



July 31, 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 *Remediation Work Plan (Work Plan)* to document the site assessment, excavation, and soil sampling activities completed at the SC Federal Battery (Site) and propose installation of a soil boring to investigate depth to water and confirm the Site Closure Criteria.

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 between 51 feet and 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well RA 12020 Pod 3, located approximately 1.32 miles southwest of the Site. The groundwater well has a reported depth to groundwater of 83 feet bgs and a total depth of 112 feet bgs. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well records are included in Appendix A.

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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® chloride QuanTab® 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.

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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. 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 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

Maverick Permian, LLC
Remediation Work Plan
SC Federal Battery

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.

PROPOSED REMEDIATION WORKPLAN

Site assessment and excavation activities were conducted at the Site to address the January 10, 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 or reclamation requirements for samples collected from the top four feet of the pasture area. 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.

In order to confirm the Site Closure Criteria applied to the Site, Maverick requests approval to complete the following activities:

- Maverick proposes to advance a soil boring to a depth of 55 feet bgs within 0.5 miles of the Site to confirm depth to groundwater is greater than 51 feet bgs. A field geologist will log and describe soils continuously. The soil boring will be left open for over 72 hours to allow for equilibration of groundwater levels within the temporary boring casing. After the 72-hour waiting period, depth to groundwater will be assessed and the soil boring will be backfilled following NMOSE approved procedures. A well record or soil boring log will be included in the follow up *Closure Request*.

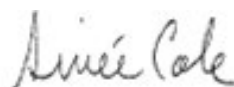
Maverick will complete the soil boring within 90 days of the date of approval of this *Work Plan* by the NMOCD and submit a *Closure Request* within 30 days of completing the soil boring. Maverick believes this *Work Plan* is protective of human health, the environment, and groundwater. As such, Maverick respectfully requests approval of this *Work Plan* for Incident Number NAPP2303272686. NMOCD Notifications are included in Appendix E and the 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 acole@ensolum.com.

Sincerely,
Ensolum, LLC



Kalei Jennings
Senior Project Manager



Aimee Cole
Senior Managing Scientist

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

Appendices:

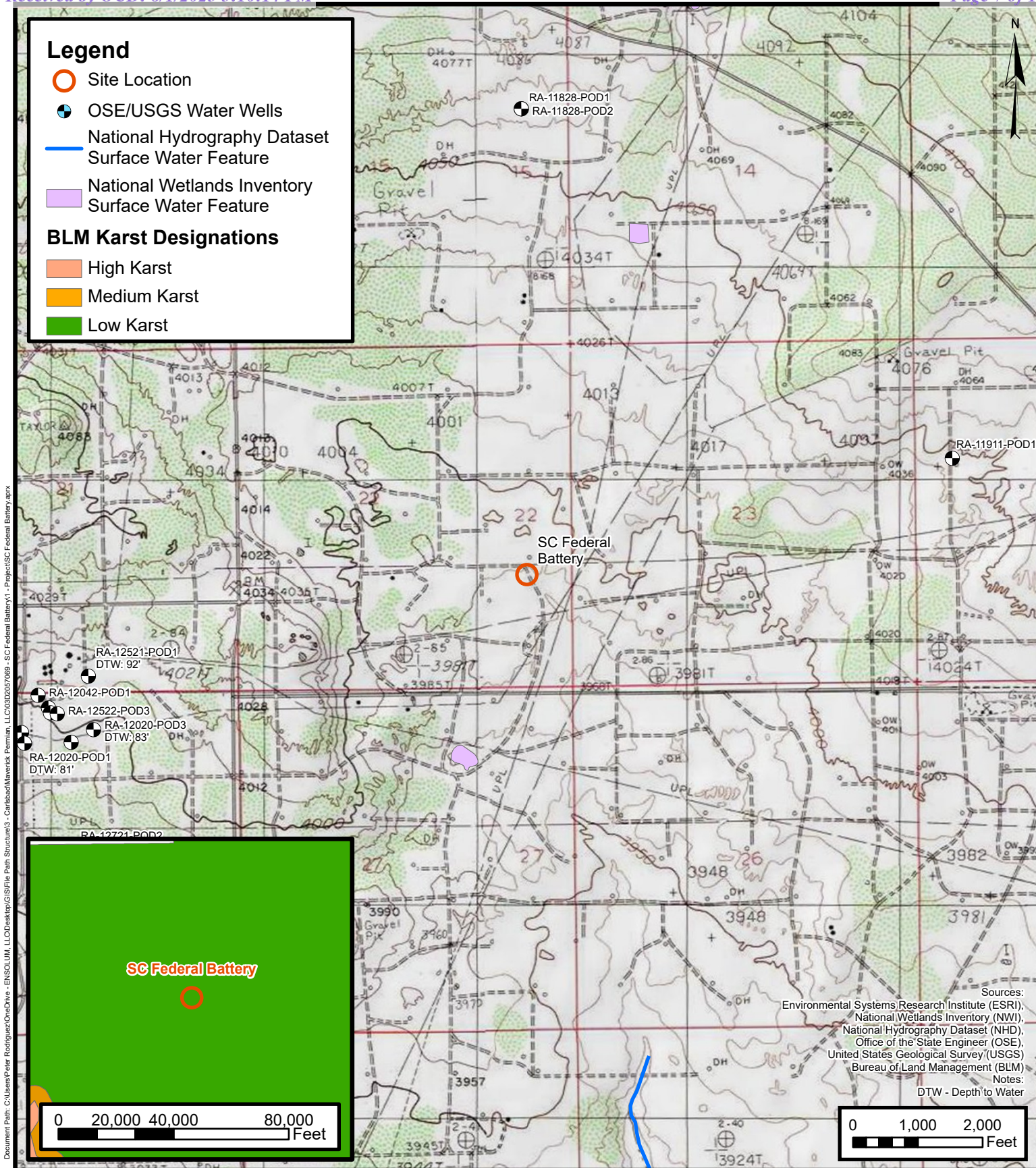
Figure 1 Site Receptor Map
Figure 2 Assessment Soil Sample Locations
Figure 3 Delineation Soil Sample Locations

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Remediation Work Plan
SC Federal Battery

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



FIGURES



Site Receptor Map

Maverick Permian, LLC

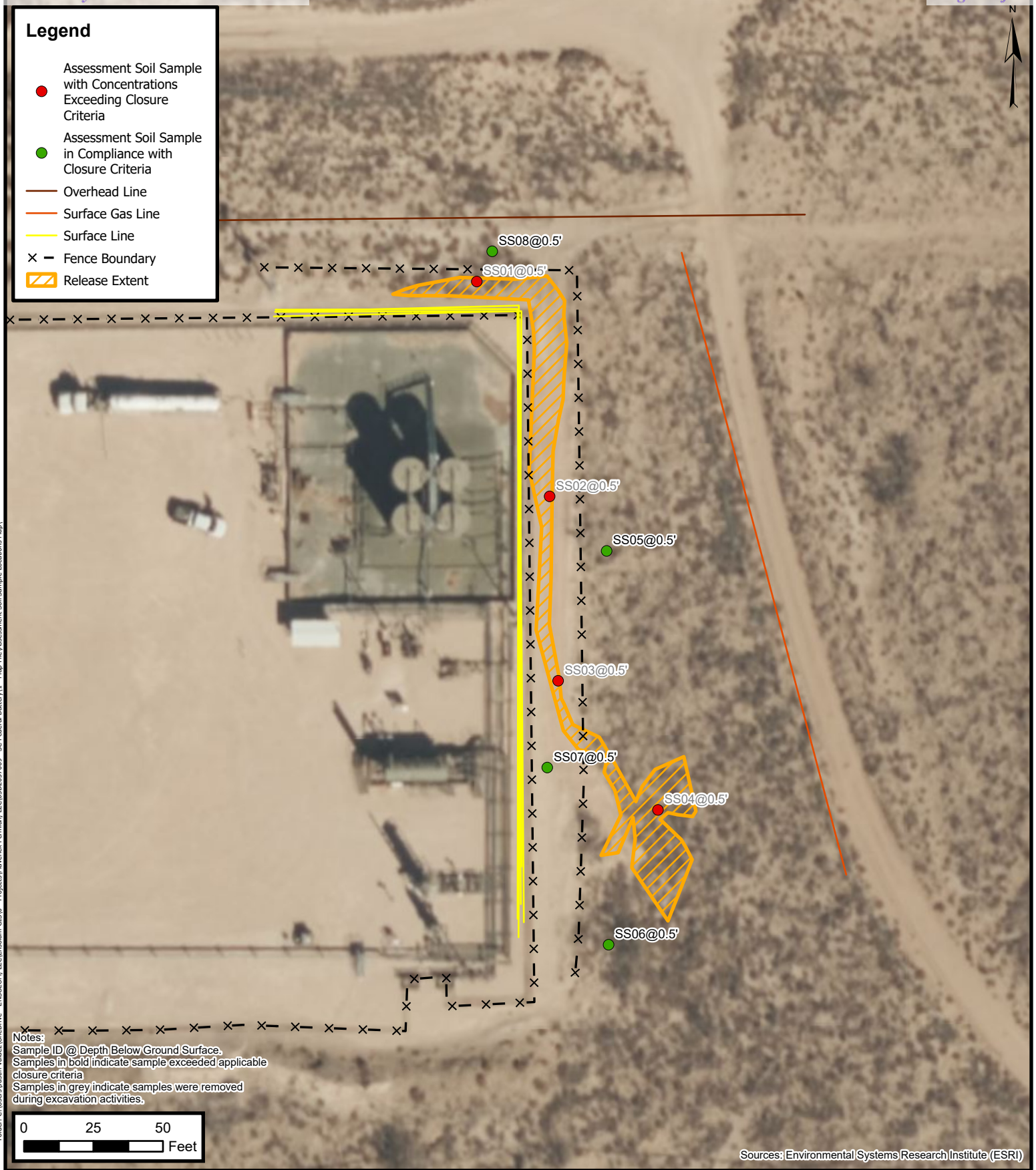
SC Federal Battery

Incident ID: NAPP2303272686

Unit: I, Section: 22, Township: 17S, Range 32E,
 Lea County, New Mexico

FIGURE

1



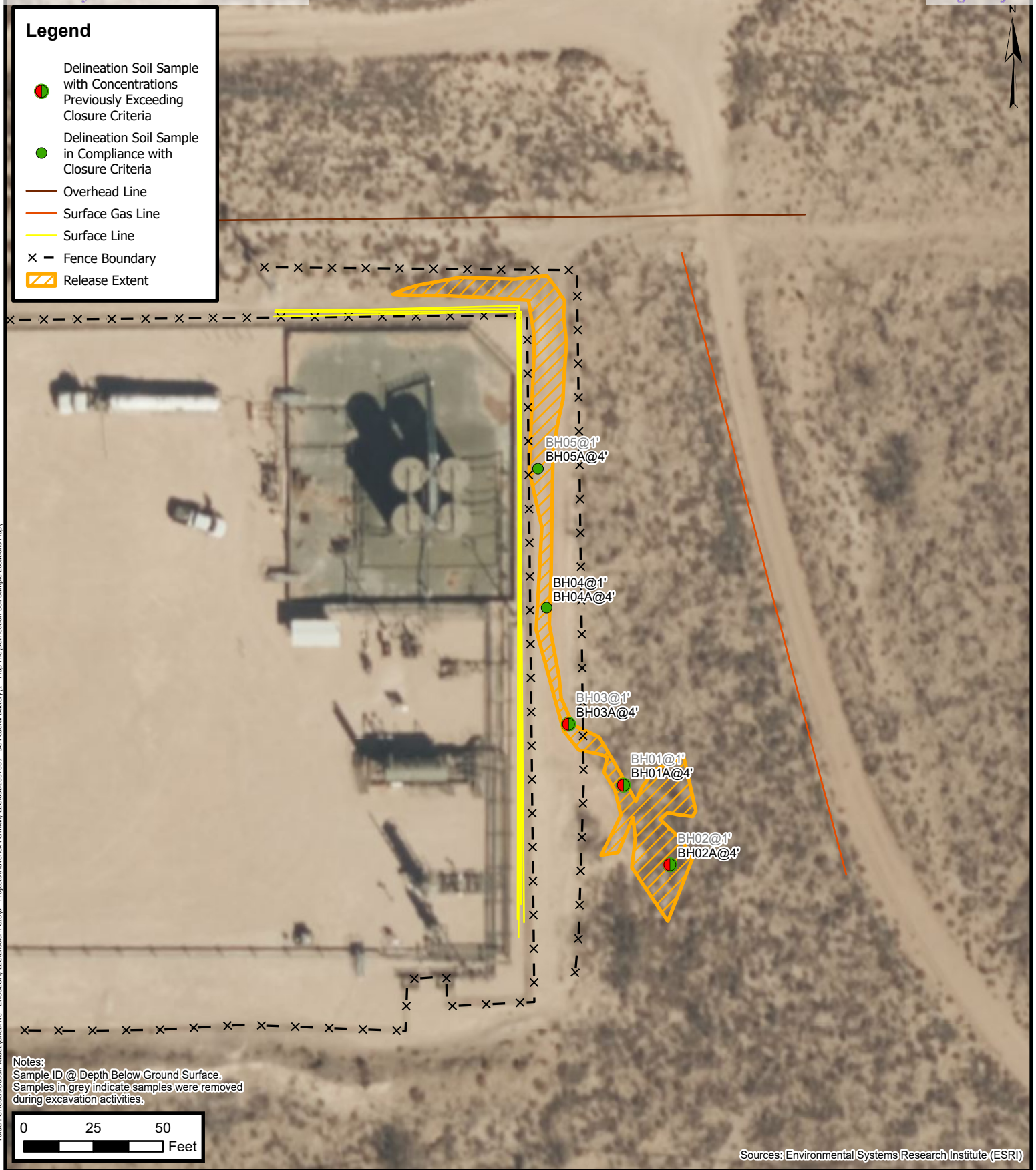
Assessment Soil Sample Locations

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Unit I, Sec 22, T17S, R32E
Lea County, New Mexico

