

August 9, 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 State F TG 001 Incident Number NAPP2233947938 Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Maverick Natural Resources, LLC (Maverick), has prepared the following *Closure Request* to document assessment, excavation, and soil sampling activities performed at the State F TG 001 release (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 NAPP2233947938.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit F, Section 36, Township 17 South, Range 33 East, in Lea County, New Mexico (32.79316° N, -103.61882° W) and is associated with oil and gas exploration and production operations on State Land managed by New Mexico State Land Office (NMSLO).

On November 20, 2022, a pressure switch failed and resulted in the release of approximately 15 barrels (bbls) of crude oil onto the surface of the well pad and lease road. A vacuum truck was dispatched to the Site and recovered approximately 10 bbls of free-standing crude oil. Maverick reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on November 30, 2022. The release was assigned Incident Number NAPP2233947938.

Since the release remained on the active well pad and lease road, an assessment of cultural properties had already been completed prior to the construction of the well pad and as such, the Cultural Properties Protection Rule (CPP) has been followed. No additional cultural resource surveys were completed in connection with this release. The release area is not expected to be reclaimed until the oil and gas well is plugged and abandoned and the well pad is reclaimed. The Reclamation Plan for this release will default to the NMSLO-approved Reclamation Plan for the well pad per 19.2.100.67 of the New Mexico Administrative Code (NMAC).

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SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is United States Geological Survey (USGS) well 324815103372001, located approximately 4,726 feet northwest of the Site. The groundwater well has a reported depth to groundwater of 162 feet bgs. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well record is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a playa lake, located approximately 2,822 feet northwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

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

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 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 off-pad area that was impacted by the release, per 19.15.29.13.D (1) NMAC for the top 4 feet of areas that will be reclaimed following remediation.

SITE ASSESSMENT ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On January 12, 2023, Ensolum personnel were at the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Maverick had completed a surface scrape of the release area during initial response activities. Ensolum collected eight assessment soil samples (SS01 through SS08) within and around the release extent at a depth of 0.25 feet bgs to assess the extent of the release. The soil samples were field screened for volatile aromatic hydrocarbons (VOCs) utilizing a calibrated photoionization detector (PID) and chloride Hach® chloride QuanTab® test strips. The release extent and assessment soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.

Based on elevated field screening results, assessment samples SS06, SS07, and SS08 weren't submitted for laboratory analysis, and excavation was warranted in these areas. Assessment soil samples SS01 through SS05 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



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transported at or below 4 degrees Celsius (°C) under strict chain-of-custody procedures to Eurofins or 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 300.0 or 4500.

On January 23, 2023, Ensolum personnel returned to the Site to complete additional assessment activities. Four potholes (PH01 through PH04) were advanced within the release extent via backhoe to further assess the extent of the release. Soil from the potholes was field screened for VOCs and chloride. Discrete delineation soil samples were collected from each pothole at depths ranging from 0.5 feet to 2 feet bgs. The delineation samples were collected, handled, and analyzed as described above. The delineation soil sample locations were mapped utilizing a handheld GPS and are presented on Figure 2. Photographic documentation was completed during the Site visits and a photographic log is included in Appendix B.

Laboratory analytical results for assessment soil samples SS01 through SS05 and delineation samples from potholes PH01 through PH04 indicated that all COC concentrations were compliant with the most stringent Table I Closure Criteria and provided lateral and vertical definition of the release. Based on field screening results for assessment samples SS06 through SS08, excavation activities were warranted.

EXCAVATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

Between January 12, 2023, and July 18, 2023, Ensolum personnel were at the Site to oversee excavation of impacted soil as indicated by field screening results for assessment samples SS06 through SS08. To direct excavation activities, soil was field screened for VOCs and chloride. Excavation activities were performed utilizing a backhoe and transport vehicles. The excavation was completed to depths ranging from 0.25 feet to 3 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 FS12, FS01A, FS08A, FS09A, FS10A, and FS12A were collected from the floor of the excavation at depths ranging from 0.25 feet to 3 feet bgs. Composite soil samples SW01 through SW03 were collected from the sidewalls of the deeper portions of the excavation, at depths ranging from the ground surface to 3 feet bgs. Due to the shallow depth of the rest of the excavation areas, soil from any sidewalls was incorporated into the floor samples. The excavation soil samples were handled and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations were mapped utilizing a handheld GPS and are presented on Figure 3.

Laboratory analytical results for excavation soil samples FS01A, FS02 through FS07, FS08A, FS09A, FS10A, FS11, and FS12A, and SW01 through SW03, collected from the final excavation extent, indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria. Laboratory analytical results for excavation floor samples FS01, FS08, FS09, FS10, and FS12 initially exceeded the most stringent Table I Closure Criteria for TPH or chloride; additional soil was removed from these areas and subsequent floor samples FS01A, FS08A, FS09A, FS10A, and FS12A were compliant. Laboratory analytical results are summarized on Table 1 and the complete laboratory analytical reports are included as Appendix C.

The combined excavations measured approximately 2,300 square feet in areal extent. A total of approximately 175 cubic yards of impacted soil was removed during the excavation activities. The



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impacted soil was transported and properly disposed of at the R360 Disposal Facility located in Hobbs, New Mexico. After completion of confirmation sampling, the excavation was secured with fencing.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the January 23, 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 most stringent Table I Closure Criteria. Additionally, the release was laterally and vertically delineated to below the most stringent Table I Closure Criteria. Based on the laboratory analytical results, no further remediation is required. Maverick backfilled the excavations with material purchased locally and recontoured the Site to match pre-existing conditions.

Initial response efforts and excavation of impacted soil have mitigated impacts at this Site. Depth to groundwater was estimated to be greater than 100 feet bgs 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 NAPP2233947938. NMOCD Notifications are included in Appendix D and the final Form C-141 is included in Appendix E.

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 Aimee Cole

Senior Managing Scientist

cc: Bryce Wagoner, Maverick Natural Resources

New Mexico State Land Office

Appendices:

Figure 1 Site Receptor Map

Figure 2 Assessment and Delineation Soil Sample Locations

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

Appendix B Photographic Log

Appendix C Laboratory Analytical Reports & Chain of Custody Documentation

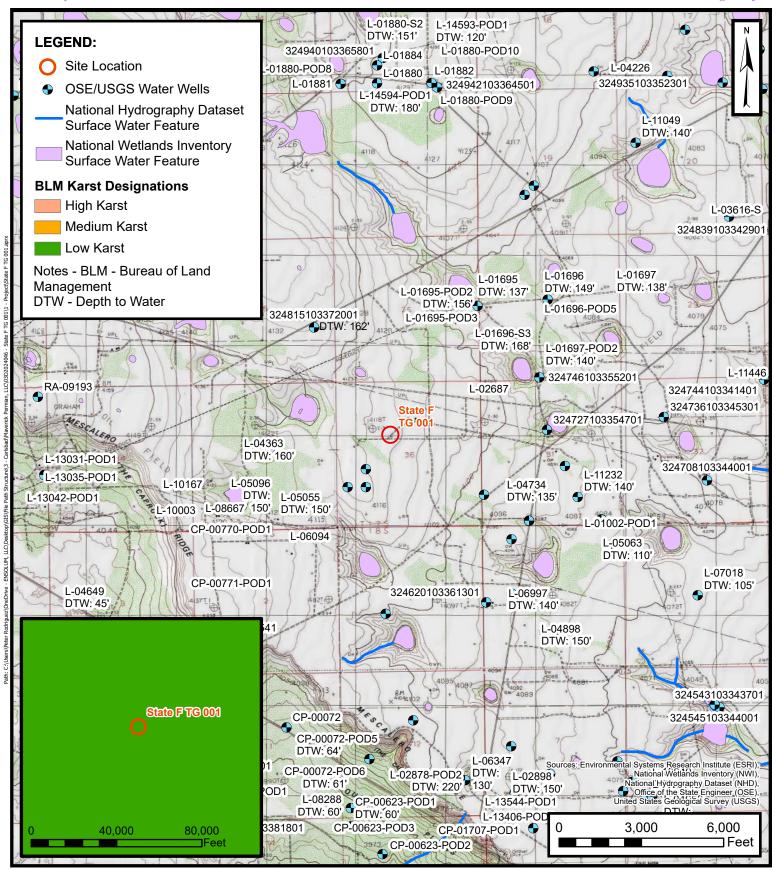
Appendix D NMOCD Notifications

Appendix E Final C-141





FIGURES



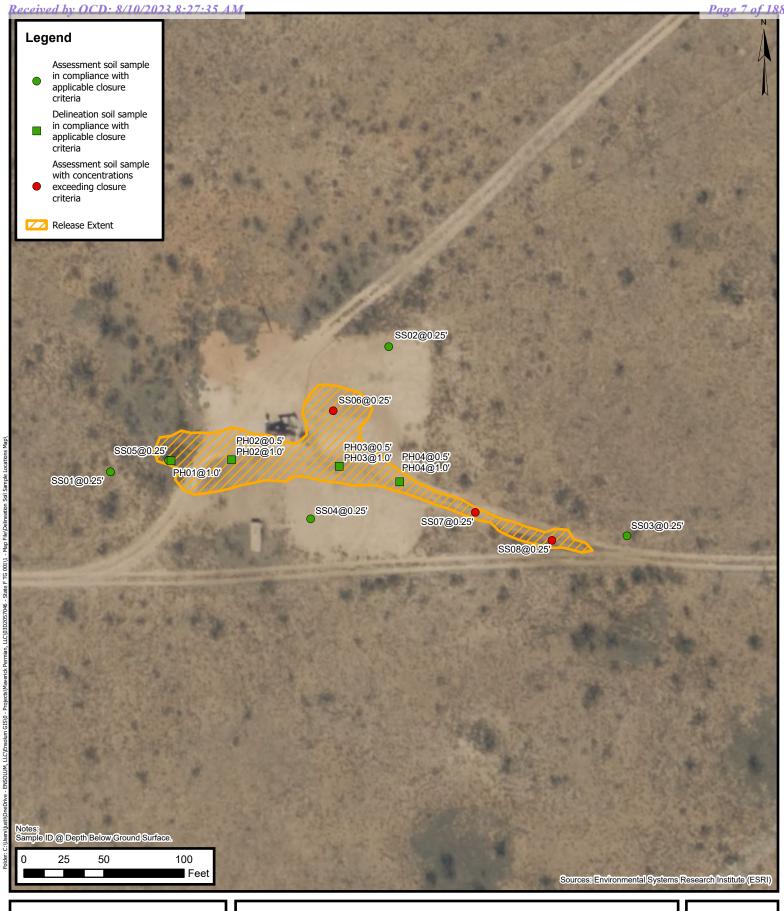


Site Receptor Map

State F TG 001 Maverick Permian, LLC 32.79316, -103.61882 Section 36, Township 17S, Ran-

