

October 13, 2023

New Mexico Oil Conservation Division

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

Re: Closure Request

MCA 95

Incident Number NAPP2306757137

Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Maverick Permian, LLC (Maverick), has prepared this *Closure Request* to document assessment, excavation, and soil sampling activities performed at the MCA 95 (Site). The purpose of the assessment, excavation, and soil sampling activities was to address impacts to soil resulting from a release of crude oil at the Site. Based on the excavation activities and laboratory analytical results from the soil sampling events, Maverick is submitting this *Closure Request*, describing remediation that has occurred and requesting closure for Incident Number NAPP2306757137.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit J, Section 20, Township 17 South, Range 32 East, in Lea County, New Mexico (32.817529° N, -103.787126° W) and is associated with oil and gas exploration and production operations on Federal Land managed by Bureau of Land Management (BLM).

On February 21, 2023, corrosion of a flow line resulted in the release of approximately 5.6 barrels (bbls) of crude oil into the surrounding pasture. A vacuum was immediately dispatched to the site and recovered 2.5 bbls of free-standing fluid. The saturated surface soil was scraped up during initial spill response activities. Maverick reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on February 27, 2023. The release was assigned Incident Number NAPP2306757137.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

Depth to groundwater at the Site is greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest groundwater well/soil boring with depth to groundwater data is soil boring DTW 01 located approximately 470 feet southwest of the Site. The soil boring was drilled during August 2023 to a depth of 106 feet bgs. A field geologist logged and described soils continuously.

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 3122 National Parks Highway | Carlsbad, NM 88220 | ensolum.com

Maverick Permian, LLC Closure Request MCA 95

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The borehole lithologic log is included in Appendix A. No groundwater was encountered in the borehole to a depth of 106 feet bgs. The borehole was left open for over 72 hours to allow for potential slow infill of groundwater. After the 72-hour waiting period without observing groundwater, it was confirmed that groundwater is greater than 106 feet bgs. The borehole was properly abandoned using hydrated bentonite chips. All wells used for depth to groundwater determination are presented on Figure 1.

The closest continuously flowing or significant watercourse is greater than 300 feet from 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: 20,000 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 February 22, 2023, site assessment activities were conducted at the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Two assessment soil samples (SS01 and SS02) were collected within the release extent at a depth of 0.5 feet bgs to assess surficial soil within the release. Four assessment soil samples (SS03 through SS06) were collected around the visible release extent at a depth of 0.5 feet bgs to confirm the lateral extent of the release. The release extent and 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 assessment 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 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 and SS02, collected within the release extent, indicated that TPH concentrations exceeded the Site Closure Criteria and/or reclamation requirements. Laboratory analytical results for assessment soil samples SS03 through SS06, collected around the release extent, indicated that all COC concentrations were compliant with the most stringent Table I Closure Criteria and confirmed the lateral extent of the release. Based on visible staining in the



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release area and laboratory analytical results for assessment soil samples SS01 and SS02, excavation activities were warranted.

EXCAVATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

Between September 14, 2023 and September 21, 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 soil samples. To direct excavation activities, soil was field screened for VOCs and chloride. Excavation activities were performed using hand shovels, track-mounted backhoe, and transport vehicles. The excavation was completed to depths ranging from 4 feet to 6 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 FS14 were collected from the floor of the excavation at depths ranging from 4 feet to 6 feet bgs. Composite soil samples SW01 through SW09 were collected from the sidewalls of the excavation at depths ranging from the ground surface to to 6 feet bgs. 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 3.

Laboratory analytical results for excavation floor samples FS01 through FS14 and excavation sidewall samples SW01 through SW09, 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 are summarized on Table 1 and the complete laboratory analytical reports are included as Appendix C.

The excavation measured approximately 2,500 square feet in areal extent. A total of approximately 600 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Disposal Facility located in Hobbs, New Mexico. After completion of confirmation sampling, the excavation was secured with fencing.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the February 21, 2023, release of crude oil. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated all COC concentrations were compliant with the Site Closure Criteria and reclamation requirements, where applicable. Based on the laboratory analytical results, no further remediation is required. Maverick will backfill the excavation with material purchased locally and recontour the Site to match pre-existing conditions.

Initial response efforts and excavation of impacted soil have mitigated impacts at this Site. Depth to groundwater has been determined to be greater than 100 feet bgs within 0.5 miles of the Site and no sensitive receptors were identified near the release extent. Maverick believes the remedial actions completed are protective of human health, the environment, and groundwater and respectfully requests closure for Incident NAPP2306757137. NMOCD notifications are included in Appendix D and the final Form C-141 is included in Appendix E.



Maverick Permian, LLC Closure Request MCA 95

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

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

Julianna Falcomata Staff Geologist

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Aimee Cole Senior Managing Scientist

Since Cale

cc: Bryce Wagoner, Maverick Natural Resources

Bureau of Land Management

Appendices:

Figure 1 Site Receptor Map

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

Appendix B Photographic Log

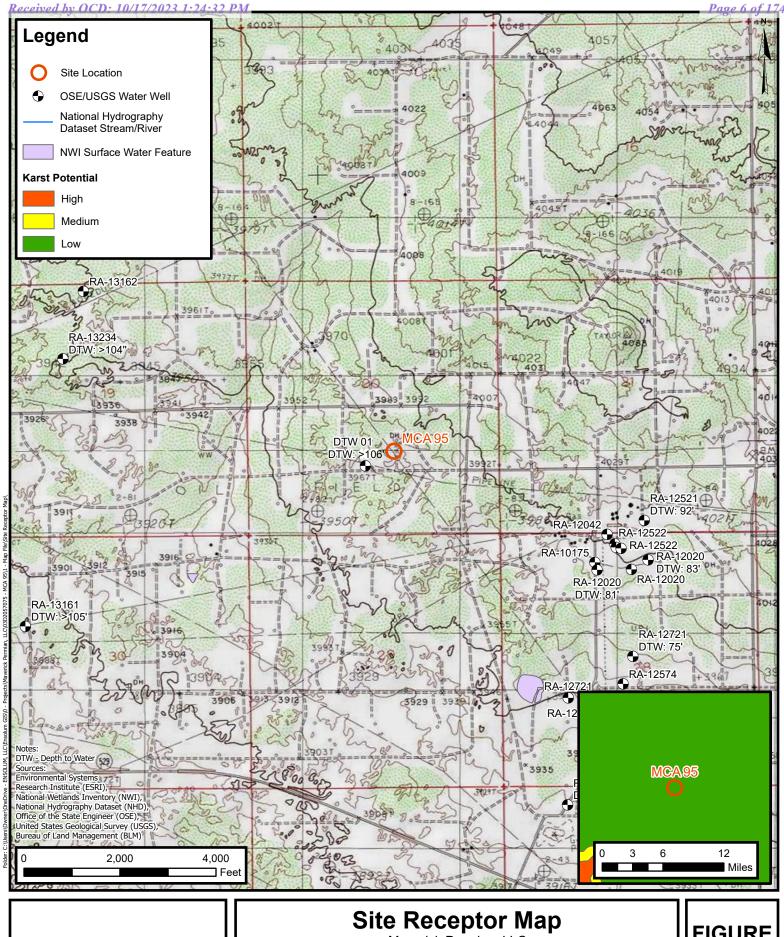
Appendix C Laboratory Analytical Reports & Chain of Custody Documentation

Appendix D NMOCD Notifications Appendix E Final Form C-141



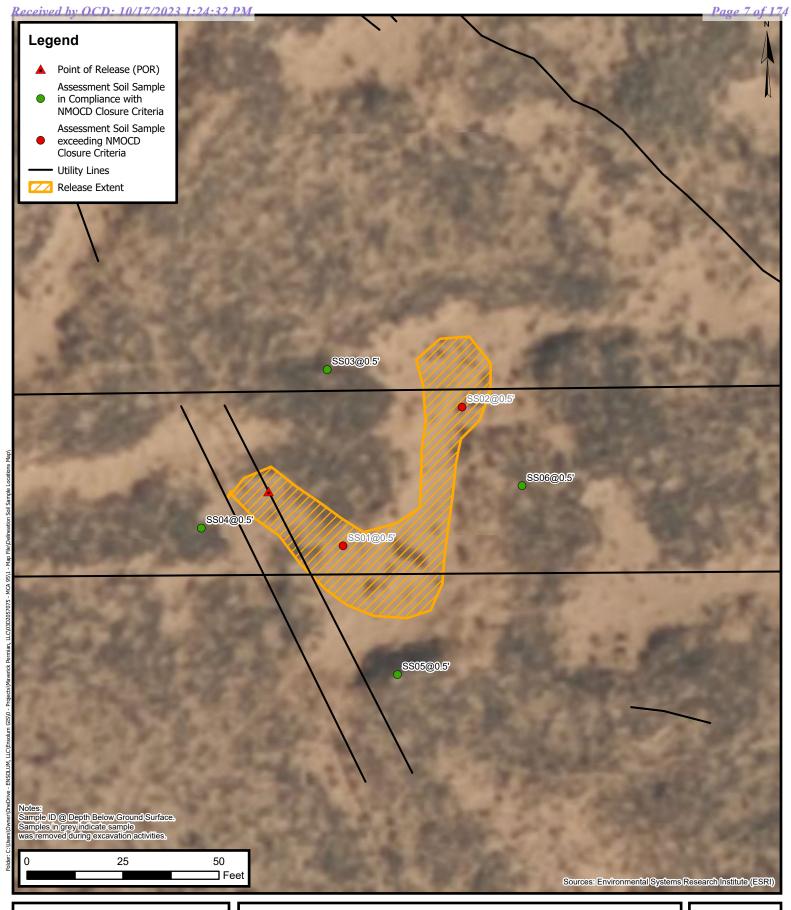


FIGURES





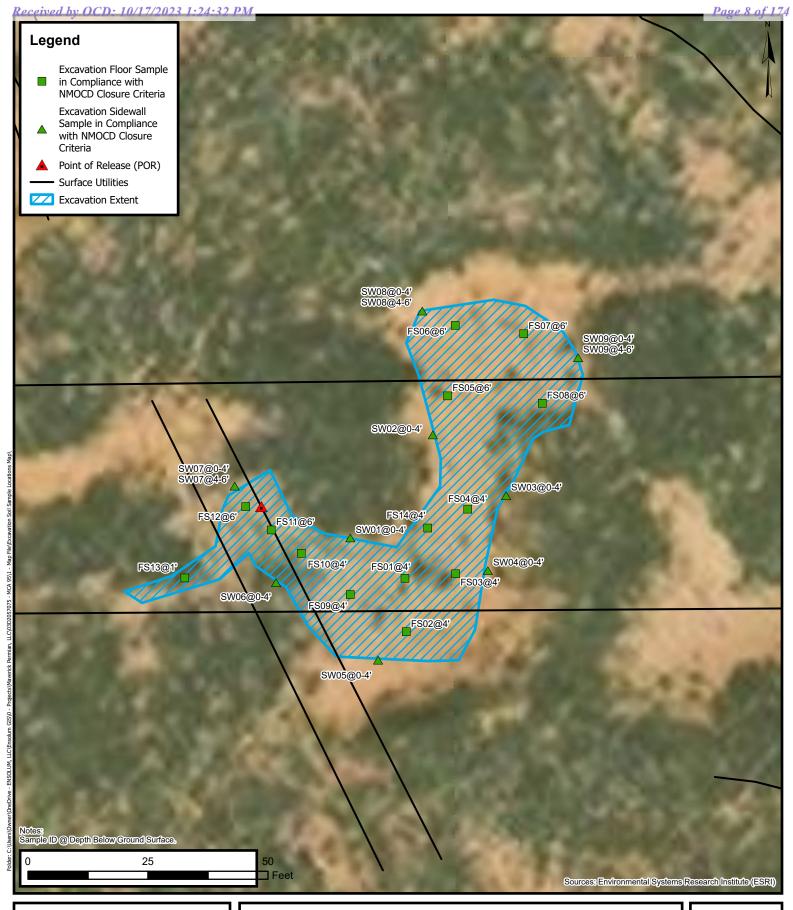
Maverick Permian, LLC MCA 95 Incident Number: NAPP2306757137 Unit J, Sec 20, T17S, R32E Lea County, New Mexico FIGURE 1





Assessment Soil Sample Locations

Maverick Permian, LLC MCA 95 Incident Number: NAPP2306757137 Unit J, Sec 20, T17S, R32E Lea County, New Mexico FIGURE 2





Excavation Soil Sample Locations

Maverick Permian, LLC MCA 95 Incident Number: NAPP2306757137 Unit J, Sec 20, T17S, R32E Lea County, New Mexico FIGURE 3



TABLES

Received by OCD: 10/17/2023 1:24:32 PM



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS MCA 95 Maverick Permian, LLC

					ounty, New Mexi					
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 (N	IMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	10,000
				Assess	sment Soil Samp	les				
SS01*	2/22/2023	0.5	0.277	0.519	<49.9	253	<49.9	253	253	63.0
SS02*	2/22/2023	0.5	2.80	367	4,270	9,200	<500	13,470	13,500	98.2
SS03	2/22/2023	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	<5.05
SS04	2/22/2023	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	<5.00
SS05	2/22/2023	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	<4.98
SS06	2/22/2023	0.5	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	<5.00
				Excavati	on Floor Soil Sar	nples				
FS01	9/15/2023	4	<0.050	<0.300	18.7	520	80.9	538.7	619.6	64.4
FS02	9/18/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS03	9/18/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS04	9/18/2023	4	<0.050	<0.300	<10.0	16.5	<10.0	16.5	16.5	<16.0
FS05	9/19/2023	6	<0.050	<0.300	<10.0	14.3	<10.0	14.3	14.3	16.0
FS06	9/19/2023	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS07	9/19/2023	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS08	9/19/2023	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS09	9/19/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
FS10	9/19/2023	4	<0.050	<0.300	<10.0	15.3	<10.0	15.3	15.3	<16.0
FS11	9/19/2023	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
FS12	9/19/2023	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
FS13*	9/19/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
FS14	9/19/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
				Excavation	n Sidewall Soil Sa	amples				
SW01*	9/15/2023	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW02*	9/21/2023	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SW03*	9/21/2023	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SW04*	9/21/2023	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0

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TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS MCA 95

Maverick Permian, LLC Lea County. New Mexico

	Lea Sounty, 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	NMOCD Table I Closure Criteria (NMAC 1		10	50	NE	NE	NE	1,000	2,500	10,000	
SW05*	9/21/2023	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0	
SW06*	9/21/2023	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0	
SW07*	9/21/2023	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0	
SW07	9/21/2023	4-6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0	
SW08*	9/21/2023	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0	
SW08	9/21/2023	4-6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0	
SW09*	9/21/2023	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0	
SW09	9/21/2023	4-6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0	

Notes:

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

NMOCD: New Mexico Oil Conservation Division NMAC: New Mexico Administrative Code

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes Concentrations in **bold** exceed the NMOCD Table 1 Closure Criteria or reclamation standard where applicable. GRO: Gasoline Range Organics
DRO: Diesel Range Organics
ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

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

Sample Name: DTW 01 Date: 08/28/2023 NSOLUM Site Name: MCA 266 Incident Number: NAPP2213642290 lob Number: 03D2057011 LITHOLOGIC / SOIL SAMPLING LOG Logged By: Julianna Falcomata Method: Hollow Stem Total Depth: 106' Hole Diameter: 5" 32.816600, -103.789057 Comments: Soil boring was advanced to a total depth of 106' bgs. No water was observed within the soil boring after at least 72 hours. On 09/08/2023 the soil boring was plugged and abandoned using hydrated bentonite chips. **USCS/Rock** Chloride Sample Staining Content Symbol (mdd) (mdd) Sample Depth Depth Lithologic Descriptions (ft bgs) (ft bgs) (10') SAND: fine grained silty sand, poorly graded, SP-SM 10 Dry N tan to medium brown, non plastic, non cohesive, no odor. (20') SAND: fine grained silty sand, trace amounts SP-SM Dry 20 N small gravel, poorly graded, tan to reddish brown, non plastic, non cohesive, no odor. SP-SM (30') SAND: fine grained silty sand, moderate Dry N 30 amounts small to medium gravel, poorly graded, reddish brown, non plastic, non cohesive, no 40 SP-SM (40') SAND: SAA with trace amounts of CHT like Dry N material SP-SM (50') SAND: fine grained silty sand, trace amounts 50 Dry N small gravel, poorly graded, reddish brown, non plastic, non cohesive, no odor. (60') SAND: fine grained silty sand, trace amounts SP-SM 60 Dry N small gravel, poorly graded, medium brown, nonplastic, non cohesive, no odor. (70') SAND: fine grained silty sand, trace amounts 70 Dry N small gravel, poorly graded, medium brown to dark grey, non plastic, non cohesive, no odor.

80

90

100

106

GP-GM

GP-GM

SP-SM

Total Depth @ 106 feet bgs

(80') GRAVEL: medium grained, trace amount silty

(90') GRAVEL: medium grained, trace amount silty

sand, poorly graded, light grey to medium brown,

(100') SAND: fine grained, trace amount small to

medium gravel, poorly graded, medium brown,

medium gravel, poorly graded, dark brown, non

sand, poorly graded, dark grey to light grey, non

plastic, non cohesive, no odor.

non plastic, non cohesive, no odor.

non plastic, non cohesive, no odor. SP-SM (106') SAND: fine grained, trace amount small to

plastic, non cohesive, no odor.

N

N

N

N

Dry

Dry

Dry

Dry

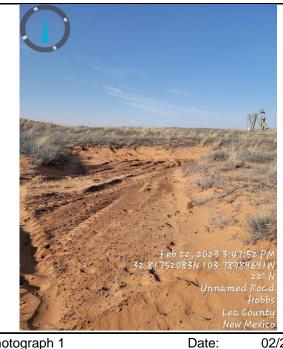


APPENDIX B

Photographic Log

ENSOLUM

Photographic Log Maverick Natural Resources, LLC MCA 95 NAPP2306757137



Teb 22, 2023, 3:148:03 PM
32.81753946N 103, 18178088W
249 W
Unnamed Road
Hobbs
Lea County
New Mexico

Date: 02/22/23

Photograph 1 Date:
Description: Impacted soil before remediation

View: North

02/22/23 Photograph 2 Date:

Description: Impacted soil before remediation

View: West



Photograph 3

Date: 09/19

09/19/23 Photograph 4

Date:

09/19/23

Description: Excavation in progress

View: East

Description: Excavation in progress

View: South

Page 1 of 1

ENSOLUM

Photographic Log Maverick Permian, LLC MCA 95 NAPP2306757137





Description: Completed excavation Description: Completed excavation

View: Northeast View: West

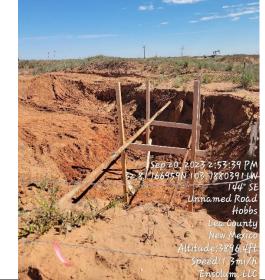


Photograph 3 Date: 9/20/2023 Photograph 4 Date: 9/20/2023

Description: Completed excavation Description: Completed excavation

View: North View: Southeast







APPENDIX C

Laboratory Analytical Reports & Chain of Custody Documentation



September 20, 2023

AIMEE COLE
ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: MCA 95

Enclosed are the results of analyses for samples received by the laboratory on 09/15/23 14:32.

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/ga/lab accred certif.html.

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

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/15/2023 Sampling Date: 09/15/2023
Reported: 09/20/2023 Sampling Type: Soil

Project Name: MCA 95 Sampling Condition: Cool & Intact
Project Number: 03D2057075 Sample Received By: Dionica Hinojos

Project Location: MAVERICK (32.817529-103.787126)

Sample ID: FS 01 4' (H235010-01)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/18/2023	ND	1.94	97.2	2.00	1.00	
Toluene*	<0.050	0.050	09/18/2023	ND	2.00	99.9	2.00	1.83	
Ethylbenzene*	0.083	0.050	09/18/2023	ND	1.93	96.5	2.00	0.549	
Total Xylenes*	<0.150	0.150	09/18/2023	ND	5.80	96.7	6.00	1.40	
Total BTEX	<0.300	0.300	09/18/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	129 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/18/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	18.7	10.0	09/18/2023	ND	192	95.8	200	1.67	
DRO >C10-C28*	520	10.0	09/18/2023	ND	204	102	200	5.36	
EXT DRO >C28-C36	80.9	10.0	09/18/2023	ND					
Surrogate: 1-Chlorooctane	91.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103 9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/15/2023 Sampling Date: 09/15/2023

Reported: 09/20/2023 Sampling Type: Soil

Project Name: MCA 95 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03D2057075 Dionica Hinojos

Project Location: MAVERICK (32.817529-103.787126)

Sample ID: SW 01 0-4' (H235010-02)

BTEX 8021B	mg/kg Analyzed By			d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/18/2023	ND	1.94	97.2	2.00	1.00	
Toluene*	<0.050	0.050	09/18/2023	ND	2.00	99.9	2.00	1.83	
Ethylbenzene*	<0.050	0.050	09/18/2023	ND	1.93	96.5	2.00	0.549	
Total Xylenes*	<0.150	0.150	09/18/2023	ND	5.80	96.7	6.00	1.40	
Total BTEX	<0.300	0.300	09/18/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/18/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/18/2023	ND	192	95.8	200	1.67	
DRO >C10-C28*	<10.0	10.0	09/18/2023	ND	204	102	200	5.36	
EXT DRO >C28-C36	<10.0	10.0	09/18/2023	ND					
Surrogate: 1-Chlorooctane	73.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	76.8	% 49.1-14	8						

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Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

ecovery.