FIGURE

2





Delineation Soil Sample Locations

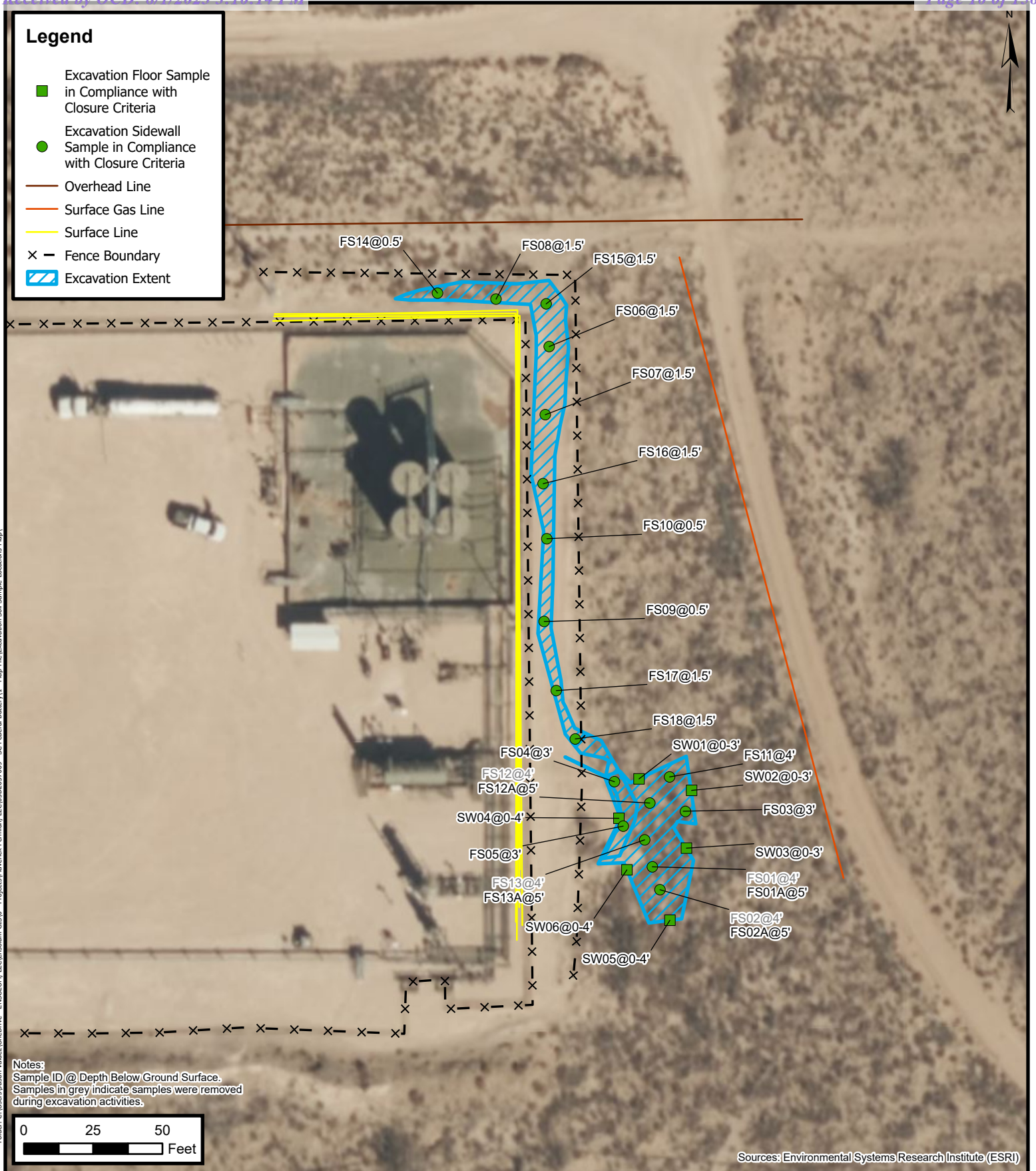
Maverick Permian, LLC
SC Federal Battery
Incident Number: NAPP2303272686
Unit I, Sec 22, T17S, R32E
Lea County, New Mexico

FIGURE

3

Legend

- Excavation Floor Sample in Compliance with Closure Criteria
- Excavation Sidewall Sample in Compliance with Closure Criteria
- Overhead Line
- Surface Gas Line
- Surface Line
- × — Fence Boundary
- ▨ Excavation Extent

**Excavation Soil Sample Locations**

Maverick Permian, LLC
 SC Federal Battery
 Incident Number: NAPP2303272686
 Unit I, Sec 22, T17S, R32E
 Lea County, New Mexico

FIGURE**4**



TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 SC Federal Battery
 Maverick Permian, LLC
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	10,000
Assessment Soil Samples										
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
Delineation Soil Samples										
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

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 SC Federal Battery
 Maverick Permian, LLC
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	10,000
Excavation Floor Soil Samples										
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

TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS SC Federal Battery Maverick Permian, LLC Lea County, New Mexico										
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	10,000
Excavation 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:

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



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)							
		(quarters are smallest to largest)				(NAD83 UTM in meters)			
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
RA 12020	POD3	2	1	2	28	17S	32E	615152	3631019 

Driller License: 1456 **Driller Company:** WHITE DRILLING COMPANY

Driller Name: WHITE, JOHN W

Drill Start Date: 07/13/2015 **Drill Finish Date:** 07/15/2015 **Plug Date:**

Log File Date: 08/10/2015 **PCW Rev Date:** **Source:** Shallow

Pump Type: **Pipe Discharge Size:** **Estimated Yield:**

Casing Size: 2.00 **Depth Well:** 112 feet **Depth Water:** 83 feet

Water Bearing Stratifications:	Top	Bottom	Description
	70	96	Sandstone/Gravel/Conglomerate
	96	97	Sandstone/Gravel/Conglomerate
	97	101	Shale/Mudstone/Siltstone

Casing Perforations:	Top	Bottom
	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 are 1=NW 2=NE 3=SW 4=SE)				(quarters are smallest to largest)				(NAD83 UTM in meters)		
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y			
	RA 12020 POD1	2	2	1	28	17S	32E	614828	3630954			
x												
Driller License:		1456		Driller Company:			WHITE DRILLING COMPANY					
Driller Name:		WHITE, JOHN (LD)										
Drill Start Date:		09/24/2013		Drill Finish Date:			09/25/2013		Plug Date:			
Log File Date:		10/07/2013		PCW Rev Date:						Source: Shallow		
Pump Type:					Pipe Discharge Size:			Estimated Yield:				
Casing Size:		2.00		Depth Well:			120 feet		Depth Water:		81 feet	
x												
Water Bearing Stratifications:				Top	Bottom	Description						
				70	111	Sandstone/Gravel/Conglomerate						
				111	120	Shale/Mudstone/Siltstone						
x												
Casing Perforations:				Top	Bottom							
				75	110							
x												

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

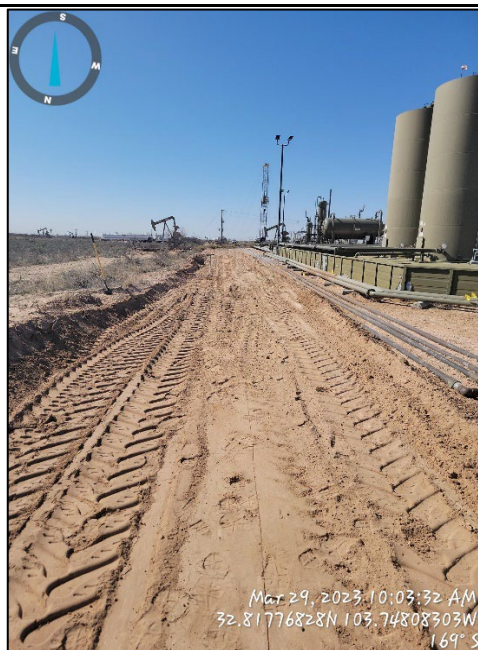
Incident Number NAPP2303272686



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



Photograph 2 Date: 03/22/2023
Description: Photo of release area.



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



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



Photographic Log

Maverick Permian, LLC

SC Federal Battery

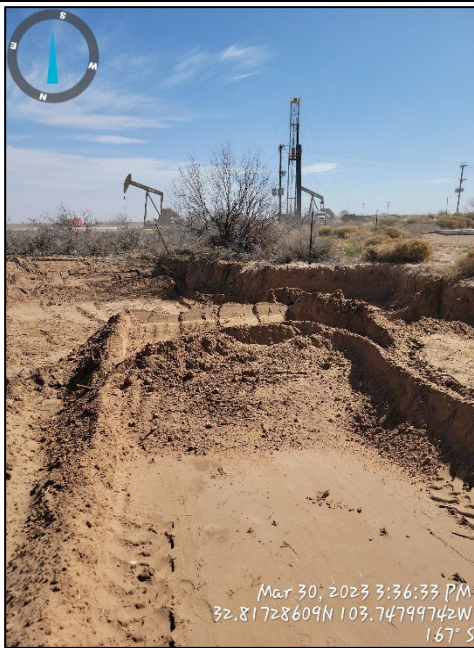
Incident Number NAPP2303272686



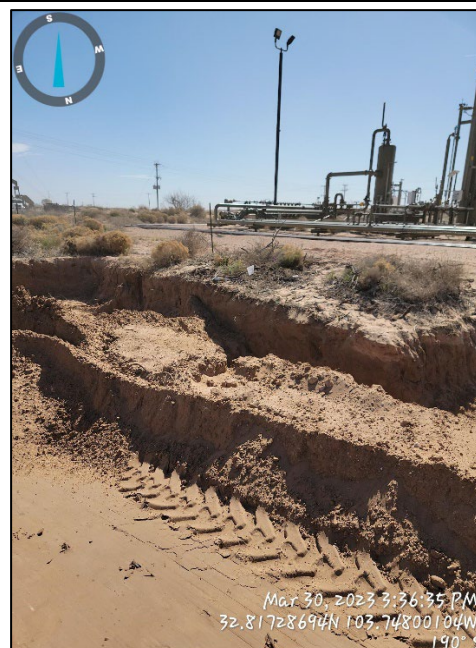
Photograph 5 Date: 03/30/2023
De: Photo of excavation.



Photograph 6 Date: 03/30/2023
Description: Photo of excavation activities.



Photograph 7 Date: 03/30/2023
De: Photo of excavation activities.



Photograph 8 Date: 03/30/2023
Description: Photo of excavation extent.



APPENDIX C

Lithologic Soil Sampling Logs

								Sample Name: BH01		Date: 03/22/23	
								Site Name: Maverick SC Federal Battery			
								Incident Number: NAPP2303272686			
								Job Number: : 03D2057069			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Dmitry Nikanorov		Method: Hand auger	
Coordinates: 32.8175, -103.7481								Hole Diameter: 4'		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D		5000	Y	BH01	1	1	SP	0-1': SAND, brown color, dry, poorly graded, fine-medium grain, stain and odor are present			
D		5000	Y			2	SP	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 grey clay			
								TD @ 4' bgs			

								Sample Name: BH02		Date: 03/22/23	
								Site Name: Maverick SC Federal Battery			
								Incident Number: NAPP2303272686			
								Job Number: : 03D2057069			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Dmitry Nikanorov		Method: Hand auger	
Coordinates: 32.8175, -103.7481								Hole Diameter: 4'		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D		107.6	Y	BH02	1	1	SP	0-1': SAND, brown color, dry, poorly graded, fine-medium grain, stain and odor are present			
D		181	Y			2	SP	1-2': Same as above (SAA)			
D		97.4	Y			3	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	
								Site Name: Maverick SC Federal Battery			
								Incident Number: NAPP2303272686			
								Job Number: : 03D2057069			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Dmitry Nikanorov		Method: Hand auger	
Coordinates: 32.8175, -103.7481								Hole Diameter: 4'		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D		1860	Y	BH03	1	1	SP	0-1': SAND, brown color, dry, poorly graded, fine-medium grain, stain and odor are present			
D		699	Y			2	SP	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 Battery			
								Incident Number: NAPP2303272686			
								Job Number: : 03D2057069			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Dmitry Nikanorov		Method: Hand auger	
Coordinates: 32.8175, -103.7481								Hole Diameter: 4'		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D		127	Y	BH04	1	1	SP	0-1': SAND, brown color, dry, poorly graded, fine-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			
D		83.7	Y	BH04A	4	4	SP	3-4': SAA			
								TD @ 4' bgs			

								Sample Name: BH05		Date: 03/22/23	
								Site Name: Maverick SC Federal Battery			
								Incident Number: NAPP2303272686			
								Job Number: : 03D2057069			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Dmitry Nikanorov		Method: Hand auger	
Coordinates: 32.8175, -103.7481								Hole Diameter: 4'		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D		346.9	Y	BH05	1	1	SP	0-1': SAND, brown color, dry, poorly graded, fine-medium grain, stain and 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



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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)

BTX 8021B		mg/kg		Analyzed 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 BTX	0.371	0.300	04/03/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

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		Analyzed 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 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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)

BTX 8021B		mg/kg		Analyzed 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 BTX	<0.300	0.300	04/03/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-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		Analyzed 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 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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		Analyzed 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 % 71.5-134

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		Analyzed 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 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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		Analyzed 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 % 71.5-134

Chloride, SM4500CI-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		Analyzed 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 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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 % 71.5-134

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 % 48.2-134

Surrogate: 1-Chlorooctadecane 154 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8160	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*	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 % 48.2-134

Surrogate: 1-Chlorooctadecane 269 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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)

BTX 8021B		mg/kg		Analyzed 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 BTX	0.565	0.300	04/03/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-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		Analyzed 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 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Analytical Results For:

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		Analyzed 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 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed 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		Analyzed 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 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.9 % 49.1-148

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Analytical Results For:

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		Analyzed 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 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed 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		Analyzed 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 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.9 % 49.1-148

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Analytical Results For:

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		Analyzed 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 % 71.5-134

