-2503       Email: Kiennings@e         Campany Nan       Due Date:         Carpeng Blank:       Yes No         Ves No       NA         Dmitry Nikanorov       TAT starts the day received by 4:30pm         Temp Blank:       Yes No         Ves No       NA         Corrected Temperature       Ves No         Ves No       NA         Themoreature:       X         Yes No       NA         S 3/22/2023       11:20         S 3/22/2023       12:20         S 3/22/2023       13:20         S 3/22/2023       13:20         S 3/22/2023       13:20         Grad       S         S 3/22/2023       13:20         Grad       S         S 3/22/2023       14:20         Gra       Gr	i. Jennings       El. Paso. TX( EL. Paso. TX( EL. Paso. TX( Hobs. NM(5)         Setter (I. Company Name: and, TX 79701       Ell to: (if different) Hobs. NM(5)         Company Name: and, TX 79701       Company Name: Company Name	i.Jennings       Bill to: (I different)       Kalei Jen         Shun, LLC       Company Name:       Ensolum, Kalei Jen         N.Marienfeld St Suite 400       Address:       601 N.Ma         O3D2057069       Email: Kennings@ensolum.com.dn       Address:       601 N.Ma         O3D2057069       Email: Kennings@ensolum.com.dn       Address:       601 N.Ma         Calandia       Turn Around       Free       Rush       Free         O3D2057069       Intern Around       Intern Around       Free       Rush       Rush	I.Jennings     IMiniand 17, (915) 955-343, Lubbo Hobbs, NM (975) 932-7550, Caribbe Hobbs, NM (975) 932-7520, Caribbe Hobbs, NM Hobbs, NM (975) 932-7520, Caribbe Hobbs, NM Hobbs, NM (975) 932-7520, Caribbe Hobbs, NM (975) 932-752	Project Namager     Kallei Jennings     Bit log (a valueven)     Kallei Jennings       Company Name     Ensolum, LLC     Company Name     Ensolum, LLC       Nodress     601 N. Marinefield SI Sulle 400     Company Name     Ensolum, LLC       Nodress     601 N. Marinefield SI Sulle 400     Company Name     Ensolum, LLC       Project Name     SC. Federal Baltery (Maverid)     Tum Avaund     Midan TX 19701       Project Name     SC. Federal Baltery (Maverid)     Tum Avaund     Midan TX 19701       Project Name     SC. Federal Baltery (Maverid)     Tum Avaund     Midan TX 19701       Project Name     SC. Federal Baltery (Maverid)     Tum Avaund     Midan TX 19701       Sample Kaseline Name     SC. Federal Baltery (Maverid)     Tum Avaund     Midan TX 19701       Sample Kaseline Name     Scalar Time     Bandon Tum     Midan TX 29701       Sample Kaseline Instructure     Visit No     Midan TX 2001     Midan TX 2001       Sample Kaseline Instructure     Visit No     Midan TX 2001     Midan TX 2001       Sample Kaseline Instructure     Visit No     Midan TX 2001     Midan TX 2001       BH01A     S 3022023     11:20     Tum     Bit Oi T     S 3022023       BH02A     S 3022023     12:20     12:20     Ensolution II TX X X X     Midan TX X X X       B	Signatu	IN MO NI SE Ag TI U IN MO	www.xenco.com       P         work Order Com       Program: UST/PST    PRP    Brownfield         State of Project:       Reporting: Level II    Level II    Deliverables: EDD    ADaPT            Deliverables:       EDD    ADaPT            In of Custody       ADaPT            In of Custody       ADaPT            In Mo Ni Se Ag TI U       Hg Roll ADAPT            In Mo Ni Se Ag TI U       Hg: 1631/245.         Signature)       Received by: (Signature)

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Chain of Custody

Job Number: 890-4390-1 SDG Number: Lea County NM

List Source: Eurofins Carlsbad

### Login Sample Receipt Checklist

Client: Ensolum

Login Number: 4390 List Number: 1 Creator: Stutzman, Amanda

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

Job Number: 890-4390-1 SDG Number: Lea County NM

List Source: Eurofins Midland

List Creation: 03/24/23 11:08 AM

### Login Sample Receipt Checklist

Client: Ensolum

Login Number: 4390 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	

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

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**Environment Testing** 

# ANALYTICAL REPORT

## PREPARED FOR

Attn: Josh Adams Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701 Generated 4/4/2023 9:58:18 AM

## JOB DESCRIPTION

Maverick SC Federal Battery SDG NUMBER 03D2057069

### **JOB NUMBER**

890-4435-1

RT OR lams olum d St. 400 9701 18 AM

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

See page two for job notes and contact information.

Received by OCD: 9/19/2023 3:34:03 PM

### **Eurofins Carlsbad**

Job Notes

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

### Authorization

RAMER

Generated 4/4/2023 9:58:18 AM

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

Laboratory Job ID: 890-4435-1

SDG: 03D2057069

# **Table of Contents**

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DLC

EDL

LOD

LOQ

MCL

MDA MDC

MDL

MQL

NC

ND

NEG

POS

PQL PRES

QC

RER RL

RPD

TEF

TEQ

TNTC

ML MPN Decision Level Concentration (Radiochemistry)

EPA recommended "Maximum Contaminant Level" Minimum Detectable Activity (Radiochemistry)

Minimum Detectable Concentration (Radiochemistry)

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

Estimated Detection Limit (Dioxin)

Limit of Detection (DoD/DOE)

Method Detection Limit Minimum Level (Dioxin)

Most Probable Number

Not Calculated

Negative / Absent

Positive / Present Practical Quantitation Limit

Presumptive

Quality Control

Method Quantitation Limit

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

Limit of Quantitation (DoD/DOE)

•		0 0	
	Definitions/Glossary		
Client: Ensolur Project/Site: M	n averick SC Federal Battery	Job ID: 890-4435-1 SDG: 03D2057069	
Qualifiers			
GC VOA Qualifier	Qualifier Description		ī
S1+	Surrogate recovery exceeds control limits, high biased.		
U	Indicates the analyte was analyzed for but not detected.		
GC Semi VOA Qualifier	Qualifier Description		ī
S1+	Surrogate recovery exceeds control limits, high biased.		
U	Indicates the analyte was analyzed for but not detected.		
HPLC/IC Qualifier	Qualifier Description		i
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		1
DL	Detection Limit (DoD/DOE)		

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### Job ID: 890-4435-1 SDG: 03D2057069

### Job ID: 890-4435-1

#### Laboratory: Eurofins Carlsbad

#### Narrative

Job Narrative 890-4435-1

#### Receipt

The samples were received on 3/29/2023 3:02 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.7°C

#### GC VOA

Method 8021B: The following samples were diluted due to the nature of the sample matrix: FS09 (890-4435-1) and FS10 (890-4435-2). Elevated reporting limits (RLs) are provided.

Method 8021B: Surrogate recovery for the following samples were outside control limits: FS09 (890-4435-1) and FS10 (890-4435-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

#### GC Semi VOA

Method 8015MOD\_NM: The surrogate recovery for the blank associated with preparation batch 880-50047 and analytical batch 880-50077 was outside the upper control limits.

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

#### HPLC/IC

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

Project/Site: Maverick SC Federal Battery

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

Result Qualifier

<0.0398 U

0.0872

0.225

0.513

0.254

0.767

%Recovery Qualifier

### **Client Sample Results**

RL

0.0398

0.0398

0.0398

0.0797

0.0398

0.0797

Limits

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

D

Prepared

04/03/23 12:22

04/03/23 12:22

04/03/23 12:22

04/03/23 12:22

04/03/23 12:22

04/03/23 12:22

Prepared

Job ID: 890-4435-1 SDG: 03D2057069

### Client Sample ID: FS09

Date Collected: 03/28/23 14:00 Date Received: 03/29/23 15:02

Sample Depth: 0.5

Client: Ensolum

Analyte

Benzene

Toluene

o-Xylene

Surrogate

Ethylbenzene

Xylenes, Total

m-Xylene & p-Xylene

Lab Sample ID: 890-4435-1

Analyzed

04/04/23 00:43

04/04/23 00:43

04/04/23 00:43

04/04/23 00:43

04/04/23 00:43

04/04/23 00:43

Analyzed

Matrix: Solid

Dil Fac

20

20

20

20

20

20

Dil Fac

11 12 13

	,,							
4-Bromofluorobenzene (Surr)	172	S1+	70 - 130			04/03/23 12:22	04/04/23 00:43	20
1,4-Difluorobenzene (Surr)	101		70 - 130			04/03/23 12:22	04/04/23 00:43	20
Method: TAL SOP Total BTEX - To	otal BTEX Cal	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	1.08		0.0797	mg/Kg			04/04/23 10:41	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (	GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	813		49.8	mg/Kg			04/03/23 14:32	1
- Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		03/31/23 14:31	04/01/23 17:05	1
Diesel Range Organics (Over C10-C28)	704		49.8	mg/Kg		03/31/23 14:31	04/01/23 17:05	1
Oll Range Organics (Over C28-C36)	109		49.8	mg/Kg		03/31/23 14:31	04/01/23 17:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130			03/31/23 14:31	04/01/23 17:05	1
o-Terphenyl	114		70 - 130			03/31/23 14:31	04/01/23 17:05	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	ohy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3790		25.2	mg/Kg			03/31/23 15:30	5
Client Sample ID: FS10						Lab Sar	nple ID: 890-	4435-2
Date Collected: 03/28/23 14:15							Matri	ix: Solid
Date Received: 03/29/23 15:02								
Sample Depth: 0.5								
_								

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0402	U	0.0402	mg/Kg		04/03/23 12:22	04/04/23 01:04	20
Toluene	<0.0402	U	0.0402	mg/Kg		04/03/23 12:22	04/04/23 01:04	20
Ethylbenzene	<0.0402	U	0.0402	mg/Kg		04/03/23 12:22	04/04/23 01:04	20
m-Xylene & p-Xylene	<0.0805	U	0.0805	mg/Kg		04/03/23 12:22	04/04/23 01:04	20
o-Xylene	2.64		0.0402	mg/Kg		04/03/23 12:22	04/04/23 01:04	20
Xylenes, Total	2.64		0.0805	mg/Kg		04/03/23 12:22	04/04/23 01:04	20