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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Celeg D. Freene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

V Mamo: Email 110	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476	Laboratories	
0	16	UII	

Sampler - UPS - Bus - Other: Correction Control Correction Control Correction Control Correction Control Contr	ellass .	PLEASE NOTE: Labity and Damages, Cardina's liabity and clients analyses. All claims including those for negligence and any other causewise, in no event shall Cardinal be liable for incidental or conseque affiliates or successors arising out of or related to the performance of s Relinquis head By:		Swo	TSA	Lab I.D. Sample I.D.	H335010	Ronn. Hung	on:	Project #: 631205 7675	Phone #: 7203847365	Mathami	2777 Mines	Project Managor:
Corrected Temp. °C 200 Infact CHECKED BY: Turnaround Time: Cool Infact Checked BY: Turnaround Time: Cool Infact Checked BY: Turnaround Time: The momentary D #446 Corrected Temp. °C 200 Infact Checked BY: Turnaround Time: Cool Infact Checked BY: Turnaround Time: Cool Infact Checked BY: Turnaround Time: Cool Infact Checked BY: Turnaround Time:	1:32 Received By:	y claim arising whether based in contract or tort, shall be limited to the amount patid sensed variety unders made in willing and received by Cordinal within 30 days after without limitation, business interruptions, loss of true, or loss of profile hoursed by a different regardless of whether such claims is based upon any of the above stated reas		0-u x x 9/18/23/26	(G)RAB (G)RAB (G) # CONTA (GROUND WASTEW SOIL OIL SLUDGE OTHER: ACID/BAS (ICE / COO) OTHER:	DR (G)O INERS DWATER ATER	MATRIX	1	161 69 29-	Project Owner: MANOPICH City:	02289. :diz	Wu Wu	P.O. #:	0.57/8
Standard Bacteria (only) Sample Condition Rush Cool Infact Observed Temp. °C #1,40 No No Corrected Temp. °C	Verbal Result: 1 Yes 1 No Add'! Phone #: All Results are emailed. Please provide Email address: OLD COPONYOLUM, COM / Jallonatus ensolum. Com REMARKS:		————————————————————————————————————		BTE CI-	X							ANALYSIS REQUEST	



September 26, 2023

AIMEE COLE ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: MCA 95

Enclosed are the results of analyses for samples received by the laboratory on 09/20/23 11:57.

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/ga/lab_accred_certif.html.

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

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/20/2023 Sampling Date: 09/18/2023 Reported: 09/26/2023 Sampling Type: Soil

Project Name: MCA 95 Sampling Condition: Cool & Intact
Project Number: 03D2057075 Sample Received By: Dionica Hinojos

A ... - L ... - - - I D. .. MC

Project Location: MAVERICK (32.817529-103.787126)

Sample ID: FS 02 @ 4' (H235095-01)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2023	ND	2.11	106	2.00	1.17	
Toluene*	<0.050	0.050	09/21/2023	ND	2.16	108	2.00	1.48	
Ethylbenzene*	<0.050	0.050	09/21/2023	ND	2.12	106	2.00	1.56	
Total Xylenes*	<0.150	0.150	09/21/2023	ND	6.44	107	6.00	1.98	
Total BTEX	<0.300	0.300	09/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 5	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/20/2023	ND	432	108	400	3.64	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2023	ND	195	97.4	200	2.91	
DRO >C10-C28*	<10.0	10.0	09/20/2023	ND	211	105	200	0.815	
EXT DRO >C28-C36	<10.0	10.0	09/20/2023	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	121	% 49.1-14	8						

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Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/20/2023 Sampling Date: 09/18/2023

Reported: 09/26/2023 Sampling Type: Soil

Project Name: MCA 95 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03D2057075 Dionica Hinojos

Project Location: MAVERICK (32.817529-103.787126)

Sample ID: FS 03 @ 4' (H235095-02)

BTEX 8021B	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2023	ND	2.11	106	2.00	1.17	
Toluene*	<0.050	0.050	09/21/2023	ND	2.16	108	2.00	1.48	
Ethylbenzene*	<0.050	0.050	09/21/2023	ND	2.12	106	2.00	1.56	
Total Xylenes*	<0.150	0.150	09/21/2023	ND	6.44	107	6.00	1.98	
Total BTEX	<0.300	0.300	09/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
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	09/20/2023	ND	432	108	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/21/2023	ND	195	97.4	200	2.91	
DRO >C10-C28*	<10.0	10.0	09/21/2023	ND	211	105	200	0.815	
EXT DRO >C28-C36	<10.0	10.0	09/21/2023	ND					
Surrogate: 1-Chlorooctane	102 5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	120 9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/20/2023 Sampling Date: 09/18/2023

Reported: 09/26/2023 Sampling Type: Soil

Project Name: MCA 95 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03D2057075 Dionica Hinojos

Project Location: MAVERICK (32.817529-103.787126)

Sample ID: FS 04 @ 4' (H235095-03)

BTEX 8021B	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2023	ND	2.11	106	2.00	1.17	
Toluene*	<0.050	0.050	09/21/2023	ND	2.16	108	2.00	1.48	
Ethylbenzene*	<0.050	0.050	09/21/2023	ND	2.12	106	2.00	1.56	
Total Xylenes*	<0.150	0.150	09/21/2023	ND	6.44	107	6.00	1.98	
Total BTEX	<0.300	0.300	09/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/21/2023	ND	416	104	400	7.41	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/21/2023	ND	195	97.4	200	2.91	
DRO >C10-C28*	16.5	10.0	09/21/2023	ND	211	105	200	0.815	
EXT DRO >C28-C36	<10.0	10.0	09/21/2023	ND					
Surrogate: 1-Chlorooctane	103 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	121 9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/20/2023 Sampling Date: 09/19/2023

Reported: 09/26/2023 Sampling Type: Soil

Project Name: MCA 95 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03D2057075 Dionica Hinojos

Project Location: MAVERICK (32.817529-103.787126)

Sample ID: FS 05 @ 6' (H235095-04)

BTEX 8021B	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2023	ND	2.11	106	2.00	1.17	
Toluene*	<0.050	0.050	09/21/2023	ND	2.16	108	2.00	1.48	
Ethylbenzene*	<0.050	0.050	09/21/2023	ND	2.12	106	2.00	1.56	
Total Xylenes*	<0.150	0.150	09/21/2023	ND	6.44	107	6.00	1.98	
Total BTEX	<0.300	0.300	09/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 71.5-13	4						
Chloride, SM4500CI-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	09/21/2023	ND	416	104	400	7.41	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/21/2023	ND	195	97.4	200	2.91	
DRO >C10-C28*	14.3	10.0	09/21/2023	ND	211	105	200	0.815	
EXT DRO >C28-C36	<10.0	10.0	09/21/2023	ND					
Surrogate: 1-Chlorooctane	102 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	119 9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/20/2023 Sampling Date: 09/19/2023

Reported: 09/26/2023 Sampling Type: Soil
Project Name: MCA 95 Sampling Condition: Coo

Project Name: MCA 95 Sampling Condition: Cool & Intact
Project Number: 03D2057075 Sample Received By: Dionica Hinojos

Project Location: MAVERICK (32.817529-103.787126)

Sample ID: FS 06 @ 6' (H235095-05)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2023	ND	2.06	103	2.00	0.135	
Toluene*	<0.050	0.050	09/21/2023	ND	2.10	105	2.00	0.217	
Ethylbenzene*	<0.050	0.050	09/21/2023	ND	2.07	103	2.00	0.772	
Total Xylenes*	<0.150	0.150	09/21/2023	ND	6.32	105	6.00	2.26	
Total BTEX	<0.300	0.300	09/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/21/2023	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2023	ND	233	116	200	5.18	
DRO >C10-C28*	<10.0	10.0	09/20/2023	ND	231	115	200	5.90	
EXT DRO >C28-C36	<10.0	10.0	09/20/2023	ND					
Surrogate: 1-Chlorooctane	90.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

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Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/20/2023 Sampling Date: 09/19/2023

Reported: 09/26/2023 Sampling Type: Soil

Project Name: MCA 95 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03D2057075 Dionica Hinojos

Project Location: MAVERICK (32.817529-103.787126)

Sample ID: FS 07 @ 6' (H235095-06)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2023	ND	2.06	103	2.00	0.135	
Toluene*	<0.050	0.050	09/21/2023	ND	2.10	105	2.00	0.217	
Ethylbenzene*	<0.050	0.050	09/21/2023	ND	2.07	103	2.00	0.772	
Total Xylenes*	<0.150	0.150	09/21/2023	ND	6.32	105	6.00	2.26	
Total BTEX	<0.300	0.300	09/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/21/2023	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2023	ND	233	116	200	5.18	
DRO >C10-C28*	<10.0	10.0	09/20/2023	ND	231	115	200	5.90	
EXT DRO >C28-C36	<10.0	10.0	09/20/2023	ND					
Surrogate: 1-Chlorooctane	86.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.0	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/20/2023 Sampling Date: 09/19/2023

Reported: 09/26/2023 Sampling Type: Soil

Project Name: MCA 95 Sampling Condition: Cool & Intact
Project Number: 03D2057075 Sample Received By: Dionica Hinojos

Analyzed By: MS

Project Location: MAVERICK (32.817529-103.787126)

mg/kg

Sample ID: FS 08 @ 6' (H235095-07)

BTEX 8021B

	9,	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2023	ND	2.06	103	2.00	0.135	
Toluene*	<0.050	0.050	09/21/2023	ND	2.10	105	2.00	0.217	
Ethylbenzene*	<0.050	0.050	09/21/2023	ND	2.07	103	2.00	0.772	
Total Xylenes*	<0.150	0.150	09/21/2023	ND	6.32	105	6.00	2.26	
Total BTEX	<0.300	0.300	09/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
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	09/21/2023	ND	416	104	400	7.41	
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	09/20/2023	ND	233	116	200	5.18	
DRO >C10-C28*	<10.0	10.0	09/20/2023	ND	231	115	200	5.90	
EXT DRO >C28-C36	<10.0	10.0	09/20/2023	ND					
Surrogate: 1-Chlorooctane	89.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/20/2023 Sampling Date: 09/19/2023

Reported: 09/26/2023 Sampling Type: Soil

Project Name: MCA 95 Sampling Condition: Cool & Intact
Project Number: 03D2057075 Sample Received By: Dionica Hinojos

Project Location: MAVERICK (32.817529-103.787126)

Sample ID: FS 09 @ 4' (H235095-08)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2023	ND	2.06	103	2.00	0.135	
Toluene*	<0.050	0.050	09/21/2023	ND	2.10	105	2.00	0.217	
Ethylbenzene*	< 0.050	0.050	09/21/2023	ND	2.07	103	2.00	0.772	
Total Xylenes*	<0.150	0.150	09/21/2023	ND	6.32	105	6.00	2.26	
Total BTEX	<0.300	0.300	09/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
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	09/21/2023	ND	416	104	400	7.41	
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	09/20/2023	ND	233	116	200	5.18	
DRO >C10-C28*	<10.0	10.0	09/20/2023	ND	231	115	200	5.90	
EXT DRO >C28-C36	<10.0	10.0	09/20/2023	ND					
Surrogate: 1-Chlorooctane	93.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

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Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/20/2023 Sampling Date: 09/19/2023

Reported: 09/26/2023 Sampling Type: Soil

Project Name: MCA 95 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03D2057075 Dionica Hinojos

Project Location: MAVERICK (32.817529-103.787126)

Sample ID: FS 10 @ 4' (H235095-09)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2023	ND	2.06	103	2.00	0.135	
Toluene*	<0.050	0.050	09/21/2023	ND	2.10	105	2.00	0.217	
Ethylbenzene*	<0.050	0.050	09/21/2023	ND	2.07	103	2.00	0.772	
Total Xylenes*	<0.150	0.150	09/21/2023	ND	6.32	105	6.00	2.26	
Total BTEX	<0.300	0.300	09/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 71.5-13	4						
Chloride, SM4500CI-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	09/21/2023	ND	416	104	400	7.41	
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	09/20/2023	ND	233	116	200	5.18	
DRO >C10-C28*	15.3	10.0	09/20/2023	ND	231	115	200	5.90	
EXT DRO >C28-C36	<10.0	10.0	09/20/2023	ND					
Surrogate: 1-Chlorooctane	93.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

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Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/20/2023 Sampling Date: 09/19/2023

Reported: 09/26/2023 Sampling Type: Soil

Project Name: MCA 95 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03D2057075 Dionica Hinojos

Project Location: MAVERICK (32.817529-103.787126)

Sample ID: FS 11 @ 6' (H235095-10)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2023	ND	2.06	103	2.00	0.135	
Toluene*	<0.050	0.050	09/21/2023	ND	2.10	105	2.00	0.217	
Ethylbenzene*	<0.050	0.050	09/21/2023	ND	2.07	103	2.00	0.772	
Total Xylenes*	<0.150	0.150	09/21/2023	ND	6.32	105	6.00	2.26	
Total BTEX	<0.300	0.300	09/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 71.5-13	4						
Chloride, SM4500CI-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	09/21/2023	ND	416	104	400	7.41	
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	09/20/2023	ND	233	116	200	5.18	
DRO >C10-C28*	<10.0	10.0	09/20/2023	ND	231	115	200	5.90	
EXT DRO >C28-C36	<10.0	10.0	09/20/2023	ND					
Surrogate: 1-Chlorooctane	85.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.8	% 49.1-14	8						

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Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/20/2023 Sampling Date: 09/19/2023

Reported: 09/26/2023 Sampling Type: Soil

Project Name: MCA 95 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03D2057075 Dionica Hinojos

Project Location: MAVERICK (32.817529-103.787126)

Sample ID: FS 12 @ 6' (H235095-11)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2023	ND	2.06	103	2.00	0.135	
Toluene*	<0.050	0.050	09/21/2023	ND	2.10	105	2.00	0.217	
Ethylbenzene*	<0.050	0.050	09/21/2023	ND	2.07	103	2.00	0.772	
Total Xylenes*	<0.150	0.150	09/21/2023	ND	6.32	105	6.00	2.26	
Total BTEX	<0.300	0.300	09/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	% 71.5-13	4						
Chloride, SM4500CI-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	09/21/2023	ND	416	104	400	7.41	
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	09/20/2023	ND	233	116	200	5.18	
DRO >C10-C28*	<10.0	10.0	09/20/2023	ND	231	115	200	5.90	
EXT DRO >C28-C36	<10.0	10.0	09/20/2023	ND					
Surrogate: 1-Chlorooctane	95.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

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Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/20/2023 Sampling Date: 09/19/2023

Reported: 09/26/2023 Sampling Type: Soil

Project Name: MCA 95 Sampling Condition: Cool & Intact
Project Number: 03D2057075 Sample Received By: Dionica Hinojos

Project Location: MAVERICK (32.817529-103.787126)

Sample ID: FS 13 @ 1' (H235095-12)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2023	ND	2.06	103	2.00	0.135	
Toluene*	<0.050	0.050	09/21/2023	ND	2.10	105	2.00	0.217	
Ethylbenzene*	< 0.050	0.050	09/21/2023	ND	2.07	103	2.00	0.772	
Total Xylenes*	<0.150	0.150	09/21/2023	ND	6.32	105	6.00	2.26	
Total BTEX	<0.300	0.300	09/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500CI-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	09/21/2023	ND	416	104	400	7.41	
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	09/20/2023	ND	233	116	200	5.18	
DRO >C10-C28*	<10.0	10.0	09/20/2023	ND	231	115	200	5.90	
EXT DRO >C28-C36	<10.0	10.0	09/20/2023	ND					
Surrogate: 1-Chlorooctane	92.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

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Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/20/2023 Sampling Date: 09/19/2023

Reported: 09/26/2023 Sampling Type: Soil

Project Name: MCA 95 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03D2057075 Dionica Hinojos

Project Location: MAVERICK (32.817529-103.787126)

Sample ID: FS 14 @ 4' (H235095-13)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2023	ND	2.06	103	2.00	0.135	
Toluene*	<0.050	0.050	09/21/2023	ND	2.10	105	2.00	0.217	
Ethylbenzene*	<0.050	0.050	09/21/2023	ND	2.07	103	2.00	0.772	
Total Xylenes*	<0.150	0.150	09/21/2023	ND	6.32	105	6.00	2.26	
Total BTEX	<0.300	0.300	09/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 71.5-13	4						
Chloride, SM4500CI-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	09/21/2023	ND	416	104	400	7.41	
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	09/21/2023	ND	233	116	200	5.18	
DRO >C10-C28*	<10.0	10.0	09/21/2023	ND	231	115	200	5.90	
EXT DRO >C28-C36	<10.0	10.0	09/21/2023	ND					
Surrogate: 1-Chlorooctane	92.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

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Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

CARDINAL Laboratories 101 East Marland, Hobbs, NM 8824

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

Company Name: Co		*		ANALYSIS	YSIS REQUEST
Address: 612 UNT FON 65 HU	N.V.	Company:			
city: COUNSDAY State: NIM	Zipisokala	Attn:			
Phone #: 120-884 - 1808 Fax #:		Address:			
Project #: (BD2057075 Project Owner:	Yowenich	City:			
Project Name: MOA OS		State: Zip:			
Project Location: 2 3 7529 + 18. T	181,126	Phone #:		5	
Sampler Name: \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	9	Fax #:		le:	
FOR LAB USE ONLY	MATRIX	PRESERV. SAN	SAMPLING	10	
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Lab I.D. Sample I.D.	UDGE	THER: CID/BASE: E / COOL THER:		<u>QY</u>	
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EASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the already for the client for the	claim arising whether based in contract or	tort, shall be limited to the amount pa	aid by the client for the		
wice. In no event shall Cardinal be liable for incidental or consequential damages, including without making, turness insured in unusual and uses a feet completion of the applicable liables, or loss of profits incurred by client, its substitutions, loss of use, or loss of profits incurred by client, its substitutions, liables, or successors. "Fing out of or relaided to the performance of services hereunder by Cardinal, regardless of whether such claim is based u" any of the above stated reasons or otherwise.	without limitation, business interruptions, loss dinal, regardless of whether such claim is b	sof use, or loss of profits incurred by client, its subsidiaries of use, or loss of profits incurred by client, its subsidiaries assed u مرابع any of the above stated reasons or otherwise	ter completion of the applicable client, its subsidiaries, easons or otherwise.		
Jane 9/w/s	Received By:		Verbal Result: ☐ Yes ☐ No ☐ Add'I Phone #: All Results are emailed. Please provide Émail addresse.	■ No Add'l Phone #: Ase provide Émail addresse Ad	ne#:
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CHAIN-OF CUSTODY AND ANALYSIS REQUEST



c@cardinallaham	. Please email changes to co	† Cardinal cannot accept verbal changes. Please email changes to color keep	
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Verbal Result: ☐ Yes ☐ No Add'I Phone #: All Results are emailed. Pieaze provide Email address:	Verbal Result: All Results are	Time: (124)	M
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ne applicable	all be limited to the amount paid by the client for t by Cardinal within 30 days after completion of the	talyses/All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable invices / in the event shall Cardinal be liable for incidental or consequented damages including the shall Cardinal be liable for incidental or consequented damages including without a shall cardinal be liable for incidental or consequented damages including without a shall cardinal within 30 days after completion of the applicable	nalyses. All claims including thos
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	Phone #:	52. 817529 - 138. 787124 Phot	Project Location:
	e: Zip:	YUH US State:	Project Name:
	••	02057075 Project Owner: Mallehold City:	Project #:
	Address:	-884-186 Fax#: Addi	Phone #: 20-
		State: NM zib: (1822) Attn:	city: W/5
	Company:	,	Address: Sill
- 1	# A,Z	P.O.	Project Manager:
ANALYSIS REQUEST	BILL TO	60501W/1	company Name:
	3	(5/5) 393-2326 FAX (5/5) 393-2476	



September 27, 2023

AIMEE COLE ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: MCA 95

Enclosed are the results of analyses for samples received by the laboratory on 09/22/23 12:57.

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/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/22/2023 Sampling Date: 09/21/2023

Reported: 09/27/2023 Sampling Type: Soil Project Name: MCA 95 Sampling Condition: Coo

Project Name: MCA 95 Sampling Condition: Cool & Intact
Project Number: 03D2057075 Sample Received By: Dionica Hinojos

Project Location: MAVERICK (32.817529-103.787126)

Sample ID: SW 02 @ 0-4' (H235172-01)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2023	ND	1.95	97.5	2.00	4.14	
Toluene*	<0.050	0.050	09/25/2023	ND	2.05	102	2.00	5.37	
Ethylbenzene*	<0.050	0.050	09/25/2023	ND	2.20	110	2.00	4.94	
Total Xylenes*	<0.150	0.150	09/25/2023	ND	6.00	100	6.00	5.19	
Total BTEX	<0.300	0.300	09/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/25/2023	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2023	ND	189	94.3	200	3.12	
DRO >C10-C28*	<10.0	10.0	09/25/2023	ND	204	102	200	0.0900	
EXT DRO >C28-C36	<10.0	10.0	09/25/2023	ND					
Surrogate: 1-Chlorooctane	76.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	77.3	% 49.1-14	8						

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Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/22/2023 Sampling Date: 09/21/2023

Reported: 09/27/2023 Sampling Type: Soil

Project Name: MCA 95 Sampling Condition: Cool & Intact
Project Number: 03D2057075 Sample Received By: Dionica Hinojos

Project Location: MAVERICK (32.817529-103.787126)

Sample ID: SW 03 @ 0-4' (H235172-02)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2023	ND	1.95	97.5	2.00	4.14	
Toluene*	<0.050	0.050	09/25/2023	ND	2.05	102	2.00	5.37	
Ethylbenzene*	< 0.050	0.050	09/25/2023	ND	2.20	110	2.00	4.94	
Total Xylenes*	<0.150	0.150	09/25/2023	ND	6.00	100	6.00	5.19	
Total BTEX	<0.300	0.300	09/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	114	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/25/2023	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2023	ND	189	94.3	200	3.12	
DRO >C10-C28*	<10.0	10.0	09/25/2023	ND	204	102	200	0.0900	
EXT DRO >C28-C36	<10.0	10.0	09/25/2023	ND					
Surrogate: 1-Chlorooctane	77.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	77.8	% 49.1-14	8						

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Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/22/2023 Sampling Date: 09/21/2023

Reported: 09/27/2023 Sampling Type: Soil

Project Name: MCA 95 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03D2057075 Dionica Hinojos

Project Location: MAVERICK (32.817529-103.787126)

Sample ID: SW 04 @ 0-4' (H235172-03)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2023	ND	1.95	97.5	2.00	4.14	
Toluene*	<0.050	0.050	09/25/2023	ND	2.05	102	2.00	5.37	
Ethylbenzene*	<0.050	0.050	09/25/2023	ND	2.20	110	2.00	4.94	
Total Xylenes*	<0.150	0.150	09/25/2023	ND	6.00	100	6.00	5.19	
Total BTEX	<0.300	0.300	09/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/25/2023	ND	432	108	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2023	ND	189	94.3	200	3.12	
DRO >C10-C28*	<10.0	10.0	09/25/2023	ND	204	102	200	0.0900	
EXT DRO >C28-C36	<10.0	10.0	09/25/2023	ND					
Surrogate: 1-Chlorooctane	77.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	78.4	% 49.1-14	8						

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Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/22/2023 Sampling Date: 09/21/2023

Reported: 09/27/2023 Sampling Type: Soil

Project Name: MCA 95 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03D2057075 Dionica Hinojos

Project Location: MAVERICK (32.817529-103.787126)