Chloride, SM4500CI-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		Analyzed 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 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.7 % 49.1-148

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Analytical Results For:

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		Analyzed 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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed 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 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.2 % 49.1-148

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Analytical Results For:

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		Analyzed 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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed 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 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.7 % 49.1-148

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Analytical Results For:

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)

BTX 8021B		mg/kg		Analyzed 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 BTX	<0.300	0.300	04/03/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed 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		Analyzed 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 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.1 % 49.1-148

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Analytical Results For:

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		Analyzed 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 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed 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		Analyzed 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 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.4 % 49.1-148

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Analytical Results For:

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		Analyzed 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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed 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 % 48.2-134

Surrogate: 1-Chlorooctadecane 331 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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		Analyzed 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 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed 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		Analyzed 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 % 48.2-134

Surrogate: 1-Chlorooctadecane 246 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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		Analyzed 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 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed 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		Analyzed 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 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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		Analyzed 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 % 71.5-134

Chloride, SM4500CI-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	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed 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 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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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

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC		BILL TO		ANALYSIS REQUEST																				
Project Manager: Walter Jennings		P.O. #: 000																						
Address: 3122 National Parks Hwy		Company:																						
City: Leutschburg, NM State: NM Zip: 88220		Attn:																						
Phone #: 505-683-2508 Fax #:		Address:																						
Project #: 0312057069 Project Owner:		City:																						
Project Name: 50 Federal Battery / Mullerick		State: Zip:																						
Project Location: 32.5175 - 103.7481		Phone #:																						
Sampler Name: Julianna Falconmata		Fax #:																						
FOR LAB USE ONLY																								
Lab I.D.	Sample I.D.	(GRAB OR C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING																		
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME										
H231506																								
1	FS03 @ 3'	C	1			X							3/31/23	1000	BTEX TPH Chlorides									
2	FS04 @ 3'	C	1			X							3/31/23	1005										
3	FS05 @ 3'	C	1			X							3/31/23	1010										
4	FS11 @ 4'	C	1			X							3/31/23	1015										
5	FS12 @ 4'	C	1			X							3/31/23	1020										
6	FS13 @ 4'	C	1			X							3/31/23	1025										
7	FS14 @ 5'	C	1			X							3/31/23	1030										
8	FS15 @ 15'	C	1			X							3/31/23	1035										
9	FS16 @ 15'	C	1			X							3/31/23	1040										
10	FS17 @ 15'	C	1			X							3/31/23	1045										

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Relinquished By: Julianna Falconmata	Date: 3/31/23 Time: 1000	Received By: Walter Jennings	Verbal Result: ☐ Yes ☒ No Add'l Phone #:
Relinquished By: Julianna Falconmata	Date: 4/3/23 Time: 0950	Received By: Shed Rigney	REMARKS: Walter Jennings @ ensolum.com jfalconmata @ ensolum.com
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C: 0.4 Corrected Temp. °C: -0.2	Sample Condition Cool Intact ☒ Yes ☐ No Yes ☐ No ☐ No	Turnaround Time: Standard ☒ Rush ☐ Thermometer ID #113 Correction Factor: 0.5°C 0.0
		CHECKED BY: SR	Bacteria (only) Sample Condition Cool Intact ☒ Yes ☐ No Yes ☐ No ☐ No Observed Temp. °C Corrected Temp. °C

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

SR



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Ensolum, LLC</u>		BILL TO		ANALYSIS REQUEST																							
Project Manager: <u>Halei Jennings</u>		P.O. #:		BTX TPH CHLORIDES																							
Address: <u>3122 National Park Hwy</u>		Company:																									
City: <u>Arts and Crafts</u> State: <u>NM</u> Zip: <u>88220</u>		Attn:																									
Phone #: <u>817-683-2503</u> Fax #:		Address:																									
Project #: <u>03D2057069</u> Project Owner:		City:																									
Project Name: <u>SE Federal Battery / Maverick</u>		State: Zip:																									
Project Location: <u>22, 8175, -103, 481</u>		Phone #:																									
Sampler Name: <u>Juliana Falconata</u>		Fax #:																									
FOR LAB USE ONLY																											
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.		SAMPLING																
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME													
<u>H231506</u>																											
<u>11</u>	<u>FS18 @ 1.5'</u>	<u>C</u>	<u>1</u>			<u>X</u>							<u>3/31/23</u>	<u>1050</u>	<u>X</u>	<u>X</u>	<u>X</u>										
<u>*</u>	<u>12</u>	<u>FS06 @ 1.5'</u>											<u>3/30/23</u>	<u>1100</u>													
	<u>13</u>	<u>FS07 @ 1.5'</u>												<u>1110</u>													
	<u>14</u>	<u>FS08 @ 1.5'</u>												<u>1200</u>													
	<u>15</u>	<u>FS01 @ 4'</u>												<u>1300</u>													
	<u>16</u>	<u>FS02 @ 4'</u>												<u>1310</u>													
	<u>17</u>	<u>SW04 @ 0-3'</u>												<u>1315</u>													
	<u>18</u>	<u>SW05 @ 0-3'</u>												<u>1320</u>													

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Relinquished By: <u>Falconata</u>	Date: <u>4/3/23</u> Time: <u>1000</u>	Received By: <u>Halei Jennings</u>	Verbal Result: ☐ Yes ☐ No Add'l Phone #: <u>760.4/3/23</u>
Relinquished By: <u>Falconata</u>	Date: <u>4/3/23</u> Time: <u>0850</u>	Received By: <u>Stodolney</u>	All Results are emailed. Please provide Email address: <u>Hennings @ ensolum.com</u>
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C: <u>0.4c</u> Corrected Temp. °C: <u>-0.2c</u>	Sample Condition Cool Intact ☐ Yes ☐ No Yes ☐ No ☐ No	REMARKS: <u>Falconata @ ensolum.com</u>
		CHECKED BY: <u>SK</u>	Turnaround Time: ☒ Standard ☐ Rush Thermometer ID #113 Correction Factor <u>-0.4c</u>
			Bacteria (only) Sample Condition Cool Intact ☐ Yes ☐ No Yes ☐ No ☐ No Observed Temp. °C Corrected Temp. °C

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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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)

BTX 8021B		mg/kg		Analyzed 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 BTX	<0.300	0.300	04/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed 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 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/13/2023
Reported: 04/18/2023
Project Name: SC FEDERAL BATTERY
Project Number: 03D20257069
Project Location: 32.8175,-103.7481 (LEA)

Sampling Date: 04/13/2023
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: FS 02 A (H231779-02)

BTEX 8021B		mg/kg		Analyzed 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 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed 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		Analyzed 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 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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

Received: 04/13/2023
Reported: 04/18/2023
Project Name: SC FEDERAL BATTERY
Project Number: 03D20257069
Project Location: 32.8175,-103.7481 (LEA)

Sampling Date: 04/13/2023
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: FS 12 A (H231779-03)

BTX 8021B		mg/kg		Analyzed 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 BTX	<0.300	0.300	04/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed 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		Analyzed 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 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/13/2023
Reported: 04/18/2023
Project Name: SC FEDERAL BATTERY
Project Number: 03D20257069
Project Location: 32.8175,-103.7481 (LEA)

Sampling Date: 04/13/2023
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: FS 13 A (H231779-04)

BTEx 8021B		mg/kg		Analyzed 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 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed 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		Analyzed 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 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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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

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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Relinquished By:		Date: 4-13-23	Received By:	Verbal Result: ☐ Yes ☒ No Add'l Phone #:
[Signature]		Time: 1300	[Signature]	All Results are emailed. Please provide Email address: kjennings@ensolum.com
Relinquished By:		Date:	Received By:	REMARKS: Cooler Temp 1.8°C
		Time:		
Delivered By: (Circle One)	Observed Temp. °C 4.5	Sample Condition Cool ☒ Intact ☒	CHECKED BY: (Initials) [Signature]	Turnaround Time: Standard ☐ Rush ☒
Sampler - UPS - Bus - Other:	Corrected Temp. °C 8.9	☐ Yes ☒ No ☐ Yes ☒ No		Thermometer ID #113 Correction Factor -0.6°C 3 day
				Bacteria (only) Sample Condition Cool Intact Observed Temp. °C ☐ Yes ☐ Yes ☐ No ☐ No Corrected Temp. °C

~~FORM-006 R 3.3 07/18/22~~

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



Environment Testing

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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

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

Eurofins Carlsbad**Job Notes**

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

Authorization

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

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

Client: Ensolum
Project/Site: SC Federal Battery

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

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Definitions/Glossary

Client: Ensolum
Project/Site: SC 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

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: SC Federal Battery

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.

Client Sample Results

Client: Ensolum
Project/Site: SC Federal Battery

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

Client Sample ID: SS01

Lab Sample ID: 890-3832-1

Date Collected: 01/11/23 14:45

Matrix: Solid

Date Received: 01/11/23 16:35

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	13.6	*+	0.201	mg/Kg		01/13/23 13:50	01/16/23 17:05	100
Toluene	164		0.996	mg/Kg		01/16/23 14:35	01/17/23 14:12	500
Ethylbenzene	140		0.996	mg/Kg		01/16/23 14:35	01/17/23 14:12	500
m-Xylene & p-Xylene	119		1.99	mg/Kg		01/16/23 14:35	01/17/23 14:12	500
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 - Total BTEX Calculation

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 Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	49100		499	mg/Kg			01/16/23 16:51	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	7860		499	mg/Kg		01/13/23 13:11	01/16/23 02:12	10
Diesel Range Organics (Over C10-C28)	36000		499	mg/Kg		01/13/23 13:11	01/16/23 02:12	10
Oil 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 Chromatography - Soluble

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 Sample ID: 890-3832-2

Date Collected: 01/11/23 14:47

Matrix: Solid

Date Received: 01/11/23 16:35

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	4.53	*+	0.198	mg/Kg		01/13/23 13:50	01/16/23 17:26	100
Toluene	42.7		0.497	mg/Kg		01/16/23 14:35	01/17/23 14:33	250
Ethylbenzene	28.7		0.497	mg/Kg		01/16/23 14:35	01/17/23 14:33	250
m-Xylene & p-Xylene	15.5		0.396	mg/Kg		01/13/23 13:50	01/16/23 17:26	100
o-Xylene	7.06		0.198	mg/Kg		01/13/23 13:50	01/16/23 17:26	100
Xylenes, Total	22.6		0.396	mg/Kg		01/13/23 13:50	01/16/23 17:26	100

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: SC Federal Battery

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

Client Sample ID: SS02

Lab Sample ID: 890-3832-2

Date Collected: 01/11/23 14:47

Matrix: Solid

Date Received: 01/11/23 16:35

Sample Depth: 0.5'

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 Calculation

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 - Diesel Range Organics (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 - Diesel Range Organics (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	5
Oil Range Organics (Over C28-C36)	1070		250	mg/Kg		01/13/23 13:11	01/16/23 04:42	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	144	S1+	70 - 130			01/13/23 13:11	01/16/23 04:42	5
o-Terphenyl	166	S1+	70 - 130			01/13/23 13:11	01/16/23 04:42	5

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13500	F1	99.2	mg/Kg			01/17/23 12:14	20

Client Sample ID: SS03

Lab Sample ID: 890-3832-3

Date Collected: 01/11/23 14:50

Matrix: Solid

Date Received: 01/11/23 16:35

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	37.9		0.998	mg/Kg		01/16/23 14:35	01/17/23 14:53	500
Toluene	208		1.98	mg/Kg		01/18/23 08:29	01/18/23 14:39	1000
Ethylbenzene	157		0.998	mg/Kg		01/16/23 14:35	01/17/23 14:53	500
m-Xylene & p-Xylene	125		2.00	mg/Kg		01/16/23 14:35	01/17/23 14:53	500
o-Xylene	59.7		0.998	mg/Kg		01/16/23 14:35	01/17/23 14:53	500
Xylenes, Total	185		2.00	mg/Kg		01/16/23 14:35	01/17/23 14:53	500
Surrogate	%Recovery	Qualifier	Limits					
4-Bromofluorobenzene (Surr)	538	S1+	70 - 130					
1,4-Difluorobenzene (Surr)	91		70 - 130					
						Prepared	Analyzed	Dil Fac
						01/13/23 13:50	01/16/23 17:47	100
						01/13/23 13:50	01/16/23 17:47	100

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	588		2.00	mg/Kg			01/17/23 14:40	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: SC Federal Battery

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

Client Sample ID: SS03

Lab Sample ID: 890-3832-3

Date Collected: 01/11/23 14:50

Matrix: Solid

Date Received: 01/11/23 16:35

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	33400		500	mg/Kg			01/16/23 16:51	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	7160		500	mg/Kg		01/13/23 13:11	01/16/23 02:34	10
Diesel Range Organics (Over C10-C28)	23100		500	mg/Kg		01/13/23 13:11	01/16/23 02:34	10
Oil Range Organics (Over C28-C36)	3180		500	mg/Kg		01/13/23 13:11	01/16/23 02:34	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	193	S1+	70 - 130			01/13/23 13:11	01/16/23 02:34	10
o-Terphenyl	167	S1+	70 - 130			01/13/23 13:11	01/16/23 02:34	10

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7050		50.4	mg/Kg			01/17/23 12:33	10

Client Sample ID: SS04

Lab Sample ID: 890-3832-4

Date Collected: 01/11/23 14:52

Matrix: Solid

Date Received: 01/11/23 16:35

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	39.8		1.00	mg/Kg		01/16/23 14:35	01/17/23 15:14	500
Toluene	229		1.99	mg/Kg		01/18/23 08:29	01/18/23 15:00	1000
Ethylbenzene	193		1.00	mg/Kg		01/16/23 14:35	01/17/23 15:14	500
m-Xylene & p-Xylene	155		2.00	mg/Kg		01/16/23 14:35	01/17/23 15:14	500
o-Xylene	74.9		1.00	mg/Kg		01/16/23 14:35	01/17/23 15:14	500
Xylenes, Total	230		2.00	mg/Kg		01/16/23 14:35	01/17/23 15:14	500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	522	S1+	70 - 130			01/13/23 13:50	01/16/23 18:08	100
1,4-Difluorobenzene (Surr)	77		70 - 130			01/13/23 13:50	01/16/23 18:08	100