Unit F Section 36, Township 17S, Range 33E, Lea County, NM Project Number: 03D2024046 **FIGURE**

1

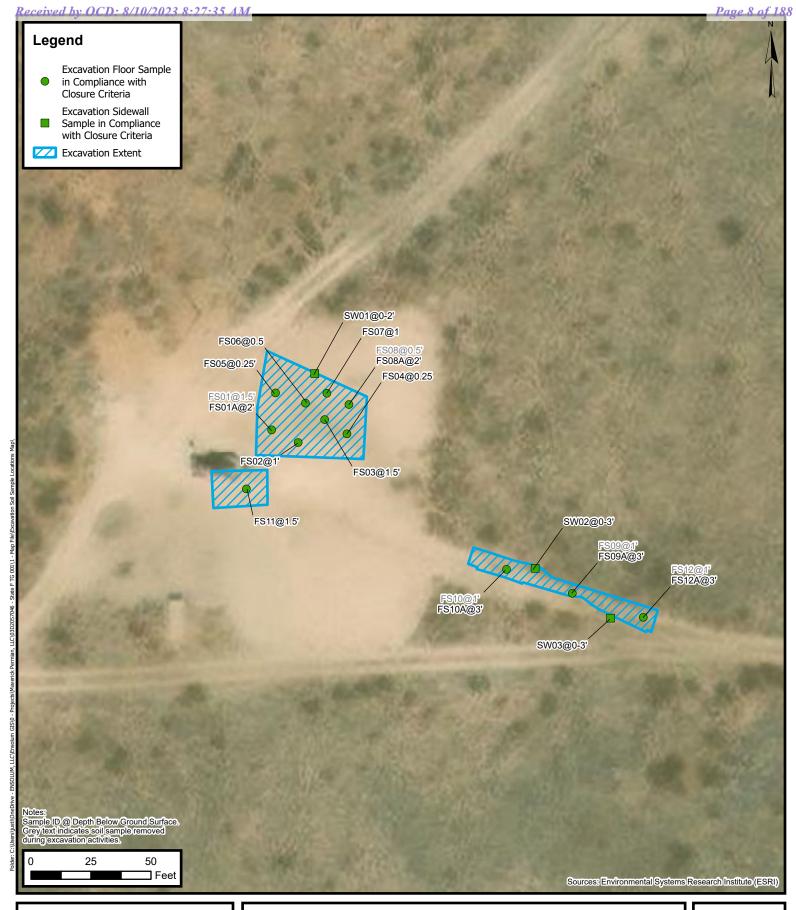




Assessment and Delineation Soil Sample Locations

Maverick Permian, LLC State F TG 001 Incident Number: NAPP2233947938 Unit F, Sec 36, T17S, R 33E Lea County, New Mexico FIGURE 2

Released to Imaging: 11/14/2023 10:29:55 AM





Excavation Soil Sample Locations

Maverick Permian, LLC State F TG 001 Incident Number: NAPP2233947938 Unit F, Sec 36, T17S, R 33E Lea County, New Mexico FIGURE 3



TABLE



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS State F TG 001 Maverick Permian, LLC Lea County, New Mexico

					County, New N					
Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 (Closure Criteria ((NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
				Asse	ssment Soil Sa	mples				
SS01	01/12/2023	0.25	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	<5.01
SS02	01/12/2023	0.25	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	105
SS03	01/12/2023	0.25	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	52.4
SS04	01/12/2023	0.25	<0.00199	<0.00398	<49.9	57.4	<49.9	57.4	57.4	5.65
SS05*	01/12/2023	0.25	<0.00200	<0.00399	<49.8	95.0	<49.8	95.0	95.0	50.0
SS06	01/12/2023	0.25	Field screening on	ly						
SS07*	01/12/2023	0.25	Field screening on	ly						
SS08*	01/12/2023	0.25	Field screening on	ly						
				Delir	neation Soil Sa	mples				
PH01*	01/23/2023	1.0	<0.00199	0.0167	<50.0	<50.0	<50.0	<50.0	<50.0	5.89
PH02	01/23/2023	0.5	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	13.0
11102	01/23/2023	2.0	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	<5.02
PH03	01/23/2023	0.5	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	36.2
11103	01/23/2023	1.0	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	37.5
PH04	01/23/2023	0.5	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	5.39
11104	01/23/2023	1.0	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	128
				Excava	tion Floor Soil	Samples				
FS01	01/12/2023	1.5	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	1,560
FS01A	07/17/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
FS02	01/12/2023	1.0	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	274
FS03	01/12/2023	1.5	<0.00199	<0.00398	78.6	<49.9	<49.9	79	78.6	128
FS04	01/12/2023	0.25	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	135
FS05	01/12/2023	0.25	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	412
FS06	01/12/2023	0.5	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	87.0
FS07	01/12/2023	1.0	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	73.6
FS08	01/12/2023	0.5	<0.00199	<0.00398	344	<50.0	65.8	344	410	93.4
FS08A	07/17/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS09*	01/23/2023	1.0	<0.00199	<0.00398	<49.9	491	<49.9	491	491	59.9
FS09A *	07/18/2023	3.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160.0
FS10*	01/23/2023	1.0	<0.00199	<0.00398	<49.9	107	<49.9	107	107	93.5
FS10A*	07/18/2023	3.0	<0.050	<0.300	<10.0	31.1	<10.0	31.1	31.1	96.0
FS11	01/12/2023	1.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	396
FS12*	01/23/2023	1.0	<0.00200	<0.00401	<50.0	358	<50.0	<50.0	358	60.9
FS12A*	07/18/2023	3.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS State F TG 001 Maverick Permian, LLC Lea County, New Mexico

				Lea	Journey, New II	IGNICO				
Sample I.D.	ole I.D. Sample Sample Depth Date (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 1 Closure Criteria (NMAC 19.15.29)		10	50	NE	NE	NE	1,000	2,500	20,000	
				Excavation	on Sidewall So	l Samples				
SW01	07/17/2023	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
SW02*	07/18/2023	0-3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SW03*	07/18/2023	0-3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0

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

TPH: Total Petroleum Hydrocarbon

GRO: Gasoline Range Organics DRO: Diesel Range Organics ORO: Oil Range Organics

Grey text indicates soil sample removed during excavation activities

Concentrations in **bold** exceed the NMOCD Table 1 Closure Criteria or reclamation standard where applicable.

* 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



Click to hideNews Bulletins

• See the Water Data for the Nation Blog for the latest news and updates.

Groundwater levels for the Nation

Important: <u>Next Generation Monitoring Location Page</u>

Search Results -- 1 sites found

Agency code = usgs site_no list = • 324815103372001

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 324815103372001 17S.33E.26.421443

Lea County, New Mexico
Latitude 32°48'14", Longitude 103°37'38" NAD27
Land-surface elevation 4,134.00 feet above NGVD29
This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer.
This well is completed in the Ogallala Formation (1210GLL) local aquifer.

Table of data Tab-separated data Graph of data Reselect period

Date	Time	? Water- level date-time accuracy	Parameter code	r fe b la	Jater evel, eet elow and urface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurem
1950-05-18		D	62610		3973.27	NGVD2	9 1		Z		Α
1950-05-18		D	62611		3974.91	NAVD8			Z		А
1950-05-18		D	72019	160.73			1		Z		Α
1950-07-21		D	62610		3973.22	NGVD2	9 1		Z		А
1950-07-21		D	62611		3974.86		8 1		Z		А
1950-07-21		D	72019	160.78			1		Z		А
1950-09-21		D	62610		3973.18	NGVD2	9 1		Z		Α
1950-09-21		D	62611		3974.82	NAVD8	8 1		Z		А
1950-09-21		D	72019	160.82			1		Z		Α
1950-11-18		D	62610		3973.34	NGVD2	9 1		Z		А
1950-11-18		D	62611		3974.98	NAVD8	8 1		Z		А
1950-11-18		D	72019	160.66			1		Z		А
1951-01-21		D	62610		3973.44	NGVD2	9 1		Z		Α
1951-01-21		D	62611		3975.08	NAVD8	8 1		Z		А
1951-01-21		D	72019	160.56			1		Z		А
1951-03-24		D	62610		3973.23	NGVD2	9 1		Z		А
1951-03-24		D	62611		3974.87	NAVD8	8 1		Z		Α
1951-03-24		D	72019	160.77			1		Z		А
1951-05-22		D	62610		3973.14	NGVD2	9 1		Z		Α
1951-05-22		D	62611		3974.78	NAVD8	8 1		Z		А
1951-05-22		D	72019	160.86			1		Z		Α
1951-07-25		D	62610		3973.41	NGVD2	9 1		Z		А
1951-07-25		D	62611		3975.05	NAVD8	8 1		Z		Α
1951-07-25		D	72019	160.59			1		Z		Α
1951-09-21		D	62610		3973.13	NGVD2	9 1		Z		Α
1951-09-21		D	62611		3974.77	NAVD8	3 1		Z		А
1951-09-21		D	72019	160.87			1		Z		Α
1951-11-21		D	62610		3973.25	NGVD2	9 1		Z		А
1951-11-21		D	62611		3974.89	NAVD8	8 1		Z		Α
1951-11-21		D	72019	160.75			1		Z		А

Date	Time	? Water- level date-time accuracy	? Parameter code		Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurem
1952-01-04		D	62610		3973.32	NGVD2	9 1	Z			A
1952-01-04		D	62611		3974.96			Z			A
1952-01-04		D	72019	160.6		10.000	1	Z			A
1952-03-22		D	62610	10010	3973.13	NGVD2		Z			A
1952-03-22		D	62611		3974.77			Z			A
1952-03-22		D	72019	160.8			1	Z			A
1952-05-24		D	62610	10010	, 3973.05	NGVD2		Z			A
1952-05-24		D	62611		3974.69			Z			A
1952-05-24		D	72019	160.9			1	Z			A
1952-07-23		D	62610		3973.02	NGVD2		Z			А
1952-07-23		D	62611		3974.66			Z			А
1952-07-23		D	72019	160.9			1	Z			А
1952-09-18		D	62610		3973.10	NGVD2	9 1	Z			А
1952-09-18		D	62611		3974.74		8 1	Z			А
1952-09-18		D	72019	160.9	0		1	Z			Α
1952-11-18		D	62610		3972.97	NGVD2	9 1	Z			А
1952-11-18		D	62611		3974.61	NAVD8	8 1	Z			А
1952-11-18		D	72019	161.0	3		1	Z			А
1953-01-08		D	62610		3972.89	NGVD2	9 1	Z			А
1953-01-08		D	62611		3974.53	NAVD8	8 1	Z			А
1953-01-08		D	72019	161.1	1		1	Z			Α
1953-03-24		D	62610		3972.85	NGVD2	9 1	Z			А
1953-03-24		D	62611		3974.49	NAVD8	8 1	Z	,		Α
1953-03-24		D	72019	161.1	5		1	Z			А
1953-05-23		D	62610		3972.93	NGVD2	9 1	Z			Α
1953-05-23		D	62611		3974.57	NAVD8	8 1	Z			А
1953-05-23		D	72019	161.0	7		1	Z			А
1953-07-22		D	62610		3972.79	NGVD2	9 1	Z	:		А
1953-07-22		D	62611		3974.43	NAVD8	8 1	Z			А
1953-07-22		D	72019	161.2	1		1	Z			А
1953-09-14		D	62610		3972.89	NGVD2	9 1	Z			А