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4/4/2023

Client: Ensolum

3 4 5

### **Client Sample Results**

Job ID: 890-4435-1

Client: Ensolum Project/Site: Maverick SC Federa	l Battery						Job ID: 890 SDG: 03D2	
lient Sample ID: FS10						Lab San	nple ID: 890-	4435-
ate Collected: 03/28/23 14:15							Matri	x: Soli
te Received: 03/29/23 15:02								
ample Depth: 0.5								
	~~ <b>-</b>							
Surrogate	%Recovery	Qualifier S1+	Limits			Prepared	Analyzed	Dil F
-Bromofluorobenzene (Surr) ,4-Difluorobenzene (Surr)	101	57+	70 <sub>-</sub> 130 70 <sub>-</sub> 130			04/03/23 12:22 04/03/23 12:22	04/04/23 01:04 04/04/23 01:04	
	104		70 - 130			04/03/23 12.22	04/04/23 01.04	
lethod: TAL SOP Total BTEX -	- Total BTEX Cal	culation						
nalyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil F
otal BTEX	2.64		0.0805	mg/Kg			04/04/23 10:41	
lethod: SW846 8015 NM - Dies	sel Range Organ	ics (DRO) (	GC)					
nalyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil F
otal TPH	430		50.0	mg/Kg			04/03/23 14:32	
lethod: SW846 8015B NM - Di	osol Pango Orga	nice (DPO)						
nalyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil F
asoline Range Organics	<50.0		50.0	mg/Kg		03/31/23 14:31	04/01/23 17:26	
GRO)-C6-C10				5 5				
iesel Range Organics (Over 10-C28)	374		50.0	mg/Kg		03/31/23 14:31	04/01/23 17:26	
Il Range Organics (Over 28-C36)	55.8		50.0	mg/Kg		03/31/23 14:31	04/01/23 17:26	
·	% Deceivery	Qualifiar	Limita			Dwamawad	Analyzad	
urrogate Chlorooctane	%Recovery 	Qualifier				Prepared 03/31/23 14:31	Analyzed 04/01/23 17:26	Dil I
Terphenyl	105		70 - 130 70 - 130			03/31/23 14:31	04/01/23 17:26	
reiphenyi	121		10 - 150			03/31/23 14.31	04/01/23 11.20	
lethod: EPA 300.0 - Anions, Ic	on Chromatograp	ohy - Solubl	le					
nalyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil F
hloride	3520		25.0	mg/Kg			03/31/23 15:44	
ent Sample ID: SW01						Lab Sar	nple ID: 890-	4435
e Collected: 03/28/23 11:45							-	x: So
te Received: 03/29/23 15:02								
mple Depth: 0 - 3								
lethod: SW846 8021B - Volatil	le Organic Comp	ounds (GC	)					
nalyte	· ·	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil I
enzene	<0.00200	U	0.00200	mg/Kg		04/03/23 12:22	04/03/23 23:21	
luene	<0.00200	U	0.00200	mg/Kg		04/03/23 12:22	04/03/23 23:21	
hylbenzene	<0.00200	U	0.00200	mg/Kg		04/03/23 12:22	04/03/23 23:21	
-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		04/03/23 12:22	04/03/23 23:21	
Xylene	<0.00200	U	0.00200	mg/Kg		04/03/23 12:22	04/03/23 23:21	
/lenes, Total	<0.00401	U	0.00401	mg/Kg		04/03/23 12:22	04/03/23 23:21	
irrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil
Bromofluorobenzene (Surr)			70 - 130			04/03/23 12:22	04/03/23 23:21	
4-Difluorobenzene (Surr)	89		70 - 130			04/03/23 12:22	04/03/23 23:21	
lethod: TAL SOP Total BTEX -	Total BTEX Cal	culation						
viethou. TAL SOF Total BTEX -		Qualifier	PI	Unit		Prepared	Analyzod	

wethod: TAL SUP Total BTEX - Tota	al DIEX Calc	ulation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			04/04/23 10:41	1

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.

### **Client Sample Results**

Job ID: 890-4435-1 SDG: 03D2057069

Matrix: Solid

5

Lab Sample ID: 890-4435-3

### **Client Sample ID: SW01**

Date Collected: 03/28/23 11:45 Date Received: 03/29/23 15:02

S

Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (	GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			04/03/23 14:32	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	<49.9	U	49.9	mg/Kg		03/31/23 14:31	04/01/23 18:31	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		03/31/23 14:31	04/01/23 18:31	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/31/23 14:31	04/01/23 18:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130			03/31/23 14:31	04/01/23 18:31	1
o-Terphenyl	117		70 - 130			03/31/23 14:31	04/01/23 18:31	1

Method: EPA 300.0 - Anions, Ion C	nromatograpny - Soluble	9					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	165	5.00	mg/Kg			03/31/23 15:48	1

### Client Sample ID: SW02

Date Collected: 03/28/23 14:30 Date Received: 03/29/23 15:02 Sample Depth: 0 - 3

Lab Sample ID: 890-4435-4 Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		04/03/23 12:22	04/03/23 23:42	1
Toluene	<0.00198	U	0.00198	mg/Kg		04/03/23 12:22	04/03/23 23:42	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		04/03/23 12:22	04/03/23 23:42	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		04/03/23 12:22	04/03/23 23:42	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		04/03/23 12:22	04/03/23 23:42	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		04/03/23 12:22	04/03/23 23:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130			04/03/23 12:22	04/03/23 23:42	1
1,4-Difluorobenzene (Surr)	93		70 - 130			04/03/23 12:22	04/03/23 23:42	1

Method: TAL SOP Total BTEX - To	tal BTEX Calo	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			04/04/23 10:41	1
Method: SW846 8015 NM - Diesel	Range Organ	ics (DRO) (O	SC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			04/03/23 14:32	1
- Method: SW846 8015B NM - Diese Analyte	• •	nics (DRO) Qualifier	(GC) RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		03/31/23 14:31	04/01/23 18:52	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		03/31/23 14:31	04/01/23 18:52	1
Oll Range Organics (Over C28-C36)	<49.8		49.8	mg/Kg		03/31/23 14:31	04/01/23 18:52	4

Eurofins Carlsbad

Client: Ensolum Project/Site: Maverick SC Federal Battery

Client: Ensolum

3 4 5

### **Client Sample Results**

Job ID: 890-4435-1 SDG: 03D2057069

lient Sample ID: SW02						l ah San	nple ID: 890-	4435-/
ate Collected: 03/28/23 14:30							-	ix: Solic
ate Received: 03/29/23 15:02							Wath	A. Solid
ample Depth: 0 - 3								
ample Depth. 0 - 3								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	100		70 - 130			03/31/23 14:31	04/01/23 18:52	
o-Terphenyl	116		70 - 130			03/31/23 14:31	04/01/23 18:52	
Method: EPA 300.0 - Anions, Ion	Chromatograp	hv - Solub	le					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	61.2		5.00	mg/Kg			03/31/23 15:53	
lient Sample ID: SW03						Lab Sar	nple ID: 890-	4435-5
ate Collected: 03/28/23 14:45							Matri	ix: Solic
ate Received: 03/29/23 15:02								
ample Depth: 0 - 3								
Method: SW846 8021B - Volatile (	Organic Comp	ounds (GC	)					
Analyte		Qualifier	, RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199	mg/Kg		04/03/23 12:22	04/04/23 00:02	
Toluene	<0.00199	U	0.00199	mg/Kg		04/03/23 12:22	04/04/23 00:02	
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/03/23 12:22	04/04/23 00:02	
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/03/23 12:22	04/04/23 00:02	
o-Xylene	<0.00199	U	0.00199	mg/Kg		04/03/23 12:22	04/04/23 00:02	
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/03/23 12:22	04/04/23 00:02	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	109		70 - 130			04/03/23 12:22	04/04/23 00:02	
1,4-Difluorobenzene (Surr)	85		70 - 130			04/03/23 12:22	04/04/23 00:02	
Method: TAL SOP Total BTEX - To	otal BTEX Cal	sulation						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00398	-	0.00398	mg/Kg			04/04/23 10:41	
Method: SW846 8015 NM - Diesel Analyte		ICS (DRO) ( Qualifier	GC) RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<49.9		49.9	mg/Kg			04/03/23 14:32	
Method: CW04C 004ED NM Dise								
Method: SW846 8015B NM - Dies Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics	<49.9		49.9	mg/Kg		03/31/23 14:31	04/01/23 19:14	,
(GRO)-C6-C10								
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		03/31/23 14:31	04/01/23 19:14	
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/31/23 14:31	04/01/23 19:14	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	99		70 - 130			03/31/23 14:31	04/01/23 19:14	
o-Terphenyl	112		70 - 130			03/31/23 14:31	04/01/23 19:14	
Method: EPA 300.0 - Anions, Ion	Chromatogran	hy - Solub	le					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
			4.97					

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Project/Site: Maverick SC Federal Battery

Job ID: 890-4435-1 SDG: 03D2057069

Matrix: Solid

5

Lab Sample ID: 890-4435-6

### Client Sample ID: SW04

Date Collected: 03/28/23 13:00 Date Received: 03/29/23 15:02

Sample Depth: 0 - 2

Client: Ensolum

Chloride

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

	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		04/03/23 12:22	04/04/23 00:23	1
Toluene	<0.00199	U	0.00199	mg/Kg		04/03/23 12:22	04/04/23 00:23	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/03/23 12:22	04/04/23 00:23	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/03/23 12:22	04/04/23 00:23	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		04/03/23 12:22	04/04/23 00:23	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/03/23 12:22	04/04/23 00:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			04/03/23 12:22	04/04/23 00:23	1
1,4-Difluorobenzene (Surr)	82		70 - 130			04/03/23 12:22	04/04/23 00:23	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			04/04/23 10:41	1
Method: SW846 8015 NM - Diese								
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	
, maij to							Analyzeo	DILFac
Total TPH	<49.8	U	49.8			riepareu	Analyzed 04/03/23 14:32	Dil Fac
Total TPH	<49.8	U		mg/Kg				
			49.8					
: Method: SW846 8015B NM - Dies	sel Range Orga		49.8		<u>b</u> 	Prepared		
Method: SW846 8015B NM - Dies Analyte	sel Range Orga	nics (DRO) Qualifier	49.8 (GC)	mg/Kg		<u> </u>	04/03/23 14:32	1
Method: SW846 8015B NM - Dies Analyte	sel Range Orga Result	nics (DRO) Qualifier	49.8 (GC) RL 49.8	mg/Kg Unit		Prepared 03/31/23 14:31	04/03/23 14:32 Analyzed 04/01/23 19:35	1 Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	sel Range Orga Result	nics (DRO) Qualifier U	49.8 (GC) RL	mg/Kg Unit		Prepared	04/03/23 14:32 Analyzed	1 Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	sel Range Orga Result <49.8	unics (DRO) Qualifier U	49.8 (GC) RL 49.8 49.8	mg/Kg Unit mg/Kg mg/Kg		<b>Prepared</b> 03/31/23 14:31 03/31/23 14:31	04/03/23 14:32 Analyzed 04/01/23 19:35 04/01/23 19:35	1 Dil Fac 1 1
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	sel Range Orga Result <49.8	unics (DRO) Qualifier U	49.8 (GC) RL 49.8	mg/Kg Unit mg/Kg		Prepared 03/31/23 14:31	04/03/23 14:32 Analyzed 04/01/23 19:35	1 Dil Fac 1
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	sel Range Orga Result <49.8	unics (DRO) Qualifier U U U	49.8 (GC) RL 49.8 49.8	mg/Kg Unit mg/Kg mg/Kg		<b>Prepared</b> 03/31/23 14:31 03/31/23 14:31	04/03/23 14:32 Analyzed 04/01/23 19:35 04/01/23 19:35	1 Dil Fac 1 1
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 	unics (DRO) Qualifier U U U	49.8 (GC) <u>RL</u> 49.8 49.8 49.8	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/31/23 14:31 03/31/23 14:31 03/31/23 14:31	O4/03/23         14:32           Analyzed         04/01/23         19:35           04/01/23         19:35         04/01/23         19:35	1 <u>Dil Fac</u> 1 1 1
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	sel Range Orga <u>Result</u> <49.8 <49.8 <49.8 <8 <49.8 <49.8 <49.8	unics (DRO) Qualifier U U U	49.8 (GC) <u>RL</u> 49.8 49.8 49.8 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/31/23 14:31 03/31/23 14:31 03/31/23 14:31 03/31/23 14:31 Prepared	04/03/23 14:32 Analyzed 04/01/23 19:35 04/01/23 19:35 04/01/23 19:35 Analyzed	1 Dil Fac 1 1 1 Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	sel Range Orga Result <49.8 <49.8 <49.8 <49.8 %Recovery 100 117	Qualifier U U Qualifier	49.8 (GC) <u>RL</u> 49.8 49.8 49.8 <u>Limits</u> 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/31/23 14:31 03/31/23 14:31 03/31/23 14:31 Prepared 03/31/23 14:31	O4/03/23         14:32           Analyzed         04/01/23         19:35           04/01/23         19:35         04/01/23         19:35           04/01/23         19:35         04/01/23         19:35	1 Dil Fac 1 1 1 1 <i>Dil Fac</i> 1