Sample ID: SW 05 @ 0-4' (H235172-04)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2023	ND	1.95	97.5	2.00	4.14	
Toluene*	<0.050	0.050	09/25/2023	ND	2.05	102	2.00	5.37	
Ethylbenzene*	<0.050	0.050	09/25/2023	ND	2.20	110	2.00	4.94	
Total Xylenes*	<0.150	0.150	09/25/2023	ND	6.00	100	6.00	5.19	
Total BTEX	<0.300	0.300	09/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/25/2023	ND	432	108	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2023	ND	189	94.3	200	3.12	
DRO >C10-C28*	<10.0	10.0	09/25/2023	ND	204	102	200	0.0900	
EXT DRO >C28-C36	<10.0	10.0	09/25/2023	ND					
Surrogate: 1-Chlorooctane	79.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.6	% 49.1-14	8						

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Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/22/2023 Sampling Date: 09/21/2023

Reported: 09/27/2023 Sampling Type: Soil

Project Name: MCA 95 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03D2057075 Dionica Hinojos

Project Location: MAVERICK (32.817529-103.787126)

Sample ID: SW 06 @ 0-4' (H235172-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2023	ND	1.95	97.5	2.00	4.14	
Toluene*	<0.050	0.050	09/25/2023	ND	2.05	102	2.00	5.37	
Ethylbenzene*	<0.050	0.050	09/25/2023	ND	2.20	110	2.00	4.94	
Total Xylenes*	<0.150	0.150	09/25/2023	ND	6.00	100	6.00	5.19	
Total BTEX	<0.300	0.300	09/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/25/2023	ND	432	108	400	3.64	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2023	ND	189	94.3	200	3.12	
DRO >C10-C28*	<10.0	10.0	09/25/2023	ND	204	102	200	0.0900	
EXT DRO >C28-C36	<10.0	10.0	09/25/2023	ND					
Surrogate: 1-Chlorooctane	78.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.7	% 49.1-14	8						

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Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/22/2023 Sampling Date: 09/21/2023

Reported: 09/27/2023 Sampling Type: Soil

Project Name: MCA 95 Sampling Condition: Cool & Intact
Project Number: 03D2057075 Sample Received By: Dionica Hinojos

Analyzed By: MS

Project Location: MAVERICK (32.817529-103.787126)

Sample ID: SW 07 @ 0-4' (H235172-06)

BTEX 8021B

	9/	9	7	7					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2023	ND	1.95	97.5	2.00	4.14	
Toluene*	<0.050	0.050	09/25/2023	ND	2.05	102	2.00	5.37	
Ethylbenzene*	<0.050	0.050	09/25/2023	ND	2.20	110	2.00	4.94	
Total Xylenes*	<0.150	0.150	09/25/2023	ND	6.00	100	6.00	5.19	
Total BTEX	<0.300	0.300	09/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/25/2023	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2023	ND	189	94.3	200	3.12	
DRO >C10-C28*	<10.0	10.0	09/25/2023	ND	204	102	200	0.0900	
EXT DRO >C28-C36	<10.0	10.0	09/25/2023	ND					
Surrogate: 1-Chlorooctane	79.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.4	% 49.1-14	8						

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Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/22/2023 Sampling Date: 09/21/2023

Reported: 09/27/2023 Sampling Type: Soil

Project Name: MCA 95 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03D2057075 Dionica Hinojos

Project Location: MAVERICK (32.817529-103.787126)

Sample ID: SW 07 @ 4-6' (H235172-07)

BTEX 8021B	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2023	ND	1.95	97.5	2.00	4.14	
Toluene*	<0.050	0.050	09/25/2023	ND	2.05	102	2.00	5.37	
Ethylbenzene*	<0.050	0.050	09/25/2023	ND	2.20	110	2.00	4.94	
Total Xylenes*	<0.150	0.150	09/25/2023	ND	6.00	100	6.00	5.19	
Total BTEX	<0.300	0.300	09/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/25/2023	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2023	ND	189	94.3	200	3.12	
DRO >C10-C28*	<10.0	10.0	09/25/2023	ND	204	102	200	0.0900	
EXT DRO >C28-C36	<10.0	10.0	09/25/2023	ND					
Surrogate: 1-Chlorooctane	79.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.5	% 49.1-14	8						

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Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/22/2023 Sampling Date: 09/21/2023 Reported: 09/27/2023 Sampling Type: Soil

Project Name: MCA 95 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03D2057075 Dionica Hinojos

Project Location: MAVERICK (32.817529-103.787126)

Sample ID: SW 08 @ 0-4' (H235172-08)

BTEX 8021B	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2023	ND	1.95	97.5	2.00	4.14	
Toluene*	<0.050	0.050	09/25/2023	ND	2.05	102	2.00	5.37	
Ethylbenzene*	<0.050	0.050	09/25/2023	ND	2.20	110	2.00	4.94	
Total Xylenes*	<0.150	0.150	09/25/2023	ND	6.00	100	6.00	5.19	
Total BTEX	<0.300	0.300	09/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/25/2023	ND	432	108	400	3.64	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2023	ND	189	94.3	200	3.12	
DRO >C10-C28*	<10.0	10.0	09/25/2023	ND	204	102	200	0.0900	
EXT DRO >C28-C36	<10.0	10.0	09/25/2023	ND					
Surrogate: 1-Chlorooctane	77.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	76.1	% 49.1-14	8						

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Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/22/2023 Sampling Date: 09/21/2023

Reported: 09/27/2023 Sampling Type: Soil MCA 95

Project Name: Sampling Condition: Cool & Intact Sample Received By: Project Number: 03D2057075 Dionica Hinojos

Project Location: MAVERICK (32.817529-103.787126)

Sample ID: SW 08 @ 4-6' (H235172-09)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2023	ND	1.95	97.5	2.00	4.14	
Toluene*	<0.050	0.050	09/25/2023	ND	2.05	102	2.00	5.37	
Ethylbenzene*	<0.050	0.050	09/25/2023	ND	2.20	110	2.00	4.94	
Total Xylenes*	<0.150	0.150	09/25/2023	ND	6.00	100	6.00	5.19	
Total BTEX	<0.300	0.300	09/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/25/2023	ND	432	108	400	3.64	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2023	ND	189	94.3	200	3.12	
DRO >C10-C28*	<10.0	10.0	09/25/2023	ND	204	102	200	0.0900	
EXT DRO >C28-C36	<10.0	10.0	09/25/2023	ND					
Surrogate: 1-Chlorooctane	73.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	74.9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/22/2023 Sampling Date: 09/21/2023

Reported: 09/27/2023 Sampling Type: Soil

Project Name: MCA 95 Sampling Condition: Cool & Intact
Project Number: 03D2057075 Sample Received By: Dionica Hinojos

Project Location: MAVERICK (32.817529-103.787126)

Sample ID: SW 09 @ 0-4' (H235172-10)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2023	ND	1.95	97.5	2.00	4.14	
Toluene*	<0.050	0.050	09/25/2023	ND	2.05	102	2.00	5.37	
Ethylbenzene*	<0.050	0.050	09/25/2023	ND	2.20	110	2.00	4.94	
Total Xylenes*	<0.150	0.150	09/25/2023	ND	6.00	100	6.00	5.19	
Total BTEX	<0.300	0.300	09/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/25/2023	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2023	ND	189	94.3	200	3.12	
DRO >C10-C28*	<10.0	10.0	09/25/2023	ND	204	102	200	0.0900	
EXT DRO >C28-C36	<10.0	10.0	09/25/2023	ND					
Surrogate: 1-Chlorooctane	75.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	76.2	% 49.1-14	8						

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Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 09/22/2023 Sampling Date: 09/21/2023

Reported: 09/27/2023 Sampling Type: Soil

Project Name: MCA 95 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03D2057075 Dionica Hinojos

Project Location: MAVERICK (32.817529-103.787126)

Sample ID: SW 09 @ 4-6' (H235172-11)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2023	ND	1.95	97.5	2.00	4.14	
Toluene*	<0.050	0.050	09/25/2023	ND	2.05	102	2.00	5.37	
Ethylbenzene*	<0.050	0.050	09/25/2023	ND	2.20	110	2.00	4.94	
Total Xylenes*	<0.150	0.150	09/25/2023	ND	6.00	100	6.00	5.19	
Total BTEX	<0.300	0.300	09/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/25/2023	ND	432	108	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2023	ND	189	94.3	200	3.12	
DRO >C10-C28*	<10.0	10.0	09/25/2023	ND	204	102	200	0.0900	
EXT DRO >C28-C36	<10.0	10.0	09/25/2023	ND					
Surrogate: 1-Chlorooctane	76.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	77.5	% 49.1-14	8						

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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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Celeg D. Freene

CHAIN-OF-CUSTODY AND ANALYS'S REQUEST



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Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com	Sample Condition Cool Infact Cool Infact Infact Ves No No		Received By:	Received By:	rdless of whether such claim is based of	arising whether based in contract of fort, shall be limited to the amount paur by the circuit our terms arising whether based in contract of fort, shall be limited to the amount paur by the circuit of the left of of the	()							×	WAST SOIL OIL SLUE OTHE			MATRIX	Fax #:	Phone #:	State:	JUNEY City:	Address:	8270 Attn:	Company:	P.O. 1	
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



Sampler - UPS - Bus - Other: Corrected Temp. °C	Delivered By (Circle One) Observed Temp. °C) 1 (0)	Time: 7: M	Relinquished By: Date 7/27 Received	analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, service-service arisin out of or related to the netformance of services hereunder by Cardinal 1 - verifies of whether such claim is based upon any of the above stated reasons or oftherwise.	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the		•		-		Lab I.D. Sample I.D.	_	G	Sampler Name:	Project Location: 3/ 5/75/9, 108, 7970	Project Name:	Project #: 1802057075 Project Owner: Mile	e#: 170384 - 126Fax#:	City: 100/15/200 State: 107/1/Zip: 88	Address: 577 Not 1 Pour 15 Tww	Project Manager:		(3/3) 333-Z3Z0 FAX (3/3) 333-Z4/0
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Thermometer ID #140 Correction Factor 0°C Correction Factor 0°C No No Corrected Temp. °C	Bacteria (only) Sa	ole a ensumment in the convert a let bolling	ult: ☐ Yes 【 P'o Add'I Phone #: are emailed. Please provide 5mail address:	pplicable	ent for the				XXXX		8 ton	TE POY	X		5							ANALYSIS REQUEST	

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Josh Adams Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701

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JOB DESCRIPTION

MCA 95/Maverick SDG NUMBER 03D2057075

JOB NUMBER

890-4183-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

Authorization

Generated 3/3/2023 1:03:32 PM

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

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

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Client: Ensolum
Project/Site: MCA 95/Maverick
Laboratory Job ID: 890-4183-1
SDG: 03D2057075

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Definitions/Glossary

Job ID: 890-4183-1 Client: Ensolum Project/Site: MCA 95/Maverick

SDG: 03D2057075

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

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

%R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

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)

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

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

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

Practical Quantitation Limit **PQL**

PRES Presumptive **Quality Control** QC

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Project/Site: MCA 95/Maverick

Job ID: 890-4183-1

SDG: 03D2057075

Job ID: 890-4183-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4183-1

Receipt

The samples were received on 2/23/2023 2:52 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 2.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS01 (890-4183-1) and SS02 (890-4183-2).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-25235-A-61-J MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: SS01 (890-4183-1) and SS02 (890-4183-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-47512 and analytical batch 880-47507 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: SS02 (890-4183-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (LCS 880-47616/1-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (890-4197-A-10-H). 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 880-47312 and analytical batch 880-47268 was outside the upper control limits.

Method 8015MOD NM: Surrogate recovery for the following sample was outside control limits: SS02 (890-4183-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-47312 and analytical batch 880-47268 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.

HPLC/IC

Method 300 ORGFM 28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-47518 and analytical batch 880-47637 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Matrix: Solid

Job ID: 890-4183-1

Project/Site: MCA 95/Maverick SDG: 03D2057075

Client Sample ID: SS01 Lab Sample ID: 890-4183-1

Client Sample ID: SS01

Date Collected: 02/22/23 15:20

Date Received: 02/23/23 14:52

Sample Depth: 0.5'

Client: Ensolum

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.277		0.0996	mg/Kg		03/01/23 09:04	03/01/23 18:56	50
Toluene	0.242		0.0996	mg/Kg		03/01/23 09:04	03/01/23 18:56	50
Ethylbenzene	<0.0996	U	0.0996	mg/Kg		03/01/23 09:04	03/01/23 18:56	50
m-Xylene & p-Xylene	<0.199	U	0.199	mg/Kg		03/01/23 09:04	03/01/23 18:56	50
o-Xylene	<0.0996	U	0.0996	mg/Kg		03/01/23 09:04	03/01/23 18:56	50
Xylenes, Total	<0.199	U	0.199	mg/Kg		03/01/23 09:04	03/01/23 18:56	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	139	S1+	70 - 130			03/01/23 09:04	03/01/23 18:56	50
1,4-Difluorobenzene (Surr)	88		70 - 130			03/01/23 09:04	03/01/23 18:56	50
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	0.519		0.199	mg/Kg			03/02/23 09:50	
	•		•	Unit	n	Propared	Analyzod	Dil Fa
	•	ICS (DRO) (Qualifier	GC) RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	•		•	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 02/28/23 10:23	
Analyte Total TPH	Result 253	Qualifier	RL 49.9		<u>D</u>	Prepared		
Analyte Total TPH Method: SW846 8015B NM - Die:	Result 253 sel Range Orga	Qualifier nics (DRO)	RL 49.9	mg/Kg		<u> </u>	02/28/23 10:23	
Analyte Total TPH Method: SW846 8015B NM - Die:	Result 253 sel Range Orga Result	Qualifier nics (DRO) Qualifier	RL 49.9		<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result 253 sel Range Orga	Qualifier nics (DRO) Qualifier	RL 49.9	mg/Kg	<u> </u>	<u> </u>	02/28/23 10:23	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 253 sel Range Orga Result	Qualifier nics (DRO) Qualifier	RL 49.9 (GC)	mg/Kg	<u> </u>	Prepared	02/28/23 10:23 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result 253 sel Range Orga Result <49.9	Qualifier nics (DRO) Qualifier U	(GC) RL 49.9	mg/Kg Unit mg/Kg	<u> </u>	Prepared 02/27/23 12:09	02/28/23 10:23 Analyzed 02/28/23 04:23	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result 253 sel Range Orga Result <49.9 253	Qualifier nics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg	<u> </u>	Prepared 02/27/23 12:09 02/27/23 12:09	02/28/23 10:23 Analyzed 02/28/23 04:23 02/28/23 04:23	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate	Result 253	Qualifier nics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg	<u> </u>	Prepared 02/27/23 12:09 02/27/23 12:09 02/27/23 12:09	02/28/23 10:23 Analyzed 02/28/23 04:23 02/28/23 04:23 02/28/23 04:23	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result 253	Qualifier nics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9 49.9 Limits	mg/Kg Unit mg/Kg mg/Kg	<u> </u>	Prepared 02/27/23 12:09 02/27/23 12:09 02/27/23 12:09 Prepared	02/28/23 10:23 Analyzed 02/28/23 04:23 02/28/23 04:23 02/28/23 04:23 Analyzed	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result 253	Qualifier nics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg	<u> </u>	Prepared 02/27/23 12:09 02/27/23 12:09 02/27/23 12:09 Prepared 02/27/23 12:09	02/28/23 10:23 Analyzed 02/28/23 04:23 02/28/23 04:23 02/28/23 04:23 Analyzed 02/28/23 04:23	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: EPA 300.0 - Anions, Ion Analyte	Result 253 253	Qualifier nics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg	<u> </u>	Prepared 02/27/23 12:09 02/27/23 12:09 02/27/23 12:09 Prepared 02/27/23 12:09	02/28/23 10:23 Analyzed 02/28/23 04:23 02/28/23 04:23 02/28/23 04:23 Analyzed 02/28/23 04:23	Dil Fac

Client Sample ID: SS02 Lab Sample ID: 890-4183-2

Date Collected: 02/22/23 15:25 Date Received: 02/23/23 14:52

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2.80		0.101	mg/Kg		03/01/23 09:04	03/01/23 19:16	50
Toluene	83.4		0.990	mg/Kg		03/02/23 09:28	03/02/23 20:18	500
Ethylbenzene	119		0.990	mg/Kg		03/02/23 09:28	03/02/23 20:18	500
m-Xylene & p-Xylene	114		1.98	mg/Kg		03/02/23 09:28	03/02/23 20:18	500
o-Xylene	47.8		0.990	mg/Kg		03/02/23 09:28	03/02/23 20:18	500
Xylenes, Total	162		1.98	mg/Kg		03/02/23 09:28	03/02/23 20:18	500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	423	S1+	70 - 130			03/01/23 09:04	03/01/23 19:16	50

Eurofins Carlsbad

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Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-4183-2

Client Sample Results

Client: Ensolum Job ID: 890-4183-1 Project/Site: MCA 95/Maverick SDG: 03D2057075

Date Collected: 02/22/23 15:25 Date Received: 02/23/23 14:52

Client Sample ID: SS02

Sample Depth: 0.5'

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1,4-Difluorobenzene (Surr)	84		70 - 130			03/01/23 09:04	03/01/23 19:16	5
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	367		1.98	mg/Kg			03/02/23 09:50	
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	13500		500	mg/Kg			02/28/23 10:23	
Analyte Gasoline Range Organics	Result 4270	Qualifier	RL 500	Unit mg/Kg	<u>D</u>	Prepared 02/27/23 12:09	Analyzed 02/28/23 04:02	Dil Fa
(GRO)-C6-C10			500	mg/Kg		02/27/23 12:09	02/28/23 04:02	
Diesel Range Organics (Over	9200		000	1119/119				1
C10-C28)	9200 <500	U	500	mg/Kg		02/27/23 12:09	02/28/23 04:02	
C10-C28) Oll Range Organics (Over C28-C36)						02/27/23 12:09 Prepared	02/28/23 04:02 Analyzed	1 1 <i>Dil Fa</i>
C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<500	Qualifier	500					1 Dil Fa
Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<500 **Recovery 140	Qualifier	500			Prepared	Analyzed	1
C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<500 **Recovery 140 210	Qualifier S1+ S1+	500 Limits 70 - 130 70 - 130			Prepared 02/27/23 12:09	Analyzed 02/28/23 04:02	1 Dil F a
C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<500 **Recovery 140 210 Chromatograp	Qualifier S1+ S1+	500 Limits 70 - 130 70 - 130		D	Prepared 02/27/23 12:09	Analyzed 02/28/23 04:02	1 Dil F a

Surrogate Summary

Client: Ensolum Job ID: 890-4183-1 Project/Site: MCA 95/Maverick SDG: 03D2057075

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-25235-A-61-J MS	Matrix Spike	131 S1+	105	
880-25235-A-61-K MSD	Matrix Spike Duplicate	110	104	
890-4183-1	SS01	139 S1+	88	
890-4183-2	SS02	423 S1+	84	
890-4197-A-10-F MS	Matrix Spike	102	106	
890-4197-A-10-G MSD	Matrix Spike Duplicate	108	110	
LCS 880-47512/1-A	Lab Control Sample	110	109	
LCS 880-47616/1-A	Lab Control Sample	133 S1+	108	
LCSD 880-47512/2-A	Lab Control Sample Dup	113	109	
LCSD 880-47616/2-A	Lab Control Sample Dup	122	104	
MB 880-47512/5-A	Method Blank	78	88	
MB 880-47616/5-A	Method Blank	83	83	

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

		1001	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-25190-A-1-E MS	Matrix Spike	107	95
880-25190-A-1-F MSD	Matrix Spike Duplicate	110	97
890-4183-1	SS01	100	95
890-4183-2	SS02	140 S1+	210 S1+
LCS 880-47312/2-A	Lab Control Sample	95	92
LCSD 880-47312/3-A	Lab Control Sample Dup	94	89
MB 880-47312/1-A	Method Blank	142 S1+	149 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-4183-1 SDG: 03D2057075 Project/Site: MCA 95/Maverick

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-47512/5-A

Matrix: Solid

Analysis Batch: 47507

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 47512

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/01/23 09:04	03/01/23 11:23	
Toluene	<0.00200	U	0.00200	mg/Kg		03/01/23 09:04	03/01/23 11:23	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/01/23 09:04	03/01/23 11:23	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/01/23 09:04	03/01/23 11:23	
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/01/23 09:04	03/01/23 11:23	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/01/23 09:04	03/01/23 11:23	

мв мв

MD MD

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130	03/01/23 09:04	03/01/23 11:23	1
1,4-Difluorobenzene (Surr)	88		70 - 130	03/01/23 09:04	03/01/23 11:23	1

Lab Sample ID: LCS 880-47512/1-A

Matrix: Solid

Analysis Batch: 47507

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 47512

	Opike	L03	LOG			/OIXEC	
Analyte	Added	Result	Qualifier Uni	it D	%Rec	Limits	
Benzene	0.100	0.1239	mg	/Kg	124	70 - 130	
Toluene	0.100	0.1148	mg.	/Kg	115	70 - 130	
Ethylbenzene	0.100	0.1181	mg	/Kg	118	70 - 130	
m-Xylene & p-Xylene	0.200	0.2467	mg	/Kg	123	70 - 130	
o-Xylene	0.100	0.1213	mg.	/Kg	121	70 - 130	

LCS LCS

Surrogate	%Recovery Qualific	er Limits
4-Bromofluorobenzene (Surr)	110	70 - 130
1,4-Difluorobenzene (Surr)	109	70 - 130

Lab Sample ID: LCSD 880-47512/2-A

Matrix: Solid

Analysis Batch: 47507

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

Prep Batch: 47512

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1227		mg/Kg		123	70 - 130	1	35	
Toluene	0.100	0.1126		mg/Kg		113	70 - 130	2	35	
Ethylbenzene	0.100	0.1182		mg/Kg		118	70 - 130	0	35	
m-Xylene & p-Xylene	0.200	0.2506		mg/Kg		125	70 - 130	2	35	
o-Xylene	0.100	0.1236		mg/Kg		124	70 - 130	2	35	

LCSD LCSD

Surrogate	%Recovery Qualifie	r Limits
4-Bromofluorobenzene (Surr)	113	70 - 130
1 4-Difluorobenzene (Surr)	109	70 - 130

Lab Sample ID: 880-25235-A-61-J MS

Matrix: Solid

Analysis Batch: 47507

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

Prep Batch: 47512

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.0990	0.09565		mg/Kg	_	97	70 - 130	
Toluene	<0.00200	U	0.0990	0.1047		mg/Kg		106	70 - 130	