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	692		2.00	mg/Kg			01/17/23 14:40	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	51300		500	mg/Kg			01/16/23 16:51	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	9390		500	mg/Kg		01/13/23 13:11	01/16/23 02:56	10
Diesel Range Organics (Over C10-C28)	37000		500	mg/Kg		01/13/23 13:11	01/16/23 02:56	10

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Client Sample Results

Client: Ensolum
Project/Site: SC Federal Battery

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

Client Sample ID: SS04

Lab Sample ID: 890-3832-4

Date Collected: 01/11/23 14:52

Matrix: Solid

Date Received: 01/11/23 16:35

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil 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

Lab Sample ID: 890-3832-5

Date Collected: 01/11/23 14:55

Matrix: Solid

Date Received: 01/11/23 16:35

Sample Depth: 0.5'

Method: SW846 8021B - Volatile Organic Compounds (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 - Total BTEX Calculation

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 Organics (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 - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		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
Oil 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 Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	123		5.03	mg/Kg			01/17/23 12:57	1

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Client Sample Results

Client: Ensolum
Project/Site: SC Federal Battery

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

Client Sample ID: SS06

Lab Sample ID: 890-3832-6

Date Collected: 01/11/23 14:57

Matrix: Solid

Date Received: 01/11/23 16:35

Sample Depth: 0.5'

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

Analyte	Result	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 - Total BTEX Calculation

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 - Diesel Range Organics (DRO) (GC)

Analyte	Result	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 - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/13/23 13:11	01/15/23 23:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/13/23 13:11	01/15/23 23:20	1
Oil 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 Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	60.4		5.00	mg/Kg			01/17/23 13:03	1

Client Sample ID: SS07

Lab Sample ID: 890-3832-7

Date Collected: 01/11/23 14:59

Matrix: Solid

Date Received: 01/11/23 16:35

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0502	U **	0.0502	mg/Kg		01/13/23 13:50	01/16/23 15:42	25
Toluene	0.0522		0.0502	mg/Kg		01/13/23 13:50	01/16/23 15:42	25
Ethylbenzene	<0.0502	U **	0.0502	mg/Kg		01/13/23 13:50	01/16/23 15:42	25
m-Xylene & p-Xylene	<0.100	U	0.100	mg/Kg		01/13/23 13:50	01/16/23 15:42	25
o-Xylene	<0.0502	U	0.0502	mg/Kg		01/13/23 13:50	01/16/23 15:42	25
Xylenes, Total	<0.100	U	0.100	mg/Kg		01/13/23 13:50	01/16/23 15:42	25

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

Client: Ensolum
Project/Site: SC Federal Battery

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

Client Sample ID: SS07

Lab Sample ID: 890-3832-7

Date Collected: 01/11/23 14:59

Matrix: Solid

Date Received: 01/11/23 16:35

Sample Depth: 0.5'

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 BTEX - Total BTEX Calculation

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 - Diesel Range Organics (DRO) (GC)

Analyte	Result	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 - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/13/23 13:11	01/15/23 23:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/13/23 13:11	01/15/23 23:41	1
Oil 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

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

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

Lab Sample ID: 890-3832-8

Date Collected: 01/11/23 15:05

Matrix: Solid

Date Received: 01/11/23 16:35

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U *+ F2 F1	0.00202	mg/Kg		01/13/23 13:50	01/16/23 15:01	1
Toluene	<0.00202	U F2 F1	0.00202	mg/Kg		01/13/23 13:50	01/16/23 15:01	1
Ethylbenzene	<0.00202	U *+ F2 F1	0.00202	mg/Kg		01/13/23 13:50	01/16/23 15:01	1
m-Xylene & p-Xylene	<0.00403	U F2 F1	0.00403	mg/Kg		01/13/23 13:50	01/16/23 15:01	1
o-Xylene	<0.00202	U F2 F1	0.00202	mg/Kg		01/13/23 13:50	01/16/23 15:01	1
Xylenes, Total	<0.00403	U F2 F1	0.00403	mg/Kg		01/13/23 13:50	01/16/23 15:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	01/13/23 13:50	01/16/23 15:01	1
1,4-Difluorobenzene (Surr)	101		70 - 130	01/13/23 13:50	01/16/23 15:01	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			01/17/23 14:40	1

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

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

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Client Sample Results

Client: Ensolum
Project/Site: SC Federal Battery

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

Client Sample ID: SS08

Lab Sample ID: 890-3832-8

Date Collected: 01/11/23 15:05

Matrix: Solid

Date Received: 01/11/23 16:35

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		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
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/13/23 13:11	01/16/23 00:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130			01/13/23 13:11	01/16/23 00:02	1
o-Terphenyl	141	S1+	70 - 130			01/13/23 13:11	01/16/23 00:02	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	41.1		4.97	mg/Kg			01/17/23 13:16	1

Surrogate Summary

Client: Ensolum
Project/Site: SC Federal Battery

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

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-3832-1	SS01	469 S1+	109
890-3832-2	SS02	114	105
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
890-3832-7	SS07	116	118
890-3832-8	SS08	112	101
890-3832-8 MS	SS08	107	102
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
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			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (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+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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QC Sample Results

Client: Ensolum
Project/Site: SC Federal Battery

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

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-43910/5-A

Matrix: Solid

Analysis Batch: 43961

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 43910

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/13/23 13:50	01/16/23 14:39	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/13/23 13:50	01/16/23 14:39	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/13/23 13:50	01/16/23 14:39	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/13/23 13:50	01/16/23 14:39	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/13/23 13:50	01/16/23 14:39	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/13/23 13:50	01/16/23 14:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	01/13/23 13:50	01/16/23 14:39	1
1,4-Difluorobenzene (Surr)	100		70 - 130	01/13/23 13:50	01/16/23 14:39	1

Lab Sample ID: LCS 880-43910/1-A

Matrix: Solid

Analysis Batch: 43961

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 43910

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1229		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
m-Xylene & p-Xylene	0.200	0.2218		mg/Kg		111	70 - 130
o-Xylene	0.100	0.1119		mg/Kg		112	70 - 130

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

Lab Sample ID: LCSD 880-43910/2-A

Matrix: Solid

Analysis Batch: 43961

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 43910

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1348	*+	mg/Kg		135	70 - 130	9	35
Toluene	0.100	0.1189		mg/Kg		119	70 - 130	5	35
Ethylbenzene	0.100	0.1308	*+	mg/Kg		131	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.2375		mg/Kg		119	70 - 130	7	35
o-Xylene	0.100	0.1194		mg/Kg		119	70 - 130	7	35

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

Lab Sample ID: 890-3832-8 MS

Matrix: Solid

Analysis Batch: 43961

Client Sample ID: SS08

Prep Type: Total/NA

Prep Batch: 43910

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00202	U *+ F2 F1	0.101	0.09977		mg/Kg		99	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: SC Federal Battery

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

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

Lab Sample ID: 890-3832-8 MS

Client Sample ID: SS08

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 43961

Prep Batch: 43910

Rec

	Sample	Sample	Spike	MS	MS			%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Toluene	<0.00202	U F2 F1	0.101	0.07955		mg/Kg		79	70 - 130	
Ethylbenzene	<0.00202	U *+ F2 F1	0.101	0.08884		mg/Kg		88	70 - 130	
m-Xylene & p-Xylene	<0.00403	U F2 F1	0.202	0.1628		mg/Kg		81	70 - 130	
o-Xylene	<0.00202	U F2 F1	0.101	0.08464		mg/Kg		84	70 - 130	
Surrogate	MS %Recovery	MS Qualifier	Limits							
4-Bromofluorobenzene (Surr)	107		70 - 130							
1,4-Difluorobenzene (Surr)	102		70 - 130							

Lab Sample ID: 890-3832-8 MSD

Client Sample ID: SS08

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 43961

Prep Batch: 43910

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limits
	Result	Qualifier	Added	Result	Qualifier				Limits		
Benzene	<0.00202	U *+ F2	0.0990	0.007699	F2 F1	mg/Kg		8	70 - 130	171	35
Toluene	<0.00202	U F2 F1	0.0990	0.01331	F2 F1	mg/Kg		13	70 - 130	143	35
Ethylbenzene	<0.00202	U *+ F2	0.0990	0.007250	F2 F1	mg/Kg		7	70 - 130	170	35
m-Xylene & p-Xylene	<0.00403	U F2 F1	0.198	0.007591	F2 F1	mg/Kg		4	70 - 130	182	35
o-Xylene	<0.00202	U F2 F1	0.0990	0.003161	F2 F1	mg/Kg		3	70 - 130	186	35
Surrogate	MSD	MSD									
	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	109		70 - 130								
1,4-Difluorobenzene (Surr)	98		70 - 130								

Lab Sample ID: MB 880-43991/5-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 44129

Prep Batch: 43991

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Benzene	<0.00200	U	0.00200	mg/Kg		01/16/23 14:35	01/17/23 12:29	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/16/23 14:35	01/17/23 12:29	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/16/23 14:35	01/17/23 12:29	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/16/23 14:35	01/17/23 12:29	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/16/23 14:35	01/17/23 12:29	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/16/23 14:35	01/17/23 12:29	1
Surrogate	MB	MB	Limits			Prepared	Analyzed	Dil Fac
%Recovery	Qualifier							
4-Bromofluorobenzene (Surr)	85		70 - 130			01/16/23 14:35	01/17/23 12:29	1
1,4-Difluorobenzene (Surr)	90		70 - 130			01/16/23 14:35	01/17/23 12:29	1

Lab Sample ID: LCS 880-43991/1-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 44129

Prep Batch: 43991

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09402		mg/Kg		94	70 - 130

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QC Sample Results

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 880-43991/1-A

Matrix: Solid

Analysis Batch: 44129

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 43991

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: LCSD 880-43991/2-A

Matrix: Solid

Analysis Batch: 44129

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 43991

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1023		mg/Kg		102	70 - 130	8	35
Toluene	0.100	0.1067		mg/Kg		107	70 - 130	3	35
Ethylbenzene	0.100	0.09902		mg/Kg		99	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2172		mg/Kg		109	70 - 130	1	35
o-Xylene	0.100	0.1197		mg/Kg		120	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 890-3838-A-61-E MS

Matrix: Solid

Analysis Batch: 44129

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 43991

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U F1	0.0998	0.06666	F1	mg/Kg		67	70 - 130
Toluene	<0.00199	U	0.0998	0.08616		mg/Kg		86	70 - 130
Ethylbenzene	<0.00199	U	0.0998	0.09887		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1769		mg/Kg		89	70 - 130
o-Xylene	<0.00199	U	0.0998	0.09305		mg/Kg		93	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	84		70 - 130

Lab Sample ID: 890-3838-A-61-F MSD

Matrix: Solid

Analysis Batch: 44129

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 43991

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.100	0.06608	F1	mg/Kg		66	70 - 130	1	35
Toluene	<0.00199	U	0.100	0.07566		mg/Kg		76	70 - 130	13	35
Ethylbenzene	<0.00199	U	0.100	0.08076		mg/Kg		81	70 - 130	20	35
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1847		mg/Kg		92	70 - 130	4	35

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QC Sample Results

Client: Ensolum
Project/Site: SC Federal Battery

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

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

Lab Sample ID: 890-3838-A-61-F MSD

Matrix: Solid

Analysis Batch: 44129

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 43991

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
o-Xylene	<0.00199	U	0.100	0.1021		mg/Kg		102	70 - 130	9	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130								
1,4-Difluorobenzene (Surr)	93		70 - 130								

Lab Sample ID: MB 880-44226/5-A

Matrix: Solid

Analysis Batch: 44223

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 44226

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/18/23 08:29	01/18/23 11:41	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/18/23 08:29	01/18/23 11:41	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/18/23 08:29	01/18/23 11:41	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/18/23 08:29	01/18/23 11:41	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/18/23 08:29	01/18/23 11:41	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/18/23 08:29	01/18/23 11:41	1
Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	82		70 - 130	01/18/23 08:29	01/18/23 11:41	1		
1,4-Difluorobenzene (Surr)	90		70 - 130	01/18/23 08:29	01/18/23 11:41	1		

Lab Sample ID: LCS 880-44226/1-A

Matrix: Solid

Analysis Batch: 44223

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 44226

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09903		mg/Kg		99	70 - 130	4	35
Toluene	0.100	0.09706		mg/Kg		97	70 - 130	12	35
Ethylbenzene	0.100	0.08273		mg/Kg		83	70 - 130	24	35
m-Xylene & p-Xylene	0.200	0.1705		mg/Kg		85	70 - 130	32	35
o-Xylene	0.100	0.09254		mg/Kg		93	70 - 130	33	35
Surrogate	LCS %Recovery	LCS 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

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 44226

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	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

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QC Sample Results

Client: Ensolum
Project/Site: SC Federal Battery

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

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

Lab Sample ID: LCSD 880-44226/2-A

Matrix: Solid

Analysis Batch: 44223

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 44226

	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

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 44226

	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
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 890-3860-A-1-F MSD

Matrix: Solid

Analysis Batch: 44223

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

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-A

Matrix: Solid

Analysis Batch: 43947

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 43909

	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	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/13/23 13:11	01/15/23 19:47		1	

	MB	MB								
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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QC Sample Results

Client: Ensolum
Project/Site: SC Federal Battery

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

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

Lab Sample ID: MB 880-43909/1-A

Matrix: Solid

Analysis Batch: 43947

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 43909

	MB	MB								
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil	Fac			
<i>o</i> -Terphenyl	227	S1+	70 - 130	01/13/23 13:11	01/15/23 19:47	1				