mg/Kg

4.96

558

03/31/23 16:11

1

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

-			
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-4435-1	FS09	172 S1+	101
890-4435-2	FS10	161 S1+	104
890-4435-3	SW01	110	89
890-4435-4	SW02	98	93
890-4435-5	SW03	109	85
890-4435-6	SW04	111	82
890-4448-A-1-E MS	Matrix Spike	117	112
890-4448-A-1-F MSD	Matrix Spike Duplicate	114	112
LCS 880-50190/1-A	Lab Control Sample	111	103
LCSD 880-50190/2-A	Lab Control Sample Dup	106	107
MB 880-50130/5-A	Method Blank	77	97
MB 880-50190/5-A	Method Blank	80	96
Surrogate Legend			
BFB = 4-Bromofluorobe	nzene (Surr)		
DFBZ = 1,4-Difluoroben:	zene (Surr)		

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

Matrix: Solid

		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-26511-A-1-B MS	Matrix Spike	112	115
880-26511-A-1-C MSD	Matrix Spike Duplicate	108	112
890-4435-1	FS09	106	114
890-4435-2	FS10	105	121
890-4435-3	SW01	100	117
890-4435-4	SW02	100	116
890-4435-5	SW03	99	112
890-4435-6	SW04	100	117
LCS 880-50047/2-A	Lab Control Sample	109	127
LCSD 880-50047/3-A	Lab Control Sample Dup	111	129
MB 880-50047/1-A	Method Blank	140 S1+	165 S1+

#### Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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Job ID: 890-4435-1 SDG: 03D2057069

Prep Type: Total/NA

Prep Type: Total/NA

Lab Sample ID: MB 880-50130/ Matrix: Solid	5-A								Client Sa	mple ID: Met Prep Type		
Analysis Batch: 50119										Prep Ba	tch:	50130
Analista	MB		Ы		11			D.,	a wa wa d	A make mad		
Analyte Benzene	Result <0.00199		<b>RL</b> 0.00199		Unit		<u>D</u>		epared	Analyzed 04/03/23 11:0	<u> </u>	Dil Fac
Toluene					mg/K	-			3/23 08:39			1
	<0.00199 <0.00199		0.00199 0.00199		mg/K	-			3/23 08:39 3/23 08:39	04/03/23 11:0		
Ethylbenzene					mg/K					04/03/23 11:0		
m-Xylene & p-Xylene	< 0.00398		0.00398		mg/K	-			3/23 08:39	04/03/23 11:0		1
o-Xylene	<0.00199		0.00199		mg/K	-			3/23 08:39	04/03/23 11:0		
Xylenes, Total	<0.00398	U	0.00398		mg/K	g		04/03	3/23 08:39	04/03/23 11:0	1	-
	MB	МВ										
Surrogate	%Recovery	Qualifier	Limits					Pr	epared	Analyzed		Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130					04/03	3/23 08:39	04/03/23 11:0	1	1
1,4-Difluorobenzene (Surr)	97		70 - 130					04/03	3/23 08:39	04/03/23 11:0	1	1
- Lob Somple ID: MB 890 50100/									Client Se	male ID: Met	had	Blank
Lab Sample ID: MB 880-50190/ Matrix: Solid	J-A								chefit Sa	Imple ID: Met Prep Type		
Analysis Batch: 50119	МВ	МВ								Prep Ba	icn.	50150
Analyte	Result		RL		Unit		D	Dr	oparod	Analyzod		Dil Fac
Benzene	<0.00200		0.00200		mg/K		_		epared 3/23 12:22	Analyzed 04/03/23 21:3		
Toluene	<0.00200		0.00200		mg/K	-			3/23 12:22	04/03/23 21:3		1
Ethylbenzene	<0.00200		0.00200		mg/K mg/K	-			3/23 12:22	04/03/23 21:3		1
			0.00200						3/23 12:22	04/03/23 21:3		· · · · · 1
m-Xylene & p-Xylene	<0.00400				mg/K							1
o-Xylene	<0.00200		0.00200		mg/K	-			3/23 12:22	04/03/23 21:3		
Xylenes, Total	<0.00400	U	0.00400		mg/K	g		04/03	3/23 12:22	04/03/23 21:3	5	1
	MB	МВ										
Surrogate	%Recovery	Qualifier	Limits					-	epared	Analyzed		Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130					04/03	3/23 12:22	04/03/23 21:3	8	1
1,4-Difluorobenzene (Surr)	96		70 - 130					04/03	3/23 12:22	04/03/23 21:3	8	1
Lab Sample ID: LCS 880-50190	)/1-A						С	lient	Sample	ID: Lab Conti	ol S	ample
Matrix: Solid									eanipie .	Prep Type		
Analysis Batch: 50119										Prep Ba		
			Spike	LCS	LCS					%Rec		
Analyte			Added		Qualifier	Unit		D	%Rec	Limits		
Benzene			0.100	0.1000		mg/Kg			100	70 - 130		
Toluene			0.100	0.09798		mg/Kg			98	70 - 130		
Ethylbenzene			0.100	0.09773		mg/Kg			98	70 - 130		
m-Xylene & p-Xylene			0.200	0.2101		mg/Kg			105	70 - 130		
o-Xylene			0.200	0.2101		mg/Kg			103	70 - 130 70 - 130		
0-Xylene			0.100	0.1071		mg/itg			107	70 - 100		
	LCS LCS											
Surrogate	%Recovery Qua	lifier	Limits									
4-Bromofluorobenzene (Surr)	111		70 - 130									
1,4-Difluorobenzene (Surr)	103		70 - 130									
- Lab Sample ID: LCSD 880-5019	90/2-A					Cli	ent	Sam	ple ID: La	ab Control Sa	mnl	e Dur
Matrix: Solid								can		Prep Type		
Analysis Batch: 50119										Prep Ba		
Analysis Daten. 30113			Spike		LCSD					%Rec		RPE
Analyte			Added		Qualifier	Unit		D	%Rec		RPD	Limi
Benzene			0.100	0 1016	auuiiici	ma/Ka			102	70 130		24

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Job ID: 890-4435-1 SDG: 03D2057069

*Released to Imaging: 1/10/2024 11:56:33 AM* Page 12 of 26

0.100

0.1016

mg/Kg

102

70 - 130

Benzene

2

35

Client: Ensolum Project/Site: Maverick SC Federal Battery Job ID: 890-4435-1 SDG: 03D2057069

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

Lab Sample ID: LCSD 880-5	0190/2-A					Clier	nt Sam	iple ID: I	Lab Contro	I Sample	e Dup
Matrix: Solid									Prep T	Type: Tot	tal/N/
Analysis Batch: 50119									Prep	Batch:	50190
			Spike	LCSD	LCSD				%Rec		RPI
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limi
Toluene			0.100	0.09788		mg/Kg		98	70 - 130	0	3
Ethylbenzene			0.100	0.09718		mg/Kg		97	70 - 130	1	3
m-Xylene & p-Xylene			0.200	0.2084		mg/Kg		104	70 - 130	1	3
o-Xylene			0.100	0.1061		mg/Kg		106	70 - 130	1	3
	LCSD	LCSD									
Surrogate	%Recovery		Limits								
4-Bromofluorobenzene (Surr)			70 - 130								
1,4-Difluorobenzene (Surr)	107		70 - 130								
Lab Sample ID: 890-4448-A-	1-E MS							Client	Sample ID	: Matrix	Spik
Matrix: Solid									Prep T	Type: Tot	tal/N
Analysis Batch: 50119									Prep	Batch:	5019
-	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	<0.00202	U	0.100	0.1082		mg/Kg		108	70 - 130		
Toluene	<0.00202	U	0.100	0.1041		mg/Kg		104	70 - 130		
Ethylbenzene	<0.00202	U	0.100	0.1051		mg/Kg		105	70 - 130		
m-Xylene & p-Xylene	<0.00403	U	0.201	0.2241		mg/Kg		112	70 - 130		
o-Xylene	<0.00202	U	0.100	0.1131		mg/Kg		113	70 - 130		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	117		70 - 130								
1,4-Difluorobenzene (Surr)	112		70 - 130								
Lab Sample ID: 890-4448-A-	1-F MSD					CI	ient Sa	ample IC	): Matrix Sp		
Matrix: Solid									Prep T	Type: Tot	tal/N/
Analysis Batch: 50119									Prep	Batch:	5019
	Sample	Sample	Spike	MSD	MSD				%Rec		RP
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limi
Benzene	<0.00202	U	0.0990	0.09507		mg/Kg		96	70 - 130	13	3
Toluene	<0.00202		0.0990	0.08885		mg/Kg		90	70 - 130	16	3
Ethylbenzene	<0.00202	U	0.0990	0.08914		mg/Kg		90	70 - 130	16	3
m-Xylene & p-Xylene	<0.00403	U	0.198	0.1888		mg/Kg		95	70 - 130	17	3
o-Xylene	<0.00202	U	0.0990	0.09566		mg/Kg		97	70 - 130	17	3
		MSD									

Method: 8015B NM - Dies	el Range Organics	(DRO) (GC)
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr)	114 112	70 - 130 70 - 130

Surrogate

%Recovery Qualifier

#### Lab Sample ID: MB 880-50047/1-A **Client Sample ID: Method Blank** Matrix: Solid Prep Type: Total/NA Analysis Batch: 50077 Prep Batch: 50047 MB MB Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Gasoline Range Organics <50.0 U 50.0 mg/Kg 03/31/23 14:31 04/01/23 08:55 1 (GRO)-C6-C10