Date	Time	? Water- level date-time accuracy	? Parameter code	r	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurem
1953-09-14		D	62611		3974.53	NAVD8	8 1	Z	,		А
1953-09-14		D	72019	161.		1,,,,,,,,	1	Z			A
1953-11-20		D	62610		 3972.75	NGVD2		Z			А
1953-11-20		D	62611		3974.39			Z			Α
1953-11-20		D	72019	161.			1	Z			А
1954-01-11		D	62610		3972.70	NGVD2		Z			А
1954-01-11		D	62611		3974.34		8 1	Z			А
1954-01-11		D	72019	161.	30		1	Z			А
1954-03-02		D	62610		3972.51	NGVD2	9 1	Z			А
1954-03-02		D	62611		3974.15		8 1	Z			А
1954-03-02		D	72019	161.	49		1	Z			А
1954-05-05		D	62610		3972.68	NGVD2	9 1	Z	:		А
1954-05-05		D	62611		3974.32	NAVD8	8 1	Z	:		А
1954-05-05		D	72019	161.	32		1	Z	:		А
1954-07-13		D	62610		3972.60	NGVD2	9 1	Z			А
1954-07-13		D	62611		3974.24	NAVD8	8 1	Z			А
1954-07-13		D	72019	161.	40		1	Z	:		А
1954-09-15		D	62610		3972.46	NGVD2	9 1	Z			Α
1954-09-15		D	62611		3974.10	NAVD8	8 1	Z	:		А
1954-09-15		D	72019	161.	54		1	Z			А
1954-11-10		D	62610		3972.30	NGVD2	9 1	Z			А
1954-11-10		D	62611		3973.94	NAVD8	8 1	Z			А
1954-11-10		D	72019	161.	70		1	Z			А
1955-01-06		D	62610		3972.19	NGVD2	9 1	Z			А
1955-01-06		D	62611		3973.83	NAVD8	8 1	Z			А
1955-01-06		D	72019	161.	81		1	Z			Α
1955-03-19		D	62610		3972.27	NGVD2	9 1	Z			А
1955-03-19		D	62611		3973.91	NAVD8	8 1	Z			Α
1955-03-19		D	72019	161.	73		1	Z			А
1955-05-28		D	62610		3972.07	NGVD2	9 1	Z			А
1955-05-28		D	62611		3973.71	NAVD8	8 1	Z			А

Date	Time	? Water- level date-time accuracy	? Paramete code	er	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	Source of measurem
1955-05-28		D	72019	161.9	93		1	Z			Α
1955-07-15		D	62610		3972.12	NGVD2	9 1	Z			А
1955-07-15		D	62611		3973.76	NAVD8	8 1	Z			Α
1955-07-15		D	72019	161.8	38		1	Z			Α
1955-09-22		D	62610		3972.07	NGVD2	9 1	Z			Α
1955-09-22		D	62611		3973.71	NAVD8	8 1	Z			Α
1955-09-22		D	72019	161.9	93		1	Z			Α
1955-11-28		D	62610		3971.95	NGVD2	9 1	Z			А
1955-11-28		D	62611		3973.59	NAVD8	3 1	Z			Α
1955-11-28		D	72019	162.0)5		1	Z			Α
1956-01-05		D	62610		3971.90	NGVD2	9 1	Z			Α
1956-01-05		D	62611		3973.54	NAVD8	8 1	Z			Α
1956-01-05		D	72019	162.	.0		1	Z			Α
1956-03-14		D	62610		3971.91	NGVD2	9 1	Z			А
1956-03-14		D	62611		3973.55	NAVD8	8 1	Z			Α
1956-03-14		D	72019	162.0	19		1	Z			А
1956-05-09		D	62610		3971.88	NGVD2	9 1	Z			Α
1956-05-09		D	62611		3973.52	NAVD8	8 1	Z			А
1956-05-09		D	72019	162.	.2		1	Z			Α
1956-07-26		D	62610		3971.76	NGVD2	9 1	Z			А
1956-07-26		D	62611		3973.40			Z			Α
1956-07-26		D	72019	162.2	24		1	Z			А
1956-09-07		D	62610		3971.65	NGVD2	9 1	Z			Α
1956-09-07		D	62611		3973.29			Z			А
1956-09-07		D	72019	162.3			1	Z			A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day

Date	Time	? Water- level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measureme
Referenced vert	cical datum		NG	√D29 I	National Geodetic V	ertical Datum of 1929	e			
Status				1 :	Static					
Method of meas	surement			Z	Other.					
Measuring agen	су			1	Not determined					
Source of meas	urement			I	Not determined					
Water-level app	roval status			Α ,	Approved for publication	ation Processing ar	nd review comple	ted.		

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<u>U.S. Department of the Interior</u> | <u>U.S. Geological Survey</u> **Title: Groundwater for USA: Water Levels**

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2023-01-17 16:08:18 EST

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APPENDIX B

Photographic Log



Photographic Log Maverick Permian, LLC State F TG #001 NAPP2233947938





Photograph 1 Date: 1/12/2023 Photograph 2 Date: 1/12/2023

Description: Stained soil from release Description: Excavation activities

View: North View: Southeast



Photograph 3 Date: 7/17/2023 Photograph 4 Date: 7/17/2023

Description: Completed excavation Description: Completed excavation

View: West View: East



APPENDIX C

Laboratory Analytical Report

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kalei Jennings Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701

Generated 1/30/2023 9:42:58 AM

JOB DESCRIPTION

STATE FTG #001 SDG NUMBER 03D2057046

JOB NUMBER

890-3856-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220



Eurofins Carlsbad

Job Notes

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

Authorization

Generated 1/30/2023 9:42:58 AM

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

Page 2 of 34

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14

Client: Ensolum

Project/Site: STATE FTG #001

Laboratory Job ID: 890-3856-1

SDG: 03D2057046

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Definitions/Glossary

Client: Ensolum Job ID: 890-3856-1 Project/Site: STATE FTG #001

SDG: 03D2057046

Qualifiers

GC VOA Qualifier

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.

Qualifier Description

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.
HDI C/IC	

HPLC/IC

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

Clossary

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
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated

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

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive **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

Eurofins Carlsbad

Case Narrative

Client: Ensolum

Project/Site: STATE FTG #001

Job ID: 890-3856-1

SDG: 03D2057046

Job ID: 890-3856-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3856-1

Receipt

The samples were received on 1/13/2023 2:13 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: FS01 (890-3856-1), FS02 (890-3856-2), FS03 (890-3856-3), FS04 (890-3856-4), FS05 (890-3856-5), FS06 (890-3856-6), FS07 (890-3856-7), FS08 (890-3856-8) and FS11 (890-3856-9).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: FS01 (890-3856-1), FS02 (890-3856-2), FS03 (890-3856-3), FS04 (890-3856-4), FS05 (890-3856-5), FS06 (890-3856-6), FS07 (890-3856-7), FS08 (890-3856-8), FS11 (890-3856-9), (LCS 880-44389/1-A) and (890-3856-A-1-E MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method 8015MOD NM: The laboratory control sample (LCS) associated with preparation batch 880-44155 and analytical batch 880-44811 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: FS05 (890-3856-5), FS07 (890-3856-7), (LCS 880-44155/2-A), (LCSD 880-44155/3-A), (MB 880-44155/1-A) and (890-3858-A-1-B). Evidence of matrix interferences is not obvious.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: (880-24172-A-1-C), (880-24172-A-1-D) MS) and (880-24172-A-1-E MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-44944 and analytical batch 880-44886 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

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 880-44196 and analytical batch 880-44283 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

Client Sample Results

 Client: Ensolum
 Job ID: 890-3856-1

 Project/Site: STATE FTG #001
 SDG: 03D2057046

Client Sample ID: FS01 Lab Sample ID: 890-3856-1

Date Collected: 01/12/23 00:00
Date Received: 01/13/23 14:13

Sample Depth: 1.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U F1	0.00201	mg/Kg		01/19/23 16:20	01/24/23 02:22	1
Toluene	< 0.00201	U F2 F1	0.00201	mg/Kg		01/19/23 16:20	01/24/23 02:22	1
Ethylbenzene	<0.00201	U F1	0.00201	mg/Kg		01/19/23 16:20	01/24/23 02:22	1
m-Xylene & p-Xylene	<0.00402	U F2 F1	0.00402	mg/Kg		01/19/23 16:20	01/24/23 02:22	1
o-Xylene	<0.00201	U F1	0.00201	mg/Kg		01/19/23 16:20	01/24/23 02:22	1
Xylenes, Total	<0.00402	U F1	0.00402	mg/Kg		01/19/23 16:20	01/24/23 02:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130			01/19/23 16:20	01/24/23 02:22	1
1,4-Difluorobenzene (Surr)	78		70 - 130			01/19/23 16:20	01/24/23 02:22	1
- Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			01/24/23 13:50	1
Method: SW846 8015 NM - Diese	ol Pango Organ	ice (DPO) ((SC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			0.1/07/00 11 50	
				mg/rtg			01/27/23 11:58	1
- Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)		mg/Ng			01/2//23 11:58	1
Method: SW846 8015B NM - Dies Analyte	•	nics (DRO) Qualifier		Unit	D	Prepared	01/2//23 11:58 Analyzed	1 Dil Fac
Analyte Gasoline Range Organics	•	Qualifier	(GC)		<u>D</u>	Prepared 01/17/23 13:29		·
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U	(GC)	Unit	<u>D</u>		Analyzed	Dil Fac
	Result <49.8	Qualifier U U *+	(GC) RL 49.8	<mark>Unit</mark> mg/Kg	<u>D</u>	01/17/23 13:29	Analyzed 01/27/23 03:16	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.8 <49.8	Qualifier U U*+	(GC) RL 49.8	Unit mg/Kg mg/Kg	<u>D</u>	01/17/23 13:29 01/17/23 13:29	Analyzed 01/27/23 03:16 01/27/23 03:16	Dil Fac 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.8 <49.8 <49.8	Qualifier U U*+	(GC) RL 49.8 49.8 49.8	Unit mg/Kg mg/Kg	<u> </u>	01/17/23 13:29 01/17/23 13:29 01/17/23 13:29	Analyzed 01/27/23 03:16 01/27/23 03:16 01/27/23 03:16	Dil Fac 1 1 Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <49.8 <49.8 <49.8 <49.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80	Qualifier U U*+	(GC) RL 49.8 49.8 49.8 Limits	Unit mg/Kg mg/Kg	<u> </u>	01/17/23 13:29 01/17/23 13:29 01/17/23 13:29 <i>Prepared</i>	Analyzed 01/27/23 03:16 01/27/23 03:16 01/27/23 03:16 Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <49.2 <	Qualifier U V*+ U Qualifier	RL 49.8 49.8 49.8 Limits 70 - 130 70 - 130	Unit mg/Kg mg/Kg	<u>D</u>	01/17/23 13:29 01/17/23 13:29 01/17/23 13:29 Prepared 01/17/23 13:29	Analyzed 01/27/23 03:16 01/27/23 03:16 01/27/23 03:16 Analyzed 01/27/23 03:16	Dil Fac 1
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	Qualifier U V*+ U Qualifier	RL 49.8 49.8 49.8 Limits 70 - 130 70 - 130	Unit mg/Kg mg/Kg	<u>D</u>	01/17/23 13:29 01/17/23 13:29 01/17/23 13:29 Prepared 01/17/23 13:29	Analyzed 01/27/23 03:16 01/27/23 03:16 01/27/23 03:16 Analyzed 01/27/23 03:16	Dil Fac 1 1 1 Dil Fac 1