Lab Sample ID: LCS 880-43909/2-A

Matrix: Solid

Analysis Batch: 43947

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 43909

			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	945.3		mg/Kg		95	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	932.4		mg/Kg		93	70 - 130		
Surrogate	LCS	LCS									
	%Recovery	Qualifier	Limits								
1-Chlorooctane	104		70 - 130								
<i>o</i> -Terphenyl	126		70 - 130								

Lab Sample ID: LCSD 880-43909/3-A

Matrix: Solid

Analysis Batch: 43947

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 43909

			Spike	LCSD	LCSD				%Rec		RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10			1000	907.9		mg/Kg		91	70 - 130	4	20	
Diesel Range Organics (Over C10-C28)			1000	939.3		mg/Kg		94	70 - 130	1	20	
Surrogate	LCSD	LCSD										
	%Recovery	Qualifier	Limits									
1-Chlorooctane	105		70 - 130									
<i>o</i> -Terphenyl	126		70 - 130									

Lab Sample ID: 890-3831-A-1-B MS

Matrix: Solid

Analysis Batch: 43947

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 43909

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	907.3		mg/Kg		88	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	998	1114		mg/Kg		108	70 - 130		
Surrogate	MS	MS									
	%Recovery	Qualifier	Limits								
1-Chlorooctane	102		70 - 130								
<i>o</i> -Terphenyl	114		70 - 130								

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QC Sample Results

Client: Ensolum
Project/Site: SC Federal Battery

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

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

Lab Sample ID: 890-3831-A-1-C MSD

Matrix: Solid

Analysis Batch: 43947

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 43909

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	944.2		mg/Kg		92	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	<49.9	U	997	1175		mg/Kg		115	70 - 130	5	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	107		70 - 130								
o-Terphenyl	119		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-43971/1-A

Matrix: Solid

Analysis Batch: 44147

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			01/17/23 10:03	1

Lab Sample ID: LCS 880-43971/2-A

Matrix: Solid

Analysis Batch: 44147

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	254.4		mg/Kg		102	90 - 110

Lab Sample ID: LCSD 880-43971/3-A

Matrix: Solid

Analysis Batch: 44147

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

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

Lab Sample ID: 890-3832-2 MS

Matrix: Solid

Analysis Batch: 44147

Client Sample ID: SS02

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	13500	F1	4960	20300	F1	mg/Kg		137	90 - 110

Lab Sample ID: 890-3832-2 MSD

Matrix: Solid

Analysis Batch: 44147

Client Sample ID: SS02

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	13500	F1	4960	20280	F1	mg/Kg		137	90 - 110	0	20

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QC Association Summary

Client: Ensolum
Project/Site: SC Federal Battery

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	Prep Type	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	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	
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

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: SC Federal Battery

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

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	Prep Type	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

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3832-3	SS03	Total/NA	Solid	8021B	44226
890-3832-4	SS04	Total/NA	Solid	8021B	44226
MB 880-44226/5-A	Method Blank	Total/NA	Solid	8021B	44226
LCS 880-44226/1-A	Lab Control Sample	Total/NA	Solid	8021B	44226
LCSD 880-44226/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	44226
890-3860-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	44226
890-3860-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	44226

Prep Batch: 44226

Lab Sample ID	Client Sample ID	Prep Type	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	

Eurofins Carlsbad

QC Association Summary

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

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3832-1	SS01	Total/NA	Solid	8015 NM	
890-3832-2	SS02	Total/NA	Solid	8015 NM	
890-3832-3	SS03	Total/NA	Solid	8015 NM	
890-3832-4	SS04	Total/NA	Solid	8015 NM	
890-3832-5	SS05	Total/NA	Solid	8015 NM	
890-3832-6	SS06	Total/NA	Solid	8015 NM	
890-3832-7	SS07	Total/NA	Solid	8015 NM	
890-3832-8	SS08	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 43971

Lab Sample ID	Client Sample ID	Prep Type	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	Prep Type	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

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: SC Federal Battery

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

HPLC/IC (Continued)

Analysis Batch: 44147 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3832-7	SS07	Soluble	Solid	300.0	43971
890-3832-8	SS08	Soluble	Solid	300.0	43971
MB 880-43971/1-A	Method Blank	Soluble	Solid	300.0	43971
LCS 880-43971/2-A	Lab Control Sample	Soluble	Solid	300.0	43971
LCSD 880-43971/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	43971
890-3832-2 MS	SS02	Soluble	Solid	300.0	43971
890-3832-2 MSD	SS02	Soluble	Solid	300.0	43971

Lab Chronicle

Client: Ensolum
Project/Site: SC Federal Battery

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

Client Sample ID: SS01

Date Collected: 01/11/23 14:45

Date Received: 01/11/23 16:35

Lab Sample ID: 890-3832-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 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 17:05	MNR	EET MID
Total/NA	Prep	5035			5.02 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 14:12	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			10.03 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 02:12	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		10			44147	01/17/23 12:08	CH	EET MID

Client Sample ID: SS02

Date Collected: 01/11/23 14:47

Date Received: 01/11/23 16:35

Lab Sample ID: 890-3832-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	CH	EET MID

Client Sample ID: SS03

Date Collected: 01/11/23 14:50

Date Received: 01/11/23 16:35

Lab Sample ID: 890-3832-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 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 17:47	MNR	EET MID
Total/NA	Prep	5035			5.01 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 14:53	MNR	EET MID
Total/NA	Prep	5035			5.05 g	5 mL	44226	01/18/23 08:29	MNR	EET MID
Total/NA	Analysis	8021B		1000	5 mL	5 mL	44223	01/18/23 14:39	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			10.00 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 02:34	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	43971	01/16/23 09:22	KS	EET MID
Soluble	Analysis	300.0		10			44147	01/17/23 12:33	CH	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: SC Federal Battery

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

Client Sample ID: SS04

Lab Sample ID: 890-3832-4

Date Collected: 01/11/23 14:52

Matrix: Solid

Date Received: 01/11/23 16:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 MID
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 MID
Total/NA	Analysis	8021B		1000	5 mL	5 mL	44223	01/18/23 15:00	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		10	1 uL	1 uL	43947	01/16/23 02:56	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		10			44147	01/17/23 12:39	CH	EET MID

Client Sample ID: SS05

Lab Sample ID: 890-3832-5

Date Collected: 01/11/23 14:55

Matrix: Solid

Date Received: 01/11/23 16:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	CH	EET MID

Client Sample ID: SS06

Lab Sample ID: 890-3832-6

Date Collected: 01/11/23 14:57

Matrix: Solid

Date Received: 01/11/23 16:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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		25	5 mL	5 mL	43961	01/16/23 15:21	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 23:20	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	43971	01/16/23 09:22	KS	EET MID
Soluble	Analysis	300.0		1			44147	01/17/23 13:03	CH	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: SC Federal Battery

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

Client Sample ID: SS07

Lab Sample ID: 890-3832-7

Date Collected: 01/11/23 14:59

Matrix: Solid

Date Received: 01/11/23 16:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	CH	EET MID

Client Sample ID: SS08

Lab Sample ID: 890-3832-8

Date Collected: 01/11/23 15:05

Matrix: Solid

Date Received: 01/11/23 16:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	CH	EET MID

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: SC Federal Battery

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

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: Ensolum
Project/Site: SC Federal Battery

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

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: SC Federal Battery

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3832-1	SS01	Solid	01/11/23 14:45	01/11/23 16:35	0.5'
890-3832-2	SS02	Solid	01/11/23 14:47	01/11/23 16:35	0.5'
890-3832-3	SS03	Solid	01/11/23 14:50	01/11/23 16:35	0.5'
890-3832-4	SS04	Solid	01/11/23 14:52	01/11/23 16:35	0.5'
890-3832-5	SS05	Solid	01/11/23 14:55	01/11/23 16:35	0.5'
890-3832-6	SS06	Solid	01/11/23 14:57	01/11/23 16:35	0.5'
890-3832-7	SS07	Solid	01/11/23 14:59	01/11/23 16:35	0.5'
890-3832-8	SS08	Solid	01/11/23 15:05	01/11/23 16:35	0.5'

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3832-1

SDG Number: 03D2057069

Login Number: 3832

List Number: 1

Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3832-1

SDG Number: 03D2057069

Login Number: 3832

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

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



Environment Testing

- 1
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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

Eurofins Carlsbad

Job Notes

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

Authorization



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

Authorized for release by
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Client: Ensolum
Project/Site: SC Federal Battery (Maverick)

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

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Definitions/Glossary

Client: Ensolum

Project/Site: SC Federal Battery (Maverick)

Job ID: 890-4390-1

SDG: Lea County NM

Qualifiers

GC VOA

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

GC Semi VOA

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
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)
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

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Case Narrative

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

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

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.

Client Sample Results

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

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

Client Sample ID: BH01

Lab Sample ID: 890-4390-1

Date Collected: 03/22/23 11:20

Matrix: Solid

Date Received: 03/22/23 15:42

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.09		0.198	mg/Kg		03/29/23 16:35	04/03/23 18:42	100
Toluene	75.8		0.994	mg/Kg		04/04/23 10:00	04/04/23 13:07	500
Ethylbenzene	84.2		0.994	mg/Kg		04/04/23 10:00	04/04/23 13:07	500
m-Xylene & p-Xylene	73.0		1.99	mg/Kg		04/04/23 10:00	04/04/23 13:07	500
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)	277	S1+	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 - Total BTEX Calculation

Analyte	Result	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 Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	10600		249	mg/Kg			03/29/23 14:59	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	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
Oil 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 Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4470	F1	25.1	mg/Kg			04/01/23 00:00	5

Client Sample ID: BH01A

Lab Sample ID: 890-4390-2

Date Collected: 03/22/23 11:40

Matrix: Solid

Date Received: 03/22/23 15:42

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0762		0.0398	mg/Kg		03/29/23 16:35	04/03/23 15:55	20
Toluene	0.150		0.0398	mg/Kg		03/29/23 16:35	04/03/23 15:55	20
Ethylbenzene	0.486		0.0398	mg/Kg		03/29/23 16:35	04/03/23 15:55	20
m-Xylene & p-Xylene	0.507		0.0795	mg/Kg		03/29/23 16:35	04/03/23 15:55	20
o-Xylene	0.274		0.0398	mg/Kg		03/29/23 16:35	04/03/23 15:55	20
Xylenes, Total	0.781		0.0795	mg/Kg		03/29/23 16:35	04/03/23 15:55	20

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Client Sample Results

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

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

Client Sample ID: BH01A

Lab Sample ID: 890-4390-2

Date Collected: 03/22/23 11:40

Matrix: Solid

Date Received: 03/22/23 15:42

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

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	1.49		0.0795	mg/Kg			04/03/23 16:48	1

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

Analyte	Result	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 - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *+	49.8	mg/Kg		03/28/23 10:11	03/29/23 05:38	1
Diesel Range Organics (Over C10-C28)	258	*+	49.8	mg/Kg		03/28/23 10:11	03/29/23 05:38	1
Oil 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 Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2600		25.0	mg/Kg			04/01/23 00:14	5

Client Sample ID: BH02

Lab Sample ID: 890-4390-3

Date Collected: 03/22/23 12:00

Matrix: Solid

Date Received: 03/22/23 15:42

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0404		0.0399	mg/Kg		03/29/23 16:35	04/03/23 16:16	20
Toluene	<0.0399	U	0.0399	mg/Kg		03/29/23 16:35	04/03/23 16:16	20
Ethylbenzene	0.156		0.0399	mg/Kg		03/29/23 16:35	04/03/23 16:16	20
m-Xylene & p-Xylene	0.0863		0.0798	mg/Kg		03/29/23 16:35	04/03/23 16:16	20
o-Xylene	0.0523		0.0399	mg/Kg		03/29/23 16:35	04/03/23 16:16	20
Xylenes, Total	0.139		0.0798	mg/Kg		03/29/23 16:35	04/03/23 16:16	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130	03/29/23 16:35	04/03/23 16:16	20
1,4-Difluorobenzene (Surr)	103		70 - 130	03/29/23 16:35	04/03/23 16:16	20

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.335		0.0798	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	<49.9	U	49.9	mg/Kg			03/29/23 14:59	1

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Client Sample Results

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

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

Client Sample ID: BH02

Lab Sample ID: 890-4390-3

Date Collected: 03/22/23 12:00

Matrix: Solid

Date Received: 03/22/23 15:42

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U **	49.9	mg/Kg		03/28/23 10:11	03/29/23 06:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U **	49.9	mg/Kg		03/28/23 10:11	03/29/23 06:21	1
Oil 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

Lab Sample ID: 890-4390-4

Date Collected: 03/22/23 12:20

Matrix: Solid

Date Received: 03/22/23 15:42

Sample Depth: 4'

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		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

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	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 - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U **	49.8	mg/Kg		03/28/23 10:11	03/29/23 04:54	1
Diesel Range Organics (Over C10-C28)	317	**	49.8	mg/Kg		03/28/23 10:11	03/29/23 04:54	1
Oil Range Organics (Over C28-C36)	54.7		49.8	mg/Kg		03/28/23 10:11	03/29/23 04:54	1
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

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Client Sample Results

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

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

Client Sample ID: BH02A

Lab Sample ID: 890-4390-4

Date Collected: 03/22/23 12:20

Matrix: Solid

Date Received: 03/22/23 15:42

Sample Depth: 4'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9090		49.5	mg/Kg			04/01/23 00:32	10

Client Sample ID: BH03

Lab Sample ID: 890-4390-5

Date Collected: 03/22/23 12:40

Matrix: Solid

Date Received: 03/22/23 15:42

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.277		0.202	mg/Kg		03/29/23 16:35	04/03/23 19:02	100
Toluene	20.0		0.202	mg/Kg		03/29/23 16:35	04/03/23 19:02	100
Ethylbenzene	34.3		0.202	mg/Kg		03/29/23 16:35	04/03/23 19:02	100
m-Xylene & p-Xylene	28.3		0.404	mg/Kg		03/29/23 16:35	04/03/23 19:02	100
o-Xylene	13.1		0.202	mg/Kg		03/29/23 16:35	04/03/23 19:02	100
Xylenes, Total	41.4		0.404	mg/Kg		03/29/23 16:35	04/03/23 19:02	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	187	S1+	70 - 130			03/29/23 16:35	04/03/23 19:02	100
1,4-Difluorobenzene (Surr)	85		70 - 130			03/29/23 16:35	04/03/23 19:02	100