Limits

Eurofins Carlsbad

Client: Ensolum Project/Site: Maverick SC Federal Battery

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

Aatrix: Solid	1-A										ample ID: Prep	Type: To	
Analysis Batch: 50077												Batch:	
marysis Batch. 50077		мві	мр								Fiel	Datch.	5004
naluto	Ba		Qualifier	R		Uni		D	Б	roparod	Analy	Tod	Dil Fa
nalyte iesel Range Organics (Over		50.0 U		50		011 mg/		<u> </u>		repared 1/23 14:31			DIIFa
10-C28)		50.0	0	50	0	ing/	Ny		03/3	1/23 14.31	04/01/23	00.00	
III Range Organics (Over C28-C36)	<	50.0 l	U	50	0	mg/	Kg		03/3	1/23 14:31	04/01/23	08:55	
						0	0						
			MB										
urrogate	%Reco	<u> </u>	Qualifier	Limits	_					repared	Analy		Dil Fa
-Chlorooctane			S1+	70 - 130						1/23 14:31			
-Terphenyl		165 3	S1+	70 - 130					03/3	1/23 14:31	1 04/01/23	08:55	
ab Sample ID: LCS 880-50047/	12-1							C	iont	Sample	ID: Lab C	ontrol S	amnl
Aatrix: Solid	- <b>A</b>							0	iem	Jampie		Type: To	
Analysis Batch: 50077												Batch:	
maryoro Datori. 00011				Spike	LCS	LCS					%Rec	- Datoil.	0004
nalyte				Added	Result		Unit		D	%Rec	Limits		
asoline Range Organics				1000	996.6	quamer	mg/Kg		_	100	70 - 130		
GRO)-C6-C10					000.0								
iesel Range Organics (Over				1000	826.0		mg/Kg			83	70 - 130		
10-C28)													
	LCS	105											
	200	200											
urrogate	%Recovery	Qualif	fier	l imits									
urrogate	%Recovery 109	Qualif	fier	Limits 70 - 130									
-Chlorooctane	%Recovery 109 127	Qualif	fier	Limits 70 - 130 70 - 130									
	109	Qualif	fier	70 - 130									
-Chlorooctane	109 127	Qualif	fier	70 - 130			CI	ient	Sam	iple ID: I	Lab Contro	ol Samp	le Du
-Chlorooctane -Terphenyl	109 127	Qualif	fier	70 - 130			CI	ient	Sam	nple ID: I		ol Samp Type: To	
-Chlorooctane -Terphenyl .ab Sample ID: LCSD 880-5004	109 127	Qualif	fier	70 - 130			CI	ient	Sam	iple ID: I	Prep		otal/N
-Chlorooctane -Terphenyl .ab Sample ID: LCSD 880-5004 Aatrix: Solid	109 127	Qualit	fier	70 - 130	LCSD	LCSD	CI	ient	Sam	ıple ID: I	Prep	Type: To	otal/N. 5004
-Chlorooctane -Terphenyl .ab Sample ID: LCSD 880-5004 Aatrix: Solid	109 127	Qualif	fier	70 - 130 70 - 130		LCSD Qualifier	CI	ient	Sam D	n <mark>ple ID: I</mark> %Rec	Prep Prep	Type: To	otal/N 5004 RP
-Chlorooctane -Terphenyl .ab Sample ID: LCSD 880-5004 Matrix: Solid Analysis Batch: 50077	109 127	Qualif	fier	70 - 130 70 - 130 <b>Spike</b>				ient		-	Prep Prep %Rec	Type: To b Batch:	5004 RP
-Chlorooctane -Terphenyl .ab Sample ID: LCSD 880-5004 Matrix: Solid Analysis Batch: 50077 	109 127	Qualif	fier	70 - 130 70 - 130 <b>Spike</b> Added	<b>Result</b> 978.9		<mark>Unit</mark> mg/Kg	ient :		<b>%Rec</b> 98	Prep Prep %Rec Limits 70 - 130	Type: To b Batch: RPD 2	<b>5004</b> <b>RP</b> <u>Lim</u> 2
-Chlorooctane -Terphenyl .ab Sample ID: LCSD 880-5004 Matrix: Solid Analysis Batch: 50077 malyte masoline Range Organics GRO)-C6-C10 iesel Range Organics (Over	109 127	Qualif	fier	70 - 130 70 - 130 Spike Added	Result		Unit	ient :		%Rec	Prep Prep %Rec Limits	Type: To b Batch: 	5004 RP
-Chlorooctane -Terphenyl .ab Sample ID: LCSD 880-5004 Matrix: Solid Analysis Batch: 50077 	109 127	Qualif	fier	70 - 130 70 - 130 <b>Spike</b> Added	<b>Result</b> 978.9		<mark>Unit</mark> mg/Kg	ient		<b>%Rec</b> 98	Prep Prep %Rec Limits 70 - 130	Type: To b Batch: RPD 2	<b>5004</b> <b>RP</b> <u>Lim</u> 2
-Chlorooctane -Terphenyl .ab Sample ID: LCSD 880-5004 Matrix: Solid Analysis Batch: 50077 malyte masoline Range Organics GRO)-C6-C10 iesel Range Organics (Over	109 127			70 - 130 70 - 130 <b>Spike</b> Added	<b>Result</b> 978.9		<mark>Unit</mark> mg/Kg	ient :		<b>%Rec</b> 98	Prep Prep %Rec Limits 70 - 130	Type: To b Batch: RPD 2	<b>5004</b> 8004 80 <u>Lim</u> 2
-Chlorooctane -Terphenyl .ab Sample ID: LCSD 880-5004 Matrix: Solid Analysis Batch: 50077 malyte masoline Range Organics GRO)-C6-C10 iesel Range Organics (Over	109 127 17/3-A	LCSD		70 - 130 70 - 130 <b>Spike</b> Added	<b>Result</b> 978.9		<mark>Unit</mark> mg/Kg	ient :		<b>%Rec</b> 98	Prep Prep %Rec Limits 70 - 130	Type: To b Batch: RPD 2	<b>5004</b> <b>RP</b> <u>Lim</u> 2
-Chlorooctane -Terphenyl ab Sample ID: LCSD 880-5004 Matrix: Solid Analysis Batch: 50077 malyte Basoline Range Organics GRO)-C6-C10 Hiesel Range Organics (Over H0-C28)	109 127 17/3-A	LCSD		70 - 130 70 - 130 <b>Spike</b> Added 1000	<b>Result</b> 978.9		<mark>Unit</mark> mg/Kg	ient :		<b>%Rec</b> 98	Prep Prep %Rec Limits 70 - 130	Type: To b Batch: RPD 2	<b>5004</b> <b>RP</b> <u>Lim</u> 2
-Chlorooctane -Terphenyl ab Sample ID: LCSD 880-5004 Matrix: Solid Malysis Batch: 50077 malyte Basoline Range Organics GRO)-C6-C10 liesel Range Organics (Over 10-C28) urrogate	109 127 7/3-A <i>LCSD</i> %Recovery	LCSD		70 - 130 70 - 130 Spike Added 1000 1000	<b>Result</b> 978.9		<mark>Unit</mark> mg/Kg	ient :		<b>%Rec</b> 98	Prep Prep %Rec Limits 70 - 130	Type: To b Batch: RPD 2	<b>5004</b> <b>RP</b> <u>Lim</u> 2
-Chlorooctane -Terphenyl ab Sample ID: LCSD 880-5004 Matrix: Solid Malysis Batch: 50077 malyte Basoline Range Organics GRO)-C6-C10 liesel Range Organics (Over 10-C28) urrogate -Chlorooctane -Terphenyl	109 127 7/3-A <i>LCSD</i> %Recovery 111 129	LCSD		70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130	<b>Result</b> 978.9		<mark>Unit</mark> mg/Kg	ient :		%Rec 98 82	Prep %Rec Limits 70 - 130 70 - 130	Type: To Batch: <u>RPD</u> 2 1	20141/N
Chlorooctane -Terphenyl Lab Sample ID: LCSD 880-5004 Matrix: Solid Malysis Batch: 50077 malyte Harder Sange Organics GRO)-C6-C10 Hiesel Range Organics (Over HO-C28) Murrogate -Chlorooctane -Terphenyl Lab Sample ID: 880-26511-A-1-1	109 127 7/3-A <i>LCSD</i> %Recovery 111 129	LCSD		70 - 130 70 - 130 <b>Spike</b> Added 1000 1000 Limits 70 - 130	<b>Result</b> 978.9		<mark>Unit</mark> mg/Kg	ient :		%Rec 98 82	Prep %Rec Limits 70 - 130 70 - 130	Type: To Batch: RPD 2 1	5004 8P <u>Lim</u> 2 2
-Chlorooctane -Terphenyl .ab Sample ID: LCSD 880-5004 Matrix: Solid Malysis Batch: 50077 malyte iasoline Range Organics GRO)-C6-C10 iesel Range Organics (Over 10-C28) urrogate -Chlorooctane -Terphenyl .ab Sample ID: 880-26511-A-1-I Matrix: Solid	109 127 7/3-A <i>LCSD</i> %Recovery 111 129	LCSD		70 - 130 70 - 130 <b>Spike</b> Added 1000 1000 Limits 70 - 130	<b>Result</b> 978.9		<mark>Unit</mark> mg/Kg	ient :		%Rec 98 82	Prep %Rec Limits 70 - 130 70 - 130 Sample IC Prep	Type: To Batch:	stal/N. 5004 RP Lim 2 2 2 2 3
Chlorooctane -Terphenyl Lab Sample ID: LCSD 880-5004 Matrix: Solid Malysis Batch: 50077 malyte Harder Sange Organics GRO)-C6-C10 Hiesel Range Organics (Over HO-C28) Murrogate -Chlorooctane -Terphenyl Lab Sample ID: 880-26511-A-1-1	109 127 7/3-A <i>LCSD</i> %Recovery 111 129	LCSD		70 - 130 70 - 130 <b>Spike</b> Added 1000 1000 Limits 70 - 130	<b>Result</b> 978.9		<mark>Unit</mark> mg/Kg	ient :		%Rec 98 82	Prep %Rec Limits 70 - 130 70 - 130 Sample IC Prep	Type: To Batch: RPD 2 1	stal/N. 5004 RP Lim 2 2 2 2 2
-Chlorooctane -Terphenyl .ab Sample ID: LCSD 880-5004 Matrix: Solid Malysis Batch: 50077 malyte iasoline Range Organics GRO)-C6-C10 iesel Range Organics (Over 10-C28) urrogate -Chlorooctane -Terphenyl .ab Sample ID: 880-26511-A-1-I Matrix: Solid	109 127 7/3-A <i>LCSD</i> %Recovery 111 129	LCSD Qualif	fier	70 - 130 70 - 130 <b>Spike</b> Added 1000 1000 Limits 70 - 130	Result 978.9 820.9		<mark>Unit</mark> mg/Kg	ient :		%Rec 98 82	Prep %Rec Limits 70 - 130 70 - 130 Sample IC Prep	Type: To Batch:	stal/N. 5004 RP Lim 2 2 2 2 3
-Chlorooctane -Terphenyl .ab Sample ID: LCSD 880-5004 Matrix: Solid Malysis Batch: 50077 malyte iasoline Range Organics GRO)-C6-C10 iesel Range Organics (Over 10-C28) urrogate -Chlorooctane -Terphenyl .ab Sample ID: 880-26511-A-1-I Matrix: Solid	109 127 7/3-A <i>KCSD</i> <i>Recovery</i> 111 129 B MS Sample Result	LCSD Qualif Qualif	fier	70 - 130 70 - 130 <b>Spike</b> Added 1000 1000 1000 70 - 130 70 - 130	Result 978.9 820.9	Qualifier	<mark>Unit</mark> mg/Kg	ient :		%Rec 98 82	Prep %Rec Limits 70 - 130 70 - 130 70 - 130	Type: To Batch:	stal/N. 5004 RP Lim 2 2 2 2 3
-Chlorooctane -Terphenyl .ab Sample ID: LCSD 880-5004 Matrix: Solid Analysis Batch: 50077 malyte Gasoline Range Organics GRO)-C6-C10 tiesel Range Organics (Over 10-C28) wrrogate -Chlorooctane -Terphenyl .ab Sample ID: 880-26511-A-1-I Matrix: Solid Analysis Batch: 50077 malyte Gasoline Range Organics	109 127 7/3-A <i>KCSD</i> <i>Recovery</i> 111 129 B MS Sample	LCSD Qualif Qualif	fier	70 - 130 70 - 130 <b>Spike</b> Added 1000 1000 <i>Limits</i> 70 - 130 70 - 130 70 - 130	Result 978.9 820.9 820.9	Qualifier	<mark>Unit</mark> mg/Kg mg/Kg	ient :	<u>D</u>	%Rec 98 82 Client	Prep %Rec Limits 70 - 130 70 - 130 70 - 130 Sample IC Prep %Rec	Type: To Batch:	stal/N. 5004 RP Lim 2 2 2 2 3
-Chlorooctane -Terphenyl .ab Sample ID: LCSD 880-5004 Matrix: Solid Analysis Batch: 50077 malyte Gasoline Range Organics GRO)-C6-C10 tiesel Range Organics (Over 10-C28) wrrogate -Chlorooctane -Terphenyl .ab Sample ID: 880-26511-A-1-I Matrix: Solid Analysis Batch: 50077 malyte	109 127 7/3-A <i>KCSD</i> <i>Recovery</i> 111 129 B MS Sample Result	LCSD Qualif Qualif	fier	70 - 130 70 - 130 70 - 130 Spike Added 1000 1000 1000 1000 50 - 130 70 - 130 70 - 130 70 - 130	Result 978.9 820.9 820.9 MS Result	Qualifier	Unit	ient :	<u>D</u>	%Rec 98 82 Client	Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 Sample IC Prep %Rec Limits	Type: To Batch:	stal/N. 5004 RP Lim 2 2 2 2 3