Client Sample ID: FS02 Lab Sample ID: 890-3856-2

Date Collected: 01/12/23 00:00 Date Received: 01/13/23 14:13

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/19/23 16:20	01/24/23 02:48	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/19/23 16:20	01/24/23 02:48	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/19/23 16:20	01/24/23 02:48	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/19/23 16:20	01/24/23 02:48	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/19/23 16:20	01/24/23 02:48	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/19/23 16:20	01/24/23 02:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		S1+	70 - 130			01/19/23 16:20	01/24/23 02:48	1

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Matrix: Solid

2

3

0

8

10

12

13

Job ID: 890-3856-1

Client: Ensolum Project/Site: STATE FTG #001 SDG: 03D2057046

Client Sample ID: FS02 Lab Sample ID: 890-3856-2

Date Collected: 01/12/23 00:00 Matrix: Solid Date Received: 01/13/23 14:13

Sample Depth: 1

Method: SW846 8021B - Vola	tile Organic Compounds (GC)	(Continued)			
Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	86	70 - 130	01/19/23 16:20	01/24/23 02:48	1
_ 					

Method: TAL SOP Total BTEX - Total	al BTEX Calc	ulation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/24/23 13:50	1
_								

Method: SW846 8015 NM - Diesel Rang	ge Organi	ics (DRO) (0	GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/27/23 11:58	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/17/23 13:29	01/27/23 03:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U *+	50.0	mg/Kg		01/17/23 13:29	01/27/23 03:38	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/17/23 13:29	01/27/23 03:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzea	DII Fac
1-Chlorooctane	114	70 - 130	01/17/23 13:29	01/27/23 03:38	1
o-Terphenyl	124	70 - 130	01/17/23 13:29	01/27/23 03:38	1
Mathad: NGANANA 200 0 A	niona lan Chramatagraphy Sa	ludal a			

Method: MCAWW 300.0 - Anions, I	on Chromatography - Sol	uble					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	274	4.98	mg/Kg			01/19/23 02:59	1

Client Sample ID: FS03 Lab Sample ID: 890-3856-3 Date Collected: 01/12/23 00:00 **Matrix: Solid**

Date Received: 01/13/23 14:13

Sample Depth: 1.5

Analyte

Total TPH

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/19/23 16:20	01/24/23 03:14	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/19/23 16:20	01/24/23 03:14	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/19/23 16:20	01/24/23 03:14	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/19/23 16:20	01/24/23 03:14	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/19/23 16:20	01/24/23 03:14	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/19/23 16:20	01/24/23 03:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	159	S1+	70 - 130			01/19/23 16:20	01/24/23 03:14	1
1,4-Difluorobenzene (Surr)	82		70 - 130			01/19/23 16:20	01/24/23 03:14	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			01/24/23 13:50	1

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Dil Fac

Analyzed

01/30/23 10:15

RL

49.9

Unit

mg/Kg

Prepared

Result Qualifier

78.6

Job ID: 890-3856-1

Matrix: Solid

Lab Sample ID: 890-3856-3

01/18/23 20:56

Client: Ensolum Project/Site: STATE FTG #001 SDG: 03D2057046

Client Sample ID: FS03

Date Collected: 01/12/23 00:00 Date Received: 01/13/23 14:13

Sample Depth: 1.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U *1	49.9	mg/Kg		01/17/23 16:20	01/28/23 04:47	1
(GRO)-C6-C10								
Diesel Range Organics (Over	78.6		49.9	mg/Kg		01/17/23 16:20	01/28/23 04:47	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/17/23 16:20	01/28/23 04:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130			01/17/23 16:20	01/28/23 04:47	1
o-Terphenyl	94		70 - 130			01/17/23 16:20	01/28/23 04:47	1
Method: MCAWW 300.0 - Anions	Ion Chromato	ography - Se	oluble					
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: FS04 Lab Sample ID: 890-3856-4 Date Collected: 01/12/23 00:00 Matrix: Solid

5.03

mg/Kg

128

Date Received: 01/13/23 14:13

Sample Depth: 0.25

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		01/19/23 16:20	01/24/23 03:41	1
Toluene	<0.00198	U	0.00198	mg/Kg		01/19/23 16:20	01/24/23 03:41	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		01/19/23 16:20	01/24/23 03:41	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		01/19/23 16:20	01/24/23 03:41	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		01/19/23 16:20	01/24/23 03:41	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		01/19/23 16:20	01/24/23 03:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130			01/19/23 16:20	01/24/23 03:41	1
1,4-Difluorobenzene (Surr)	82		70 - 130			01/19/23 16:20	01/24/23 03:41	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	П	0.00396	mg/Kg			01/24/23 13:50	1
IOIAI DI EA	-0.00000	U	0.00550	ilig/rtg			01/24/20 10:00	
- -				mg/Kg			01/24/20 10:00	·
: Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)					·
Method: SW846 8015 NM - Diese Analyte	el Range Organ Result	ics (DRO) (GC)	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
: Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)		<u>D</u>	Prepared		·
Method: SW846 8015 NM - Diese Analyte	Result <49.9	ics (DRO) (Qualifier	RL 49.9	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH	el Range Organ Result <49.9 sel Range Organ	ics (DRO) (Qualifier	RL 49.9	Unit	<u>D</u>	Prepared Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies	el Range Organ Result <49.9 sel Range Organ	Qualifier Unics (DRO) Qualifier	RL 49.9 (GC)	Unit mg/Kg		<u> </u>	Analyzed 01/27/23 11:58	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	el Range Organ Result <49.9 sel Range Orga Result	Qualifier Unics (DRO) Qualifier	(GC) RL (GC) RL	Unit mg/Kg		Prepared	Analyzed 01/27/23 11:58	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	el Range Organ Result <49.9 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U u	(GC) RL (GC) RL	Unit mg/Kg		Prepared	Analyzed 01/27/23 11:58	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)	el Range Organ Result Result Result Result 49.9 49.9	Qualifier U nics (DRO) Qualifier U u	(GC) RL 49.9 (GC) RL 49.9	Unit mg/Kg Unit mg/Kg		Prepared 01/17/23 13:29	Analyzed 01/27/23 11:58 Analyzed 01/27/23 04:20	Dil Fac Dil Fac 1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10	el Range Organ Result Result Result Result 49.9 49.9	cics (DRO) (Control of the property of the pro	(GC) RL 49.9 (GC) RL 49.9	Unit mg/Kg Unit mg/Kg		Prepared 01/17/23 13:29	Analyzed 01/27/23 11:58 Analyzed 01/27/23 04:20	Dil Fac Dil Fac 1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	el Range Organ Result 49.9 sel Range Orga Result 49.9 49.9	cics (DRO) (Control of the property of the pro	(GC) RL 49.9 (GC) RL 49.9 49.9	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 01/17/23 13:29 01/17/23 13:29	Analyzed 01/27/23 11:58 Analyzed 01/27/23 04:20 01/27/23 04:20	Dil Fac Dil Fac 1 1 1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	sel Range Organ Result <49.9 sel Range Orga Result <49.9 <49.9 <49.9	cics (DRO) (Control of the property of the pro	GC) RL 49.9 (GC) RL 49.9 49.9 49.9	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 01/17/23 13:29 01/17/23 13:29 01/17/23 13:29	Analyzed 01/27/23 11:58 Analyzed 01/27/23 04:20 01/27/23 04:20 01/27/23 04:20	Dil Fac Dil Fac 1

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Client: Ensolum Job ID: 890-3856-1 Project/Site: STATE FTG #001 SDG: 03D2057046

Client Sample ID: FS04 Lab Sample ID: 890-3856-4 Date Collected: 01/12/23 00:00 Matrix: Solid

Date Received: 01/13/23 14:13

Sample Depth: 0.25

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	135		5.00	mg/Kg			01/18/23 21:13	1

Client Sample ID: FS05 Lab Sample ID: 890-3856-5 Matrix: Solid

Date Collected: 01/12/23 00:00 Date Received: 01/13/23 14:13

Sample Depth: 0.25

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/19/23 16:20	01/24/23 04:07	
Toluene	<0.00200	U	0.00200	mg/Kg		01/19/23 16:20	01/24/23 04:07	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/19/23 16:20	01/24/23 04:07	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		01/19/23 16:20	01/24/23 04:07	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/19/23 16:20	01/24/23 04:07	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		01/19/23 16:20	01/24/23 04:07	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	149	S1+	70 - 130			01/19/23 16:20	01/24/23 04:07	1
1,4-Difluorobenzene (Surr)	87		70 - 130			01/19/23 16:20	01/24/23 04:07	1
Method: TAL SOP Total BTEX - 1	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			01/24/23 13:50	1
Analyte Total TPH		Qualifier U	RL 49.9	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 01/27/23 11:58	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/27/23 11:58	1
Method: SW846 8015B NM - Dies	•		• •					
Analyte		Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/17/23 13:29	01/27/23 04:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U *+	49.9	mg/Kg		01/17/23 13:29	01/27/23 04:42	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/17/23 13:29	01/27/23 04:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	128		70 - 130			01/17/23 13:29	01/27/23 04:42	1
o-Terphenyl	143	S1+	70 - 130			01/17/23 13:29	01/27/23 04:42	1
Method: MCAWW 300.0 - Anions	, Ion Chromato	graphy - So	oluble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	412		4.97	mg/Kg			01/18/23 21:19	1

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Job ID: 890-3856-1

Client: Ensolum Project/Site: STATE FTG #001 SDG: 03D2057046

Client Sample ID: FS06 Lab Sample ID: 890-3856-6 Date Collected: 01/12/23 00:00 Matrix: Solid