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	96.0		0.404	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	9690		249	mg/Kg			03/29/23 14:59	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1280	*+	249	mg/Kg		03/28/23 10:11	03/29/23 03:50	5
Diesel Range Organics (Over C10-C28)	7400	*+	249	mg/Kg		03/28/23 10:11	03/29/23 03:50	5
Oil Range Organics (Over C28-C36)	1010		249	mg/Kg		03/28/23 10:11	03/29/23 03:50	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	141	S1+	70 - 130			03/28/23 10:11	03/29/23 03:50	5
o-Terphenyl	129		70 - 130			03/28/23 10:11	03/29/23 03:50	5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5190		50.1	mg/Kg			04/01/23 00:37	10

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Client Sample Results

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

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

Client Sample ID: BH03A

Lab Sample ID: 890-4390-6

Date Collected: 03/22/23 13:00

Matrix: Solid

Date Received: 03/22/23 15:42

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0396	U	0.0396	mg/Kg		03/29/23 16:35	04/03/23 16:58	20
Toluene	<0.0396	U	0.0396	mg/Kg		03/29/23 16:35	04/03/23 16:58	20
Ethylbenzene	<0.0396	U	0.0396	mg/Kg		03/29/23 16:35	04/03/23 16:58	20
m-Xylene & p-Xylene	<0.0792	U	0.0792	mg/Kg		03/29/23 16:35	04/03/23 16:58	20
o-Xylene	<0.0396	U	0.0396	mg/Kg		03/29/23 16:35	04/03/23 16:58	20
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)	119		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 - Total BTEX Calculation

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 - Diesel Range Organics (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 - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U **	50.0	mg/Kg		03/28/23 10:11	03/29/23 05:16	1
Diesel Range Organics (Over C10-C28)	227	**	50.0	mg/Kg		03/28/23 10:11	03/29/23 05:16	1
Oil 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 Chromatography - Soluble

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 Sample ID: 890-4390-7

Date Collected: 03/22/23 13:20

Matrix: Solid

Date Received: 03/22/23 15:42

Sample Depth: 1'

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

Analyte	Result	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
Toluene	<0.0996	U	0.0996	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
m-Xylene & p-Xylene	<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
Xylenes, Total	<0.199	U	0.199	mg/Kg		03/29/23 16:35	04/03/23 18:21	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	03/29/23 16:35	04/03/23 18:21	50

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Client Sample Results

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

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

Client Sample ID: BH04

Lab Sample ID: 890-4390-7

Date Collected: 03/22/23 13:20

Matrix: Solid

Date Received: 03/22/23 15:42

Sample Depth: 1'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	97		70 - 130	03/29/23 16:35	04/03/23 18:21	50

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.199	U	0.199	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	1120		50.0	mg/Kg			03/29/23 14:59	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *+	50.0	mg/Kg		03/28/23 10:11	03/29/23 04:11	1
Diesel Range Organics (Over C10-C28)	959	*+	50.0	mg/Kg		03/28/23 10:11	03/29/23 04:11	1
Oil Range Organics (Over C28-C36)	160		50.0	mg/Kg		03/28/23 10:11	03/29/23 04:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130			03/28/23 10:11	03/29/23 04:11	1
o-Terphenyl	116		70 - 130			03/28/23 10:11	03/29/23 04:11	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7790		49.9	mg/Kg			04/01/23 00:46	10

Client Sample ID: BH04A

Lab Sample ID: 890-4390-8

Date Collected: 03/22/23 13:40

Matrix: Solid

Date Received: 03/22/23 15:42

Sample Depth: 4'

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 Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0988		0.0795	mg/Kg			04/04/23 10:18	1

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Client Sample Results

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

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

Client Sample ID: BH04A

Lab Sample ID: 890-4390-8

Date Collected: 03/22/23 13:40

Matrix: Solid

Date Received: 03/22/23 15:42

Sample Depth: 4'

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

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 - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U **	49.9	mg/Kg		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
Oil 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 Fac
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

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7810		50.0	mg/Kg			04/01/23 00:51	10

Client Sample ID: BH05

Lab Sample ID: 890-4390-9

Date Collected: 03/22/23 14:00

Matrix: Solid

Date Received: 03/22/23 15:42

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0399	U	0.0399	mg/Kg		03/29/23 16:35	04/03/23 17:39	20
Toluene	<0.0399	U	0.0399	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
m-Xylene & p-Xylene	<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
Xylenes, Total	<0.0798	U	0.0798	mg/Kg		03/29/23 16:35	04/03/23 17:39	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130			03/29/23 16:35	04/03/23 17:39	20
1,4-Difluorobenzene (Surr)	102		70 - 130			03/29/23 16:35	04/03/23 17:39	20

Method: TAL SOP Total BTEX - Total BTEX Calculation

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 - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	805		49.9	mg/Kg			03/29/23 14:59	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U **	49.9	mg/Kg		03/28/23 10:11	03/29/23 04:33	1
Diesel Range Organics (Over C10-C28)	697	**	49.9	mg/Kg		03/28/23 10:11	03/29/23 04:33	1
Oil Range Organics (Over C28-C36)	108		49.9	mg/Kg		03/28/23 10:11	03/29/23 04:33	1

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Client Sample Results

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

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

Client Sample ID: BH05

Lab Sample ID: 890-4390-9

Date Collected: 03/22/23 14:00

Matrix: Solid

Date Received: 03/22/23 15:42

Sample 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, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4030		25.2	mg/Kg			04/01/23 00:55	5

Client Sample ID: BH05A

Lab Sample ID: 890-4390-10

Date Collected: 03/22/23 14:20

Matrix: Solid

Date Received: 03/22/23 15:42

Sample Depth: 4'

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		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 Calculation

Analyte	Result	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	56.7		50.0	mg/Kg			03/29/23 14:59	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U **	50.0	mg/Kg		03/28/23 10:11	03/29/23 06:44	1
Diesel Range Organics (Over C10-C28)	56.7	**	50.0	mg/Kg		03/28/23 10:11	03/29/23 06:44	1
Oil 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, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7640		50.4	mg/Kg			04/01/23 01:00	10

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Surrogate Summary

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

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

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-26267-A-1-D MS	Matrix Spike	103	91
880-26267-A-1-E MSD	Matrix Spike Duplicate	104	90
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
890-4390-3	BH02	125	103
890-4390-4	BH02A	101	106
890-4390-5	BH03	187 S1+	85
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
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 Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (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			

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QC Sample Results

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

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

Method: 8021B - Volatile Organic Compounds (GC)

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

Matrix: Solid

Analysis Batch: 50118

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 49890

Analyte	MB Result	MB 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

Surrogate	MB %Recovery	MB 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

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 49890

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

Surrogate	LCS %Recovery	LCS 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

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 49890

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%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

Surrogate	LCSD %Recovery	LCSD 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

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 49890

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%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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QC Sample Results

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

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

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

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

Matrix: Solid

Analysis Batch: 50118

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 49890

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.0998	0.09611		mg/Kg		96	70 - 130
m-Xylene & p-Xylene	<0.00401	U	0.200	0.1967		mg/Kg		99	70 - 130
o-Xylene	<0.00200	U	0.0998	0.09628		mg/Kg		96	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

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

Matrix: Solid

Analysis Batch: 50118

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 49890

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	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

Surrogate	MSD %Recovery	MSD 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

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 50148

Analyte	MB Result	MB 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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	04/03/23 09:46	04/04/23 11:21	1
1,4-Difluorobenzene (Surr)	80		70 - 130	04/03/23 09:46	04/04/23 11:21	1

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

Matrix: Solid

Analysis Batch: 50286

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 50148

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%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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QC Sample Results

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

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

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

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

Matrix: Solid

Analysis Batch: 50286

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 50148

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.09584		mg/Kg		96	70 - 130
Surrogate	%Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	97		70 - 130				
1,4-Difluorobenzene (Surr)	90		70 - 130				

Lab Sample ID: LCSD 880-50148/2-A

Matrix: Solid

Analysis Batch: 50286

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 50148

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%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
Surrogate	%Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	93		70 - 130						
1,4-Difluorobenzene (Surr)	91		70 - 130						

Lab Sample ID: 880-26634-A-3-C MS

Matrix: Solid

Analysis Batch: 50286

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 50148

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0996	0.08794		mg/Kg		88	70 - 130
Toluene	<0.00200	U	0.0996	0.09399		mg/Kg		94	70 - 130
Ethylbenzene	<0.00200	U	0.0996	0.08527		mg/Kg		85	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.199	0.1768		mg/Kg		88	70 - 130
o-Xylene	<0.00200	U	0.0996	0.08796		mg/Kg		87	70 - 130
Surrogate	%Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	98		70 - 130						
1,4-Difluorobenzene (Surr)	89		70 - 130						

Lab Sample ID: 880-26634-A-3-D MSD

Matrix: Solid

Analysis Batch: 50286

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 50148

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00200	U	0.0990	0.09928		mg/Kg		100	70 - 130	12	35
Toluene	<0.00200	U	0.0990	0.1068		mg/Kg		108	70 - 130	13	35
Ethylbenzene	<0.00200	U	0.0990	0.1002		mg/Kg		101	70 - 130	16	35
m-Xylene & p-Xylene	<0.00399	U	0.198	0.2049		mg/Kg		103	70 - 130	15	35
o-Xylene	<0.00200	U	0.0990	0.1004		mg/Kg		100	70 - 130	13	35

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QC Sample Results

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

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

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

Lab Sample ID: 880-26634-A-3-D MSD

Matrix: Solid

Analysis Batch: 50286

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 50148

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	89		70 - 130

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

Lab Sample ID: MB 880-49712/1-A

Matrix: Solid

Analysis Batch: 49689

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 49712

	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		03/28/23 10:11	03/28/23 21:43	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/28/23 10:11	03/28/23 21:43	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/28/23 10:11	03/28/23 21:43	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil	Fac
1-Chlorooctane	124		70 - 130			03/28/23 10:11	03/28/23 21:43	1	
o-Terphenyl	153	S1+	70 - 130			03/28/23 10:11	03/28/23 21:43	1	

Lab Sample ID: LCS 880-49712/2-A

Matrix: Solid

Analysis Batch: 49689

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 49712

	Spike	LCS	LCS					%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	1940	*+	mg/Kg		194	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	2086	*+	mg/Kg		209	70 - 130		
Surrogate	%Recovery	Qualifier	Limits						
1-Chlorooctane	139	S1+	70 - 130						
o-Terphenyl	165	S1+	70 - 130						

Lab Sample ID: LCSD 880-49712/3-A

Matrix: Solid

Analysis Batch: 49689

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 49712

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1829	*+	mg/Kg		183	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	1000	1842	*+	mg/Kg		184	70 - 130	12	20
Surrogate	%Recovery	Qualifier	Limits						
1-Chlorooctane	127		70 - 130						
o-Terphenyl	149	S1+	70 - 130						

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QC Sample Results

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

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

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

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

Matrix: Solid

Analysis Batch: 49689

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 49712

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *+	998	1168		mg/Kg		114	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U *+	998	1219		mg/Kg		120	70 - 130		
	MS %Recovery	MS Qualifier	Limits								
Surrogate											
1-Chlorooctane	127		70 - 130								
o-Terphenyl	135	S1+	70 - 130								

Lab Sample ID: 890-4387-A-7-C MSD

Matrix: Solid

Analysis Batch: 49689

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 49712

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	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 %Recovery	MSD Qualifier	Limits								
Surrogate											
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 Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			03/31/23 22:43	1

Lab Sample ID: LCS 880-50009/2-A

Matrix: Solid

Analysis Batch: 50058

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	250	254.8		mg/Kg		102	90 - 110		

Lab Sample ID: LCSD 880-50009/3-A

Matrix: Solid

Analysis Batch: 50058

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	249.9		mg/Kg		100	90 - 110	2	20

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QC Sample Results

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

Analysis Batch: 50058

Client Sample ID: BH01

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	4470	F1	1260	5322	F1	mg/Kg		68	90 - 110		

Lab Sample ID: 890-4390-1 MSD

Matrix: Solid

Analysis Batch: 50058

Client Sample ID: BH01

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	4470	F1	1260	5345	F1	mg/Kg		70	90 - 110	0	20

QC Association Summary

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

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

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	
890-4390-5	BH03	Total/NA	Solid	5035	
890-4390-6	BH03A	Total/NA	Solid	5035	
890-4390-7	BH04	Total/NA	Solid	5035	
890-4390-8	BH04A	Total/NA	Solid	5035	
890-4390-9	BH05	Total/NA	Solid	5035	
890-4390-10	BH05A	Total/NA	Solid	5035	
MB 880-49890/5-A	Method Blank	Total/NA	Solid	5035	
LCS 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	

Analysis Batch: 50118

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	Prep Type	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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QC Association Summary

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

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

GC VOA (Continued)

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

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	

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QC Association Summary

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	

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	Prep Type	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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Lab Chronicle

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

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

Client Sample ID: BH01

Lab Sample ID: 890-4390-1

Date Collected: 03/22/23 11:20

Matrix: Solid

Date Received: 03/22/23 15:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Lab Sample ID: 890-4390-2

Date Collected: 03/22/23 11:40

Matrix: Solid

Date Received: 03/22/23 15:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Lab Sample ID: 890-4390-3

Date Collected: 03/22/23 12:00

Matrix: Solid

Date Received: 03/22/23 15:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Eurofins Carlsbad

Lab Chronicle

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

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

Client Sample ID: BH02A

Lab Sample ID: 890-4390-4

Date Collected: 03/22/23 12:20

Matrix: Solid

Date Received: 03/22/23 15:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Lab Sample ID: 890-4390-5

Date Collected: 03/22/23 12:40

Matrix: Solid

Date Received: 03/22/23 15:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Lab Sample ID: 890-4390-6