Client: Ensolum

Job ID: 890-4183-1 Project/Site: MCA 95/Maverick SDG: 03D2057075

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

Lab Sample ID: 880-25235-A-61-J MS

Lab Sample ID: 880-25235-A-61-K MSD

Analysis Batch: 47507

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

Prep Batch: 47512

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Ethylbenzene <0.00200 U 0.0990 0.1212 122 70 - 130 mg/Kg m-Xylene & p-Xylene < 0.00399 UF1 0.198 0.2589 F1 mg/Kg 131 70 - 130 0.0990 o-Xylene <0.00200 UF1 0.1302 F1 mg/Kg 70 - 130 132

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 47512

Analysis Batch: 47507 Sample Sample Spike MSD MSD RPD Result Qualifier Added Result Qualifier RPD Limit Analyte Unit %Rec Limits 0.100 Benzene <0.00200 U 0.1051 mg/Kg 105 70 - 130 9 35 Toluene <0.00200 0.100 0.1030 103 mg/Kg 70 - 130 2 35 Ethylbenzene <0.00200 U 0.100 0.1087 mg/Kg 108 70 - 130 11 35 0.200 70 - 130 35 m-Xylene & p-Xylene < 0.00399 UF1 0.2271 mg/Kg 113 13 0.100 <0.00200 U F1 0.1124 112 70 - 130 o-Xylene mg/Kg 15

MSD MSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	110	70 - 130
1,4-Difluorobenzene (Surr)	104	70 - 130

Lab Sample ID: MB 880-47616/5-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 47603

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 47616

MB MB

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/02/23 09:28	03/02/23 11:08	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/02/23 09:28	03/02/23 11:08	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/02/23 09:28	03/02/23 11:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/02/23 09:28	03/02/23 11:08	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/02/23 09:28	03/02/23 11:08	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/02/23 09:28	03/02/23 11:08	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83	70 - 130	03/02/23 09:28	03/02/23 11:08	1
1 4-Difluorobenzene (Surr)	83	70 - 130	03/02/23 09:28	03/02/23 11:08	1

Lab Sample ID: LCS 880-47616/1-A

Matrix: Solid

Analysis Batch: 47603

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 47616

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	0.100	0.08324		mg/Kg		83	70 - 130
Toluene	0.100	0.08248		mg/Kg		82	70 - 130
Ethylbenzene	0.100	0.09740		mg/Kg		97	70 - 130
m-Xylene & p-Xylene	0.200	0.2063		mg/Kg		103	70 - 130

Prep Batch: 47616

QC Sample Results

Client: Ensolum Job ID: 890-4183-1
Project/Site: MCA 95/Maverick SDG: 03D2057075

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

Lab Sample ID: LCS 880-47616/1-A			Client Sample ID: Lab Control Sample
Matrix: Solid			Prep Type: Total/NA
Analysis Batch: 47603			Prep Batch: 47616
	Snika	100 100	9/ Bos

Analyte		Added	Result	Qualifier Un	it	D	%Rec	Limits	
o-Xylene		0.100	0.1060	mg	/Kg	_	106	70 - 130	
	LCS LCS								

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: LCSD 880-47616/2-A

Client Sample ID: Lab Control Sample Dup
Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 47603

Limit
35
35
35
35
35
_

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	122		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 890-4197-A-10-F MS

Matrix: Solid

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

Analysis Batch: 47603

Prep Batch: 47616

Sample Sa

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00202	U	0.100	0.1166		mg/Kg		114	70 - 130	
Toluene	0.00371		0.100	0.1033		mg/Kg		99	70 - 130	
Ethylbenzene	0.00518		0.100	0.1059		mg/Kg		100	70 - 130	
m-Xylene & p-Xylene	0.00916		0.201	0.2144		mg/Kg		102	70 - 130	
o-Xylene	0.00634		0.100	0.1057		mg/Kg		99	70 - 130	

o-Xylene	0.00634		0.100	0.1057	mg/Kg	99
	MS	MS				
Surrogate	%Recovery	Qualifier	Limits			
4-Bromofluorobenzene (Surr)	102		70 - 130			

106

Lab Sample ID: 890-4197-A-10-G MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Prep Type: Total/NA

70 - 130

Analysis Batch: 47603 Prep Batch: 47616

_	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00202	U	0.0990	0.1227	-	mg/Kg		122	70 - 130	5	35
Toluene	0.00371		0.0990	0.1085		mg/Kg		106	70 - 130	5	35
Ethylbenzene	0.00518		0.0990	0.1109		mg/Kg		107	70 - 130	5	35
m-Xylene & p-Xylene	0.00916		0.198	0.2277		mg/Kg		110	70 - 130	6	35
o-Xylene	0.00634		0.0990	0.1131		mg/Kg		108	70 - 130	7	35

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1,4-Difluorobenzene (Surr)

Client: Ensolum

Job ID: 890-4183-1 SDG: 03D2057075

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

Lab Sample ID: 890-4197-A-10-G MSD

Matrix: Solid

Analysis Batch: 47603

Project/Site: MCA 95/Maverick

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 47616

MSD MSD

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 108 70 - 130 1,4-Difluorobenzene (Surr) 110 70 - 130

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

Lab Sample ID: MB 880-47312/1-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 47268

Prep Type: Total/NA

Prep Batch: 47312

MB MB

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Gasoline Range Organics <50.0 U 50.0 02/27/23 12:09 02/27/23 19:55 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 02/27/23 12:09 02/27/23 19:55 C10-C28) Oll Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 02/27/23 12:09 02/27/23 19:55

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	142	S1+	70 - 130	02/27/23 12:09	02/27/23 19:55	1
o-Terphenyl	149	S1+	70 - 130	02/27/23 12:09	02/27/23 19:55	1

Lab Sample ID: LCS 880-47312/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Analysis Batch: 47268

Prep Type: Total/NA

Prep Batch: 47312

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	964.1		mg/Kg		96	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	976.9		mg/Kg		98	70 - 130	
C10-C28)								

LCS LCS

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	95	70 - 130
o-Terphenyl	92	70 - 130

Lab Sample ID: LCSD 880-47312/3-A

Matrix: Solid

Analysis Batch: 47268

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 47312

-	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	1033		mg/Kg		103	70 - 130	7	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	1011		mg/Kg		101	70 - 130	3	20
C10-C28)									

LCSD LCSD

Surrogate	%Recovery Qualifie	r Limits
1-Chlorooctane	94	70 - 130
o-Terphenvl	89	70 - 130

Job ID: 890-4183-1

SDG: 03D2057075

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

Lab Sample ID: 880-25190-A-1-E MS

Matrix: Solid

Analysis Batch: 47268

Project/Site: MCA 95/Maverick

Client: Ensolum

Client Sample ID: Matrix Spike

Prep Type: Total/NA Prep Batch: 47312

•	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics	<49.9	U	998	916.2		mg/Kg		88	70 - 130
(GRO)-C6-C10									
Diesel Range Organics (Over	157	F1 F2	998	742.2	F1	mg/Kg		59	70 - 130

C10-C28)

MS MS

Lab Sample ID: 880-25190-A-1-F MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	107		70 - 130
o-Terphenyl	95		70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 47312

Analysis Batch: 47268 Spike MSD MSD %Rec RPD Sample Sample Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits **RPD** Limit <49.9 U 999 91 Gasoline Range Organics 952.3 mg/Kg 70 - 130 4 20 (GRO)-C6-C10 Diesel Range Organics (Over 157 F1 F2 999 1035 F2 mg/Kg 88 70 - 130 33 20

C10-C28)

Matrix: Solid

MSD MSD %Recovery Qualifier Surrogate Limits 1-Chlorooctane 110 70 - 130 o-Terphenyl 97 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-47518/1-A Client Sample ID: Method Blank

Matrix: Solid Prep Type: Soluble

Analysis Batch: 47637

MB MB

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			03/02/23 15:29	1

Lab Sample ID: LCS 880-47518/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 47637

	Spike	LCS LCS				%Rec	
Analyte	Added	Result Qualifier	Unit	D	%Rec	Limits	
Chloride	250	251.4	ma/Ka		101	90 110	

Lab Sample ID: LCSD 880-47518/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 47637

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit Chloride 250 100 251.2 mg/Kg 90 - 110 20

QC Sample Results

Client: Ensolum Job ID: 890-4183-1 Project/Site: MCA 95/Maverick

SDG: 03D2057075

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-25169-A-11-C MS Client Sample ID: Matrix Spike

Matrix: Solid Prep Type: Soluble Analysis Batch: 47637

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Analyte Unit %Rec Limits Chloride 153 F1 249 340.0 F1 mg/Kg 75 90 - 110

Lab Sample ID: 880-25169-A-11-D MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Prep Type: Soluble

Analysis Batch: 47637

Sample Sample Spike MSD MSD %Rec RPD Result Qualifier Added Result Qualifier Limits RPD Limit Analyte Unit D %Rec Chloride 153 F1 249 341.4 F1 mg/Kg 76 90 - 110 0 20

QC Association Summary

Client: Ensolum Job ID: 890-4183-1
Project/Site: MCA 95/Maverick SDG: 03D2057075

GC VOA

Analysis Batch: 47507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4183-1	SS01	Total/NA	Solid	8021B	47512
890-4183-2	SS02	Total/NA	Solid	8021B	47512
MB 880-47512/5-A	Method Blank	Total/NA	Solid	8021B	47512
LCS 880-47512/1-A	Lab Control Sample	Total/NA	Solid	8021B	47512
LCSD 880-47512/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	47512
880-25235-A-61-J MS	Matrix Spike	Total/NA	Solid	8021B	47512
880-25235-A-61-K MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	47512

Prep Batch: 47512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4183-1	SS01	Total/NA	Solid	5035	
890-4183-2	SS02	Total/NA	Solid	5035	
MB 880-47512/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-47512/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-47512/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-25235-A-61-J MS	Matrix Spike	Total/NA	Solid	5035	
880-25235-A-61-K MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 47603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4183-2	SS02	Total/NA	Solid	8021B	47616
MB 880-47616/5-A	Method Blank	Total/NA	Solid	8021B	47616
LCS 880-47616/1-A	Lab Control Sample	Total/NA	Solid	8021B	47616
LCSD 880-47616/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	47616
890-4197-A-10-F MS	Matrix Spike	Total/NA	Solid	8021B	47616
890-4197-A-10-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	47616

Prep Batch: 47616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4183-2	SS02	Total/NA	Solid	5035	
MB 880-47616/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-47616/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-47616/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4197-A-10-F MS	Matrix Spike	Total/NA	Solid	5035	
890-4197-A-10-G MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 47623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4183-1	SS01	Total/NA	Solid	Total BTEX	- <u></u>
890-4183-2	SS02	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 47268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4183-1	SS01	Total/NA	Solid	8015B NM	47312
890-4183-2	SS02	Total/NA	Solid	8015B NM	47312
MB 880-47312/1-A	Method Blank	Total/NA	Solid	8015B NM	47312
LCS 880-47312/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	47312
LCSD 880-47312/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	47312
880-25190-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	47312

Eurofins Carlsbad

Page 15 of 23

QC Association Summary

Client: Ensolum Job ID: 890-4183-1 Project/Site: MCA 95/Maverick

SDG: 03D2057075

GC Semi VOA (Continued)

Analysis Batch: 47268 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25190-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	47312

Prep Batch: 47312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4183-1	SS01	Total/NA	Solid	8015NM Prep	
890-4183-2	SS02	Total/NA	Solid	8015NM Prep	
MB 880-47312/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-47312/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-47312/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-25190-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-25190-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 47415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4183-1	SS01	Total/NA	Solid	8015 NM	
890-4183-2	SS02	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 47518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4183-1	SS01	Soluble	Solid	DI Leach	
890-4183-2	SS02	Soluble	Solid	DI Leach	
MB 880-47518/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-47518/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-47518/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-25169-A-11-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-25169-A-11-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 47637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4183-1	SS01	Soluble	Solid	300.0	47518
890-4183-2	SS02	Soluble	Solid	300.0	47518
MB 880-47518/1-A	Method Blank	Soluble	Solid	300.0	47518
LCS 880-47518/2-A	Lab Control Sample	Soluble	Solid	300.0	47518
LCSD 880-47518/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	47518
880-25169-A-11-C MS	Matrix Spike	Soluble	Solid	300.0	47518
880-25169-A-11-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	47518

Client: Ensolum Job ID: 890-4183-1
Project/Site: MCA 95/Maverick SDG: 03D2057075

Client Sample ID: SS01 Lab Sample ID: 890-4183-1

Date Collected: 02/22/23 15:20 Matrix: Solid
Date Received: 02/23/23 14:52

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	47512	03/01/23 09:04	MNR	EET MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	47507	03/01/23 18:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47623	03/02/23 09:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			47415	02/28/23 10:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47312	02/27/23 12:09	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47268	02/28/23 04:23	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	47518	03/01/23 10:40	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	47637	03/02/23 17:49	CH	EET MID

Client Sample ID: SS02 Lab Sample ID: 890-4183-2

Date Collected: 02/22/23 15:25 Matrix: Solid

Date Received: 02/23/23 14:52

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	47512	03/01/23 09:04	MNR	EET MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	47507	03/01/23 19:16	MNR	EET MID
Total/NA	Prep	5035			5.05 g	5 mL	47616	03/02/23 09:28	MNR	EET MID
Total/NA	Analysis	8021B		500	5 mL	5 mL	47603	03/02/23 20:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47623	03/02/23 09:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			47415	02/28/23 10:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47312	02/27/23 12:09	AJ	EET MID
Total/NA	Analysis	8015B NM		10	1 uL	1 uL	47268	02/28/23 04:02	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	47518	03/01/23 10:40	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	47637	03/02/23 17:54	CH	EET MID

Laboratory References:

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

Released to Imaging: 1/10/2024 2:36:57 PM

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Accreditation/Certification Summary

Client: Ensolum
Project/Site: MCA 95/Maverick
Job ID: 890-4183-1
SDG: 03D2057075

Laboratory: Eurofins Midland

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

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-22-25	06-30-23
The following analytes	are included in this report, bu	it the laboratory is not certifi	ed by the governing authority. This list ma	av include analytes for y
the agency does not of	fer certification.	•	, , ,	.,
the agency does not of Analysis Method	fer certification. Prep Method	Matrix	Analyte	.,
0 ,		Matrix Solid	, , ,	

Method Summary

Client: Ensolum Job ID: 890-4183-1
Project/Site: MCA 95/Maverick SDG: 03D2057075

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

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Sample Summary

Client: Ensolum

Project/Site: MCA 95/Maverick

Job ID: 890-4183-1

SDG: 03D2057075

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	C
890-4183-1	SS01	Solid	02/22/23 15:20	02/23/23 14:52	0.5'
890-4183-2	SS02	Solid	02/22/23 15:25	02/23/23 14:52	0.5'

eurofins

Environment Testing

Project Name:

MCA 95/Maverick

☑ Routine

☐ Rush

Pres.

ANALYSIS REQUEST

Turn Around

oject Number:

City, State ZIP:

303-517-8437 Carsibad, NM 88220

Email: | jadams@ensolum.com

City, State ZIP:

Address:

ddress:

3122 Nat'l Parks Hwy

Company Name: Project Manager:

Ensolum, LLC Josh Adams

Chain of Custody

Company Name: Program: UST/P	Bill to: (if different) a.a.	Hobbs, NM (575) 392-7550. Carlsbad, NM (575) 988-3199	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296	Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
Program: UST/PST PRP Brownfields RRC Superfund	Work Order Comments	www.xenco.com Page of of		Work Order No:
fields RRC	omments	Page		
Superfund [of	_	
				3

State of Project:

ADaPT []

Other:

Level IV

None: NO

DI Water: H₂O

Preservative Codes

Deliverables: EDD

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	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Reinquished by: (Signature)

Basicad Date: 08/25/2020 Ray 2020 2			6						
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gnature) Date/Time	Received by: (Signature)	Relinquished by: (Signature)	ime	Date/Time		Received by: (Signature)	Receive	(Signature)	Reinquished by; (Sign
nrs itrol biated.	standard terms and condition rcumstances beyond the con- orced unless previously nego	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.	o Eurofins Xenco or expenses incu d to Eurofins Xen	nt company t or any losses ple submitte	ase order from clie ny responsibility f of \$5 for each san	stitutes a valid purch nd shall not assume a project and a charge	of samples const st of samples ar applied to each	nt and relinquishment liable only for the co arge of \$85.00 will be	tice: Signature of this docume service. Eurofins Xenco will b Eurofins Xenco. A minimum ci
Hg: 1631 / 245.1 / 7470 / 7471	MO NER SO AS SE	Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	Sb As Ba Be Cd (Al Sb As Ba	TCLP / SPLP 6010: 8RCRA	TCLP / SPLP	zed 8	200.8 / 6020: al(s) to be analy	Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed
FOR MO MO NI K SO AG SIO NO ST TI SO II V 70	Mo Ni K Co Ac Sir	0-0-0-0-				-			
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			1	\	5' C 1	525 5	2-12-23	S	2507
			11	1	5101	1520 .	2-12-13	5	3601
Sample Comments			ТРН (8 ВТЕХ	CHLO	Depth Grab/ # of Comp Cont	Time De	Date Sampled	on Matrix	Sample Identification
NaOntAscoloic Acid. GAT C			-	_	31	emperature:	Corrected Temperature		Total Containers:
Zn Acetate+NaOH: Zn			_	_	20.00	Reading:	Temperature Reading:	Yes No NIA	Sample Custody Seals:
Na ₂ S ₂ O ₃ : NaSO ₃	dy did the	890-4183 Chain of Custody			6,0	actor:	Correction Factor:	Yes No NIA	Cooler Custody Seals:
NaHOO NABIO					DM-507	-1	Thermometer ID:	Mes No	Samples Received Intact:
H ₃ PO ₄ : HP					rete	Wet Ice:	(Fes No	Temp Blank:	SAMPLE RECEIPT
H2SU4. H2					١.,	the lab, if received by 4:30pm			PO#:
	-				received by	TAT starts the day received by	nata	Julianna Falcomata	Sampler's Name:
<u>_</u>						Due Date:		32.817529, -103.787126	Project Location: 3
	_						0		

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4183-1 SDG Number: 03D2057075

Login Number: 4183 List Source: Eurofins Carlsbad

List Number: 1

Creator: Stutzman, Amanda

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

Login Sample Receipt Checklist

Client: Ensolum Job No

Job Number: 890-4183-1 SDG Number: 03D2057075

Login Number: 4183
List Source: Eurofins Midland
List Number: 2
List Creation: 02/27/23 08:59 AM

Creator: Rodriguez, Leticia

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

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<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Josh Adams Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701

Generated 3/7/2023 1:12:54 PM

JOB DESCRIPTION

MCA 95/Maverick SDG NUMBER 03D2057075

JOB NUMBER

890-4184-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

Authorization

Generated 3/7/2023 1:12:54 PM

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

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

Client: Ensolum
Project/Site: MCA 95/Maverick
Laboratory Job ID: 890-4184-1
SDG: 03D2057075

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Definitions/Glossary

Job ID: 890-4184-1 Client: Ensolum Project/Site: MCA 95/Maverick SDG: 03D2057075

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

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

S1+ Surrogate recovery exceeds control limits, high biased. 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.
n	Listed under the "D" column to designete that the regult is reported on a dry weight to

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

%R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit Contains No Free Liquid **CNF**

Duplicate Error Ratio (normalized absolute difference) DER

Dil Fac **Dilution Factor**

Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

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

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

MDL Method Detection Limit

ML Minimum Level (Dioxin) MPN Most Probable Number MOI Method Quantitation Limit

NC Not Calculated

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

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

PRES Presumptive **Quality Control** QC

Relative Error Ratio (Radiochemistry) **RER**

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum Job ID: 890-4184-1
Project/Site: MCA 95/Maverick SDG: 03D2057075

Job ID: 890-4184-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4184-1

Receipt

The sample was received on 2/23/2023 2:52 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: SS03 (890-4184-1).

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-47298 and analytical batch 880-47263 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.