Date Received: 01/13/23 14:13 Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/19/23 16:20	01/24/23 04:33	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/19/23 16:20	01/24/23 04:33	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/19/23 16:20	01/24/23 04:33	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		01/19/23 16:20	01/24/23 04:33	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/19/23 16:20	01/24/23 04:33	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		01/19/23 16:20	01/24/23 04:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130			01/19/23 16:20	01/24/23 04:33	1
1,4-Difluorobenzene (Surr)	77		70 - 130			01/19/23 16:20	01/24/23 04:33	1
Method: TAL SOP Total BTEX	- Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			01/24/23 13:50	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Total TPH	<50.0	U	50.0	mg/Kg			01/30/23 10:15	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U *1	50.0	mg/Kg		01/17/23 16:20	01/28/23 05:08	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		01/17/23 16:20	01/28/23 05:08	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/17/23 16:20	01/28/23 05:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130			01/17/23 16:20	01/28/23 05:08	

Method: MCAWW 300.0 - Anions, Io	on Chromatog	graphy - Sol	uble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	87.0		5.05	ma/Ka			01/18/23 21:25		

70 - 130

Lab Sample ID: 890-3856-7 **Client Sample ID: FS07**

Date Collected: 01/12/23 00:00 Date Received: 01/13/23 14:13

Sample Depth: 1

o-Terphenyl

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/19/23 16:20	01/24/23 05:00	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/19/23 16:20	01/24/23 05:00	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/19/23 16:20	01/24/23 05:00	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/19/23 16:20	01/24/23 05:00	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/19/23 16:20	01/24/23 05:00	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/19/23 16:20	01/24/23 05:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	159	S1+	70 - 130			01/19/23 16:20	01/24/23 05:00	

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01/17/23 16:20

01/28/23 05:08

Matrix: Solid

Client: Ensolum Project/Site: STATE FTG #001 Job ID: 890-3856-1 SDG: 03D2057046

Client Sample ID: FS07

Lab Sample ID: 890-3856-7

Matrix: Solid

Date Collected: 01/12/23 00:00 Date Received: 01/13/23 14:13

Sample Depth: 1

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

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1.4-Difluorobenzene (Surr)	81	70 - 130	01/19/23 16:20	01/24/23 05:00	1

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa	
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/24/23 13:50		

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Total TPH	<49.9	U	49.9	mg/Kg			01/27/23 11:58	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/17/23 13:29	01/27/23 05:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U *+	49.9	mg/Kg		01/17/23 13:29	01/27/23 05:25	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/17/23 13:29	01/27/23 05:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 130			01/17/23 13:20	01/27/23 05:25	

Surrogate	76Recovery	Quaimer	LIIIIII	Frepareu	Allalyzeu	DII Fac
1-Chlorooctane	122		70 - 130	01/17/23 13:29	01/27/23 05:25	1
o-Terphenyl	132	S1+	70 - 130	01/17/23 13:29	01/27/23 05:25	1
_						

Method: MCAWW 300.0 - Anions, I	on Chromatography - Sol	uble					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	73.6	4.99	mg/Kg			01/18/23 21:31	1

Client Sample ID: FS08 Lab Sample ID: 890-3856-8 Date Collected: 01/12/23 00:00 **Matrix: Solid**

Date Received: 01/13/23 14:13

Sample Depth: 0.5

Analyte

Total TPH

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/19/23 16:20	01/24/23 05:26	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/19/23 16:20	01/24/23 05:26	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/19/23 16:20	01/24/23 05:26	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/19/23 16:20	01/24/23 05:26	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/19/23 16:20	01/24/23 05:26	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/19/23 16:20	01/24/23 05:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	139	S1+	70 - 130			01/19/23 16:20	01/24/23 05:26	1
1,4-Difluorobenzene (Surr)	84		70 - 130			01/19/23 16:20	01/24/23 05:26	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			01/24/23 13:50	1

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Analyzed

01/30/23 10:15

RL

50.0

Unit

mg/Kg

Prepared

Result Qualifier

410

Dil Fac

Matrix: Solid

Lab Sample ID: 890-3856-8

01/18/23 21:48

 Client: Ensolum
 Job ID: 890-3856-1

 Project/Site: STATE FTG #001
 SDG: 03D2057046

Client Sample ID: FS08

Date Collected: 01/12/23 00:00 Date Received: 01/13/23 14:13

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0	mg/Kg		01/17/23 16:20	01/28/23 05:29	1
Diesel Range Organics (Over C10-C28)	344		50.0	mg/Kg		01/17/23 16:20	01/28/23 05:29	1
Oll Range Organics (Over C28-C36)	65.8		50.0	mg/Kg		01/17/23 16:20	01/28/23 05:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130			01/17/23 16:20	01/28/23 05:29	1
o-Terphenyl	93		70 - 130			01/17/23 16:20	01/28/23 05:29	1
- Method: MCAWW 300.0 - Anior	s, Ion Chromato	ography - So	oluble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: FS11

Lab Sample ID: 890-3856-9

Date Collected: 01/12/23 00:00

Matrix: Solid

5.01

mg/Kg

93.4

Date Received: 01/13/23 14:13

Sample Depth: 1.5

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200	mg/Kg		01/19/23 16:20	01/24/23 05:52	
Toluene	<0.00200	U	0.00200	mg/Kg		01/19/23 16:20	01/24/23 05:52	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/19/23 16:20	01/24/23 05:52	,
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		01/19/23 16:20	01/24/23 05:52	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/19/23 16:20	01/24/23 05:52	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		01/19/23 16:20	01/24/23 05:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	153	S1+	70 - 130			01/19/23 16:20	01/24/23 05:52	1
1,4-Difluorobenzene (Surr)	90		70 - 130			01/19/23 16:20	01/24/23 05:52	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	ulation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			01/24/23 13:50	1
: Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)					
: Method: SW846 8015 NM - Diese Analyte	•	ics (DRO) ((Qualifier	GC)	Unit	D	Prepared	Analyzed	Dil Fac
	•	Qualifier	•	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 01/30/23 10:15	Dil Fac
Analyte Total TPH	Result <49.9	Qualifier U	RL 49.9		<u>D</u>	Prepared		
Analyte	Result <49.9	Qualifier U	RL 49.9		<u>D</u>	Prepared Prepared		
Analyte Total TPH . Method: SW846 8015B NM - Dies	Result <49.9	Qualifier Unics (DRO) Qualifier	RL 49.9 (GC)	mg/Kg		<u> </u>	01/30/23 10:15	1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte	Result <49.9 sel Range Orga Result	Qualifier Unics (DRO) Qualifier	RL 49.9 (GC)	mg/Kg		Prepared	01/30/23 10:15 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U *1	RL 49.9 (GC)	mg/Kg		Prepared	01/30/23 10:15 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9 sel Range Orga Result <49.9 <49.9	Qualifier U nics (DRO) Qualifier U *1 U	RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 01/17/23 16:20 01/17/23 16:20	01/30/23 10:15 Analyzed 01/28/23 05:49 01/28/23 05:49	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 sel Range Orga Result <49.9	Qualifier U nics (DRO) Qualifier U *1 U	RL 49.9 (GC) RL 49.9	mg/Kg Unit mg/Kg		Prepared 01/17/23 16:20	01/30/23 10:15 Analyzed 01/28/23 05:49	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9 sel Range Orga Result <49.9 <49.9	Qualifier U nics (DRO) Qualifier U *1 U	RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 01/17/23 16:20 01/17/23 16:20	01/30/23 10:15 Analyzed 01/28/23 05:49 01/28/23 05:49	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier U nics (DRO) Qualifier U *1 U	RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 01/17/23 16:20 01/17/23 16:20 01/17/23 16:20	01/30/23 10:15 Analyzed 01/28/23 05:49 01/28/23 05:49 01/28/23 05:49	1 Dil Fac

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Client Sample Results

Client: Ensolum Job ID: 890-3856-1

Project/Site: STATE FTG #001 SDG: 03D2057046

Client Sample ID: FS11 Lab Sample ID: 890-3856-9 Date Collected: 01/12/23 00:00 Matrix: Solid Date Received: 01/13/23 14:13

Sample Depth: 1.5

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	396		5.00	mg/Kg			01/18/23 21:54	1		

Surrogate Summary

 Client: Ensolum
 Job ID: 890-3856-1

 Project/Site: STATE FTG #001
 SDG: 03D2057046

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-3856-1	FS01	131 S1+	78	
890-3856-1 MS	FS01	113	83	
890-3856-1 MSD	FS01	134 S1+	81	
890-3856-2	FS02	151 S1+	86	
890-3856-3	FS03	159 S1+	82	
890-3856-4	FS04	130	82	
890-3856-5	FS05	149 S1+	87	
890-3856-6	FS06	132 S1+	77	
890-3856-7	FS07	159 S1+	81	
890-3856-8	FS08	139 S1+	84	
890-3856-9	FS11	153 S1+	90	
LCS 880-44389/1-A	Lab Control Sample	141 S1+	92	
LCSD 880-44389/2-A	Lab Control Sample Dup	131 S1+	91	
MB 880-44389/5-A	Method Blank	98	75	
MB 880-44394/5-A	Method Blank	93	82	
Surrogate Legend				
BFB = 4-Bromofluorobe	nzene (Surr)			
DFBZ = 1,4-Difluoroben	zene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-24172-A-1-D MS	Matrix Spike	75	64 S1-	
880-24172-A-1-E MSD	Matrix Spike Duplicate	79	68 S1-	
890-3856-1	FS01	106	123	
890-3856-2	FS02	114	124	
890-3856-3	FS03	96	94	
890-3856-4	FS04	121	132 S1+	
890-3856-5	FS05	128	143 S1+	
890-3856-6	FS06	96	97	
890-3856-7	FS07	122	132 S1+	
890-3856-8	FS08	97	93	
890-3856-9	FS11	90	90	
890-3858-A-1-C MS	Matrix Spike	98	100	
890-3858-A-1-D MSD	Matrix Spike Duplicate	101	101	
LCS 880-44155/2-A	Lab Control Sample	128	141 S1+	
LCS 880-44944/2-A	Lab Control Sample	92	94	
LCSD 880-44155/3-A	Lab Control Sample Dup	119	132 S1+	
LCSD 880-44944/3-A	Lab Control Sample Dup	87	89	
MB 880-44155/1-A	Method Blank	132 S1+	159 S1+	
	Method Blank	116	117	

OTPH = o-Terphenyl

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Client: Ensolum Job ID: 890-3856-1 Project/Site: STATE FTG #001 SDG: 03D2057046

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-44389/5-A

Analysis Batch: 44514

Matrix: Solid

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 44389

	MB	мв						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/19/23 16:20	01/24/23 01:56	•
Toluene	<0.00200	U	0.00200	mg/Kg		01/19/23 16:20	01/24/23 01:56	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/19/23 16:20	01/24/23 01:56	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/19/23 16:20	01/24/23 01:56	
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/19/23 16:20	01/24/23 01:56	
Xylenes, Total	< 0.00400	U	0.00400	mg/Kg		01/19/23 16:20	01/24/23 01:56	