Date Collected: 03/22/23 13:00

Matrix: Solid

Date Received: 03/22/23 15:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Lab Sample ID: 890-4390-7

Date Collected: 03/22/23 13:20

Matrix: Solid

Date Received: 03/22/23 15:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Lab Chronicle

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

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

Client Sample ID: BH04

Lab Sample ID: 890-4390-7

Date Collected: 03/22/23 13:20

Matrix: Solid

Date Received: 03/22/23 15:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Lab Sample ID: 890-4390-8

Date Collected: 03/22/23 13:40

Matrix: Solid

Date Received: 03/22/23 15:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Lab Sample ID: 890-4390-9

Date Collected: 03/22/23 14:00

Matrix: Solid

Date Received: 03/22/23 15:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Lab Sample ID: 890-4390-10

Date Collected: 03/22/23 14:20

Matrix: Solid

Date Received: 03/22/23 15:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Lab Chronicle

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

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

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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
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

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Accreditation/Certification Summary

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

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

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

- 1
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Method Summary

Client: Ensolum

Project/Site: SC Federal Battery (Maverick)

Job ID: 890-4390-1

SDG: Lea County NM

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Carlsbad

Sample Summary

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

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4390-1	BH01	Solid	03/22/23 11:20	03/22/23 15:42	1'
890-4390-2	BH01A	Solid	03/22/23 11:40	03/22/23 15:42	4'
890-4390-3	BH02	Solid	03/22/23 12:00	03/22/23 15:42	1'
890-4390-4	BH02A	Solid	03/22/23 12:20	03/22/23 15:42	4'
890-4390-5	BH03	Solid	03/22/23 12:40	03/22/23 15:42	1'
890-4390-6	BH03A	Solid	03/22/23 13:00	03/22/23 15:42	4'
890-4390-7	BH04	Solid	03/22/23 13:20	03/22/23 15:42	1'
890-4390-8	BH04A	Solid	03/22/23 13:40	03/22/23 15:42	4'
890-4390-9	BH05	Solid	03/22/23 14:00	03/22/23 15:42	1'
890-4390-10	BH05A	Solid	03/22/23 14:20	03/22/23 15:42	4'



Environment Testing
Xenco

Chain of Custody

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

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	Kalei Jennings	Bill to: (if different)	Kalei Jennings
Company Name:	Ensolum, LLC	Company Name:	Ensolum, LLC
Address:	601 N Marienfeld St Suite 400	Address:	601 N Marienfeld St Suite 400
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	817-683-2503	Email:	kjennings@ensolum.com, dnikanorov@ensolum.com

Work Order Comments	
Program:	UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:	
Reporting:	Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables:	EDD ☐ ADaPT ☐ Other: _____

Project Name:		SC Federal Battery (Maverick)		Turn Around		ANALYSIS REQUEST																Preservative Codes			
Project Number:		03D2057069		☒ Routine ☐ Rush		Pres. Code																		None: NO DI Water: H ₂ O	
Project Location:		Lea County, NM		Due Date:																				Cool: Cool MeOH: Me	
Sampler's Name:		Dmitry Nikanorov		TAT starts the day received by the lab, if received by 4:30pm																				HCL: HC HNO ₃ : HN	
PO #:																								H ₂ SO ₄ : H ₂ NaOH: Na	
SAMPLE RECEIPT		Temp Blank: Yes No		Wet Ice: Yes No																				H ₃ PO ₄ : HP	
Samples Received Intact:		Yes No		Thermometer ID:		TAM-0002																		NaHSO ₄ : NABIS	
Cooler Custody Seals:		Yes No N/A		Correction Factor:		-0.2																		Na ₂ S ₂ O ₃ : NaSO ₃	
Sample Custody Seals:		Yes No N/A		Temperature Reading:		7.0																		Zn Acetate+NaOH: Zn	
Total Containers:				Corrected Temperature:		6.8																		NaOH+Ascorbic Acid: SAPC	
Sample Identification		Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)											Sample Comments				
BH01		S	3/22/2023	11:20	1'	Grab	1	X	X	X															
BH01A		S	3/22/2023	11:40	4'	Grab	1	X	X	X															
BH02		S	3/22/2023	12:00	1'	Grab	1	X	X	X															
BH02A		S	3/22/2023	12:20	4'	Grab	1	X	X	X															
BH03		S	3/22/2023	12:40	1'	Grab	1	X	X	X															
BH03A		S	3/22/2023	13:00	4'	Grab	1	X	X	X															
BH04		S	3/22/2023	13:20	1'	Grab	1	X	X	X															
BH04A		S	3/22/2023	13:40	4'	Grab	1	X	X	X															
BH05		S	3/22/2023	14:00	1'	Grab	1	X	X	X															
BH05A		S	3/22/2023	14:20	4'	Grab	1	X	X	X															

Total 200.7 / 6010	200.8 / 6020:	8RCRA	13PPM	Texas	11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	SiO ₂	Na	Sr	Ti	Sn	U	V	Zn
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP		6010:	8RCRA	Sb	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Ag	Ti	U	Hg: 1631 / 245.1 / 7470 / 7471											

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>DN</i>	<i>Alexandra Stief</i>	3/22/23 1542			
3					
5					

Revised Date: 08/25/2020 Rev 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4390-1

SDG Number: Lea County NM

Login Number: 4390

List Number: 1

Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4390-1

SDG Number: Lea County NM

Login Number: 4390

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

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



Environment Testing

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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

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

Eurofins Carlsbad**Job Notes**

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

Authorization

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

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

Client: Ensolum
Project/Site: Maverick SC Federal Battery

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

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Definitions/Glossary

Client: Ensolum
Project/Site: Maverick SC Federal Battery

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

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
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

Case Narrative

Client: Ensolum
Project/Site: Maverick SC Federal Battery

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

Job ID: 890-4435-1

Laboratory: Eurofins Carlsbad

Narrative	Job Narrative 890-4435-1
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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.

Client Sample Results

Client: Ensolum
Project/Site: Maverick SC Federal Battery

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

Client Sample ID: FS09

Lab Sample ID: 890-4435-1

Date Collected: 03/28/23 14:00

Matrix: 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	<0.0398	U	0.0398	mg/Kg		04/03/23 12:22	04/04/23 00:43	20
Toluene	0.0872		0.0398	mg/Kg		04/03/23 12:22	04/04/23 00:43	20
Ethylbenzene	0.225		0.0398	mg/Kg		04/03/23 12:22	04/04/23 00:43	20
m-Xylene & p-Xylene	0.513		0.0797	mg/Kg		04/03/23 12:22	04/04/23 00:43	20
o-Xylene	0.254		0.0398	mg/Kg		04/03/23 12:22	04/04/23 00:43	20
Xylenes, Total	0.767		0.0797	mg/Kg		04/03/23 12:22	04/04/23 00:43	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
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 - Total BTEX Calculation

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 - Diesel Range Organics (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 - Diesel Range Organics (DRO) (GC)

Analyte	Result	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
Oil 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 Chromatography - Soluble

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 Sample ID: 890-4435-2

Date Collected: 03/28/23 14:15

Matrix: 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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Client Sample Results

Client: Ensolum
Project/Site: Maverick SC Federal Battery

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

Client Sample ID: FS10

Lab Sample ID: 890-4435-2

Date Collected: 03/28/23 14:15

Matrix: Solid

Date Received: 03/29/23 15:02

Sample Depth: 0.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	161	S1+	70 - 130	04/03/23 12:22	04/04/23 01:04	20
1,4-Difluorobenzene (Surr)	104		70 - 130	04/03/23 12:22	04/04/23 01:04	20
Method: TAL SOP Total BTEX - Total BTEX Calculation						
Analyte	Result	Qualifier	RL	Unit	D	Dil Fac
Total BTEX	2.64		0.0805	mg/Kg		04/04/23 10:41 1
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Dil Fac
Total TPH	430		50.0	mg/Kg		04/03/23 14:32 1
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/31/23 14:31 04/01/23 17:26 1
Diesel Range Organics (Over C10-C28)	374		50.0	mg/Kg		03/31/23 14:31 04/01/23 17:26 1
Oil Range Organics (Over C28-C36)	55.8		50.0	mg/Kg		03/31/23 14:31 04/01/23 17:26 1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	03/31/23 14:31	04/01/23 17:26	1
o-Terphenyl	121		70 - 130	03/31/23 14:31	04/01/23 17:26	1
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Dil Fac
Chloride	3520		25.0	mg/Kg		03/31/23 15:44 5

Client Sample ID: SW01

Lab Sample ID: 890-4435-3

Date Collected: 03/28/23 11:45

Matrix: Solid

Date Received: 03/29/23 15:02

Sample Depth: 0 - 3

Method: SW846 8021B - Volatile Organic Compounds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/03/23 12:22 04/03/23 23:21 1
Toluene	<0.00200	U	0.00200	mg/Kg		04/03/23 12:22 04/03/23 23:21 1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/03/23 12:22 04/03/23 23:21 1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		04/03/23 12:22 04/03/23 23:21 1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/03/23 12:22 04/03/23 23:21 1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		04/03/23 12:22 04/03/23 23:21 1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	04/03/23 12:22	04/03/23 23:21	1
1,4-Difluorobenzene (Surr)	89		70 - 130	04/03/23 12:22	04/03/23 23:21	1
Method: TAL SOP Total BTEX - Total BTEX Calculation						
Analyte	Result	Qualifier	RL	Unit	D	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg		04/04/23 10:41 1

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Client Sample Results

Client: Ensolum
Project/Site: Maverick SC Federal Battery

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

Client Sample ID: SW01

Lab Sample ID: 890-4435-3

Date Collected: 03/28/23 11:45

Matrix: Solid

Date Received: 03/29/23 15:02

Sample Depth: 0 - 3

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			04/03/23 14:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		03/31/23 14:31	04/01/23 18:31	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		03/31/23 14:31	04/01/23 18:31	1
Oil 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 Chromatography - Soluble

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

Lab Sample ID: 890-4435-4

Date Collected: 03/28/23 14:30

Matrix: Solid

Date Received: 03/29/23 15:02

Sample Depth: 0 - 3

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

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 - Total BTEX Calculation

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 Organics (DRO) (GC)

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 - Diesel Range Organics (DRO) (GC)

Analyte	Result	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 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
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		03/31/23 14:31	04/01/23 18:52	1

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Client Sample Results

Client: Ensolum
Project/Site: Maverick SC Federal Battery

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

Client Sample ID: SW02

Lab Sample ID: 890-4435-4

Date Collected: 03/28/23 14:30

Matrix: Solid

Date Received: 03/29/23 15:02

Sample Depth: 0 - 3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	03/31/23 14:31	04/01/23 18:52	1
o-Terphenyl	116		70 - 130	03/31/23 14:31	04/01/23 18:52	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	61.2		5.00	mg/Kg			03/31/23 15:53	1

Client Sample ID: SW03

Lab Sample ID: 890-4435-5

Date Collected: 03/28/23 14:45

Matrix: Solid

Date Received: 03/29/23 15:02

Sample Depth: 0 - 3

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

Analyte	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 00:02	1
Toluene	<0.00199	U	0.00199	mg/Kg		04/03/23 12:22	04/04/23 00:02	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/03/23 12:22	04/04/23 00:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/03/23 12:22	04/04/23 00:02	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		04/03/23 12:22	04/04/23 00:02	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/03/23 12:22	04/04/23 00:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	04/03/23 12:22	04/04/23 00:02	1
1,4-Difluorobenzene (Surr)	85		70 - 130	04/03/23 12:22	04/04/23 00:02	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			04/04/23 10:41	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			04/03/23 14:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		03/31/23 14:31	04/01/23 19:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		03/31/23 14:31	04/01/23 19:14	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/31/23 14:31	04/01/23 19:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	03/31/23 14:31	04/01/23 19:14	1
o-Terphenyl	112		70 - 130	03/31/23 14:31	04/01/23 19:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	80.1		4.97	mg/Kg			03/31/23 15:57	1

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Client Sample Results

Client: Ensolum
Project/Site: Maverick SC Federal Battery

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

Client Sample ID: SW04

Lab Sample ID: 890-4435-6

Date Collected: 03/28/23 13:00

Matrix: Solid

Date Received: 03/29/23 15:02

Sample Depth: 0 - 2

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

Analyte	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)	111		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 - Total BTEX Calculation

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 - Diesel Range Organics (DRO) (GC)

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 - Diesel Range Organics (DRO) (GC)

Analyte	Result	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 19:35	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		03/31/23 14:31	04/01/23 19:35	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		03/31/23 14:31	04/01/23 19:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130			03/31/23 14:31	04/01/23 19:35	1
o-Terphenyl	117		70 - 130			03/31/23 14:31	04/01/23 19:35	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	558		4.96	mg/Kg			03/31/23 16:11	1

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Surrogate Summary

Client: Ensolum
Project/Site: Maverick SC Federal Battery

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

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (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-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (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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QC Sample Results

Client: Ensolum
Project/Site: Maverick SC Federal Battery

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

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-50130/5-A

Matrix: Solid

Analysis Batch: 50119

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 50130

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		04/03/23 08:39	04/03/23 11:01	1
Toluene	<0.00199	U	0.00199	mg/Kg		04/03/23 08:39	04/03/23 11:01	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/03/23 08:39	04/03/23 11:01	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/03/23 08:39	04/03/23 11:01	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		04/03/23 08:39	04/03/23 11:01	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/03/23 08:39	04/03/23 11:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130	04/03/23 08:39	04/03/23 11:01	1
1,4-Difluorobenzene (Surr)	97		70 - 130	04/03/23 08:39	04/03/23 11:01	1

Lab Sample ID: MB 880-50190/5-A

Matrix: Solid

Analysis Batch: 50119

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 50190

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/03/23 12:22	04/03/23 21:38	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/03/23 12:22	04/03/23 21:38	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/03/23 12:22	04/03/23 21:38	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/03/23 12:22	04/03/23 21:38	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/03/23 12:22	04/03/23 21:38	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/03/23 12:22	04/03/23 21:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130	04/03/23 12:22	04/03/23 21:38	1
1,4-Difluorobenzene (Surr)	96		70 - 130	04/03/23 12:22	04/03/23 21:38	1