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

Job ID: 890-4435-1 SDG: 03D2057069

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Client: Ensolum Project/Site: Maverick SC Federal Battery

### Job ID: 890-4435-1 SDG: 03D2057069

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

Matrix: Solid	1-C MSD						client	Sample	D: Matrix S		
										Type: To	
Analysis Batch: 50077	0	0	0		MOD					p Batch:	
Awalada	Sample	•	Spike		MSD	11		0/ D	%Rec		RPD
Analyte	· · · · · · · · · · · · · · · · · · ·	Qualifier	Added		Qualifier	Unit	[		Limits	RPD	Limi
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	1068		mg/Kg		104	70 - 130	2	2
Diesel Range Organics (Over	<49.9	U	997	1224		mg/Kg		121	70 - 130	3	2
C10-C28)	1010	0							10 - 100		-
,											
<b>-</b> <i>i</i>	MSD										
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	108		70 <u>-</u> 130								
o-Terphenyl	112		70 - 130								
ethod: 300.0 - Anions, Io	on Chromat	ography									
Lab Sample ID: MB 880-5004 Matrix: Solid	5/1-A							Client	Sample ID:		
									Fieb	o Type: S	Juni
Analysis Batch: 50050		MB MB									
Analyte	D	esult Qualifier		RL	Unit		D	Prepared	Analy	/70d	Dil Fa
Chloride				5.00	mg/K		<u> </u>	Frepareu			DIF
Shionde		0.00 0		5.00	iiig/itg	9			00/01/20	5 15.10	
Lab Sample ID: LCS 880-5004	45/2-A						Clie	nt Samp	le ID: Lab C	Control S	ampl
										Type: S	
Matrix: Solid										J IVDE. 3	
									Trop	, iype. S	orubi
			Spike	LCS	LCS				%Rec	, iype. o	olubi
Analysis Batch: 50050			Spike Added		LCS Qualifier	Unit	[	) %Rec		rype. o	orub
Analysis Batch: 50050 Analyte						Unit mg/Kg	[	0 %Rec 96	%Rec		
Analysis Batch: 50050 Analyte			Added	Result			<u>[</u>		%Rec Limits		
Analysis Batch: 50050 Analyte Chloride	045/3-A		Added	Result		mg/Kg		96	%Rec Limits		
Analysis Batch: 50050 Analyte Chloride Lab Sample ID: LCSD 880-50	045/3-A		Added	Result		mg/Kg		96	%Rec Limits 90 - 110		e Du
Analysis Batch: 50050 Analyte Chloride Lab Sample ID: LCSD 880-50 Matrix: Solid	045/3-A		Added	Result		mg/Kg		96	%Rec Limits 90 - 110	ol Sampl	e Du
Analysis Batch: 50050 Analyte Chloride Lab Sample ID: LCSD 880-50 Matrix: Solid	045/3-A		Added	Result 241.0		mg/Kg		96	%Rec Limits 90 - 110	ol Sampl	le Du olubi
Analysis Batch: 50050 Analyte Chloride Lab Sample ID: LCSD 880-50 Matrix: Solid Analysis Batch: 50050	045/3-A		Added 250	Result 241.0 LCSD	Qualifier	mg/Kg		96 Imple ID	%Rec Limits 90 - 110 Lab Contro Prep	ol Sampl	le Du olubi RP
Analysis Batch: 50050 Analyte Chloride Lab Sample ID: LCSD 880-50 Matrix: Solid Analysis Batch: 50050 Analyte	045/3-A		Added 250 Spike	Result 241.0 LCSD	Qualifier	mg/Kg	ent Sa	96 Imple ID	%Rec Limits 90 - 110 Lab Contro Prep %Rec	ol Sampl	le Du olubl RP Lim
Analysis Batch: 50050 Analyte Chloride Lab Sample ID: LCSD 880-50 Matrix: Solid Analysis Batch: 50050 Analyte Chloride			Added 250 Spike Added	Result 241.0 LCSD Result	Qualifier	mg/Kg Cli	ent Sa	96 mple ID %Rec	%Rec           Limits           90 - 110           Lab Contro           Prep           %Rec           Limits           90 - 110	ol Sampl o Type: S 	le Du olubl RP Lim 2
Analysis Batch: 50050 Analyte Chloride Lab Sample ID: LCSD 880-500 Matrix: Solid Analysis Batch: 50050 Analyte Chloride Lab Sample ID: 890-4435-1 M			Added 250 Spike Added	Result 241.0 LCSD Result	Qualifier	mg/Kg Cli	ent Sa	96 mple ID %Rec	%Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Client Sa	ol Sampl o Type: S <u>RPD</u> 1 ample ID	le Du olubl RP Lim 2 : FS0
Analysis Batch: 50050 Analyte Chloride Lab Sample ID: LCSD 880-500 Matrix: Solid Analysis Batch: 50050 Analyte Chloride Lab Sample ID: 890-4435-1 M Matrix: Solid			Added 250 Spike Added	Result 241.0 LCSD Result	Qualifier	mg/Kg Cli	ent Sa	96 mple ID %Rec	%Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Client Sa	ol Sampl o Type: S 	le Du olubl RP Lim 2 : FS0
Analysis Batch: 50050 Analyte Chloride Lab Sample ID: LCSD 880-500 Matrix: Solid Analysis Batch: 50050 Analyte Chloride Lab Sample ID: 890-4435-1 M Matrix: Solid	 IS		Added 250 Spike Added 250	Result 241.0 LCSD Result 237.8	Qualifier LCSD Qualifier	mg/Kg Cli	ent Sa	96 mple ID %Rec	%Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Client Sa Prep	ol Sampl o Type: S <u>RPD</u> 1 ample ID	le Du olubl RP Lim 2 : FS0
Analysis Batch: 50050 Analyte Chloride Lab Sample ID: LCSD 880-500 Matrix: Solid Analysis Batch: 50050 Analyte Chloride Lab Sample ID: 890-4435-1 M Matrix: Solid			Added 250 Spike Added	Result 241.0 LCSD Result 237.8	Qualifier	mg/Kg Cli	ent Sa	96 mple ID %Rec	%Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Client Sa	ol Sampl o Type: S <u>RPD</u> 1 ample ID	le Du olubi RP Lim 2 : FS0
Analysis Batch: 50050 Analyte Chloride Lab Sample ID: LCSD 880-50 Matrix: Solid Analysis Batch: 50050 Analyte Chloride Lab Sample ID: 890-4435-1 M Matrix: Solid Analysis Batch: 50050 Analyte	IS Sample Result	Sample Qualifier	Added 250 Spike Added 250 Spike Added	Result 241.0 LCSD Result 237.8 MS Result	Qualifier LCSD Qualifier	Unit Unit Unit	ent Sa	96 96 97 97 97 95 95 95 95	%Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Client Sa Prep %Rec Limits	ol Sampl o Type: S <u>RPD</u> 1 ample ID	le Du olubl RP Lim 2 : FS0
Analysis Batch: 50050 Analyte Chloride Lab Sample ID: LCSD 880-50 Matrix: Solid Analysis Batch: 50050 Analyte Chloride Lab Sample ID: 890-4435-1 M Matrix: Solid Analysis Batch: 50050 Analyte	Sample	•	Added 250 Spike Added 250 Spike	Result 241.0 LCSD Result 237.8	Qualifier LCSD Qualifier MS	Unit mg/Kg	ent Sa	96 96 97 96 96 95	%Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Client Sa Prep %Rec	ol Sampl o Type: S <u>RPD</u> 1 ample ID	le Du olubl RP Lim 2 : FS0
Analysis Batch: 50050 Analyte Chloride Lab Sample ID: LCSD 880-500 Matrix: Solid Analysis Batch: 50050 Analyte Chloride Lab Sample ID: 890-4435-1 M Matrix: Solid Analysis Batch: 50050 Analyte Chloride	S Sample Result 3790	•	Added 250 Spike Added 250 Spike Added	Result 241.0 LCSD Result 237.8 MS Result	Qualifier LCSD Qualifier MS	Unit Unit Unit	ent Sa	96 96 97 97 97 95 95 95 95	%Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Client Sa Prep %Rec Limits 90 - 110	ol Sampl o Type: S <u>RPD</u> 1 ample ID o Type: S	le Du olubi RP Lim 2 : FS0 olubi
Analysis Batch: 50050 Analyte Chloride Lab Sample ID: LCSD 880-500 Matrix: Solid Analysis Batch: 50050 Analyte Chloride Lab Sample ID: 890-4435-1 M Matrix: Solid Analysis Batch: 50050 Analyte Chloride Lab Sample ID: 890-4435-1 M	S Sample Result 3790	•	Added 250 Spike Added 250 Spike Added	Result 241.0 LCSD Result 237.8 MS Result	Qualifier LCSD Qualifier MS	Unit Unit Unit	ent Sa	96 96 97 97 97 95 95 95 95	%Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Client Sa 90 - 110 Client Sa	ol Sampl D Type: S mple ID D Type: S	le Du olubi RPP Lim 2 : FS0 olubi
Analysis Batch: 50050 Analyte Chloride Lab Sample ID: LCSD 880-500 Matrix: Solid Analysis Batch: 50050 Analyte Chloride Lab Sample ID: 890-4435-1 M Matrix: Solid Analyte Chloride Lab Sample ID: 890-4435-1 M Matrix: Solid	S Sample Result 3790	•	Added 250 Spike Added 250 Spike Added	Result 241.0 LCSD Result 237.8 MS Result	Qualifier LCSD Qualifier MS	Unit Unit Unit	ent Sa	96 96 97 97 97 95 95 95 95	%Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Client Sa 90 - 110 Client Sa	ol Sampl o Type: S <u>RPD</u> 1 ample ID o Type: S	le Du olubi RP Lim 2 : FS0 olubi
Analysis Batch: 50050 Analyte Chloride Lab Sample ID: LCSD 880-500 Matrix: Solid Analysis Batch: 50050 Analyte Chloride Lab Sample ID: 890-4435-1 M Matrix: Solid Analyte Chloride Lab Sample ID: 890-4435-1 M Matrix: Solid	IS Sample Result 3790	Qualifier	Added 250 Spike Added 250 Spike Added 1260	Result 241.0 LCSD Result 237.8 MS Result 5074	Qualifier LCSD Qualifier MS Qualifier	Unit Unit Unit	ent Sa	96 96 97 97 97 95 95 95 95	%Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Client Sa Prep %Rec Limits 90 - 110 Client Sa Prep	ol Sampl D Type: S mple ID D Type: S	le Du olubl RP Lim 2 : FS0 olubl
Matrix: Solid Analysis Batch: 50050 Analyte Chloride Lab Sample ID: LCSD 880-500 Matrix: Solid Analysis Batch: 50050 Analyte Chloride Lab Sample ID: 890-4435-1 M Matrix: Solid Analysis Batch: 50050 Analyte Chloride Lab Sample ID: 890-4435-1 M Matrix: Solid Analysis Batch: 50050 Analyte	IS Sample Result 3790 ISD Sample	Qualifier	Added 250 Spike Added 250 Spike Added	Result 241.0 LCSD Result 237.8 MS Result 5074	Qualifier LCSD Qualifier MS	Unit Unit Unit	ent Sa	96 97 97 97 97 97 97 97 97 97 97	%Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Client Sa 90 - 110 Client Sa	ol Sampl D Type: S mple ID D Type: S	le Du olubi RP Lim 2 : FS0 olubi