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	01/19/23 16:20	01/24/23 01:56	1
1,4-Difluorobenzene (Surr)	75		70 - 130	01/19/23 16:20	01/24/23 01:56	1

Lab Sample ID: LCS 880-44389/1-A

Matrix: Solid

Analysis Batch: 44514

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 44389

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1154 mg/Kg 115 70 - 130 Toluene 0.100 0.08920 mg/Kg 89 70 - 130 0.100 0.07834 78 Ethylbenzene mg/Kg 70 - 130 0.200 0.1634 82 70 - 130 m-Xylene & p-Xylene mg/Kg 0.100 0.08474 70 - 130 o-Xylene mg/Kg

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: LCSD 880-44389/2-A

Matrix: Solid

Analysis Batch: 44514

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 44389

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1216		mg/Kg		122	70 - 130	5	35	
Toluene	0.100	0.1022		mg/Kg		102	70 - 130	14	35	
Ethylbenzene	0.100	0.09859		mg/Kg		99	70 - 130	23	35	
m-Xylene & p-Xylene	0.200	0.2131		mg/Kg		107	70 - 130	26	35	
o-Xylene	0.100	0.1073		mg/Kg		107	70 - 130	23	35	

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130
1.4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: 890-3856-1 MS

Matrix: Solid

Analysis Batch: 44514

Client Sample ID: FS01 Prep Type: Total/NA

Prep Batch: 44389

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U F1	0.100	0.06415	F1	mg/Kg		64	70 - 130	
Toluene	<0.00201	U F2 F1	0.100	0.04187	F1	mg/Kg		42	70 - 130	

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QC Sample Results

Client: Ensolum Job ID: 890-3856-1 Project/Site: STATE FTG #001 SDG: 03D2057046

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

Lab Sample ID: 890-3856-1 MS **Client Sample ID: FS01 Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 44514 Prep Batch: 44389 Snike MS MS

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00201	U F1	0.100	0.05385	F1	mg/Kg		54	70 - 130	
m-Xylene & p-Xylene	<0.00402	U F2 F1	0.200	0.05011	F1	mg/Kg		25	70 - 130	
o-Xylene	<0.00201	U F1	0.100	0.06244	F1	mg/Kg		62	70 - 130	

MS MS Surrogate %Recovery Qualifier Limits 70 - 130 4-Bromofluorobenzene (Surr) 113 70 - 130 1,4-Difluorobenzene (Surr) 83

Client Sample ID: FS01 Lab Sample ID: 890-3856-1 MSD **Matrix: Solid** Prep Type: Total/NA Prep Batch: 44389

Analysis Batch: 44514

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U F1	0.0990	0.06444	F1	mg/Kg		65	70 - 130	0	35
Toluene	<0.00201	U F2 F1	0.0990	0.06113	F2 F1	mg/Kg		62	70 - 130	37	35
Ethylbenzene	<0.00201	U F1	0.0990	0.06203	F1	mg/Kg		63	70 - 130	14	35
m-Xylene & p-Xylene	<0.00402	U F2 F1	0.198	0.07636	F2 F1	mg/Kg		39	70 - 130	42	35
o-Xylene	<0.00201	U F1	0.0990	0.07037		mg/Kg		71	70 - 130	12	35

MSD MSD %Recovery Qualifier Limits Surrogate S1+ 70 - 130 4-Bromofluorobenzene (Surr) 134 1,4-Difluorobenzene (Surr) 70 - 130 81

Lab Sample ID: MB 880-44394/5-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 44514

Prep Batch: 44394 MB MB

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/19/23 16:42	01/23/23 12:08	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/19/23 16:42	01/23/23 12:08	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/19/23 16:42	01/23/23 12:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/19/23 16:42	01/23/23 12:08	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/19/23 16:42	01/23/23 12:08	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/19/23 16:42	01/23/23 12:08	1

	IVID IVID				
Surrogate	%Recovery Qualit	ifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93	70 - 130	01/19/23 16:42	01/23/23 12:08	1
1,4-Difluorobenzene (Surr)	82	70 - 130	01/19/23 16:42	01/23/23 12:08	1

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

Lab Sample ID: MB 880-44155/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 44811 Prep Batch: 44155

мв мв Result Qualifier RL Unit Prepared <50.0 U 50.0 mg/Kg 01/17/23 13:29 01/26/23 21:34 Gasoline Range Organics (GRO)-C6-C10

Client: Ensolum

Project/Site: STATE FTG #001

Job ID: 890-3856-1

SDG: 03D2057046

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

Lab Sample ID: MB 880-44155/1-A

Lab Sample ID: LCS 880-44155/2-A

Lab Sample ID: LCSD 880-44155/3-A

Matrix: Solid

Analysis Batch: 44811

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 44155

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		01/17/23 13:29	01/26/23 21:34	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/17/23 13:29	01/26/23 21:34	1
I and the second se								

MB MB

MR MR

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130	01/17/23 13:29	01/26/23 21:34	1
o-Terphenyl	159	S1+	70 - 130	01/17/23 13:29	01/26/23 21:34	1

Client Sample ID: Lab Control Sample

70 - 130

Prep Type: Total/NA

Prep Batch: 44155

Analysis Batch: 44811 LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 970.6 97 70 - 130 mg/Kg (GRO)-C6-C10

1391 *+

mg/Kg

1000

Diesel Range Organics (Over C10-C28)

Matrix: Solid

Analysis Batch: 44811

Matrix: Solid

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	128		70 - 130
o-Terphenyl	141	S1+	70 - 130

Client Sample ID: Lab Control Sample Dup

139

Prep Type: Total/NA Prep Batch: 44155

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	1000	1059		mg/Kg		106	70 - 130	9	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	1429	*+	mg/Kg		143	70 - 130	3	20	
C10-C28)										

LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 119 70 - 130 o-Terphenyl 132 S1+ 70 - 130

Lab Sample ID: 890-3858-A-1-C MS

Matrix: Solid

Analysis Batch: 44811

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 44155

	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	958.4		mg/Kg		91	70 - 130
Diesel Range Organics (Over	<49.9	U *+	998	1101		mg/Kg		108	70 - 130

C10-C28)

	IVIS	IVIS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenyl	100		70 - 130

Lab Sample ID: 890-3858-A-1-D MSD

QC Sample Results

Client: Ensolum Job ID: 890-3856-1 Project/Site: STATE FTG #001 SDG: 03D2057046

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

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 44155

Sample Sample Spike MSD MSD		RPD	,
Analyte Result Qualifier Added Result Qualifier Unit D %Rec	Limits	RPD Limit	t
Gasoline Range Organics <49.9	70 - 130	3 20)
(GRO)-C6-C10			
Diesel Range Organics (Over <49.9 U *+ 997 1128 mg/Kg 111	70 - 130	2 20)

C10-C28)

Matrix: Solid

Analysis Batch: 44811

MSD MSD

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

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 44944

Lab Sample ID: MB 880-44944/1-A **Matrix: Solid**

Analysis Batch: 44886

	INID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		01/27/23 16:20	01/27/23 22:09	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		01/27/23 16:20	01/27/23 22:09	1
C10-C28)								
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/27/23 16:20	01/27/23 22:09	1

MB MB %Recovery Qualifier Limits Prepared Analyzed Dil Fac Surrogate 1-Chlorooctane 116 70 - 130 01/27/23 16:20 01/27/23 22:09 o-Terphenyl 117 70 - 130 01/27/23 16:20 01/27/23 22:09

Lab Sample ID: LCS 880-44944/2-A

Matrix: Solid

Analysis Batch: 44886

Client Sample II): I	Lab (Control	Sampl	е
		Dron	Tymes	Total/N	٨

Prep Type: Total/NA

Prep Batch: 44944

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	999	940.9		mg/Kg		94	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	999	929.8		mg/Kg		93	70 - 130	
C10-C28)								

LCS LCS

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	92	70 - 130
o-Terphenyl	94	70 - 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 44886

Lab Sample ID: LCSD 880-44944/3-A

Prep Type: Total/NA Prep Batch: 44944

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	999	747.1	*1	mg/Kg		75	70 - 130	23	20
(GRO)-C6-C10									
Diesel Range Organics (Over	999	864.6		mg/Kg		87	70 - 130	7	20
C10-C28)									

Job ID: 890-3856-1 Client: Ensolum Project/Site: STATE FTG #001

SDG: 03D2057046

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

LCSD LCSD

Lab Sample ID: LCSD 880-44944/3-A **Matrix: Solid**

Analysis Batch: 44886

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 44944

	2002	LOOD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	87		70 - 130
o-Terphenyl	89		70 - 130

Lab Sample ID: 880-24172-A-1-D MS

Lab Sample ID: 880-24172-A-1-E MSD

Matrix: Solid

Matrix: Solid

Analysis Batch: 44886

Analysis Batch: 44886

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 44944

	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	1000	856.2		mg/Kg		86	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	1020		mg/Kg		99	70 - 130
	MS	MS							

Surrogate %Recovery Qualifier Limits 75 70 - 130 1-Chlorooctane o-Terphenyl 64 S1-70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 44944

	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	<50.0	U *1	998	909.1		mg/Kg		91	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	1073		mg/Kg		105	70 - 130	5	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	79		70 - 130
o-Terphenyl	68	S1-	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-44197/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 44281

Allalysis Datcil. 44201								
	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			01/18/23 20:38	1

Client Sample ID: Lab Control Sample Lab Sample ID: LCS 880-44197/2-A **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 44281

Spike LCS LCS %Rec Analyte Added Result Qualifier Limits Chloride 250 253.9 mg/Kg 102 90 - 110

Job ID: 890-3856-1

Client: Ensolum Project/Site: STATE FTG #001 SDG: 03D2057046

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-44197/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 44281

Spike LCSD LCSD %Rec RPD Analyte babbA Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 254.4 mg/Kg 102 90 - 110

Lab Sample ID: 890-3856-3 MS Client Sample ID: FS03 **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 44281

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	128		252	402.2		ma/Ka		109	90 - 110	

Lab Sample ID: 890-3856-3 MSD **Client Sample ID: FS03 Matrix: Solid Prep Type: Soluble**

Analysis Batch: 44281

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	128		252	403.0		mg/Kg		109	90 - 110	0	20

Lab Sample ID: MB 880-44196/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 44283

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Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			01/19/23 00:03	1

Lab Sample ID: LCS 880-44196/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 44283

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chlorido	250	256.2		malka	_	102	00 110	

Lab Sample ID: LCSD 880-44196/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 44283

Spike LCSD LCSD %Rec RPD Added RPD Limit Analyte Result Qualifier Unit D %Rec Limits 250 Chloride 257.2 mg/Kg 103 90 - 110