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Matrix: Solid

Lab Sample ID: 890-4184-1

Client Sample Results

Client: Ensolum Job ID: 890-4184-1 Project/Site: MCA 95/Maverick SDG: 03D2057075

Client Sample ID: SS03

Date Collected: 02/22/23 15:30 Date Received: 02/23/23 14:52

Released to Imaging: 1/10/2024 2:36:57 PM

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *+	0.00200	mg/Kg		02/28/23 10:10	03/01/23 18:20	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/28/23 10:10	03/01/23 18:20	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/28/23 10:10	03/01/23 18:20	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		02/28/23 10:10	03/01/23 18:20	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/28/23 10:10	03/01/23 18:20	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		02/28/23 10:10	03/01/23 18:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130			02/28/23 10:10	03/01/23 18:20	1
1,4-Difluorobenzene (Surr)	99		70 - 130			02/28/23 10:10	03/01/23 18:20	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			03/07/23 13:34	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			02/28/23 11:34	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/27/23 10:15	02/28/23 04:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/27/23 10:15	02/28/23 04:58	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/27/23 10:15	02/28/23 04:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130			02/27/23 10:15	02/28/23 04:58	1
o-Terphenyl	99		70 - 130			02/27/23 10:15	02/28/23 04:58	1
Method: EPA 300.0 - Anions, Ion	• •	•						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	< 5.05	11	5.05	mg/Kg			02/28/23 15:53	1

Surrogate Summary

Client: Ensolum Job ID: 890-4184-1
Project/Site: MCA 95/Maverick SDG: 03D2057075

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-25235-A-57-A MS	Matrix Spike	101	92	
880-25235-A-57-B MSD	Matrix Spike Duplicate	92	91	
890-4184-1	SS03	130	99	
LCS 880-47407/1-A	Lab Control Sample	116	113	
LCSD 880-47407/2-A	Lab Control Sample Dup	115	94	
MB 880-47406/5-A	Method Blank	71	98	
MB 880-47407/5-A	Method Blank	77	87	

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)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-4174-A-1-B MS	Matrix Spike	90	94	
890-4174-A-1-C MSD	Matrix Spike Duplicate	90	94	
890-4184-1	SS03	89	99	
LCS 880-47298/2-A	Lab Control Sample	79	94	
LCSD 880-47298/3-A	Lab Control Sample Dup	78	96	
MB 880-47298/1-A	Method Blank	145 S1+	166 S1+	
Surrogate Legend				

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-4184-1 SDG: 03D2057075 Project/Site: MCA 95/Maverick

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-47406/5-A

Matrix: Solid

Analysis Batch: 47466

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 47406

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200	mg/Kg		02/28/23 10:00	02/28/23 18:07	
Toluene	<0.00200	U	0.00200	mg/Kg		02/28/23 10:00	02/28/23 18:07	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/28/23 10:00	02/28/23 18:07	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/28/23 10:00	02/28/23 18:07	
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/28/23 10:00	02/28/23 18:07	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/28/23 10:00	02/28/23 18:07	

MB MB

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	71		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

02/28/23 10:00 02/28/23 18:07 Client Sample ID: Method Blank

Analyzed

02/28/23 18:07

Prepared

02/28/23 10:00

Prep Type: Total/NA Prep Batch: 47407

Matrix: Solid

Lab Sample ID: MB 880-47407/5-A

Analysis Batch: 47466

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/28/23 09:06	03/01/23 08:16	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/28/23 09:06	03/01/23 08:16	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/28/23 09:06	03/01/23 08:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/28/23 09:06	03/01/23 08:16	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/28/23 09:06	03/01/23 08:16	1
Xylenes, Total	< 0.00400	U	0.00400	mg/Kg		02/28/23 09:06	03/01/23 08:16	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepare	d Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130	02/28/23 0	9:06 03/01/23 08:10	5 1
1,4-Difluorobenzene (Surr)	87		70 - 130	02/28/23 0	9:06 03/01/23 08:10	5 1

Lab Sample ID: LCS 880-47407/1-A

Matrix: Solid

Analysis Batch: 47466

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 47407

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1299		mg/Kg		130	70 - 130	
Toluene	0.100	0.1134		mg/Kg		113	70 - 130	
Ethylbenzene	0.100	0.1103		mg/Kg		110	70 - 130	
m-Xylene & p-Xylene	0.200	0.2222		mg/Kg		111	70 - 130	
o-Xylene	0.100	0.1182		mg/Kg		118	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	116	70 - 130
1,4-Difluorobenzene (Surr)	113	70 - 130

Lab Sample ID: LCSD 880-47407/2-A

Matrix: Solid

Analysis Batch: 47466

Client Sample II	: Lab Control	Sample Dup
	Dron T	unas Tatal/NIA

Prep Type: Total/NA

Prep Batch: 47407

	Spike	LCSD LCSD				%Rec		KPD	
Analyte	Added	Result Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1307 *+	mg/Kg		131	70 - 130	1	35	

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Page 8 of 21

1

Dil Fac

QC Sample Results

Client: Ensolum Job ID: 890-4184-1 SDG: 03D2057075 Project/Site: MCA 95/Maverick

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

Lab Sample ID: LCSD 880-47407/2-A

Matrix: Solid

Analysis Batch: 47466

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 47407

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.1225		mg/Kg		123	70 - 130	8	35
Ethylbenzene	0.100	0.1184		mg/Kg		118	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.2364		mg/Kg		118	70 - 130	6	35
o-Xylene	0.100	0.1265		mg/Kg		127	70 - 130	7	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 880-25235-A-57-A MS

Matrix: Solid

Analysis Batch: 47466

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 47407

Spike MS MS %Rec Sample Sample Result Qualifier Added Analyte Result Qualifier Unit %Rec Limits Benzene <0.00201 U *+ F1 0.100 0.05538 F1 55 70 - 130 mg/Kg F2 Toluene <0.00201 U F1 F2 0.100 0.05165 F1 mg/Kg 51 70 - 130 Ethylbenzene <0.00201 U F1 F2 0.100 0.04858 F1 48 70 - 130 mg/Kg m-Xylene & p-Xylene <0.00402 UF1 0.201 0.1032 F1 mg/Kg 51 70 - 130 o-Xylene <0.00201 U F1 F2 0.100 0.05892 F1 mg/Kg 59 70 - 130

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: 880-25235-A-57-B MSD

Matrix: Solid

Analysis Batch: 47466

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 47407

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U *+ F1 F2	0.0990	0.03508	F1 F2	mg/Kg		35	70 - 130	45	35
Toluene	<0.00201	U F1 F2	0.0990	0.03284	F1 F2	mg/Kg		33	70 - 130	45	35
Ethylbenzene	<0.00201	U F1 F2	0.0990	0.03140	F1 F2	mg/Kg		32	70 - 130	43	35
m-Xylene & p-Xylene	<0.00402	U F1	0.198	0.07209	F1	mg/Kg		36	70 - 130	35	35
o-Xylene	<0.00201	U F1 F2	0.0990	0.03917	F1 F2	mg/Kg		40	70 - 130	40	35

MSD MSD

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

Job ID: 890-4184-1

SDG: 03D2057075

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

Lab Sample ID: MB 880-47298/1-A

Matrix: Solid

Client: Ensolum

Analysis Batch: 47263

Project/Site: MCA 95/Maverick

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

Prep Batch: 47298

ı		IVID	IVID						
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/27/23 10:15	02/27/23 20:00	1
	Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/27/23 10:15	02/27/23 20:00	1
	Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/27/23 10:15	02/27/23 20:00	1

MB MB

MD MD

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	145	S1+	70 - 130	02/27/23 10:15	02/27/23 20:00	1
o-Terphenyl	166	S1+	70 - 130	02/27/23 10:15	02/27/23 20:00	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 47298

LCS LCS Spike Added Analyte Result Qualifier Unit D %Rec Limits 862.0 Gasoline Range Organics 1000 mg/Kg 86 70 - 130 (GRO)-C6-C10 1000 942.0 70 - 130 Diesel Range Organics (Over mg/Kg 94 C10-C28)

LCS LCS

l	Surrogate	%Recovery	Qualifier	Limits
l	1-Chlorooctane	79		70 - 130
l	o-Terphenyl	94		70 - 130

Lab Sample ID: LCSD 880-47298/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Lab Sample ID: LCS 880-47298/2-A

Matrix: Solid

Analysis Batch: 47263

Analysis Batch: 47263

Prep Type: Total/NA

Prep Batch: 47298

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	886.3		mg/Kg		89	70 - 130	3	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	1022		mg/Kg		102	70 - 130	8	20
C10-C28)									

LCSD LCSD

<49.9 U

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	78	70 - 130
o-Terphenyl	96	70 - 130

Lab Sample ID: 890-4174-A-1-B MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 47263

Diesel Range Organics (Over

Prep Type: Total/NA Prep Batch: 47298

968.5

mg/Kg

MS MS Sample Sample Spike %Rec Result Qualifier Added Result Qualifier Analyte Unit %Rec Limits Gasoline Range Organics <49.9 U 997 842.5 mg/Kg 83 70 - 130 (GRO)-C6-C10

997

C10-C28)

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70 - 130

95

Job ID: 890-4184-1

Client: Ensolum Project/Site: MCA 95/Maverick SDG: 03D2057075

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

Lab Sample ID: 890-4174-A-1-B MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 47263

Prep Type: Total/NA Prep Batch: 47298

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	90		70 - 130
o-Terphenyl	94		70 - 130

Lab Sample ID: 890-4174-A-1-C MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 47263

Prep Type: Total/NA Prep Batch: 47298

ш	, ,											
		Sample	Sample	Spike	MSD	MSD				%Rec		RPD
	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
	Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	881.4		mg/Kg		86	70 - 130	5	20
	Diesel Range Organics (Over C10-C28)	<49.9	U	999	966.4		mg/Kg		95	70 - 130	0	20
		MSD	MSD									
	Surrogate	%Recovery	Qualifier	Limits								

70 - 130

70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-47347/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

1-Chlorooctane

o-Terphenyl

Analysis Batch: 47423

MB MB

90

94

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			02/28/23 13:50	1

Lab Sample ID: LCS 880-47347/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 47423

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit %Rec Limits Chloride 250 225.2 90 90 - 110

mg/Kg Lab Sample ID: LCSD 880-47347/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 47423

Spike LCSD LCSD %Rec RPD Result Qualifier Added Analyte Unit %Rec Limits RPD Limit Chloride 250 229.1 mg/Kg 92 90 - 110

Lab Sample ID: 890-4182-A-6-E MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 47423

7 man y 0.0 = 0.0 m m n n n = 0	Sample Sam	nple Spike	MS	MS				%Rec
Analyte	Result Qua	alifier Added	Result	Qualifier	Unit	D	%Rec	Limits
Chloride	14.4	249	250.2		mg/Kg		95	90 - 110

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Prep Type: Soluble

QC Sample Results

Client: Ensolum Job ID: 890-4184-1 Project/Site: MCA 95/Maverick SDG: 03D2057075

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-4182-A-6-F MSD **Client Sample ID: Matrix Spike Duplicate Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 47423

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	14.4		249	249.2		mg/Kg		94	90 - 110	0	20

QC Association Summary

Client: Ensolum Job ID: 890-4184-1
Project/Site: MCA 95/Maverick SDG: 03D2057075

GC VOA

Prep Batch: 47406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-47406/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 47407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4184-1	SS03	Total/NA	Solid	5035	
MB 880-47407/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-47407/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-47407/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-25235-A-57-A MS	Matrix Spike	Total/NA	Solid	5035	
880-25235-A-57-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 47466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4184-1	SS03	Total/NA	Solid	8021B	47407
MB 880-47406/5-A	Method Blank	Total/NA	Solid	8021B	47406
MB 880-47407/5-A	Method Blank	Total/NA	Solid	8021B	47407
LCS 880-47407/1-A	Lab Control Sample	Total/NA	Solid	8021B	47407
LCSD 880-47407/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	47407
880-25235-A-57-A MS	Matrix Spike	Total/NA	Solid	8021B	47407
880-25235-A-57-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	47407

Analysis Batch: 48040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4184-1	SS03	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 47263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4184-1	SS03	Total/NA	Solid	8015B NM	47298
MB 880-47298/1-A	Method Blank	Total/NA	Solid	8015B NM	47298
LCS 880-47298/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	47298
LCSD 880-47298/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	47298
890-4174-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	47298
890-4174-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	47298

Prep Batch: 47298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4184-1	SS03	Total/NA	Solid	8015NM Prep	
MB 880-47298/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-47298/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-47298/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4174-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4174-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 47428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4184-1	SS03	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum
Project/Site: MCA 95/Maverick
Job ID: 890-4184-1
SDG: 03D2057075

HPLC/IC

Leach Batch: 47347

Lab Sample ID 890-4184-1	Client Sample ID SS03	Prep Type Soluble	Matrix Solid	Method DI Leach	Prep Batch
MB 880-47347/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-47347/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-47347/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4182-A-6-E MS	Matrix Spike	Soluble	Solid	DI Leach	
890-4182-A-6-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 47423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4184-1	SS03	Soluble	Solid	300.0	47347
MB 880-47347/1-A	Method Blank	Soluble	Solid	300.0	47347
LCS 880-47347/2-A	Lab Control Sample	Soluble	Solid	300.0	47347
LCSD 880-47347/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	47347
890-4182-A-6-E MS	Matrix Spike	Soluble	Solid	300.0	47347
890-4182-A-6-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	47347

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Lab Chronicle

Client: Ensolum Job ID: 890-4184-1 Project/Site: MCA 95/Maverick SDG: 03D2057075

Client Sample ID: SS03 Lab Sample ID: 890-4184-1 Date Collected: 02/22/23 15:30

Matrix: Solid

Date Received: 02/23/23 14:52

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	47407	02/28/23 10:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47466	03/01/23 18:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48040	03/07/23 13:34	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47428	02/28/23 11:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	47298	02/27/23 10:15	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47263	02/28/23 04:58	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	47347	02/27/23 15:44	KS	EET MID
Soluble	Analysis	300.0		1			47423	02/28/23 15:53	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-4184-1 Project/Site: MCA 95/Maverick

SDG: 03D2057075

Laboratory: Eurofins Midland

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

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

EET MID

ASTM

Method Summary

Client: Ensolum Job ID: 890-4184-1
Project/Site: MCA 95/Maverick SDG: 03D2057075

Method **Method Description** Protocol Laboratory 8021B Volatile Organic Compounds (GC) SW846 EET MID **Total BTEX Calculation** TAL SOP Total BTEX 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 **EET MID** Closed System Purge and Trap SW846 8015NM Prep Microextraction SW846 EET MID

Protocol References:

DI Leach

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Deionized Water Leaching Procedure

Laboratory References:

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

Eurofins Carlsbad

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4.0

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Sample Summary

Client: Ensolum

Project/Site: MCA 95/Maverick

Job ID: 890-4184-1

SDG: 03D2057075

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4184-1	SS03	Solid	02/22/23 15:30	02/23/23 14:52	0.5'

City, State ZIP:

303-517-8437 Carslbad, NM 88220 3122 Nat'l Parks Hwy Ensolum, LLC Josh Adams

Email: jadams@ensolum.com

Deliverables: EDD

Reporting: Level II Level III PST/UST TRRP

Level IV

ADaPT 🗆

City, State ZIP:

Address:

Bill to: (if different)

Company Name:

Project Manager: Company Name:

Chain of Custody

Houston, TX (281 Midland, TX (432) 7 EL Paso, TX (915) Hobbs, NM (575

Xenco

Environment Testing

1		State of Project:	
☐ Superfund ☐	ields 🗌 RRC	Program: UST/PST PRP Brownfields RRC Superfund	
	mments	Work Order Comments	
of	Page	www.xenco.com) 392-7550, Carlsbad, NM (575) 988-3199
	1		5) 585-3443, Lubbock, TX (806) 794-1296
		Work Order No:	704-5440, San Antonio, TX (210) 509-3334
3			31) 240-4200, Dallas, TX (214) 902-0300

1	NON COMMENCE OF		Pres.		None: NO DI Water: H ₂ O
Project Number:	さくつうし	Routine Rush	Code		
Project Location:	32.817529, -103.787126	Due Date:			Cool: Cool MeOH: Me
	Julianna Falcomata	TAT starts the day received by			
PO#:		the lab, if received by 4:30pm	rs		H ₂ S0 ₄ : H ₂ NaOH: Na
SAMPLE RECEIPT	Temp Blank: (Yes) No	Wet Ice: Yes No	nete		H₃PO₄: HP
Samples Received Intact:	Yes No 1	eter ID: TON-97-7			NaHSO₄: NABIS
Cooler Custody Seals:	Yes No MI/A Correction Factor:	Factor: - 7.0		890-4184 Chain of Custody	Na ₂ S ₂ O ₃ : NaSO ₃
Sample Custody Seals:	No NA	Temperature Reading: 2.2	S (EI		Zn Acetate+NaOH: Zn
Total Containers:		Corrected Temperature:	15)		NaOH+Ascorbic Acid: SAPC
			301		
Sample Identification	ation Matrix Sampled	Time Depth Grab/	CHLOI TPH (8		Sample Comments
5503	5 7773	s 1580 ·s' C			
Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM Texas 11	1 Al Sb As Ba Be B	Cd Ca Cr Co Cu	
Circle Method(s) and Metal(s) to be analyzed	letal(s) to be analyzed	TCLP / SPLP 6010: 8F	CRA Sb As Ba Be	TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U	TI U Hg: 1631 / 245.1 / 7470 / 7471
Votice: Signature of this docum	nent and relinquishment of samples of be liable only for the cost of samples	onstitutes a valid purchase order fro and shall not assume any responsib	n client company to Eurofins) lity for any losses or expense h sample submitted to Eurofin	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 the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of the 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 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.	andard terms and conditions imstances beyond the control ed unless previously negotiated.
Relinquished by: (Sig	(Signatuse) Receiv	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature) Date/Time
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Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4184-1 SDG Number: 03D2057075

Login Number: 4184 List Source: Eurofins Carlsbad

List Number: 1

Creator: Stutzman, Amanda

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

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4184-1 SDG Number: 03D2057075

> **List Source: Eurofins Midland** List Creation: 02/27/23 08:59 AM

Login Number: 4184

List Number: 2 Creator: Rodriguez, Leticia

oreator. Rounguez, Leticia		
Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
ls 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	
Notified (1/4).		

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Josh Adams Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701

Generated 3/7/2023 1:12:54 PM

JOB DESCRIPTION

MCA 95/Maverick SDG NUMBER 03D2057075

JOB NUMBER

890-4185-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Released to Imaging: 1/10/2024 2:36:57 PM

Eurofins Carlsbad

Job Notes

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

Authorization

Generated 3/7/2023 1:12:54 PM

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

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

Client: Ensolum
Project/Site: MCA 95/Maverick
Laboratory Job ID: 890-4185-1
SDG: 03D2057075

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Definitions/Glossary

Job ID: 890-4185-1 Client: Ensolum Project/Site: MCA 95/Maverick SDG: 03D2057075

Qualifiers

GC '	VOA
Quali	fier

*+	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

U Indicates the analyte was analyzed for but not detected.

Qualifier Description

GC Semi VOA

Qualifier **Qualifier Description** S1+ Surrogate recovery exceeds control limits, high biased. 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

EDL

LOD

LOQ

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)

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 MQI Method Quantitation Limit

NC Not Calculated

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

Estimated Detection Limit (Dioxin)

Limit of Detection (DoD/DOE)

Limit of Quantitation (DoD/DOE)

NEG Negative / Absent POS Positive / Present **Practical Quantitation Limit PQL PRES** Presumptive

Quality Control QC

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum Job ID: 890-4185-1
Project/Site: MCA 95/Maverick SDG: 03D2057075

Job ID: 890-4185-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4185-1

Receipt

The sample was received on 2/23/2023 2:52 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: SS04 (890-4185-1).

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-47299 and analytical batch 880-47265 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.

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Matrix: Solid

Lab Sample ID: 890-4185-1

Client Sample Results

Client: Ensolum Job ID: 890-4185-1 Project/Site: MCA 95/Maverick SDG: 03D2057075

Client Sample ID: SS04

Date Collected: 02/22/23 15:35 Date Received: 02/23/23 14:52

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *+	0.00199	mg/Kg		02/28/23 10:10	03/01/23 18:45	1
Toluene	< 0.00199	U	0.00199	mg/Kg		02/28/23 10:10	03/01/23 18:45	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		02/28/23 10:10	03/01/23 18:45	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		02/28/23 10:10	03/01/23 18:45	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		02/28/23 10:10	03/01/23 18:45	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/28/23 10:10	03/01/23 18:45	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	130		70 - 130			02/28/23 10:10	03/01/23 18:45	
1,4-Difluorobenzene (Surr)	88		70 - 130			02/28/23 10:10	03/01/23 18:45	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			03/07/23 13:34	1
- -	el Range Organ	ics (DRO) (GC)					
Method: SW846 8015 NM - Diese Analyte	• •	ics (DRO) (G	GC)	Unit	D	Prepared	Analyzed	Dil Fac
Thethod: SW846 8015 NM - Diese	• •	Qualifier	•		<u>D</u>	Prepared	Analyzed 02/28/23 12:06	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH	Result <49.9	Qualifier U	RL 49.9	Unit	<u>D</u>	Prepared		Dil Fac
Method: SW846 8015 NM - Diese Analyte	Result <49.9	Qualifier U	RL 49.9	Unit	<u>D</u>	Prepared Prepared		Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies	Result <49.9	Qualifier U unics (DRO) Qualifier	RL 49.9	Unit mg/Kg		<u> </u>	02/28/23 12:06	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte	Result <49.9 sel Range Orga Result	Qualifier U unics (DRO) Qualifier	RL 49.9 (GC)	Unit mg/Kg		Prepared	02/28/23 12:06 Analyzed	1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 sel Range Orga Result	Qualifier U unics (DRO) Qualifier U	RL 49.9 (GC)	Unit mg/Kg		Prepared	02/28/23 12:06 Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U unics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9 49.9	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 02/27/23 10:18 02/27/23 10:18	02/28/23 12:06 Analyzed 02/28/23 04:58 02/28/23 04:58	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 Sel Range Orga Result <49.9	Qualifier U unics (DRO) Qualifier U	(GC) RL 49.9	Unit mg/Kg Unit mg/Kg		Prepared 02/27/23 10:18	02/28/23 12:06 Analyzed 02/28/23 04:58	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U unics (DRO) Qualifier U U	RL 49.9 (GC) RL 49.9 49.9	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 02/27/23 10:18 02/27/23 10:18	02/28/23 12:06 Analyzed 02/28/23 04:58 02/28/23 04:58	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9	Qualifier U unics (DRO) Qualifier U U	RL 49.9 (GC) RL 49.9 49.9	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 02/27/23 10:18 02/27/23 10:18 02/27/23 10:18	02/28/23 12:06 Analyzed 02/28/23 04:58 02/28/23 04:58	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result	Qualifier U unics (DRO) Qualifier U U	RL 49.9 (GC) RL 49.9 49.9 Limits	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 02/27/23 10:18 02/27/23 10:18 02/27/23 10:18 Prepared	02/28/23 12:06 Analyzed 02/28/23 04:58 02/28/23 04:58 02/28/23 04:58 Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <49.9	Qualifier U Inics (DRO) Qualifier U U Qualifier	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 02/27/23 10:18 02/27/23 10:18 02/27/23 10:18 Prepared 02/27/23 10:18	02/28/23 12:06 Analyzed 02/28/23 04:58 02/28/23 04:58 Analyzed 02/28/23 04:58	Dil Fac

5.00

mg/Kg

<5.00 U

Eurofins Carlsbad

02/28/23 16:00

Released to Imaging: 1/10/2024 2:36:57 PM

Chloride

Surrogate Summary

Client: Ensolum Job ID: 890-4185-1 Project/Site: MCA 95/Maverick SDG: 03D2057075

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)
	BFB1	DFBZ1	
Client Sample ID	(70-130)	(70-130)	
Matrix Spike	101	92	
Matrix Spike Duplicate	92	91	
SS04	130	88	
Lab Control Sample	116	113	
Lab Control Sample Dup	115	94	
Method Blank	71	98	
Method Blank	77	87	
	Matrix Spike Matrix Spike Duplicate SS04 Lab Control Sample Lab Control Sample Dup Method Blank	Client Sample ID (70-130) Matrix Spike 101 Matrix Spike Duplicate 92 SS04 130 Lab Control Sample 116 Lab Control Sample Dup 115 Method Blank 71	Client Sample ID (70-130) (70-130) Matrix Spike 101 92 Matrix Spike Duplicate 92 91 SS04 130 88 Lab Control Sample 116 113 Lab Control Sample Dup 115 94 Method Blank 71 98

DFBZ = 1,4-Difluorobenzene (Surr)

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

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

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-4185-1	SS04	84	104	
890-4188-A-1-B MS	Matrix Spike	106	127	
890-4188-A-1-C MSD	Matrix Spike Duplicate	108	125	
LCS 880-47299/2-A	Lab Control Sample	107	129	
LCSD 880-47299/3-A	Lab Control Sample Dup	93	117	
MB 880-47299/1-A	Method Blank	146 S1+	191 S1+	
Surrogate Legend				

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-4185-1 Project/Site: MCA 95/Maverick SDG: 03D2057075