Client: Ensolum Project/Site: Maverick SC Federal Battery

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### **GC VOA**

### Analysis Batch: 50119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4435-1	FS09	Total/NA	Solid	8021B	50190
890-4435-2	FS10	Total/NA	Solid	8021B	50190
890-4435-3	SW01	Total/NA	Solid	8021B	50190
890-4435-4	SW02	Total/NA	Solid	8021B	50190
890-4435-5	SW03	Total/NA	Solid	8021B	50190
890-4435-6	SW04	Total/NA	Solid	8021B	50190
MB 880-50130/5-A	Method Blank	Total/NA	Solid	8021B	50130
MB 880-50190/5-A	Method Blank	Total/NA	Solid	8021B	50190
LCS 880-50190/1-A	Lab Control Sample	Total/NA	Solid	8021B	50190
LCSD 880-50190/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	50190
890-4448-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	50190
890-4448-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	50190
rep Batch: 50130					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-50130/5-A	Method Blank	Total/NA	Solid	5035	
Prep Batch: 50190					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
800-1135-1	ES09	Total/NA	Solid	5035	

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Ргер Батсп
890-4435-1	FS09	Total/NA	Solid	5035	
890-4435-2	FS10	Total/NA	Solid	5035	
890-4435-3	SW01	Total/NA	Solid	5035	
890-4435-4	SW02	Total/NA	Solid	5035	
890-4435-5	SW03	Total/NA	Solid	5035	
890-4435-6	SW04	Total/NA	Solid	5035	
MB 880-50190/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-50190/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-50190/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4448-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
890-4448-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

#### Analysis Batch: 50308

e	Sample ID	Prep Type Matrix	Method	Prep Batch
		Total/NA Solid	Total BTEX	
		Total/NA Solid	Total BTEX	
		Total/NA Solid	Total BTEX	
		Total/NA Solid	Total BTEX	
		Total/NA Solid	Total BTEX	
		Total/NA Solid	Total BTEX	

### GC Semi VOA

### Prep Batch: 50047

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-4435-1	FS09	Total/NA	Solid	8015NM Prep	
890-4435-2	FS10	Total/NA	Solid	8015NM Prep	
890-4435-3	SW01	Total/NA	Solid	8015NM Prep	
890-4435-4	SW02	Total/NA	Solid	8015NM Prep	
890-4435-5	SW03	Total/NA	Solid	8015NM Prep	
890-4435-6	SW04	Total/NA	Solid	8015NM Prep	
MB 880-50047/1-A	Method Blank	Total/NA	Solid	8015NM Prep	

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### GC Semi VOA (Continued)

### Prep Batch: 50047 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-50047/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-50047/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-26511-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-26511-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	
Analysis Batch: 50077					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-4435-1	FS09	Total/NA	Solid	8015B NM	50047
890-4435-2	FS10	Total/NA	Solid	8015B NM	50047
890-4435-3	SW01	Total/NA	Solid	8015B NM	50047
890-4435-4	SW02	Total/NA	Solid	8015B NM	50047
890-4435-5	SW03	Total/NA	Solid	8015B NM	50047
890-4435-6	SW04	Total/NA	Solid	8015B NM	50047
MB 880-50047/1-A	Method Blank	Total/NA	Solid	8015B NM	50047
LCS 880-50047/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	50047

Total/NA

Total/NA

Total/NA

Prep Type

Solid

Solid

Solid

Matrix

8015B NM

8015B NM

8015B NM

Method

Analysis Batch: 5021	1	
Lab Sample ID	Client Sample ID	
890-4435-1	FS09	

Matrix Spike

Lab Control Sample Dup

Matrix Spike Duplicate

890-4435-1	FS09	Total/NA	Solid	8015 NM
890-4435-2	FS10	Total/NA	Solid	8015 NM
890-4435-3	SW01	Total/NA	Solid	8015 NM
890-4435-4	SW02	Total/NA	Solid	8015 NM
890-4435-5	SW03	Total/NA	Solid	8015 NM
890-4435-6	SW04	Total/NA	Solid	8015 NM

### HPLC/IC

#### Leach Batch: 50045

LCSD 880-50047/3-A

880-26511-A-1-B MS

880-26511-A-1-C MSD

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4435-1	FS09	Soluble	Solid	DI Leach	
890-4435-2	FS10	Soluble	Solid	DI Leach	
890-4435-3	SW01	Soluble	Solid	DI Leach	
890-4435-4	SW02	Soluble	Solid	DI Leach	
890-4435-5	SW03	Soluble	Solid	DI Leach	
890-4435-6	SW04	Soluble	Solid	DI Leach	
MB 880-50045/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-50045/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-50045/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4435-1 MS	FS09	Soluble	Solid	DI Leach	
890-4435-1 MSD	FS09	Soluble	Solid	DI Leach	

#### Analysis Batch: 50050

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-4435-1	FS09	Soluble	Solid	300.0	50045
890-4435-2	FS10	Soluble	Solid	300.0	50045
890-4435-3	SW01	Soluble	Solid	300.0	50045
890-4435-4	SW02	Soluble	Solid	300.0	50045
890-4435-5	SW03	Soluble	Solid	300.0	50045

50047

50047

50047

Prep Batch

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Job ID: 890-4435-1

SDG: 03D2057069

Client: Ensolum Project/Site: Maverick SC Federal Battery

### HPLC/IC (Continued)

### Analysis Batch: 50050 (Continued)

alysis Batch: 50050	(Continued)				
ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
90-4435-6	SW04	Soluble	Solid	300.0	50045
3 880-50045/1-A	Method Blank	Soluble	Solid	300.0	50045
S 880-50045/2-A	Lab Control Sample	Soluble	Solid	300.0	50045
SD 880-50045/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	50045
0-4435-1 MS	FS09	Soluble	Solid	300.0	50045
0-4435-1 MSD	FS09	Soluble	Solid	300.0	50045

Page 143 of 166

Job ID: 890-4435-1 SDG: 03D2057069 Project/Site: Maverick SC Federal Battery

Batch

Туре

Prep

Analysis

Analysis

Analysis

Analysis

Analysis

Leach

Prep

Batch

Method

5035

8021B

Total BTEX

8015NM Prep

8015B NM

DI Leach

300.0

8015 NM

**Client Sample ID: FS09** 

Date Collected: 03/28/23 14:00

Date Received: 03/29/23 15:02

Client: Ensolum

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Soluble

Soluble

Initial

Amount

5.02 g

5 mL

10.04 g

1 uL

4.97 g

50 mL

Final

Amount

5 mL

5 mL

10 mL

1 uL

50 mL

50 mL

Batch

50190

50119

50308

50211

50047

50077

50045

50050

Number

Dil

20

1

1

1

5

Factor

Run

Job ID: 890-4435-1 SDG: 03D2057069

### Lab Sample ID: 890-4435-1

Analyst

MNR

MNR

AJ

SM

A.I

SM

ĸs

SMC

Lab Sample ID: 890-4435-2

Lab Sample ID: 890-4435-3

Lab Sample ID: 890-4435-4

Prepared

or Analyzed

04/03/23 12:22

04/04/23 00:43

04/04/23 10:41

04/03/23 14:32

03/31/23 14:31

04/01/23 17:05

03/31/23 14:06

03/31/23 15:30

Matrix: Solid

Lab

EET MID

Matrix: Solid

Matrix: Solid

#### Client Sample ID: FS10 Date Collected: 03/28/23 14:15

Date Received: 03/29/23 15:02

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	50190	04/03/23 12:22	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	50119	04/04/23 01:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50308	04/04/23 10:41	AJ	EET MID
Total/NA	Analysis	8015 NM		1			50211	04/03/23 14:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	50047	03/31/23 14:31	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50077	04/01/23 17:26	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	50045	03/31/23 14:06	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	50050	03/31/23 15:44	SMC	EET MID