Lab Sample ID: 890-3854-A-5-B MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 44283

	Sample Sample	Spike	MS I	MS				%Rec
Analyte	Result Qualifier	Added	Result (Qualifier	Unit	D	%Rec	Limits
Chloride	503 F1	248	704.7	F1	mg/Kg		81	90 - 110

Lab Sample ID: 890-3854-A-5-C MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 44283

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	503	F1	248	584.5	F1	mg/Kg		33	90 - 110	19	20

 Client: Ensolum
 Job ID: 890-3856-1

 Project/Site: STATE FTG #001
 SDG: 03D2057046

GC VOA

Prep Batch: 44389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3856-1	FS01	Total/NA	Solid	5035	
890-3856-2	FS02	Total/NA	Solid	5035	
890-3856-3	FS03	Total/NA	Solid	5035	
890-3856-4	FS04	Total/NA	Solid	5035	
890-3856-5	FS05	Total/NA	Solid	5035	
890-3856-6	FS06	Total/NA	Solid	5035	
890-3856-7	FS07	Total/NA	Solid	5035	
890-3856-8	FS08	Total/NA	Solid	5035	
890-3856-9	FS11	Total/NA	Solid	5035	
MB 880-44389/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-44389/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-44389/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3856-1 MS	FS01	Total/NA	Solid	5035	
890-3856-1 MSD	FS01	Total/NA	Solid	5035	

Prep Batch: 44394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-44394/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 44514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3856-1	FS01	Total/NA	Solid	8021B	44389
890-3856-2	FS02	Total/NA	Solid	8021B	44389
890-3856-3	FS03	Total/NA	Solid	8021B	44389
890-3856-4	FS04	Total/NA	Solid	8021B	44389
890-3856-5	FS05	Total/NA	Solid	8021B	44389
890-3856-6	FS06	Total/NA	Solid	8021B	44389
890-3856-7	FS07	Total/NA	Solid	8021B	44389
890-3856-8	FS08	Total/NA	Solid	8021B	44389
890-3856-9	FS11	Total/NA	Solid	8021B	44389
MB 880-44389/5-A	Method Blank	Total/NA	Solid	8021B	44389
MB 880-44394/5-A	Method Blank	Total/NA	Solid	8021B	44394
LCS 880-44389/1-A	Lab Control Sample	Total/NA	Solid	8021B	44389
LCSD 880-44389/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	44389
890-3856-1 MS	FS01	Total/NA	Solid	8021B	44389
890-3856-1 MSD	FS01	Total/NA	Solid	8021B	44389

Analysis Batch: 44641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3856-1	FS01	Total/NA	Solid	Total BTEX	
890-3856-2	FS02	Total/NA	Solid	Total BTEX	
890-3856-3	FS03	Total/NA	Solid	Total BTEX	
890-3856-4	FS04	Total/NA	Solid	Total BTEX	
890-3856-5	FS05	Total/NA	Solid	Total BTEX	
890-3856-6	FS06	Total/NA	Solid	Total BTEX	
890-3856-7	FS07	Total/NA	Solid	Total BTEX	
890-3856-8	FS08	Total/NA	Solid	Total BTEX	
890-3856-9	FS11	Total/NA	Solid	Total BTEX	

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Client: Ensolum

Project/Site: STATE FTG #001

Job ID: 890-3856-1 SDG: 03D2057046

GC Semi VOA

Prep Batch: 44155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3856-1	FS01	Total/NA	Solid	8015NM Prep	
890-3856-2	FS02	Total/NA	Solid	8015NM Prep	
890-3856-4	FS04	Total/NA	Solid	8015NM Prep	
890-3856-5	FS05	Total/NA	Solid	8015NM Prep	
890-3856-7	FS07	Total/NA	Solid	8015NM Prep	
MB 880-44155/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-44155/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-44155/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3858-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3858-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 44811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3856-1	FS01	Total/NA	Solid	8015B NM	44155
890-3856-2	FS02	Total/NA	Solid	8015B NM	44155
890-3856-4	FS04	Total/NA	Solid	8015B NM	44155
890-3856-5	FS05	Total/NA	Solid	8015B NM	44155
890-3856-7	FS07	Total/NA	Solid	8015B NM	44155
MB 880-44155/1-A	Method Blank	Total/NA	Solid	8015B NM	44155
LCS 880-44155/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	44155
LCSD 880-44155/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	44155
890-3858-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	44155
890-3858-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	44155

Analysis Batch: 44886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3856-3	FS03	Total/NA	Solid	8015B NM	44944
890-3856-6	FS06	Total/NA	Solid	8015B NM	44944
890-3856-8	FS08	Total/NA	Solid	8015B NM	44944
890-3856-9	FS11	Total/NA	Solid	8015B NM	44944
MB 880-44944/1-A	Method Blank	Total/NA	Solid	8015B NM	44944
LCS 880-44944/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	44944
LCSD 880-44944/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	44944
880-24172-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	44944
880-24172-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	44944

Analysis Batch: 44910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-3856-1	FS01	Total/NA	Solid	8015 NM	
890-3856-2	FS02	Total/NA	Solid	8015 NM	
890-3856-3	FS03	Total/NA	Solid	8015 NM	
890-3856-4	FS04	Total/NA	Solid	8015 NM	
890-3856-5	FS05	Total/NA	Solid	8015 NM	
890-3856-6	FS06	Total/NA	Solid	8015 NM	
890-3856-7	FS07	Total/NA	Solid	8015 NM	
890-3856-8	FS08	Total/NA	Solid	8015 NM	
890-3856-9	FS11	Total/NA	Solid	8015 NM	

Prep Batch: 44944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3856-3	FS03	Total/NA	Solid	8015NM Prep	

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Client: Ensolum Job ID: 890-3856-1 Project/Site: STATE FTG #001 SDG: 03D2057046

GC Semi VOA (Continued)

Prep Batch: 44944 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3856-6	FS06	Total/NA	Solid	8015NM Prep	
890-3856-8	FS08	Total/NA	Solid	8015NM Prep	
890-3856-9	FS11	Total/NA	Solid	8015NM Prep	
MB 880-44944/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-44944/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-44944/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-24172-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-24172-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 44196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3856-1	FS01	Soluble	Solid	DI Leach	
890-3856-2	FS02	Soluble	Solid	DI Leach	
MB 880-44196/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-44196/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-44196/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3854-A-5-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-3854-A-5-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 44197

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-3856-3	FS03	Soluble	Solid	DI Leach	
890-3856-4	FS04	Soluble	Solid	DI Leach	
890-3856-5	FS05	Soluble	Solid	DI Leach	
890-3856-6	FS06	Soluble	Solid	DI Leach	
890-3856-7	FS07	Soluble	Solid	DI Leach	
890-3856-8	FS08	Soluble	Solid	DI Leach	
890-3856-9	FS11	Soluble	Solid	DI Leach	
MB 880-44197/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-44197/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-44197/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3856-3 MS	FS03	Soluble	Solid	DI Leach	
890-3856-3 MSD	FS03	Soluble	Solid	DI Leach	

Analysis Batch: 44281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3856-3	FS03	Soluble	Solid	300.0	44197
890-3856-4	FS04	Soluble	Solid	300.0	44197
890-3856-5	FS05	Soluble	Solid	300.0	44197
890-3856-6	FS06	Soluble	Solid	300.0	44197
890-3856-7	FS07	Soluble	Solid	300.0	44197
890-3856-8	FS08	Soluble	Solid	300.0	44197
890-3856-9	FS11	Soluble	Solid	300.0	44197
MB 880-44197/1-A	Method Blank	Soluble	Solid	300.0	44197
LCS 880-44197/2-A	Lab Control Sample	Soluble	Solid	300.0	44197
LCSD 880-44197/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	44197
890-3856-3 MS	FS03	Soluble	Solid	300.0	44197
890-3856-3 MSD	FS03	Soluble	Solid	300.0	44197

 Client: Ensolum
 Job ID: 890-3856-1

 Project/Site: STATE FTG #001
 SDG: 03D2057046

HPLC/IC

Analysis Batch: 44283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3856-1	FS01	Soluble	Solid	300.0	44196
890-3856-2	FS02	Soluble	Solid	300.0	44196
MB 880-44196/1-A	Method Blank	Soluble	Solid	300.0	44196
LCS 880-44196/2-A	Lab Control Sample	Soluble	Solid	300.0	44196
LCSD 880-44196/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	44196
890-3854-A-5-B MS	Matrix Spike	Soluble	Solid	300.0	44196
890-3854-A-5-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	44196

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Job ID: 890-3856-1

Client: Ensolum Project/Site: STATE FTG #001 SDG: 03D2057046

Client Sample ID: FS01 Lab Sample ID: 890-3856-1

Matrix: Solid

Date Collected: 01/12/23 00:00 Date Received: 01/13/23 14:13

	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	44389	01/19/23 16:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44514	01/24/23 02:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44641	01/24/23 13:50	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44910	01/27/23 11:58	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	44155	01/17/23 13:29	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44811	01/27/23 03:16	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	44196	01/17/23 16:42	KS	EET MIC
Soluble	Analysis	300.0		5			44283	01/19/23 02:53	CH	EET MID

Client Sample ID: FS02 Lab Sample ID: 890-3856-2

Date Collected: 01/12/23 00:00 **Matrix: Solid**

Date Received: 01/13/23 14:13

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 Total/NA 5.02 g 5 mL 44389 01/19/23 16:20 MNR EET MID Total/NA 8021B 5 mL 01/24/23 02:48 MNR **EET MID** Analysis 1 5 mL 44514 Total/NA Total BTEX 01/24/23 13:50 Analysis 1 44641 A.I **EET MID** Total/NA Analysis 8015 NM 44910 01/27/23 11:58 **EET MID** Total/NA 44155 01/17/23 13:29 Prep 8015NM Prep 10.00 g 10 mL DM EET MID Total/NA Analysis 8015B NM 1 uL 1 uL 44811 01/27/23 03:38 ΑJ **EET MID** Soluble 5.02 g 01/17/23 16:42 KS Leach DI Leach 50 mL 44196 EET MID Soluble Analysis 300.0 1 44283 01/19/23 02:59 СН **EET MID**

Lab Sample ID: 890-3856-3 **Client Sample ID: FS03** Date Collected: 01/12/23 00:00 **Matrix: Solid**

Date Received: 01/13/23 14:13

	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	44389	01/19/23 16:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44514	01/24/23 03:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44641	01/24/23 13:50	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44910	01/30/23 10:15	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	44944	01/17/23 16:20	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44886	01/28/23 04:47	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	44197	01/17/23 16:43	KS	EET MID
Soluble	Analysis	300.0		1			44281	01/18/23 20:56	CH	EET MID