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-47406/5-A

Lab Sample ID: MB 880-47407/5-A

Matrix: Solid

Analysis Batch: 47466

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 47406

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/28/23 10:00	02/28/23 18:07	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/28/23 10:00	02/28/23 18:07	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/28/23 10:00	02/28/23 18:07	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/28/23 10:00	02/28/23 18:07	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/28/23 10:00	02/28/23 18:07	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/28/23 10:00	02/28/23 18:07	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed
4-Bromofluorobenzene (Surr)	71		70 - 130	02/28/23 10:00	02/28/23 18:07
1,4-Difluorobenzene (Surr)	98		70 - 130	02/28/23 10:00	02/28/23 18:07

Client Sample ID: Method Blank

Prep Type: Total/NA

Dil Fac

Prep Batch: 47407

Analysis Batch: 47466 мв мв

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/28/23 09:06	03/01/23 08:16	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/28/23 09:06	03/01/23 08:16	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/28/23 09:06	03/01/23 08:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/28/23 09:06	03/01/23 08:16	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/28/23 09:06	03/01/23 08:16	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/28/23 09:06	03/01/23 08:16	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepare	d Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130	02/28/23 0	9:06 03/01/23 08:10	5 1
1,4-Difluorobenzene (Surr)	87		70 - 130	02/28/23 0	9:06 03/01/23 08:10	5 1

Lab Sample ID: LCS 880-47407/1-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 47466

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 47407

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1299		mg/Kg		130	70 - 130	
Toluene	0.100	0.1134		mg/Kg		113	70 - 130	
Ethylbenzene	0.100	0.1103		mg/Kg		110	70 - 130	
m-Xylene & p-Xylene	0.200	0.2222		mg/Kg		111	70 - 130	
o-Xylene	0.100	0.1182		mg/Kg		118	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	116	70 _ 130
1.4-Difluorobenzene (Surr)	113	70 - 130

Lab Sample ID: LCSD 880-47407/2-A

Matrix: Solid

Analyte

Benzene

Analysis Batch: 47466

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

Prep Batch: 47407

RPD %Rec %Rec Limits RPD Limit 131 70 - 130

Eurofins Carlsbad

Page 8 of 21

LCSD LCSD

0.1307 *+

Result Qualifier

Unit

mg/Kg

Spike

Added

0.100

Client: Ensolum Job ID: 890-4185-1 SDG: 03D2057075 Project/Site: MCA 95/Maverick

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

Lab Sample ID: LCSD 880-47407/2-A

Matrix: Solid

Analysis Batch: 47466

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 47407

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Toluene 0.100 0.1225 123 70 - 130 35 mg/Kg 8 Ethylbenzene 0.100 0.1184 mg/Kg 118 70 - 130 35 0.200 0.2364 70 - 130 m-Xylene & p-Xylene mg/Kg 6 35 118 o-Xylene 0.100 0.1265 mg/Kg 127 70 - 130 35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 880-25235-A-57-A MS

Matrix: Solid

Analysis Batch: 47466

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 47407

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U *+ F1	0.100	0.05538	F1	mg/Kg		55	70 - 130	
		F2								
Toluene	<0.00201	U F1 F2	0.100	0.05165	F1	mg/Kg		51	70 - 130	
Ethylbenzene	<0.00201	U F1 F2	0.100	0.04858	F1	mg/Kg		48	70 - 130	
m-Xylene & p-Xylene	<0.00402	U F1	0.201	0.1032	F1	mg/Kg		51	70 - 130	
o-Xylene	<0.00201	U F1 F2	0.100	0.05892	F1	mg/Kg		59	70 - 130	

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1.4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: 880-25235-A-57-B MSD

Matrix: Solid

Analysis Batch: 47466

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 47407

%Rec PDN

	Janipie	Janipie	Opike	IVIOD	INIOD				/orvec		KFD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	<0.00201	U *+ F1	0.0990	0.03508	F1 F2	mg/Kg		35	70 - 130	45	35	
		F2										
Toluene	< 0.00201	U F1 F2	0.0990	0.03284	F1 F2	mg/Kg		33	70 - 130	45	35	
Ethylbenzene	<0.00201	U F1 F2	0.0990	0.03140	F1 F2	mg/Kg		32	70 - 130	43	35	
m-Xylene & p-Xylene	<0.00402	U F1	0.198	0.07209	F1	mg/Kg		36	70 - 130	35	35	
o-Xylene	< 0.00201	U F1 F2	0.0990	0.03917	F1 F2	mg/Kg		40	70 - 130	40	35	

MSD MSD

Snike

MSD MSD

Sample Sample

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

Client: Ensolum Job ID: 890-4185-1 Project/Site: MCA 95/Maverick SDG: 03D2057075

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

Lab Sample ID: MB 880-47299/1-A

Matrix: Solid Analysis Batch: 47265 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 47299

	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		02/27/23 10:18	02/27/23 20:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/27/23 10:18	02/27/23 20:00	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/27/23 10:18	02/27/23 20:00	1
	MB	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	146	S1+	70 - 130			02/27/23 10:18	02/27/23 20:00	1
o-Terphenyl	191	S1+	70 - 130			02/27/23 10:18	02/27/23 20:00	1

Lab Sample ID: LCS 880-47299/2-A

Lab Sample ID: LCSD 880-47299/3-A

Matrix: Solid Analysis Batch: 47265

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 47299

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics 1000 1170 117 70 - 130 mg/Kg (GRO)-C6-C10 1000 Diesel Range Organics (Over 1119 mg/Kg 112 70 - 130C10-C28)

LCS LCS

%Recovery Qualifier Limits Surrogate 1-Chlorooctane 107 70 - 130 o-Terphenyl 129 70 - 130

Client Sample ID: Lab Control Sample Dup

108

70 - 130

LCSD LCSD Spike %Rec RPD Analyte Added Result Qualifier RPD Limit Unit D %Rec Limits Gasoline Range Organics 1000 1164 mg/Kg 116 70 - 130 20 (GRO)-C6-C10 Diesel Range Organics (Over 1000 961.4 mg/Kg 96 70 - 130 15 20

LCSD LCSD

%Recovery Qualifier Limits Surrogate 70 - 130 1-Chlorooctane 93 117 70 - 130 o-Terphenyl

<50.0 U

Lab Sample ID: 890-4188-A-1-B MS Client Sample ID: Matrix Spike

Matrix: Solid

Matrix: Solid

C10-C28)

Analysis Batch: 47265

Diesel Range Organics (Over

Analysis Batch: 47265									Pre	Batch: 47299
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<50.0	U	998	907.4		mg/Kg		89	70 - 130	

1075

mg/Kg

C10-C28)

(GRO)-C6-C10

Eurofins Carlsbad

998

Prep Type: Total/NA

Prep Batch: 47299

Prep Type: Total/NA

Prep Batch: 47299

Prep Type: Total/NA

Client: Ensolum Job ID: 890-4185-1 Project/Site: MCA 95/Maverick SDG: 03D2057075

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

Lab Sample ID: 890-4188-A-1-B MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 47265

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	127		70 - 130

Lab Sample ID: 890-4188-A-1-C MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 47265									Prep	Batch:	47299
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<50.0	U	997	916.4		mg/Kg		90	70 - 130	1	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<50.0	U	997	1071		mg/Kg		107	70 - 130	0	20
C10-C28)											

MSD MSD Surrogate %Recovery Qualifier Limits 108 70 - 130 1-Chlorooctane 125 70 - 130 o-Terphenyl

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-47347/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 47423

MB MB

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			02/28/23 13:50	1

Lab Sample ID: LCS 880-47347/2-A Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 47423

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	 250	225.2	-	ma/Ka		90	90 - 110	

Lab Sample ID: LCSD 880-47347/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 47423

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	229.1		mg/Kg		92	90 - 110	2	20

Lab Sample ID: 890-4182-A-6-E MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 47423

7 man y 0.0 = 0.0 m m n n n = 0	Sample Sam	nple Spike	MS	MS				%Rec
Analyte	Result Qua	alifier Added	Result	Qualifier	Unit	D	%Rec	Limits
Chloride	14.4	249	250.2		mg/Kg		95	90 - 110

Eurofins Carlsbad

Prep Type: Soluble

QC Sample Results

Client: Ensolum Job ID: 890-4185-1 Project/Site: MCA 95/Maverick SDG: 03D2057075

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-4182-A-6-F MSD **Client Sample ID: Matrix Spike Duplicate Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 47423

, , , , , , , , , , , , , , , , , , , ,	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	14.4		249	249.2		mg/Kg		94	90 - 110	0	20

QC Association Summary

Client: Ensolum

Project/Site: MCA 95/Maverick SDG: (

Job ID: 890-4185-1 SDG: 03D2057075

GC VOA

Prep Batch: 47406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-47406/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 47407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4185-1	SS04	Total/NA	Solid	5035	
MB 880-47407/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-47407/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-47407/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-25235-A-57-A MS	Matrix Spike	Total/NA	Solid	5035	
880-25235-A-57-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 47466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4185-1	SS04	Total/NA	Solid	8021B	47407
MB 880-47406/5-A	Method Blank	Total/NA	Solid	8021B	47406
MB 880-47407/5-A	Method Blank	Total/NA	Solid	8021B	47407
LCS 880-47407/1-A	Lab Control Sample	Total/NA	Solid	8021B	47407
LCSD 880-47407/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	47407
880-25235-A-57-A MS	Matrix Spike	Total/NA	Solid	8021B	47407
880-25235-A-57-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	47407

Analysis Batch: 48041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4185-1	SS04	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 47265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4185-1	SS04	Total/NA	Solid	8015B NM	47299
MB 880-47299/1-A	Method Blank	Total/NA	Solid	8015B NM	47299
LCS 880-47299/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	47299
LCSD 880-47299/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	47299
890-4188-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	47299
890-4188-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	47299

Prep Batch: 47299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4185-1	SS04	Total/NA	Solid	8015NM Prep	
MB 880-47299/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-47299/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-47299/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4188-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4188-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 47451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4185-1	SS04	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum Job ID: 890-4185-1
Project/Site: MCA 95/Maverick SDG: 03D2057075

HPLC/IC

Leach Batch: 47347

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4185-1	SS04	Soluble	Solid	DI Leach	
MB 880-47347/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-47347/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-47347/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4182-A-6-E MS	Matrix Spike	Soluble	Solid	DI Leach	
890-4182-A-6-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 47423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4185-1	SS04	Soluble	Solid	300.0	47347
MB 880-47347/1-A	Method Blank	Soluble	Solid	300.0	47347
LCS 880-47347/2-A	Lab Control Sample	Soluble	Solid	300.0	47347
LCSD 880-47347/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	47347
890-4182-A-6-E MS	Matrix Spike	Soluble	Solid	300.0	47347
890-4182-A-6-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	47347

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Lab Chronicle

Client: Ensolum
Project/Site: MCA 95/Maverick
SDG: 03D2057075

Client Sample ID: SS04

Lab Sample ID: 890-4185-1

Matrix: Solid

Date Collected: 02/22/23 15:35 Date Received: 02/23/23 14:52

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	47407	02/28/23 10:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47466	03/01/23 18:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48041	03/07/23 13:34	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47451	02/28/23 12:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	47299	02/27/23 10:18	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47265	02/28/23 04:58	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	47347	02/27/23 15:44	KS	EET MID
Soluble	Analysis	300.0		1			47423	02/28/23 16:00	CH	EET MID

Laboratory References:

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

Eurofins Carlsbad

Released to Imaging: 1/10/2024 2:36:57 PM

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Accreditation/Certification Summary

Client: Ensolum Job ID: 890-4185-1 Project/Site: MCA 95/Maverick SDG: 03D2057075

Laboratory: Eurofins Midland

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

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

Method Summary

Client: Ensolum Job ID: 890-4185-1
Project/Site: MCA 95/Maverick SDG: 03D2057075

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

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Sample Summary

Client: Ensolum

Project/Site: MCA 95/Maverick

Job ID: 890-4185-1

SDG: 03D2057075

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4185-1	SS04	Solid	02/22/23 15:35	02/23/23 14:52	0.5'

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eurofins
Environment Testing
Xenco

Chain of Custody 1. TX (281) 240-4200, Dallas, TX (214) 90

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

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Sample Comments		CHLOI TPH (8	oth Comp Cont	Time Depth	Date Sampled	ion Matrix	Sample Identification	
NaOH+Ascorbic Acid: SAPC		015)	00	emperature:	Corrected Temperature:		Total Containers:	
Zn Acetate+NaOH: Zn	890-4185 Chain of Custody	_	0	Reading:	Temperature Reading:	No NIA	Sample Custody Seals:	S
Na ₂ S ₂ O ₃ : NaSO ₃		PA:	O U	actor:	NA Correction Factor:	Yes No NHA	Cooler Custody Seals:	0
NaHSO ₄ : NABIS		300	10-12 mar	FID:	Thermometer ID:	(es) No	Samples Received Intact:	S
H₃PO₄: HP		.0)	No No	Wet Ice:	(Yes No	Temp Blank:	SAMPLE RECEIPT	S
H ₂ SO ₄ : H ₂ NaOH: Na				the lab, if received by 4:30pm)		PO#	יס
HCL: HC HNO ₃ : HN			received by	TAT starts the day received by	ata	Julianna Falcomata	Sampler's Name:	S
Cool: Cool MeOH: Me				Due Date:	87126	32.817529, -103.787126	Project Location:	D
None: NO DI Water: H ₂ O			Rush Code	☑ Routine □	V	5020570	Project Number:	70
Preservative Codes	ANALYSIS REQUEST			Turn Around	ick	MCA 95/Maverick	Project Name:	ס
Deliverables: EDD	Deliverab	com	Email: jadams@ensolum.com	Email: jada		303-517-8437	Phone: 303-	70
Reporting: Level II PST/UST TRRP Level IV	Reporting		City, State ZIP:	City,		Carsibad, NM 88220	City, State ZIP: Cars	0
	State of Project:		ess:	Address:		3122 Nat'l Parks Hwy		I>
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	Program		Company Name:	Соп		Ensolum, LLC	Company Name: Ensc	0
Work Order Comments		a.a.	Bill to: (if different)	Bill t		Josh Adams	Project Manager: Josh	TO

Login Sample Receipt Checklist

 Client: Ensolum
 Job Number: 890-4185-1

 SDG Number: 03D2057075

Login Number: 4185 List Source: Eurofins Carlsbad

List Number: 1

Creator: Stutzman, Amanda

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

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Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4185-1

SDG Number: 03D2057075

List Source: Eurofins Midland List Creation: 02/27/23 08:59 AM

List Number: 2 Creator: Rodriguez, Leticia

Login Number: 4185

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

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<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Josh Adams Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701

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JOB DESCRIPTION

MCA 95/Maverick SDG NUMBER 03D2057075

JOB NUMBER

890-4186-1

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

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

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

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Client: Ensolum
Project/Site: MCA 95/Maverick
Laboratory Job ID: 890-4186-1
SDG: 03D2057075

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Eurofins Carlsbad 3/7/2023

Definitions/Glossary

Job ID: 890-4186-1 Client: Ensolum Project/Site: MCA 95/Maverick

SDG: 03D2057075

Qualifiers

GC VOA Qualifier

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

F1 MS and/or MSD recovery exceeds control limits. F2 MS/MSD RPD exceeds control limits

Qualifier Description

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

F1 MS and/or MSD recovery exceeds control limits.

F2 MS/MSD RPD exceeds control limits

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

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

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

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

%R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

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

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

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

Practical Quantitation Limit **PQL**

PRES Presumptive **Quality Control** QC

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Job ID: 890-4186-1

SDC: 03D2057075

Project/Site: MCA 95/Maverick SDG: 03D2057075

Job ID: 890-4186-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4186-1

Receipt

The sample was received on 2/23/2023 2:52 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: SS05 (890-4186-1).

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-47312 and analytical batch 880-47268 was outside the upper control limits.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-47312 and analytical batch 880-47268 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.

HPLC/IC

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

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Matrix: Solid

Lab Sample ID: 890-4186-1

Client Sample Results

Client: Ensolum Job ID: 890-4186-1 Project/Site: MCA 95/Maverick SDG: 03D2057075

Client Sample ID: SS05

Date Collected: 02/22/23 15:40 Date Received: 02/23/23 14:52

Sample Depth: 0.5

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *+	0.00199	mg/Kg		02/28/23 10:10	03/01/23 19:11	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/28/23 10:10	03/01/23 19:11	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		02/28/23 10:10	03/01/23 19:11	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		02/28/23 10:10	03/01/23 19:11	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/28/23 10:10	03/01/23 19:11	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/28/23 10:10	03/01/23 19:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130			02/28/23 10:10	03/01/23 19:11	1
1,4-Difluorobenzene (Surr)	89		70 - 130			02/28/23 10:10	03/01/23 19:11	1
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			03/07/23 13:34	1
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Total TPH	Result < 50.0		RL 50.0	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 02/28/23 10:23	Dil Fac
	<50.0	U	50.0		<u>D</u>	Prepared		
Total TPH Method: SW846 8015B NM - Die	<50.0	U	50.0		D	Prepared Prepared		
Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics	<50.0	nics (DRO) Qualifier	50.0 (GC)	mg/Kg			02/28/23 10:23	Dil Fac
Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<50.0 esel Range Orga Result	nics (DRO) Qualifier	50.0 (GC)	mg/Kg		Prepared	02/28/23 10:23 Analyzed	Dil Fac
Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<50.0 esel Range Orga Result <50.0	nics (DRO) Qualifier U	50.0 (GC) RL 50.0	mg/Kg Unit mg/Kg		Prepared 02/27/23 12:09	02/28/23 10:23 Analyzed 02/28/23 03:22	Dil Fac
Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<50.0 See Range Orga	nics (DRO) Qualifier U	50.0 (GC) RL 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/27/23 12:09 02/27/23 12:09	02/28/23 10:23 Analyzed 02/28/23 03:22 02/28/23 03:22	1 Dil Fac
Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate	<50.0 ssel Range Orga Result <50.0 <50.0 <50.0	nics (DRO) Qualifier U	50.0 (GC) RL 50.0 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/27/23 12:09 02/27/23 12:09 02/27/23 12:09	02/28/23 10:23 Analyzed 02/28/23 03:22 02/28/23 03:22 02/28/23 03:22	Dil Face
Total TPH	<50.0 seel Range Orga Result <50.0 <50.0 <50.0 %Recovery	nics (DRO) Qualifier U	50.0 (GC) RL 50.0 50.0 50.0 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/27/23 12:09 02/27/23 12:09 02/27/23 12:09 Prepared	02/28/23 10:23 Analyzed 02/28/23 03:22 02/28/23 03:22 02/28/23 03:22 Analyzed	1
Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<50.0 esel Range Orga Result <50.0 <50.0 <50.0 <60.0 %Recovery 90 90	Oualifier U Qualifier U Qualifier	50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/27/23 12:09 02/27/23 12:09 02/27/23 12:09 Prepared 02/27/23 12:09	02/28/23 10:23 Analyzed 02/28/23 03:22 02/28/23 03:22 02/28/23 03:22 Analyzed 02/28/23 03:22	Dil Fac

4.98

mg/Kg

<4.98 U

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02/28/23 16:18

Surrogate Summary

Client: Ensolum Job ID: 890-4186-1
Project/Site: MCA 95/Maverick SDG: 03D2057075

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-25235-A-57-A MS	Matrix Spike	101	92	
880-25235-A-57-B MSD	Matrix Spike Duplicate	92	91	
890-4186-1	SS05	119	89	
LCS 880-47407/1-A	Lab Control Sample	116	113	
LCSD 880-47407/2-A	Lab Control Sample Dup	115	94	
MB 880-47406/5-A	Method Blank	71	98	
MB 880-47407/5-A	Method Blank	77	87	

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

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

Matrix: Solid Prep Type: Total/NA

1CO1 OTPH1 1CO1 OTPH1 1CO1 1C
80-25190-A-1-E MS Matrix Spike 107 95 80-25190-A-1-F MSD Matrix Spike Duplicate 110 97
80-25190-A-1-F MSD Matrix Spike Duplicate 110 97
90-4186-1 SS05 90 90
CS 880-47312/2-A Lab Control Sample 95 92
CSD 880-47312/3-A Lab Control Sample Dup 94 89
IB 880-47312/1-A Method Blank 142 S1+ 149 S1+

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-4186-1 SDG: 03D2057075 Project/Site: MCA 95/Maverick

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-47406/5-A

Matrix: Solid

Analysis Batch: 47466

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 47406

1

ı		MB	MB						
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Benzene	<0.00200	U	0.00200	mg/Kg		02/28/23 10:00	02/28/23 18:07	
	Toluene	<0.00200	U	0.00200	mg/Kg		02/28/23 10:00	02/28/23 18:07	
	Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/28/23 10:00	02/28/23 18:07	
	m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/28/23 10:00	02/28/23 18:07	
	o-Xylene	<0.00200	U	0.00200	mg/Kg		02/28/23 10:00	02/28/23 18:07	
	Xylenes, Total	< 0.00400	U	0.00400	mg/Kg		02/28/23 10:00	02/28/23 18:07	•

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	71		70 - 130	02/28/23 10:00	02/28/23 18:07	1
1,4-Difluorobenzene (Surr)	98		70 - 130	02/28/23 10:00	02/28/23 18:07	1

Lab Sample ID: MB 880-47407/5-A

Matrix: Solid

Client Sample ID: Method Blank

Prep Type: Total/NA

Analysis Batch: 47466		Prep B						
	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/28/23 09:06	03/01/23 08:16	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/28/23 09:06	03/01/23 08:16	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/28/23 09:06	03/01/23 08:16	1

	MD	MB					
Xylenes, Total	<0.00400	U	0.00400	mg/Kg	02/28/23 09:06	03/01/23 08:16	1
o-Xylene	<0.00200	U	0.00200	mg/Kg	02/28/23 09:06	03/01/23 08:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg	02/28/23 09:06	03/01/23 08:16	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg	02/28/23 09:06	03/01/23 08:16	1
Toluene	<0.00200	U	0.00200	mg/Kg	02/28/23 09:06	03/01/23 08:16	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130	02/28/23 09:06	03/01/23 08:16	1
1,4-Difluorobenzene (Surr)	87		70 - 130	02/28/23 09:06	03/01/23 08:16	1

Lab Sample ID: LCS 880-47407/1-A

Matrix: Solid

Analysis Batch: 47466

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 47407

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1299		mg/Kg		130	70 - 130	
Toluene	0.100	0.1134		mg/Kg		113	70 - 130	
Ethylbenzene	0.100	0.1103		mg/Kg		110	70 - 130	
m-Xylene & p-Xylene	0.200	0.2222		mg/Kg		111	70 - 130	
o-Xylene	0.100	0.1182		mg/Kg		118	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	116	70 _ 130
1.4-Difluorobenzene (Surr)	113	70 - 130