### Client Sample ID: SW01

### Date Collected: 03/28/23 11:45

Date Received: 03/29/23 15:02

	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	50190	04/03/23 12:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50119	04/03/23 23:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50308	04/04/23 10:41	AJ	EET MID
Total/NA	Analysis	8015 NM		1			50211	04/03/23 14:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	50047	03/31/23 14:31	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50077	04/01/23 18:31	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	50045	03/31/23 14:06	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50050	03/31/23 15:48	SMC	EET MID

### Client Sample ID: SW02 Date Collected: 03/28/23 14:30 Date Received: 03/29/23 15:02

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	50190	04/03/23 12:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50119	04/03/23 23:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50308	04/04/23 10:41	AJ	EET MID

Eurofins Carlsbad

Matrix: Solid

14:30 15:02
Project/Site: Maverick SC Federal Battery

Job ID: 890-4435-1 SDG: 03D2057069

# Lab Sample ID: 890-4435-4

Lab Sample ID: 890-4435-5

Date Collected: 03/28/23 14:30 Date Received: 03/29/23 15:02

**Client Sample ID: SW02** 

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			50211	04/03/23 14:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	50047	03/31/23 14:31	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50077	04/01/23 18:52	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	50045	03/31/23 14:06	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50050	03/31/23 15:53	SMC	EET MID

## **Client Sample ID: SW03**

#### Date Collected: 03/28/23 14:45 Date Received: 03/29/23 15:02

	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	50190	04/03/23 12:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50119	04/04/23 00:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50308	04/04/23 10:41	AJ	EET MID
Total/NA	Analysis	8015 NM		1			50211	04/03/23 14:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	50047	03/31/23 14:31	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50077	04/01/23 19:14	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	50045	03/31/23 14:06	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50050	03/31/23 15:57	SMC	EET MID

#### **Client Sample ID: SW04**

Date Collected: 03/28/23 13:00 Date Received: 03/29/23 15:02

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 50190 04/03/23 12 Total/NA 8021B 5 mL 5 mL 50119 04/04/23 00 Analysis 1 Total/NA Total BTEX Analysis 1 50308 04/04/23 10:41 AJ EET MID Total/NA Analysis 8015 NM 50211 04/03/23 14:32 SM EET MID 1 50047 Total/NA Prep 8015NM Prep 10.04 g 10 mL 03/31/23 14:31 AJ EET MID Total/NA Analysis 8015B NM 1 uL 1 uL 50077 04/01/23 19:35 SM EET MID 1 Soluble Leach DI Leach 5.04 g 50 mL 50045 03/31/23 14:06 KS EET MID Soluble Analysis 300.0 50 mL 50 mL 50050 03/31/23 16:11 SMC EET MID 1

#### Laboratory References:

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

Matrix: Solid

Matrix: Solid

# 9

# Lab Sample ID: 890-4435-6

Matrix: Solid

2:22	MNR	EET MID	
0:23	MNR	EET MID	

		Accreditation/Co	ertification Summary	
Client: Ensolum Project/Site: Maverick \$	SC Federal Battery			Job ID: 890-4435-1 SDG: 03D2057069
Laboratory: Eurofi				3
Unless otherwise noted, all a	inalytes for this laborator	y were covered under each acc	reditation/certification below.	
Authority		Program	Identification Number	Expiration Date 4
Texas		NELAP	T104704400-22-25	06-30-23
The following analytes	are included in this repor	t, but the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for which
the agency does not of				6
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	
Total BTEX		Solid	Total BTEX	
				8
				9
				10
				1:
				14

Eurofins Carlsbad

.

## **Method Summary**

Client: Ensolum Project/Site: Maverick SC Federal Battery Job ID: 890-4435-1 SDG: 03D2057069

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 Refe	rences:		
ASTM = A	STM International		
EPA = US	Environmental Protection Agency		
SW846 =	"Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Ed	ition, November 1986 And Its Updates.	
TAL SOP	= TestAmerica Laboratories, Standard Operating Procedure		
Laboratory R	eferences:		
EET MID :	= Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440		

Eurofins Carlsbad

Released to Imaging: 1/10/2024 11:56:33 AM

Client: Ensolum Project/Site: Maverick SC Federal Battery Job ID: 890-4435-1 SDG: 03D2057069

b Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
0-4435-1	FS09	Solid	03/28/23 14:00	03/29/23 15:02	0.5	
0-4435-2	FS10	Solid	03/28/23 14:15	03/29/23 15:02	0.5	
0-4435-3	SW01	Solid	03/28/23 11:45	03/29/23 15:02	0 - 3	
0-4435-4	SW02	Solid	03/28/23 14:30	03/29/23 15:02	0 - 3	
0-4435-5	SW03	Solid	03/28/23 14:45	03/29/23 15:02	0 - 3	
0-4435-6	SW04	Solid	03/28/23 13:00	03/29/23 15:02	0 - 2	
						j
						j
						j
						. 1

Revised Date: 08/25/2020 Rev. 2020.2	Ö									
	> 4							+0		π ω
	2	150	3/20/23	ef 1	S.P.	La.	Mard	Z		1 O I
gnature) Received by: (Signature) Date/Time	Relinquished by: (Signature)	Date/Time	D		Signature)	Received by: (Signature)	Rec	ure)	y: (Signat	Relinquished by: (Signature)
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 \$8 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	urred by the client if such losses inco, but not analyzed. These ter	ses or expenses inc nitted to Eurofins Xe	or any los mple subr	esponsibility t \$5 for each sa	t assume any i nd a charge of	es and shall no each project ar	ost of sample e applied to c	ble only for the c je of \$85.00 will b	co will be lia nimum charg	of service. Eurofins Xen of Eurofins Xenco. A mir
It assigns standard terms and c	o, its affiliates and subcontractor	ny to Eurofins Xenco	ant compa	order from cli	alid purchase	constitutes a v	it of samples	nd relinquishmer	document a	Notice: Signature of this
Se Ag TIU Ho	Cr Co Cu Pb Mn	Sb As Ba Be Cd	1	010: 8RC	TCLP / SPLP 6010: 8RCRA	TCL	lyzed	(s) to be ana	ind Metal	Circle Method(s) and Metal(s) to be analyzed
Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr TI Sn U V Zn	Cd Ca Cr Co Cu Fe F	As Ba Be B C	AI Sb /	Texas 11	13PPM T	8RCRA		200.8 / 6020:		Total 200.7 / 6010
		× × ×	<u></u>	Comp	00 0-2'	023 13:00	3/28/2023	S	04	SW04
		× × ×	<u> </u>	Comp	45 0-3'		3/28/2023	S	03	SM03
		× × ×	<u> </u>	Comp	30 0-3'	023 14:30	3/28/2023	S	02	SW02
		× × ×		Comp	45 0-3'	023 11:45	3/28/2023	s	01	SW01
		X X X		Comp	15 0.5'	023 14:15	3/28/2023	S	0	FS10
		× × ×		Comp	00 0.5'	023 14:00	3/28/2023	s	9(	FS09
Sample Comments		TPH (8 BTEX (	Cont of	Grab/ Comp	ie Depth	ed Sampled	x Date Sampled	Matrix	uffication	Sample Identification
NaOH+Ascorbic Acid: SAPC		015)		K X		Corrected Temperature	Correcte			Total Containers:
Zn Acetate+NaOH: Zn			s (E)		9	Temperature Reading:		es No (N/A	als: Yes	Sample Custody Seals
Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>	·····		9. C.	<i>b</i> Ó		on Factor:	Correction Factor	Yes No NIA		Cooler Custody Seals:
NaHSO4: NABIS				100-1	Tom	neter ID:	Thermometer ID:	(res No	ntact: (	Samples Received Intact:
H <sub>3</sub> PO <sub>4</sub> ; HP			nete	Res No		No Wet loe:	(Ver 1	Temp Blank:		SAMPLE RECEIPT
			rs	y 4:30pm	the lab, if received by 4:30pm	the lat				PO#
				eceived by	he da	TAT st	Iorov	Dmitry Nikanorov		Sampler's Name:
Cool: Cool MeOH: Me				24 hour		Due Date:	, NM	Lea County, NM		Project Location:
None: NO DI Water: H <sub>2</sub> O			Pres. Code	✓ Rush	l	Routine	69	03D2057069		Project Number:
REQUEST Preservative Codes	ANALYSIS R				Turn Around	Y	ral Batter	Maverick SC Federal Battery	Mave	Project Name:
Deliverables: EDD ADaPT Other:	kjennings@ensolum.com, dnikanorov@ensolum.com	om, dnikanorov(	olum.cc	iings@ens	Email: kjenr			-2503	817-683-2503	Phone
Reporting: Level III Level III PST/UST TRRP Level IV		Midland, TX 79701	Mic	City, State ZIP:	City, 3			Midland, TX 79701	Midland,	City, State ZIP:
	t Suite 400	601 N Marienfeld St Suite 400	60	ISS:	Address		Suite 400	601 N Marienfeld St Suite 400	601 N M	Address:
Program: UST/PST PRP Brownfields RRC Superfund		Ensolum, LLC	Ē	Company Name:	Comp			I, LLC	Ensolum, LLC	Company Name:
Work Order Comments		Kalei Jennings	Ka	Bill to: (if different)	0 IIB			nnings	Kalei Jennings	Project Manager
www.xenco.com Page of										
	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs. NM (575) 392-7550. Carlsbad. NM (575) 988-3199	i) 585-3443, Lubbo 392-7550. Carlsba	), TX (915 NM (575)	EL Paso Hobbs.				. VALLER		
Work Order No: 7400	Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334	704-5440, San Anto	FX (432)	Midland,		iesting	LIVICHIIGHI ISLIIS	CIVID.		
7 4111	Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300	1) 240-4200, Dalla	n, TX (28	Housto					tins	seurotins

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12 13 14

Seurofins

Chain of Custody

Job Number: 890-4435-1 SDG Number: 03D2057069

List Source: Eurofins Carlsbad

### Login Sample Receipt Checklist

Client: Ensolum

Login Number: 4435 List Number: 1 Creator: Kramer, Jessica

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.	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	

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

Eurofins Carlsbad Released to Imaging: 1/10/2024 11:56:33 AM

Job Number: 890-4435-1 SDG Number: 03D2057069

List Source: Eurofins Midland

List Creation: 03/31/23 12:46 PM

### Login Sample Receipt Checklist

Client: Ensolum

Login Number: 4435 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	

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

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# APPENDIX E

**NMOCD** Notifications

Released to Imaging: 1/10/2024 11:56:33 AM

From:	Enviro, OCD, EMNRD
То:	Kalei Jennings
Subject:	RE: [EXTERNAL] Maverick Permian - Sampling Notification (Week of 3/27/2023)
Date:	Thursday, March 23, 2023 3:23:38 PM
Attachments:	image005.jpg image006.png image007.png image008.png image009.png

#### [ \*\*EXTERNAL EMAIL\*\*]

Kalei,

Please disregard my previous email. My apologies. I see that you will begin sampling on 03/28/2023 and that you have provided dates for each site. Thank you!