Lab Sample ID: LCS 880-50190/1-A

Matrix: Solid

Analysis Batch: 50119

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 50190

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%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	0.100	0.1071		mg/Kg		107	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 880-50190/2-A

Matrix: Solid

Analysis Batch: 50119

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 50190

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1016		mg/Kg		102	70 - 130	2	35

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QC Sample Results

Client: Ensolum
Project/Site: Maverick SC Federal Battery

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

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

Lab Sample ID: LCSD 880-50190/2-A

Matrix: Solid

Analysis Batch: 50119

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 50190

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.09788		mg/Kg		98	70 - 130	0	35
Ethylbenzene	0.100	0.09718		mg/Kg		97	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2084		mg/Kg		104	70 - 130	1	35
o-Xylene	0.100	0.1061		mg/Kg		106	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: 890-4448-A-1-E MS

Matrix: Solid

Analysis Batch: 50119

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 50190

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%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

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Lab Sample ID: 890-4448-A-1-F MSD

Matrix: Solid

Analysis Batch: 50119

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 50190

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.0990	0.09507		mg/Kg		96	70 - 130	13	35
Toluene	<0.00202	U	0.0990	0.08885		mg/Kg		90	70 - 130	16	35
Ethylbenzene	<0.00202	U	0.0990	0.08914		mg/Kg		90	70 - 130	16	35
m-Xylene & p-Xylene	<0.00403	U	0.198	0.1888		mg/Kg		95	70 - 130	17	35
o-Xylene	<0.00202	U	0.0990	0.09566		mg/Kg		97	70 - 130	17	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

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

Lab Sample ID: MB 880-50047/1-A

Matrix: Solid

Analysis Batch: 50077

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 50047

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/31/23 14:31	04/01/23 08:55	1

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QC Sample Results

Client: Ensolum
Project/Site: Maverick SC Federal Battery

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

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

Lab Sample ID: MB 880-50047/1-A

Matrix: Solid

Analysis Batch: 50077

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 50047

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/31/23 14:31	04/01/23 08:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/31/23 14:31	04/01/23 08:55	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	140	S1+	70 - 130			03/31/23 14:31	04/01/23 08:55	1
o-Terphenyl	165	S1+	70 - 130			03/31/23 14:31	04/01/23 08:55	1

Lab Sample ID: LCS 880-50047/2-A

Matrix: Solid

Analysis Batch: 50077

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 50047

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	996.6		mg/Kg		100	70 - 130
Diesel Range Organics (Over C10-C28)	1000	826.0		mg/Kg		83	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	109		70 - 130				
o-Terphenyl	127		70 - 130				

Lab Sample ID: LCSD 880-50047/3-A

Matrix: Solid

Analysis Batch: 50077

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 50047

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	978.9		mg/Kg		98	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	820.9		mg/Kg		82	70 - 130	1	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	111		70 - 130						
o-Terphenyl	129		70 - 130						

Lab Sample ID: 880-26511-A-1-B MS

Matrix: Solid

Analysis Batch: 50077

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 50047

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	1088		mg/Kg		106	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	998	1266		mg/Kg		125	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	112		70 - 130						
o-Terphenyl	115		70 - 130						

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QC Sample Results

Client: Ensolum
Project/Site: Maverick SC Federal Battery

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

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

Lab Sample ID: 880-26511-A-1-C MSD

Matrix: Solid

Analysis Batch: 50077

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 50047

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	1068		mg/Kg		104	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U	997	1224		mg/Kg		121	70 - 130	3	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	108		70 - 130								
o-Terphenyl	112		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-50045/1-A

Matrix: Solid

Analysis Batch: 50050

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			03/31/23 15:16	1

Lab Sample ID: LCS 880-50045/2-A

Matrix: Solid

Analysis Batch: 50050

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	241.0		mg/Kg		96	90 - 110

Lab Sample ID: LCSD 880-50045/3-A

Matrix: Solid

Analysis Batch: 50050

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	237.8		mg/Kg		95	90 - 110	1	20

Lab Sample ID: 890-4435-1 MS

Matrix: Solid

Analysis Batch: 50050

Client Sample ID: FS09

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	3790		1260	5074		mg/Kg		102	90 - 110

Lab Sample ID: 890-4435-1 MSD

Matrix: Solid

Analysis Batch: 50050

Client Sample ID: FS09

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	3790		1260	5062		mg/Kg		102	90 - 110	0	20

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QC Association Summary

Client: Ensolum
Project/Site: Maverick SC Federal Battery

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

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

Prep 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	Prep Type	Matrix	Method	Prep Batch
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

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4435-1	FS09	Total/NA	Solid	Total BTEX	
890-4435-2	FS10	Total/NA	Solid	Total BTEX	
890-4435-3	SW01	Total/NA	Solid	Total BTEX	
890-4435-4	SW02	Total/NA	Solid	Total BTEX	
890-4435-5	SW03	Total/NA	Solid	Total BTEX	
890-4435-6	SW04	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 50047

Lab Sample ID	Client Sample ID	Prep Type	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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QC Association Summary

Client: Ensolum
Project/Site: Maverick SC Federal Battery

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

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	Prep Type	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
LCSD 880-50047/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	50047
880-26511-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	50047
880-26511-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	50047

Analysis Batch: 50211

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
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

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	Prep Type	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

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QC Association Summary

Client: Ensolum
Project/Site: Maverick SC Federal Battery

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

HPLC/IC (Continued)

Analysis Batch: 50050 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4435-6	SW04	Soluble	Solid	300.0	50045
MB 880-50045/1-A	Method Blank	Soluble	Solid	300.0	50045
LCS 880-50045/2-A	Lab Control Sample	Soluble	Solid	300.0	50045
LCSD 880-50045/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	50045
890-4435-1 MS	FS09	Soluble	Solid	300.0	50045
890-4435-1 MSD	FS09	Soluble	Solid	300.0	50045

Lab Chronicle

Client: Ensolum
Project/Site: Maverick SC Federal Battery

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

Client Sample ID: FS09

Lab Sample ID: 890-4435-1

Date Collected: 03/28/23 14:00

Matrix: Solid

Date Received: 03/29/23 15:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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		20	5 mL	5 mL	50119	04/04/23 00:43	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			10.04 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 17:05	SM	EET MID
Soluble	Leach	DI Leach			4.97 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 15:30	SMC	EET MID

Client Sample ID: FS10

Lab Sample ID: 890-4435-2

Date Collected: 03/28/23 14:15

Matrix: Solid

Date Received: 03/29/23 15:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Lab Sample ID: 890-4435-3

Date Collected: 03/28/23 11:45

Matrix: Solid

Date Received: 03/29/23 15:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Lab Sample ID: 890-4435-4

Date Collected: 03/28/23 14:30

Matrix: Solid

Date Received: 03/29/23 15:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Lab Chronicle

Client: Ensolum
Project/Site: Maverick SC Federal Battery

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

Client Sample ID: SW02

Lab Sample ID: 890-4435-4

Date Collected: 03/28/23 14:30

Matrix: Solid

Date Received: 03/29/23 15:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Lab Sample ID: 890-4435-5

Date Collected: 03/28/23 14:45

Matrix: Solid

Date Received: 03/29/23 15:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Lab Sample ID: 890-4435-6

Date Collected: 03/28/23 13:00

Matrix: Solid

Date Received: 03/29/23 15:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 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 00:23	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			10.04 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 19:35	SM	EET MID
Soluble	Leach	DI Leach			5.04 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 16:11	SMC	EET MID

Laboratory References:

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

Eurofins Carlsbad

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Maverick SC Federal Battery

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

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum

Job ID: 890-4435-1

Project/Site: Maverick SC Federal Battery

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 References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: Maverick SC Federal Battery

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4435-1	FS09	Solid	03/28/23 14:00	03/29/23 15:02	0.5
890-4435-2	FS10	Solid	03/28/23 14:15	03/29/23 15:02	0.5
890-4435-3	SW01	Solid	03/28/23 11:45	03/29/23 15:02	0 - 3
890-4435-4	SW02	Solid	03/28/23 14:30	03/29/23 15:02	0 - 3
890-4435-5	SW03	Solid	03/28/23 14:45	03/29/23 15:02	0 - 3
890-4435-6	SW04	Solid	03/28/23 13:00	03/29/23 15:02	0 - 2

- 1
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- 12
- 13
- 14



Environment Testing
Xenco

Chain of Custody

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

Work Order No: **4435**

www.xenco.com Page **1** of **1**

Project Manager:	Kalei Jennings	Bill to: (if different)	Kalei Jennings
Company Name:	Ensolum, LLC	Company Name:	Ensolum, LLC
Address:	601 N Marienfeld St Suite 400	Address:	601 N Marienfeld St Suite 400
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	817-683-2503	Email:	kjennings@ensolum.com, dnikanorov@ensolum.com

Work Order Comments	
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADaPT ☐ Other:	

Project Name:		Turn Around		ANALYSIS REQUEST												Preservative Codes		
Project Number:	03D2057069	☐ Routine ☒ Rush		Pres. Code													None: NO	DI Water: H ₂ O
Project Location:	Lea County, NM	Due Date:	24 hour	Parameters	CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)										Cool: Cool	MeOH: Me
Sampler's Name:	Dmitry Nikanorov	TAT starts the day received by the lab, if received by 4:30pm															HCL: HC	HNO ₃ : HN
PO #:																	H ₂ SO ₄ : H ₂	NaOH: Na
SAMPLE RECEIPT		Temp Blank: ☒ Yes ☐ No	Wet Ice: ☒ Yes ☐ No														H ₃ PO ₄ : HP	
Samples Received Intact:	☒ Yes ☐ No	Thermometer ID:	TAN 007														NaHSO ₄ : NABIS	
Cooler Custody Seals:	☒ Yes ☐ No	Correction Factor:	-0.2	Na ₂ S ₂ O ₃ : NaSO ₃														
Sample Custody Seals:	☒ Yes ☐ No	Temperature Reading:	5.9	Zn Acetate+NaOH: Zn														
Total Containers:		Corrected Temperature:	5.7	NaOH+Ascorbic Acid: SAPC														
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont											Sample Comments	
FS09	S	3/28/2023	14:00	0.5'	Comp	1	X	X	X									
FS10	S	3/28/2023	14:15	0.5'	Comp	1	X	X	X									
SW01	S	3/28/2023	11:45	0-3'	Comp	1	X	X	X									
SW02	S	3/28/2023	14:30	0-3'	Comp	1	X	X	X									
SW03	S	3/28/2023	14:45	0-3'	Comp	1	X	X	X									
SW04	S	3/28/2023	13:00	0-2'	Comp	1	X	X	X									
DN																		

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	<i>[Signature]</i>	3/29/23 1507	4		
3			6		
5					

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4435-1

SDG Number: 03D2057069

Login Number: 4435

List Number: 1

Creator: Kramer, Jessica

List Source: Eurofins Carlsbad

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 <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4435-1

SDG Number: 03D2057069

Login Number: 4435

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

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



APPENDIX E

NMOCD Notifications

From: [Aimee Cole](#)
To: 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 



APPENDIX F
Form C-141

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	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 Longitude -103.7481
(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
I	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)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

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.

Incident ID	NAPP2303272686
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice 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

☒ 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 <u>not</u> 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: <u>Bryce Wagoner</u>	Title: <u>Permian HSE Specialist II</u>
Signature: 	Date: <u>1/19/2023</u>
email: <u>Bryce.Wagoner@mavresources.com</u>	Telephone: <u>928-241-1862</u>
<u>OCD Only</u>	
Received by: _____	Date: _____

	Length (ft.)	Width (ft.)	Depth (in)	# of Boundaries <i>*edges of pool where depth is 0. don't count shared boundaries</i>	Oil-Water Ratio (%)	Pooled Area (ft ²)	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
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!
Rectangle E						0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Total Volume (bbls):								8.90	7.12	1.78

Subsurface Fluids										
	Length (ft.)	Width (ft.)	Depth (in.)	Saturation (%) <i>*10% in consolidated sediments after rain to 50% in sand with no precipitation</i>	Oil-Water Ratio (%)	Area (ft ²)	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

TOTAL RELEASE VOLUME (bbls):	8.9
-------------------------------------	------------

Incident ID	NAPP2303272686
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

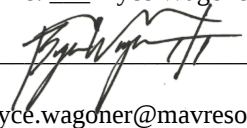
State of New Mexico
Oil Conservation Division

Incident ID	NAPP2303272686
District RP	
Facility ID	
Application ID	

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

Printed Name: Bryce Wagoner

Title: Permian HSE Specialist II

Signature: 

Date: 07/31/2023

email: bryce.wagoner@mavresources.com

Telephone: 928-241-1862

OCD Only

Received by: Shelly Wells

Date: 8/2/2023

Incident ID	NAPP2303272686
District RP	
Facility ID	
Application ID	

Remediation Plan

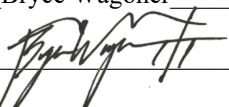
Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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: 07/31/2023
email: Bryce.Wagoner@mavresources.com Telephone: 928-241-1862

OCD Only

Received by: Shelly Wells Date: 8/2/2023

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved
see text box below - NV

Signature:  Date: 10/30/2023

Remediation plan approved with the following conditions;

1. Must furnish 2 business day notification to the OCD for all final sampling & exploratory boring.
2. Must furnish permit from NMOSE for exploratory boring installation.
3. Remediation Due date updated to January 29, 2024 (90-days).

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

Action 246786

CONDITIONS

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 246786
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Remediation plan approved with the following conditions; 1. Must furnish 2 business day notification to the OCD for all final sampling & exploratory boring. 2. Must furnish permit from NMOSE for exploratory boring installation. 3. Remediation Due date updated to January 29, 2024 (90-days).	10/30/2023