Lab Sample ID: LCSD 880-47407/2-A

Matrix: Solid

Analysis Batch: 47466

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

Prep Type: Total/NA

Prep Batch: 47407

	Spike	LCSD LCSD				%Rec		RPD	
Analyte	Added	Result Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1307 *+	mg/Kg		131	70 - 130	1	35	

QC Sample Results

Client: Ensolum Job ID: 890-4186-1
Project/Site: MCA 95/Maverick SDG: 03D2057075

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

Lab Sample ID: LCSD 880-47407/2-A

Matrix: Solid

Analysis Batch: 47466

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 47407

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Toluene 0.100 0.1225 123 70 - 130 35 mg/Kg 8 Ethylbenzene 0.100 0.1184 mg/Kg 118 70 - 130 0.200 0.2364 70 - 130 m-Xylene & p-Xylene mg/Kg 6 35 118 0.100 o-Xylene 0.1265 mg/Kg 127 70 - 130 35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 880-25235-A-57-A MS

Matrix: Solid

Analysis Batch: 47466

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 47407

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U *+ F1	0.100	0.05538	F1	mg/Kg		55	70 - 130	
		F2								
Toluene	<0.00201	U F1 F2	0.100	0.05165	F1	mg/Kg		51	70 - 130	
Ethylbenzene	<0.00201	U F1 F2	0.100	0.04858	F1	mg/Kg		48	70 - 130	
m-Xylene & p-Xylene	<0.00402	U F1	0.201	0.1032	F1	mg/Kg		51	70 - 130	
o-Xylene	< 0.00201	U F1 F2	0.100	0.05892	F1	mg/Kg		59	70 - 130	

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: 880-25235-A-57-B MSD

Matrix: Solid

Analysis Batch: 47466

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 47407

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U *+ F1 F2	0.0990	0.03508	F1 F2	mg/Kg		35	70 - 130	45	35
Toluene	<0.00201	U F1 F2	0.0990	0.03284	F1 F2	mg/Kg		33	70 - 130	45	35
Ethylbenzene	<0.00201	U F1 F2	0.0990	0.03140	F1 F2	mg/Kg		32	70 - 130	43	35
m-Xylene & p-Xylene	<0.00402	U F1	0.198	0.07209	F1	mg/Kg		36	70 - 130	35	35
o-Xylene	<0.00201	U F1 F2	0.0990	0.03917	F1 F2	mg/Kg		40	70 - 130	40	35

MSD MSD

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

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Client: Ensolum Job ID: 890-4186-1 SDG: 03D2057075 Project/Site: MCA 95/Maverick

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

Lab Sample ID: MB 880-47312/1-A

Matrix: Solid

Analysis Batch: 47268 MD MD Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 47312

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/27/23 12:09	02/27/23 19:55	1
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		02/27/23 12:09	02/27/23 19:55	1
C10-C28) Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/27/23 12:09	02/27/23 19:55	1
	МВ	MB						

Surrogate	%Recovery	Qualifier	Limits	Prepare	d Analyzed	Dil Fac
1-Chlorooctane	142	S1+	70 - 130	02/27/23 1	2:09 02/27/23 19:55	1
o-Terphenyl	149	S1+	70 - 130	02/27/23 1	2:09 02/27/23 19:55	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 47312

LCS LCS Spike Added Result Qualifier Analyte Unit D %Rec Limits 1000 964.1 Gasoline Range Organics mg/Kg 96 70 - 130 (GRO)-C6-C10 1000 976.9 Diesel Range Organics (Over mg/Kg 98 70 - 130 C10-C28)

LCS LCS

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	95	70 - 130
o-Terphenyl	92	70 - 130

Lab Sample ID: LCSD 880-47312/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Lab Sample ID: LCS 880-47312/2-A

Matrix: Solid

Analysis Batch: 47268

Analysis Batch: 47268

Prep Type: Total/NA

Prep Batch: 47312

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	1033	-	mg/Kg		103	70 - 130	7	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	1011		mg/Kg		101	70 - 130	3	20
C10-C28)									

LCSD LCSD

Surrogate	%Recovery (Qualifier	Limits
1-Chlorooctane	94		70 - 130
o-Terphenyl	89		70 - 130

Lab Sample ID: 880-25190-A-1-E MS Client Sample ID: Matrix Spike

Matrix: Solid Prep Type: Total/NA Analysis Batch: 47268 Prep Batch: 47312

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.9	U	998	916.2		mg/Kg		88	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	157	F1 F2	998	742.2	F1	mg/Kg		59	70 - 130	
C10-C28)										

Prep Batch: 47312

Job ID: 890-4186-1 Client: Ensolum Project/Site: MCA 95/Maverick SDG: 03D2057075

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

Lab Sample ID: 880-25190-A-1-E MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid Analysis Batch: 47268

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 107 70 - 130 o-Terphenyl 95 70 - 130

Lab Sample ID: 880-25190-A-1-F MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Prep Type: Total/NA **Analysis Batch: 47268** Prep Batch: 47312 Sample Sample Spike MSD MSD %Rec RPD

Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit <49.9 U 999 952.3 91 70 - 13020 Gasoline Range Organics mg/Kg 4 (GRO)-C6-C10 Diesel Range Organics (Over 157 F1 F2 999 1035 F2 88 mg/Kg 70 - 13033 20 C10-C28)

MSD MSD %Recovery Surrogate Qualifier Limits 70 - 130 1-Chlorooctane 110 97 70 - 130 o-Terphenyl

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-47347/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 47423

мв мв

Analyte Result Qualifier RL Unit D Dil Fac Prepared Analyzed Chloride 5.00 <5.00 U mg/Kg 02/28/23 13:50

Lab Sample ID: LCS 880-47347/2-A Client Sample ID: Lab Control Sample Matrix: Solid **Prep Type: Soluble**

Analysis Batch: 47423

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 225.2 mg/Kg 90 90 - 110

Lab Sample ID: LCSD 880-47347/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 47423

Spike LCSD LCSD %Rec RPD Result Qualifier Added Analyte Unit D %Rec Limits RPD Limit Chloride 250 229.1 92 90 - 110 20 mg/Kg

Lab Sample ID: 890-4182-A-6-E MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 47423

7 man y 0.0 = 0.0 m m n n n = 0	Sample Sam	nple Spike	MS	MS				%Rec
Analyte	Result Qua	alifier Added	Result	Qualifier	Unit	D	%Rec	Limits
Chloride	14.4	249	250.2		mg/Kg		95	90 - 110

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Prep Type: Soluble

QC Sample Results

Client: Ensolum Job ID: 890-4186-1 Project/Site: MCA 95/Maverick SDG: 03D2057075

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-4182-A-6-F MSD **Client Sample ID: Matrix Spike Duplicate Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 47423

7 manyolo Batolii II 120											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	14.4		249	249.2		mg/Kg		94	90 - 110	0	20

QC Association Summary

Client: Ensolum Project/Site: MCA 95/Maverick Job ID: 890-4186-1

SDG: 03D2057075

GC VOA

Prep Batch: 47406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-47406/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 47407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-4186-1	SS05	Total/NA	Solid	5035	_
MB 880-47407/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-47407/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-47407/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-25235-A-57-A MS	Matrix Spike	Total/NA	Solid	5035	
880-25235-A-57-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 47466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4186-1	SS05	Total/NA	Solid	8021B	47407
MB 880-47406/5-A	Method Blank	Total/NA	Solid	8021B	47406
MB 880-47407/5-A	Method Blank	Total/NA	Solid	8021B	47407
LCS 880-47407/1-A	Lab Control Sample	Total/NA	Solid	8021B	47407
LCSD 880-47407/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	47407
880-25235-A-57-A MS	Matrix Spike	Total/NA	Solid	8021B	47407
880-25235-A-57-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	47407

Analysis Batch: 48042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4186-1	SS05	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 47268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4186-1	SS05	Total/NA	Solid	8015B NM	47312
MB 880-47312/1-A	Method Blank	Total/NA	Solid	8015B NM	47312
LCS 880-47312/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	47312
LCSD 880-47312/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	47312
880-25190-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	47312
880-25190-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	47312

Prep Batch: 47312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4186-1	SS05	Total/NA	Solid	8015NM Prep	
MB 880-47312/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-47312/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-47312/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-25190-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-25190-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 47413

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4186-1	SS05	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum
Project/Site: MCA 95/Maverick
Job ID: 890-4186-1
SDG: 03D2057075

HPLC/IC

Leach Batch: 47347

Lab Sample ID 890-4186-1	Client Sample ID SS05	Prep Type Soluble	Matrix Solid	Method DI Leach	Prep Batch
MB 880-47347/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-47347/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-47347/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4182-A-6-E MS	Matrix Spike	Soluble	Solid	DI Leach	
890-4182-A-6-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 47423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4186-1	SS05	Soluble	Solid	300.0	47347
MB 880-47347/1-A	Method Blank	Soluble	Solid	300.0	47347
LCS 880-47347/2-A	Lab Control Sample	Soluble	Solid	300.0	47347
LCSD 880-47347/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	47347
890-4182-A-6-E MS	Matrix Spike	Soluble	Solid	300.0	47347
890-4182-A-6-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	47347

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Lab Chronicle

Client: Ensolum Job ID: 890-4186-1 Project/Site: MCA 95/Maverick SDG: 03D2057075

Client Sample ID: SS05

Lab Sample ID: 890-4186-1 Date Collected: 02/22/23 15:40

Matrix: Solid

Date Received: 02/23/23 14:52

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	47407	02/28/23 10:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47466	03/01/23 19:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48042	03/07/23 13:34	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47413	02/28/23 10:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47312	02/27/23 12:09	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47268	02/28/23 03:22	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	47347	02/27/23 15:44	KS	EET MID
Soluble	Analysis	300.0		1			47423	02/28/23 16:18	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-4186-1 Project/Site: MCA 95/Maverick SDG: 03D2057075

Laboratory: Eurofins Midland

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

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

Method Summary

Client: Ensolum Job ID: 890-4186-1
Project/Site: MCA 95/Maverick SDG: 03D2057075

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

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Sample Summary

Client: Ensolum

Project/Site: MCA 95/Maverick

Job ID: 890-4186-1

SDG: 03D2057075

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4186-1	SS05	Solid	02/22/23 15:40	02/23/23 14:52	0.5

83333

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Environment Testing

13 14

Chain of Custody

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

Work Order No:

otice: Signature of this document and relii service. Eurofins Xenco will be liable onl Eurofins Xenco. A minimum charge of \$5	Total 200.7 / 6010 Circle Method(s) and I	55.05	Sample Identification	Total Containers:	Sample Custody Seals:	Cooler Custody Seals:	SAMPLE RECEIPT	PO#	Sampler's Name:	Project Location:	Project Number:	Project Name:	Phone: 3	City, State ZIP: C	Address: 3		Project Manager: J
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcon 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 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. The	Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	U)	Matrix		Yes No WA	Yes No NIA	lemp Blank:		Julianna Falcomata	32.817529, -103.787126	03570570	MCA 95/Maverick	303-517-8437	Carsibad, NM 88220	3122 Nat'l Parks Hwy	Ensolum, LLC	Josh Adams
f samples constitutes a valid purcha of samples and shall not assume an pplied to each project and a charge o	8RC	2-21-23 54	Date Time Sampled Sampled	Corrected Temperature:	Temperature Reading:	Correction Factor:	Ces No Wellice.	+		87126 Due Date:	Rout		En				
alid purchase order from assume any responsibilit d a charge of \$5 for each	13PPM Texas 11 / SPLP 6010: 8RC	\$ 6	Depth Grab/	re: XO	ので	10:02 10 4 10 10 10 10 10 10 10 10 10 10 10 10 10	e. Ces No	the lab, if received by 4:30pm	TAT starts the day received by		☐ Rush	Turn Around	Email: jadams@ensolum.com	City, State ZIP:	Address:	Company Name:	Bill to: (if different)
client company to Eurofins X ty for any losses or expenses sample submitted to Eurofins	TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn		CHLOF	015)				eters			Code		um.com				a a
nco, its affiliates and subcolincurred by the client if such Xenco, but not analyzed. The	Cd Ca Cr Co Cu F Cd Cr Co Cu Pb Mn				690-4186 Chain				_			ANALYSI					
tractors. It assigns stand: losses are due to circums se terms will be enforced	n MoNiSe Ag TIU			custody								IS REQUEST	Deliverables: EDD	Reporting: Level II L	State of Project:	Program: UST/PST	
ard terms and conditions tances beyond the control unless previously negotiated.	Ag SiO ₂ Na Sr 11 Sn Hg: 1631 / 245.1 / 7470		Sampl	NaOH+Asco	Zn Acetate+NaOH: Zn	Na ₂ S ₂ O ₃ : NaSO ₃	NaHSO : NARIS	H ₂ SO ₄ : H ₂	HCL: HC	Cool: Cool	None: NO	Preser	ADaPT Other:]	Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund [Work Order Comments
	0 V Zn 0 / 7471		Sample Comments	NaOH+Ascorbic Acid: SAPC	NaOH: Zn	SO ₃	B.	NaCH: Na	HNO ₃ : HN	MeOH: Me	DI Water: H ₂ O	Preservative Codes	er:	RP Level IVL		C Superfund	

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

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4186-1 SDG Number: 03D2057075

Login Number: 4186 List Source: Eurofins Carlsbad

List Number: 1

Creator: Stutzman, Amanda

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

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4186-1 SDG Number: 03D2057075

List Source: Eurofins Midland

Login Number: 4186 List Number: 2 List Creation: 02/27/23 08:59 AM

Creator: Rodriguez, Leticia

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

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Josh Adams Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701

Generated 3/6/2023 2:10:31 PM

JOB DESCRIPTION

MCA 95/Maverick SDG NUMBER 03D2057075

JOB NUMBER

890-4187-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

Authorization

Generated 3/6/2023 2:10:31 PM

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

Companies

Page 2 of 20 3/6/2023 Released to Imaging: 1/10/2024 2:36:57 PM

Client: Ensolum
Project/Site: MCA 95/Maverick
Laboratory Job ID: 890-4187-1
SDG: 03D2057075

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Definitions/Glossary

Job ID: 890-4187-1 Client: Ensolum Project/Site: MCA 95/Maverick SDG: 03D2057075

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

F1 MS and/or MSD recovery exceeds control limits.

F2 MS/MSD RPD exceeds control limits

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

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

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

%R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit **CNF** Contains No Free Liquid

DFR Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

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

Decision Level Concentration (Radiochemistry) DLC

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

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

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

NC Not Calculated

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

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

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Case Narrative

Job ID: 890-4187-1 Client: Ensolum

Project/Site: MCA 95/Maverick SDG: 03D2057075

Job ID: 890-4187-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4187-1

Receipt

The sample was received on 2/23/2023 2:52 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: SS06 (890-4187-1).

GC VOA

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

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-47312 and analytical batch 880-47268 was outside the upper control limits.

Method 8015MOD NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-47312 and analytical batch 880-47268 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.

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 Job ID: 890-4187-1 Project/Site: MCA 95/Maverick SDG: 03D2057075

Client Sample ID: SS06

Lab Sample ID: 890-4187-1 Date Collected: 02/22/23 15:45 Matrix: Solid

Date Received: 02/23/23 14:52 Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200	mg/Kg		02/27/23 16:02	03/04/23 10:05	-
Toluene	<0.00200	U	0.00200	mg/Kg		02/27/23 16:02	03/04/23 10:05	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/27/23 16:02	03/04/23 10:05	,
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		02/27/23 16:02	03/04/23 10:05	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/27/23 16:02	03/04/23 10:05	,
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		02/27/23 16:02	03/04/23 10:05	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			02/27/23 16:02	03/04/23 10:05	1
1,4-Difluorobenzene (Surr)	82		70 - 130			02/27/23 16:02	03/04/23 10:05	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
-		Qualifier	RL 0.00401	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Total BTEX	<0.00401	U	0.00401	mg/Kg	<u>D</u>	Prepared	Analyzed 03/06/23 14:44	
	<0.00401	U	0.00401		<u>D</u> 	Prepared Prepared		Dil Fac
Total BTEX Method: SW846 8015 NM - Diese	<0.00401	ics (DRO) (Qualifier	0.00401 GC)	mg/Kg		<u> </u>	03/06/23 14:44	1
Total BTEX Method: SW846 8015 NM - Diese Analyte	<0.00401 el Range Organ Result <49.9	ics (DRO) (Gualifier	0.00401 GC) RL 49.9	mg/Kg		<u> </u>	03/06/23 14:44 Analyzed	Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH	<0.00401 el Range Organ Result <49.9 sel Range Organ	ics (DRO) (Gualifier	0.00401 GC) RL 49.9	mg/Kg		<u> </u>	03/06/23 14:44 Analyzed	Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese	<0.00401 el Range Organ Result <49.9 sel Range Organ	ics (DRO) (Qualifier Unics (DRO) Qualifier	0.00401 GC) RL 49.9	mg/Kg Unit mg/Kg	<u>D</u>	Prepared	03/06/23 14:44 Analyzed 02/28/23 10:23	Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<0.00401 el Range Organ Result <49.9 sel Range Orga Result	ics (DRO) (Qualifier U nics (DRO) Qualifier U	0.00401 GC) RL 49.9 (GC) RL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared	03/06/23 14:44 Analyzed 02/28/23 10:23 Analyzed	Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10	<0.00401 el Range Organ Result <49.9 sel Range Orga Result <49.9	ics (DRO) (Qualifier U nics (DRO) Qualifier U U U	0.00401 GC) RL 49.9 (GC) RL 49.9	mg/Kg Unit mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared 02/27/23 12:09	03/06/23 14:44 Analyzed 02/28/23 10:23 Analyzed 02/28/23 03:42	Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<0.00401 el Range Organ Result <49.9 sel Range Orga Result <49.9 <49.9	ics (DRO) (Qualifier U nics (DRO) Qualifier U U U U	0.00401 GC) RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg Unit mg/Kg mg/Kg	<u>D</u>	Prepared Prepared 02/27/23 12:09 02/27/23 12:09	03/06/23 14:44 Analyzed 02/28/23 10:23 Analyzed 02/28/23 03:42 02/28/23 03:42	Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<0.00401 el Range Organ	ics (DRO) (Qualifier U nics (DRO) Qualifier U U U U	0.00401 GC) RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg Unit mg/Kg mg/Kg	<u>D</u>	Prepared Prepared 02/27/23 12:09 02/27/23 12:09	03/06/23 14:44 Analyzed 02/28/23 10:23 Analyzed 02/28/23 03:42 02/28/23 03:42 02/28/23 03:42	Dil Fac

RL

5.00

Unit

mg/Kg

D

Prepared

Result Qualifier

<5.00 U

Eurofins Carlsbad

Analyte

Chloride

Dil Fac

Analyzed

03/01/23 04:03

Surrogate Summary

Client: Ensolum Job ID: 890-4187-1 Project/Site: MCA 95/Maverick SDG: 03D2057075

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate R
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-4172-A-1-E MS	Matrix Spike	95	100	
890-4172-A-1-F MSD	Matrix Spike Duplicate	95	96	
890-4187-1	SS06	105	82	
LCS 880-47350/1-A	Lab Control Sample	96	95	
LCSD 880-47350/2-A	Lab Control Sample Dup	99	103	
MB 880-47350/5-A	Method Blank	88	92	
Surrogate Legend				
BFB = 4-Bromofluorober	zene (Surr)			
DFBZ = 1,4-Difluorobenz	ene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-25190-A-1-E MS	Matrix Spike	107	95
880-25190-A-1-F MSD	Matrix Spike Duplicate	110	97
890-4187-1	SS06	91	90
LCS 880-47312/2-A	Lab Control Sample	95	92
LCSD 880-47312/3-A	Lab Control Sample Dup	94	89
MB 880-47312/1-A	Method Blank	142 S1+	149 S1+

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-4187-1 Project/Site: MCA 95/Maverick

SDG: 03D2057075

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-47350/5-A

Analysis Batch: 47690

Matrix: Solid

Lab Sample ID: LCS 880-47350/1-A

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 47350

	IVID	INID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/27/23 16:02	03/03/23 13:34	
Toluene	<0.00200	U	0.00200	mg/Kg		02/27/23 16:02	03/03/23 13:34	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/27/23 16:02	03/03/23 13:34	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/27/23 16:02	03/03/23 13:34	
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/27/23 16:02	03/03/23 13:34	•
Xylenes, Total	< 0.00400	U	0.00400	mg/Kg		02/27/23 16:02	03/03/23 13:34	•

MB MB

MD MD

Surrogate	%Recovery Qu	ualifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88	70 - 130	02/27/23 16:02	03/03/23 13:34	1
1,4-Difluorobenzene (Surr)	92	70 - 130	02/27/23 16:02	03/03/23 13:34	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 47350

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.07188 mg/Kg 72 70 - 130 Toluene 0.100 0.07279 mg/Kg 73 70 - 130 0.100 71 Ethylbenzene 0.07111 mg/Kg 70 - 130 0.200 73 70 - 130 m-Xylene & p-Xylene 0.1463 mg/Kg 0.100 0.07656 70 - 130 o-Xylene mg/Kg 77

LCS LCS

Surrogate	%Recovery Q	ualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: LCSD 880-47350/2-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 47690

Analysis Batch: 47690

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 47350

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1027		mg/Kg		103	70 - 130	35	35	
Toluene	0.100	0.09741		mg/Kg		97	70 - 130	29	35	
Ethylbenzene	0.100	0.08979		mg/Kg		90	70 - 130	23	35	
m-Xylene & p-Xylene	0.200	0.1789		mg/Kg		89	70 - 130	20	35	
o-Xylene	0.100	0.09257		mg/Kg		93	70 - 130	19	35	

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1 4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 890-4172-A-1-E MS

Matrix: Solid

Analysis Batch: 47690

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

Prep Batch: 47350

-	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.0996	0.08951		mg/Kg		89	70 - 130	
Toluene	<0.00200	U	0.0996	0.08481		mg/Kg		85	70 - 130	

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Client Sample ID: Matrix Spike

70 - 130

Client Sample ID: Matrix Spike Duplicate

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 47312

Prep Type: Total/NA

79

Client: Ensolum

Job ID: 890-4187-1 Project/Site: MCA 95/Maverick SDG: 03D2057075

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

<0.00200 U

Lab Sample ID: 890-4172-A-1-E MS

o-Xylene

Matrix: Solid									Prep Ty	ype: Total/NA
Analysis Batch: 47690									Prep	Batch: 47350
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00200	U	0.0996	0.07843		mg/Kg		79	70 - 130	
m-Xylene & p-Xylene	<0.00401	U	0.199	0.1548		mg/Kg		78	70 - 130	