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

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

From: Kalei Jennings <kjennings@ensolum.com>
Sent: Thursday, March 23, 2023 1:47 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Subject: [EXTERNAL] Maverick Permian - Sampling Notification (Week of 3/27/2023)

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

All,

?

Maverick Permian, LLC (Maverick) plans to complete sampling activities at the following site the week of March 27, 2023.

- Grayburg Eumont Straw Battery/ NAPP2302036818
  - Sampling Date: 3/28/2023 & 3/29/2023
- MCA 351/ NAPP2302034681

- Sampling Date: 3/30/2023 & 3/31/2023
- MCA 254/ NAPP2302035947
  - Sampling Date: 3/28/2023 & 3/29/2023
- MCA 400/NAPP230545505
  - Sampling Date: 3/29/2023
- MCA 301/ NAPP230755601
  - Sampling Date: 3/31/2023
- SC Federal Battery / NAPP2303272686
  - Sampling Date: 3/28/2023 & 3/29/2023
- MCA 151 / NAPP2235377174
  - Sampling Date: 3/28/2023

Thank you,



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

cident Number NAPP2303272686)

#### [ \*\*EXTERNAL EMAIL\*\*]

Hello Kalei

OCD approves your 90-day extension request to July 31, 2023 to submit a remediation plan or closure report. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thanks, Jennifer Nobui

From: Kalei Jennings <<u>kjennings@ensolum.com</u>>

**Sent:** Friday, April 7, 2023 1:31 PM

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

**Subject:** [EXTERNAL] Maverick Permian- Extension Request- SC Federal Battery (Incident Number NAPP2303272686)

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

To Whom It May Concern,

#### SC Federal Battery (Incident Number NAPP2303272686)

Maverick Permian, LLC (Maverick) is requesting an extension for the current deadline of April 9, 2023, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC for SC Federal Battery (Incident Number NAPP2303272686). The release was discovered on January 9, 2023. Initial site assessment activities and excavation of impacted soil has been completed. Based on the most recent field screening results, Maverick believes all impacted soil has been removed; however, we are waiting for laboratory analytical results to confirm. In order to complete additional remediation activities and submit a remediation work plan or closure report, Maverick requests a 90-day extension of this deadline until July 7, 2023.

Thank you,

Kalei Jennings



Senior Scientist 817-683-2503 Ensolum, LLC

From:	Aimee Cole
То:	ocd.enviro@state.nm.us
Cc:	Kalei Jennings
Subject:	Maverick - Sampling Notification (Week of 7/24/2023)
Date:	Wednesday, July 19, 2023 1:45:00 PM
Attachments:	image005.png image006.png image007.png image008.png

#### All,

Maverick Permian, LLC plans to complete sampling activities at the following sites the week of July 24, 2023.

- SEMU 34 / NAPP2314257831
  - Sampling Dates: 7/24/2023 7/26/2023
- Cone Jalmat South Satellite Header / NAPP2301881992
  - Sampling Dates: 7/25/2023 7/27/2023
- SC Federal Battery / NAPP2303272686
  - Sampling Date: 7/26/2023

Thank you,



Aimee Cole Senior Managing Scientist 720-384-7365 Ensolum, LLC in f

# State of New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division

# **Receipt of Fee Application Payment**



## PO Number: 54073-230801-C-1410

Payment Date:	8/1/2023 3:10:14 PM
Payment Amount:	\$150.00
Payment Type:	Credit Card
Application Type:	Application for administrative approval of a release notification and corrective action
Fee Amount:	\$150.00
Application Status:	Under OCD Review
OGRID:	331199
First Name:	Aimee
Last Name:	Cole
Email:	acole@ensolum.com

IMPORTANT: If you are mailing or delivering your application, you must print and include your receipt of payment as the first page on your application. All mailed and delivered applications must be sent to the following address: 1220 S. St. Francis Dr., Santa Fe, NM 87505. For inquiries, reference the PO Number listed above.

> Oil Conservation Division \* 1220 South St. Francis Drive \* Santa Fe, New Mexico 87505 (505) 476-3441 \* ocd.fees@state.nm.us \* www.emnrd.nm.gov/OCD



# APPENDIX F Form C-141

**Released to Imaging: 1/10/2024 11:56:33 AM** 

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Page 160 of 166

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

)

Incident ID	NAPP2303272686
District RP	
Facility ID	
Application ID	

# **Release Notification**

## **Responsible Party**

Responsible Party: Maverick Permian, LLC	OGRID: 331199				
Contact Name: Bryce Wagoner	Contact Telephone: 928-241-1862				
Contact email: Bryce.Wagoner@mavresources.com	Incident # (assigned by OCD) NAPP2303272686				
Contact mailing address: 1410 NW County Road Hobbs, NM 88240					

## **Location of Release Source**

Latitude 32.8175\_\_\_\_\_

[NAD 83 in decimal degrees to 5 decimal places]

Site Name SC Federal Battery	Site Type
Date Release Discovered January 9, 2023	API# (if applicable) 30-025-40586

Unit Letter	Section	Township	Range	County
Ι	22	17S	32E	Lea

Surface Owner: State Federal Tribal Private (Name:

## Nature and Volume of Release

 Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

 ☑ Crude Oil
 Volume Released (bbls) 7 bbls
 Volume Recovered (bbls) 2 bbls

 ☑ Produced Water
 Volume Released (bbls) 2 bbls
 Volume Recovered (bbls) 0

 Is the concentration of dissolved chloride in the produced water >10,000 mg/l?
 ☑ Yes ☑ No

 ☑ Condensate
 Volume Released (bbls)
 Volume Recovered (bbls)

Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)						
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)						

Cause of Release

The release was caused by internal corrosion on a flow line. The release occurred on and off pad. The source of the release has been stopped and the impacted area has been secured.

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Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?
🗌 Yes 🖾 No	
II YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

## **Initial Response**

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

 $\square$  The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name:Bryce Wagoner	Title:Permian HSE Specialist II
Signature:	Date:1/19/2023
email:Bryce.Wagoner@mavresources.com	Telephone:928-241-1862
OCD Only	
Received by:	Date:

Received by OCD: 9/19/2023 3:34:03 PM			Pooled Fluids on the Surface					NAPP2303272686			age 162 of 166
	Length (ft.)	Width (ft.)	Depth (in)	# of Boundaries *edges of pool where depth is 0 . don't count shared boundaries	Oil-Water Ratio (%)	Pooled Area (ft <sup>2</sup> )	Estimated Average Depth (ft.)	Pooled Volume (bbl.)	Volume of Oil in Subsurface (bbl.)	Volume of Water in Subsurface (bbl.)	
Rectangle A	20.0	20.0	6.0	4.0	0.80	400.0	0.1	8.9	7.12	1.78	l
Rectangle B						0.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Rectangle C						0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Rectangle D						0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	l
Rectangle E						0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	1
Total Volume (bbls): 8.90 7.12 1.78								1			

Subsurface Fluids										
	Length (ft.)	Width (ft.)	Depth (in.)	Saturation (%) *10% in consolidated sediments after rain to 50% in sand with no precipitation	Oil-Water Ratio (%)	Area (ft <sup>2</sup> )	Volume (bbl.)	Estimated Volume in Subsurface (bbl.)	Volume of Oil in Subsurface (bbl.)	Volume of Water in Subsurface (bbl.)
Rectangle A						0.0	0.0	0.0	0.00	0.0
Rectangle B						0.0	0.0	0.0	0.00	0.0
Rectangle C						0.0	0.0	0.0	0.00	0.0
Rectangle D						0.0	0.0	0.0	0.00	0.0
Rectangle E						0.0	0.0	0.0	0.00	0.0
Rectangle F						0.0	0.0	0.0	0.00	0.0
Rectangle G						0.0	0.0	0.0	0.00	0.0
Rectangle H						0.0	0.0	0.0	0.00	0.0
Rectangle I						0.0	0.0	0.0	0.00	0.0
Rectangle J						0.0	0.0	0.0	0.00	0.0
Total Volume (bbls)								0.00	0.00	0.00

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TOTAL RELEASE VOLUME (bbls):

8.9

**Released to Imaging: 1/10/2024 11:56:33 AM** 

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## Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>51-100 (f</u> eet bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🛛 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	🗴 Yes 🗌 No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

#### Characterization Report Checklist: Each of the following items must be included in the report.

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- $\square$  Depth to water determination
- Determination of water sources and significant watercourses within <sup>1</sup>/<sub>2</sub>-mile of the lateral extents of the release
- $\boxtimes$  Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

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regulations all operators are requi public health or the environment. failed to adequately investigate an		fications and perform co CD does not relieve the at to groundwater, surfac	rrective actions for rele operator of liability sho ce water, human health iance with any other feo Specialist	ases which may endanger ould their operations have or the environment. In deral, state, or local laws
OCD Only Received by:		Date:		

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# Closure

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

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.				
A scaled site and sampling diagram as described in 19.15.29.11 NMAC				
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)				
Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)				
Description of remediation activities				
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.				
Printed Name:Bryce Wagoner Title:Permian HSE Specialist				
Signature:				
email:Bryce.Wagoner@mavresources.com Telephone:928-241-1862				
OCD Only				
Received by:         Date:				
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.				
Closure Approved by: <u>Nelson Velez</u> Date: <u>01/10/2024</u>				
Closure Approved by:       Nelson Velez       Date:       01/10/2024         Printed Name:       Nelson Velez       Title:       Environmental Specialist - Adv				
Remediation has met 19.15.29 NMAC requirements. Soil impacts exceeding the reclamation standards have been left in place and are required to meet 19.15.29.13D (1) NMAC once the site is no longer reasonably needed for production or subsequent drilling ops.				

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

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

District III

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

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Operator:	OGRID:
Maverick Permian LLC	331199
1000 Main Street, Suite 2900	Action Number:
Houston, TX 77002	267201
	Action Type:
	[C-141] Release Corrective Action (C-141)

CON	IDIT	'ION	IS

Created Condition Condition By Date 1/10/2024 nvelez Remediation has met 19.15.29 NMAC requirements. Soil impacts exceeding the reclamation standards have been left in place and are required to meet 19.15.29.13D (1) NMAC once the site is no longer reasonably needed for production or subsequent drilling ops.

Action 267201