0.07879

mg/Kg

0.0996

MS MS Surrogate %Recovery Limits 70 - 130 4-Bromofluorobenzene (Surr) 95 1,4-Difluorobenzene (Surr) 70 - 130 100

Lab Sample ID: 890-4172-A-1-F MSD

Matrix: Solid

Analysis Batch: 47690									Prep	Batch:	47350
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.0990	0.08430		mg/Kg		85	70 - 130	6	35
Toluene	<0.00200	U	0.0990	0.08118		mg/Kg		82	70 - 130	4	35
Ethylbenzene	<0.00200	U	0.0990	0.07650		mg/Kg		77	70 - 130	3	35
m-Xylene & p-Xylene	<0.00401	U	0.198	0.1531		mg/Kg		77	70 - 130	1	35
o-Xylene	<0.00200	U	0.0990	0.07807		mg/Kg		78	70 - 130	1	35

MSD MSD Qualifier Limits Surrogate %Recovery 95 70 - 130 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) 96 70 - 130

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

Lab Sample ID: MB 880-47312/1-A

Matrix: Solid

Analysis Batch: 47268

-	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		02/27/23 12:09	02/27/23 19:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/27/23 12:09	02/27/23 19:55	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/27/23 12:09	02/27/23 19:55	1

MB MB %Recovery Qualifier Limits Prepared Dil Fac Surrogate Analyzed 1-Chlorooctane 142 S1+ 70 - 130 02/27/23 12:09 02/27/23 19:55 149 S1+ 70 - 130 02/27/23 12:09 02/27/23 19:55 o-Terphenyl

Lab Sample ID: LCS 880-47312/2-A

Watrix: Solid							Prep i	ype: lotal/NA
Analysis Batch: 47268							Prep	Batch: 47312
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	964.1		mg/Kg		96	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	976.9		mg/Kg		98	70 - 130	
C10-C28)								

Job ID: 890-4187-1 Client: Ensolum Project/Site: MCA 95/Maverick SDG: 03D2057075

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

LCS LCS

%Recovery Qualifier

Lab Sample ID: LCS 880-47312/2-A Client Sample ID: Lab Control Sample

Limits

Matrix: Solid

Surrogate

Analysis Batch: 47268

Prep Type: Total/NA

Prep Batch: 47312

1-Chlorooctane 95 70 - 130 o-Terphenyl 92 70 - 130

Lab Sample ID: LCSD 880-47312/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 47268

Prep Type: Total/NA

Prep Batch: 47312

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 1033 103 70 - 13020 Gasoline Range Organics mg/Kg 7 (GRO)-C6-C10 Diesel Range Organics (Over 1000 1011 101 mg/Kg 70 - 1303 20 C10-C28)

LCSD LCSD

Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 94 89 70 - 130 o-Terphenyl

Lab Sample ID: 880-25190-A-1-E MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 47268

Prep Type: Total/NA

Prep Batch: 47312

Sample Sample MS MS Spike Added Analyte Result Qualifier Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.9 U 998 916.2 mg/Kg 88 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 157 F1 F2 998 742.2 F1 mg/Kg 59 70 - 130 C10-C28)

MS MS %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 107 o-Terphenyl 95 70 - 130

Sample Sample

<49.9 U

Result Qualifier

157 F1 F2

Lab Sample ID: 880-25190-A-1-F MSD Client Sample ID: Matrix Spike Duplicate

Spike

Added

999

999

MSD MSD

1035 F2

Qualifier

Unit

mg/Kg

mg/Kg

Result

952.3

Matrix: Solid

(GRO)-C6-C10

Analyte

Analysis Batch: 47268

Gasoline Range Organics

Diesel Range Organics (Over

Prep Type: Total/NA

88

%Rec

70 - 130

Prep Batch: 47312

33

RPD

20

%Rec Limits RPD Limit 91 70 - 130 20

C10-C28) MSD MSD %Recovery Qualifier Surrogate

Limits 1-Chlorooctane 110 70 - 130 97 70 - 130 o-Terphenyl

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Client Sample ID: SS06

Client Sample ID: SS06

Prep Type: Soluble

Prep Type: Soluble

QC Sample Results

Client: Ensolum Job ID: 890-4187-1
Project/Site: MCA 95/Maverick SDG: 03D2057075

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-47348/1-A

Matrix: Solid

Analysis Batch: 47513

MB MB

 Analyte
 Result
 Qualifier
 RL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 Chloride
 <5.00</td>
 U
 5.00
 mg/Kg
 03/01/23 03:49
 1

Lab Sample ID: LCS 880-47348/2-A

Matrix: Solid

Analysis Batch: 47513

Spike LCS LCS %Rec Added %Rec Analyte Result Qualifier Unit D Limits Chloride 250 250.5 mg/Kg 100 90 - 110

Lab Sample ID: LCSD 880-47348/3-A

Matrix: Solid

Analysis Batch: 47513

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 250 245.1 mg/Kg 90 - 110

Lab Sample ID: 890-4187-1 MS

Matrix: Solid

Analysis Batch: 47513

Spike MS MS Sample Sample %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 252.6 Chloride <5.00 250 100 90 - 110 mg/Kg

Lab Sample ID: 890-4187-1 MSD

Matrix: Solid

Analysis Batch: 47513

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride <5.00 U 250 246.5 mg/Kg 98 90 - 110 20

QC Association Summary

Client: Ensolum Job ID: 890-4187-1
Project/Site: MCA 95/Maverick SDG: 03D2057075

GC VOA

Prep Batch: 47350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4187-1	SS06	Total/NA	Solid	5035	
MB 880-47350/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-47350/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-47350/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4172-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
890-4172-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 47690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4187-1	SS06	Total/NA	Solid	8021B	47350
MB 880-47350/5-A	Method Blank	Total/NA	Solid	8021B	47350
LCS 880-47350/1-A	Lab Control Sample	Total/NA	Solid	8021B	47350
LCSD 880-47350/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	47350
890-4172-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	47350
890-4172-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	47350

Analysis Batch: 47951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4187-1	SS06	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 47268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4187-1	SS06	Total/NA	Solid	8015B NM	47312
MB 880-47312/1-A	Method Blank	Total/NA	Solid	8015B NM	47312
LCS 880-47312/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	47312
LCSD 880-47312/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	47312
880-25190-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	47312
880-25190-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	47312

Prep Batch: 47312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4187-1	SS06	Total/NA	Solid	8015NM Prep	
MB 880-47312/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-47312/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-47312/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-25190-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-25190-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 47414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4187-1	SS06	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 47348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4187-1	SS06	Soluble	Solid	DI Leach	
MB 880-47348/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-47348/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-47348/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Ensolum
Project/Site: MCA 95/Maverick
Job ID: 890-4187-1
SDG: 03D2057075

HPLC/IC (Continued)

Leach Batch: 47348 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4187-1 MS	SS06	Soluble	Solid	DI Leach	
890-4187-1 MSD	SS06	Soluble	Solid	DI Leach	

Analysis Batch: 47513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4187-1	SS06	Soluble	Solid	300.0	47348
MB 880-47348/1-A	Method Blank	Soluble	Solid	300.0	47348
LCS 880-47348/2-A	Lab Control Sample	Soluble	Solid	300.0	47348
LCSD 880-47348/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	47348
890-4187-1 MS	SS06	Soluble	Solid	300.0	47348
890-4187-1 MSD	SS06	Soluble	Solid	300.0	47348

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Date Received: 02/23/23 14:52

Lab Chronicle

Client: Ensolum Job ID: 890-4187-1 Project/Site: MCA 95/Maverick SDG: 03D2057075

Client Sample ID: SS06 Lab Sample ID: 890-4187-1 Date Collected: 02/22/23 15:45

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	47350	02/27/23 16:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47690	03/04/23 10:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47951	03/06/23 14:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47414	02/28/23 10:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47312	02/27/23 12:09	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47268	02/28/23 03:42	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	47348	02/27/23 15:45	KS	EET MID
Soluble	Analysis	300.0		1			47513	03/01/23 04:03	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-4187-1 Project/Site: MCA 95/Maverick SDG: 03D2057075

Laboratory: Eurofins Midland

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

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

Method Summary

Client: Ensolum Job ID: 890-4187-1
Project/Site: MCA 95/Maverick SDG: 03D2057075

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

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Sample Summary

Client: Ensolum

Project/Site: MCA 95/Maverick

Job ID: 890-4187-1

SDG: 03D2057075

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4187-1	SS06	Solid	02/22/23 15:45	02/23/23 14:52	0.5'

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eurofins

Environment Testing

Xenco

Project Name: Project Number:

MCA 95/Maverick

Routine

Rush

Pres.

ANALYSIS REQUEST

Deliverables: EDD

Reporting: Level II Level III PST/UST TRRP

Level IV

ADaPT 🗆

None: NO

DI Water: H₂O MeOH: Me **Preservative Codes**

Program: UST/PST 🗌 PRP 🗌 Brownfields 🗌 RRC 🔲 Superfund 📗

Work Order Comments

www.xenco.com

State of Project:

Turn Around

City, State ZIP:

Carsibad, NM 88220 303-517-8437

Email: jadams@ensolum.com

City, State ZIP:

ompany Name:

Josh Adams Ensolum, LLC

3122 Nat'l Parks Hwy

Address:

Bill to: (if different)

Company Name:

Chain of Custody TX (281) 240-4200, Dallas, TX (214) 90

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

Revised Date: 08/25/2020 Rev. 2020 2	Re	0		-				
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Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time		(Signature)	Received by: (Signature)		Relinquished by: (9)
	standard terms and conditions reumstances beyond the control orced unless previously negotiated.	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 lighte 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 \$45.00 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.	company to Eurofins Xen iny losses or expenses ir e submitted to Eurofins X	rder from client sponsibility for a for each sampl	s a valid purchase o If not assume any re ct and a charge of \$1	f samples constitute t of samples and sha pplied to each proje	nt and relinquishment on the cost illable only for the cost same of \$85.00 will be	ce: Signature of this documes rvice. Eurofins Xenco will be urofins Xenco. A minimum ch
470 / 7471	g TI U Hg: 1631 / 245.1 / 7470 / 747	TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U	Sb As Ba Be Co	IO: 8RCRA	CLP / SPLP 60	ed To	al(s) to be analyz	Circle Method(s) and Metal(s) to be analyzed
Sn U V Zn	Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Tl Sn U V Zn	Cd Ca Cr Co Cu Fe Pb Mg Mn	As Ba Be B	xas 11 Al Sb	8RCRA 13PPM Texas 11	8RCF	200.8 / 6020:	Total 200.7 / 6010
			\	0	350 .51	7-723	()	2500
Sample Comments	San		TPH (Comp Cont	Time Depth	Sampled Sa	on Matrix	Sample Identification
NaCH+ASCORDIC ACID: SAPC	NaCH+A	890.	8015)	\perp	rature:	Corrected Temperature:		Total Containers:
Zn Acetate+NaOH: Zn	Zn Acetat	1187 Chain of Custody		N.	ading:	Temperature Reading:	Yes No NIA	Sample Custody Seals:
NaSO ₃	Na ₂ S ₂ O ₃ : NaSO ₃		PA:	(i) Pi	0,0	Correction Factor	Yes No NIA	Cooler Custody Seals:
NABIS	NaHSO ₄ : NABIS		300	co	177	Thermometer ID:	1	Samples Received Intact:
Ð	H ₃ PO ₄ : HP		.0)	o nete	Wet Ice: Yes	(Yes No W	Temp Blank:	SAMPLE RECEIPT
NaOH: Na	H ₂ S0 ₄ : H ₂			1	the lab, if received by 4:30pm	the		PO#:
	HCL: HC			ived by	TAT starts the day received by		Julianna Falcomata	Sampler's Name:
	Cool: Cool				Due Date:		32.817529, -103.787126	Project Location: 3

	Work	
	Order No	
	0:	
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Login Sample Receipt Checklist

 Client: Ensolum
 Job Number: 890-4187-1

 SDG Number: 03D2057075

Login Number: 4187 List Source: Eurofins Carlsbad

List Number: 1

Creator: Stutzman, Amanda

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

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Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4187-1

SDG Number: 03D2057075

Login Number: 4187 List Number: 2

List Source: Eurofins Midland List Creation: 02/27/23 08:59 AM

Creator: Rodriguez, Leticia

<6mm (1/4").

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

Eurofins Carlsbad Page 20 of 20 3/6/2023



APPENDIX D

NMOCD Notifications

Julianna Falcomata

From: Aimee Cole

Sent: Wednesday, August 23, 2023 1:48 PM

To: 'ocd.enviro@state.nm.us'

Subject: Maverick - Sampling Notification (Week of 8/28/2023)

Maverick Permian, LLC plans to complete sampling activities at the following sites the week of August 28, 2023.

- MCA 409 Flowline/ NAPP2318846991

o Sampling Dates: 8/28/2023 - 8/29/2023

ABO 3 Battery / nAPP2314448299

Sampling Dates: 8/28/2023 – 8/29/2023

Grayburg Eumont Strawn Battery / NAPP2302036818

o Sampling Dates: 8/28/2023

- MCA 95 / NAPP2306757137

o Sampling Dates: 8/28/2023 – 9/1/2023

- MCA 301 / NAPP2307558601

o Sampling Dates: 8/31/2023 – 9/1/2023

Thank you,



From: Rodgers, Scott, EMNRD

To: <u>Aimee Cole</u>

Cc: <u>Velez, Nelson, EMNRD</u>; <u>Bratcher, Michael, EMNRD</u>

Subject: RE: [EXTERNAL] Maverick - Sampling Notification (Week of 9/18/2023)

Date: Wednesday, September 13, 2023 3:20:38 PM

Attachments: image005.jpg

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

You don't often get email from scott.rodgers@emnrd.nm.gov. Learn why this is important

[**EXTERNAL EMAIL**]

The OCD has received your notification. When reporting sampling at multiple locations it is required to provide a date and time for each location. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you, Scott

Scott Rodgers • Environmental Specialist

Environmental Bureau
EMNRD - Oil Conservation Division
8801 Horizon Blvd. NE, Suite 260 | Albuquerque, NM 87113
505.469.1830 | scott.rodgers@emnrd.nm.gov
http://www.emnrd.nm.gov/ocd



From: Aimee Cole <acole@ensolum.com>

Sent: Wednesday, September 13, 2023 2:51 PM

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

Subject: [EXTERNAL] Maverick - Sampling Notification (Week of 9/18/2023)

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

Maverick Permian, LLC plans to complete sampling activities at the following sites the week of September 18, 2023.

- MCA 95 / NAPP2306757137
 - Sampling Dates: 9/18/2023 9/20/2023

- MCA 1 South Transfer Line / nAPP2314650185
 - Sampling Dates: 9/20/2023 9/22/2023
- EVGSAU Satellite 5 / NAPP2213957732
 - Sampling Dates: 9/21/2023 9/22/2023

Thank you,



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

Julianna Falcomata

From: Buchanan, Michael, EMNRD < Michael.Buchanan@emnrd.nm.gov>

Sent: Wednesday, September 6, 2023 4:53 PM **To:** Aimee Cole; Enviro, OCD, EMNRD

Cc: Bratcher, Michael, EMNRD; Velez, Nelson, EMNRD

Subject: RE: [EXTERNAL] Maverick - Sampling Notification (Week of 9/11/2023)

You don't often get email from michael.buchanan@emnrd.nm.gov. Learn why this is important

[**EXTERNAL EMAIL**]

Hi Aimee,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

From: Aimee Cole <acole@ensolum.com>
Sent: Wednesday, September 6, 2023 2:32 PM

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

Subject: [EXTERNAL] Maverick - Sampling Notification (Week of 9/11/2023)

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

Maverick Permian, LLC plans to complete sampling activities at the following sites the week of September 11, 2023.

- MCA 301 / NAPP2307558601
 - Sampling Dates: 9/11/2023 9/12/2023
- MCA 95 / NAPP2306757137
 - Sampling Dates: 9/12/2023 9/15/2023

Thank you,



Julianna Falcomata

From: OCDOnline@state.nm.us

Sent: Friday, September 15, 2023 8:56 AM

To: Kalei Jennings

Subject: The Oil Conservation Division (OCD) has approved the application, Application ID: 228051

[**EXTERNAL EMAIL**]

To whom it may concern (c/o Kalei Jennings for Maverick Permian LLC),

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2306757137, with the following conditions:

Remediation plan is approved under the following conditions; 1. Soil samples must be collected outside of the release to confirm the lateral extent of the release. 2. All other proposal within this plan have been accepted.
 Operator must include site characterization supporting documentation in its final closure report. 4.
 Maverick Permian has 90-days (December 14, 2023) to submit its appropriate or final closure report.

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

Thank you, Nelson Velez Environmental Specialist - Advanced 505-469-6146 Nelson.Velez@emnrd.nm.gov

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



APPENDIX E Final 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	NAPP2306757137
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Maverick Permian, LLC				OGRID: 331199					
Contact Nan	ne: Bryce Wa	agoner			Contact Te	elephone: 928-2	41-1862		
Contact ema	il: <u>Bryce.Wa</u>	ngoner@mavresou	rces.com		Incident #	(assigned by OCD)			
Contact mail 1410 NW Co		Hobbs, NM 88240			•				
			Location	of R	elease So	ource			
Latitude 32.8	17529		(NAD 83 in de		Longitude - grees to 5 decim	-103.787126 nal places)			
Site Name M	ICA 95				Site Type				
Date Release Discovered February 21, 2023					API# (if app	API# (if applicable) 30-025-08065			
Unit Letter Section Township Range					Coun	ity			
J 20 17S 32E L				Le	a				
Surface Owne	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 Oi		Volume Release					vered (bbls) 2.5 bbls		
Produced	Water	Volume Release	d (bbls)			Volume Recovered (bbls)			
		Is the concentrate produced water	tion of dissolved o >10,000 mg/l?	chloride	e in the	ne			
Condensa	ite	Volume Release				Volume Recovered (bbls)			
☐ Natural Gas Volume Released (Mcf)					Volume Recovered (Mcf)				
Other (describe) Volume/Weight Released (provide units)	Volume/Weig	tht Recovered (provide units)				
The release v	Cause of Release The release was caused by corrosion of a flowline. The release occurred on and off pad. A vaccum truck was dispatched to the location and recovered approximately 2.5 bbls of free-standing fluids. The source of the release has been stopped and the impacted area has been								

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NAPP2306	57571	37		İ

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Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?
☐ Yes ⊠ No	
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
	Initial Response
The responsible	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.
☐ The impacted area ha	s been secured to protect human health and the environment.
Released materials ha	we been contained via the use of berms or dikes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed and managed appropriately.
has begun, please attach	AC the responsible party may commence remediation immediately after discovery of a release. If remediation a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred at area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
regulations all operators are public health or the environr failed to adequately investig	rmation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and required to report and/or file certain release notifications and perform corrective actions for releases which may endanger nent. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have attended at the environment. In a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
Printed Name:Bryce	e Wagoner Title:Permian HSE Specialist II
Signature: Jywy	Date:2/27/2023 ner@mavresources.com Telephone:928-241-1862
email:Bryce.Wago	ner@mavresources.com Telephone:928-241-1862
OCD Only	
Received by:	Date:

NAPP2306757137

				Pooled F	luids on the S	urface				
	Length (ft.)	Width (ft.)	Depth (in)	# of Boundaries *edges of pool where depth is 0 . don't count shared boundaries	Oil-Water Ratio (%)	Pooled Area (ft²)	Estimated Average Depth (ft.)	Pooled Volume (bbl.)	Volume of Oil in Subsurface (bbl.)	Volume of Water in Subsurface (bbl.)
Rectangle A	17.0	98.0	0.5	4.0	1.00	1666.0	0.0	3.1	3.09	0.00
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 Vol	ume (bbls):	3.09	3.09	0.00

				Sul	bsurface Fluids	3				
	Length (ft.)	Width (ft.)	Depth (in.)	Saturation (%) *10% in consolidated sediments after rain to 50% in sand with no precipitation	Oil-Water Ratio (%)	Area (ft²)	Volume (bbl.)	Estimated Volume in Subsurface (bbl.)	Volume of Oil in Subsurface (bbl.)	Volume of Water in Subsurface (bbl.)
Rectangle A	17.0	98.0	1.0	0.1	1.00	1666.0	24.7	2.5	2.47	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):				2.47	2.47	0.00				

TOTAL RELEASE VOLUME (bbls): 5.6

te of New Mexico

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Facility ID	
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Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>>100</u> (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No
Did the release impact areas not on an exploration, development, production, or storage site?	⊠ Yes □ No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
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 well 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 	ls.

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

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Closure

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

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

A scaled site and sampling diagram as described in 19.15.29.11 N	IMAC
Photographs of the remediated site prior to backfill or photos of must be notified 2 days prior to liner inspection)	the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODC D	istrict office must be notified 2 days prior to final sampling)
Description of remediation activities	
I hereby certify that the information given above is true and complete to and regulations all operators are required to report and/or file certain remay endanger public health or the environment. The acceptance of a C should their operations have failed to adequately investigate and remed human health or the environment. In addition, OCD acceptance of a C compliance with any other federal, state, or local laws and/or regulation restore, reclaim, and re-vegetate the impacted surface area to the condit accordance with 19.15.29.13 NMAC including notification to the OCD Printed Name: Bryce Wagoner	lease notifications and perform corrective actions for releases which 3-141 report by the OCD does not relieve the operator of liability iate contamination that pose a threat to groundwater, surface water, 141 report does not relieve the operator of responsibility for its. The responsible party acknowledges they must substantially itions that existed prior to the release or their final land use in when reclamation and re-vegetation are complete.
Signature: Demail: _ Bryce.Wagoner@mavresources.com	Telephone: _928-241-1862
OCD Only	
Received by: Shelly Wells	Date: _10/17/2023
Closure approval by the OCD does not relieve the responsible party of large remediate contamination that poses a threat to groundwater, surface wat party of compliance with any other federal, state, or local laws and/or responsible party of compliance with any other federal, state, or local laws and/or responsible party of compliance with any other federal, state, or local laws and/or responsible party of laws and/or responsi	iability should their operations have failed to adequately investigate and er, human health, or the environment nor does not relieve the responsible egulations.
Closure Approved by: Scott Rodgers	Date:01/10/2024
Printed Name: Scott Rodgers	Environmental Specialist Adv.
_	

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

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

District III 1000 Rio Brazos Rd., Aztec, NM 87410

Phone:(505) 334-6178 Fax:(505) 334-6170

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

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

CONDITIONS

Action 276522

CONDITIONS

Operator:	OGRID:
Maverick Permian LLC	331199
1000 Main Street, Suite 2900	Action Number:
Houston, TX 77002	276522
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
scott.rodgers	None	1/10/2024