Client Sample ID: FS04 Lab Sample ID: 890-3856-4

Date Collected: 01/12/23 00:00 Date Received: 01/13/23 14:13

Γ	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	44389	01/19/23 16:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44514	01/24/23 03:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44641	01/24/23 13:50	AJ	EET MID

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Matrix: Solid

Lab Chronicle

Client: Ensolum Job ID: 890-3856-1 Project/Site: STATE FTG #001 SDG: 03D2057046

Client Sample ID: FS04

Date Received: 01/13/23 14:13

Lab Sample ID: 890-3856-4 Date Collected: 01/12/23 00:00

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			44910	01/27/23 11:58	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	44155	01/17/23 13:29	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44811	01/27/23 04:20	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	44197	01/17/23 16:43	KS	EET MID
Soluble	Analysis	300.0		1			44281	01/18/23 21:13	CH	EET MID

Client Sample ID: FS05 Lab Sample ID: 890-3856-5

Date Collected: 01/12/23 00:00 **Matrix: Solid**

Date Received: 01/13/23 14:13

	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	44389	01/19/23 16:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44514	01/24/23 04:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44641	01/24/23 13:50	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44910	01/27/23 11:58	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	44155	01/17/23 13:29	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44811	01/27/23 04:42	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	44197	01/17/23 16:43	KS	EET MID
Soluble	Analysis	300.0		1			44281	01/18/23 21:19	CH	EET MID

Client Sample ID: FS06 Lab Sample ID: 890-3856-6 Date Collected: 01/12/23 00:00 **Matrix: Solid**

Date Received: 01/13/23 14:13

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	44389	01/19/23 16:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44514	01/24/23 04:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44641	01/24/23 13:50	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44910	01/30/23 10:15	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	44944	01/17/23 16:20	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44886	01/28/23 05:08	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	44197	01/17/23 16:43	KS	EET MID
Soluble	Analysis	300.0		1			44281	01/18/23 21:25	CH	EET MID

Lab Sample ID: 890-3856-7 **Client Sample ID: FS07**

Date Collected: 01/12/23 00:00 Date Received: 01/13/23 14:13

_	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	44389	01/19/23 16:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44514	01/24/23 05:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44641	01/24/23 13:50	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44910	01/27/23 11:58	AJ	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.02 g 1 uL	10 mL 1 uL	44155 44811	01/17/23 13:29 01/27/23 05:25	DM AJ	EET MID EET MID

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Matrix: Solid

Client: Ensolum Job ID: 890-3856-1 Project/Site: STATE FTG #001 SDG: 03D2057046

Client Sample ID: FS07 Lab Sample ID: 890-3856-7

Date Collected: 01/12/23 00:00 Matrix: Solid Date Received: 01/13/23 14:13

Batch Batch Dil Initial Final Batch Prepared Method Prep Type Туре Run Factor Amount Amount Number or Analyzed Analyst Lab Soluble DI Leach 44197 KS Leach 5.01 g 50 mL 01/17/23 16:43 EET MID 300.0 01/18/23 21:31 Soluble Analysis 1 44281 СН **EET MID**

Client Sample ID: FS08 Lab Sample ID: 890-3856-8

Date Collected: 01/12/23 00:00 **Matrix: Solid**

Date Received: 01/13/23 14:13

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	44389	01/19/23 16:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44514	01/24/23 05:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44641	01/24/23 13:50	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44910	01/30/23 10:15	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	44944	01/17/23 16:20	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44886	01/28/23 05:29	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	44197	01/17/23 16:43	KS	EET MID
Soluble	Analysis	300.0		1			44281	01/18/23 21:48	CH	EET MID

Client Sample ID: FS11 Lab Sample ID: 890-3856-9

Date Collected: 01/12/23 00:00 **Matrix: Solid** Date Received: 01/13/23 14:13

	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	44389	01/19/23 16:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44514	01/24/23 05:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44641	01/24/23 13:50	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44910	01/30/23 10:15	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	44944	01/17/23 16:20	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44886	01/28/23 05:49	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	44197	01/17/23 16:43	KS	EET MID
Soluble	Analysis	300.0		1			44281	01/18/23 21:54	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: 890-3856-1 Project/Site: STATE FTG #001

SDG: 03D2057046

Laboratory: Eurofins Midland

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

Authority Texas		ogram	Identification Number	Expiration Date
		ELAP	T104704400-22-25	06-30-23
The following analytes	are included in this report, but	t the laboratory is not certif	ied by the governing authority. This list ma	av include analytes for
the agency does not of		it the raporatory to flot cortain	lod by the governing authority. This list me	ay include analytes for
the agency does not off Analysis Method		Matrix	Analyte	ay illoude allaiytes for
0 ,	fer certification.	•	, , ,	ay include analytes for

Method Summary

Client: Ensolum

Project/Site: STATE FTG #001

Job ID: 890-3856-1 SDG: 03D2057046

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

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Carlsbad

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Client Sample ID

FS01

FS02

FS03

FS04

FS05

FS06

FS07

FS08

FS11

Sample Summary

Collected

01/12/23 00:00

01/12/23 00:00

01/12/23 00:00

01/12/23 00:00

01/12/23 00:00

01/12/23 00:00

01/12/23 00:00

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Received

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01/13/23 14:13

01/13/23 14:13

Depth

1.5

1.5

0.25

0.25

0.5

0.5

1

1

Matrix

Solid

Solid

Solid

Solid

Solid

Solid

Solid

Solid

Solid

Client: Ensolum

Lab Sample ID

890-3856-1

890-3856-2

890-3856-3

890-3856-4

890-3856-5

890-3856-6

890-3856-7

890-3856-8

890-3856-9

Project/Site: STATE FTG #001

Job ID: 890-3856-1

SDG: 03D2057046

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Received by OCD: 8/10/2023 8:27:35 AM

Revised Date: 08/25/2020 Rev. 2020.2

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eurofins

Environment Testing Xenco

Chain of Custody

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

	_													_				www	v.xenc	o.com	Page	f of	
Project Manager:	Kale:		98		Bill to: (if	different)	1	La	int.	Me	nsolv	u co	M		Work Order Comments								
Company Name:	Ensolum		•		Company	y Name:				1					Program: UST/PST PRP Brownfields RRC Superfund								
Address:	3122 N	ational	Parks	Hw./	Address:										State of Project:								
City, State ZIP:	Carlsburg		1 882	20'	City, State	e ZIP:									Reporting: Level II Level III PST/UST TRRP Level IV								
Phone:	81768		03	Email:	KIM	nings	0.150	nun	. 60	1					Deliv	erables	: E	DD 🗌		ADal	PT 🗆 O	her:	
	State									IEST						Proces	vativa Codes						
Project Name:	State 03D2	2570	11	Routine	Irm Around ANALYSIS REQUE						31	Т	Τ	None: NO	Preservative Codes one: NO DI Water: H ₂ C								
Project Number:		. IAM	76	-		Co	le	-	+	-			+		+-	+	+	+		+	1	•	
Project Location:					5 day					i											Cool: Cool	MeOH: Me HNO 3: HN	
Sampler's Name:	J. Oak	10			ne day received by eceived by 4:30pm							100		1117 16 11	AND MARKET MINE OF THE BOOK AND THE						H ₂ SO ₄ : H ₂	NaOH: Na	
PO #:	1	Temp Blank: (es) No Wet Ice:			1										ARNI MIRKAR MIRKI IRINK ARNIK KUN MARI							NaOH. Na	
SAMPLE RECEIPT					Yes	No 8		NI		330	1	1/11/10									H ₃ PO ₄ : HP	N DIC	
Samples Received Int	Yes No (VA Correction Factor:				Than	107	Parameters 8021				THE THE PERSON NAMED IN TH					11 111. 11			NaHSO 4: NABIS Na ₂ S ₂ O ₃ : NaSO ₃				
Cooler Custody Seals					1-0	5		890-3856 Chai				hain	of Cus	tody			Zn Acetate+NaOH: Zn						
Sample Custody Seal	s: Yes N	o N/A			1	7	13	\times		0.	Ì	T	1	ı	1	ı		ı	1			rbic Acid: SAPC	
Total Containers:				emperature:	1 ,	C-14		り	FG-	2											11401111500		
Sample Iden	tification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ # (F	Chlor											Samp	e Comments	
FSOI		S	1/12/23		1.5	CI)	X i	*	X					ļ	ļ			1				
F502			Í		1		1			1			1		-	_	_		-				
F503)				1.5					\Box					<u> </u>		-						
FSOU					0.25					1													
F505					0.25					1													
FSOU					0.5					\perp													
F507					1)													
F508					0.5	1				1								1					
6511		5	1/12/23		1.5	C		X	×	X													
-			NEF				T		\top														
Total 200.7 / 60	10 200.9	/ 6020:	R	RCRA 13DI	PM Teva	s 11 Al G	h A	s Ba	Re R	Cd	Ca Cr	Co Cu	Fe Ph	Ма	Mn N	10 Ni	K Se	Ag	SiO ₂ I	Na Sr	Tl Sn U V	Zn	
Circle Method(s)						: 8RCRA															/7470 /74		
Notice: Signature of this do of service. Eurofins Xenco v of Eurofins Xenco. A minim	will be liable only for t	he cost of san	nples and shall not	assume any response	onsibility for an	ny losses or exp	enses in	ncurred l	by the c	dient If su	uch losses a	are due to ci	rcumstance	es beyo	nd the co	ontrol	ted.						
	quished by: (Signature) Received by: (Signature)					Date/Time Relinquished by: (Signate												e)	Date/Time				
In hil	All Quardal			lot	- 11	112/23 1715 2																	
3					0		-12	2 ~ 7	2	1118	7												

1089 N Canal St.

Carlsbad, NM 88220

Eurofins Carlsbad

Chain of Custody Record



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Environment Testing

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Released to Imaging: 11/14/2023 10:29:55 AM

Phone. 575-988-3199 Fax: 575-988-3199												55	<u> </u>	!						211011 0111	none re.	36116
Client Information (Sub Contract Lab)	Sampler [.]				mer, Je	essic	а						rrier Tr		No(s)			COC No: 890-1102 1				
Client Contact. Shipping/Receiving	Phone:			E-M Jes	sica Kı						n	State of Origin New Mexico					Page 1 of 1					
Company Eurofins Environment Testing South Centr					Accreditations Required (See note) NELAP - Texas										Job# 890-3856-1							
Address 1211 W Flonda Ave , City Midland	Due Date Request 1/19/2023 TAT Requested (d.				Analysis Req								este	d	Π		1	Preservation A HCL B NaOH		M Hexane N None		
State, Zip TX, 79701 Phone 432-704-5440(Tel) Email	PO# WO#				or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH		Chloride	EX									C Zn Acetate D Nitric Acid E NaHSO4 F MeOH G Armchlor H Ascorbic Acid I Ice J DI Water	cid	O AsNaO P Na2O4 Q Na2SO R Na2S20 S H2SO4 T TSP Do U Acetonic V MCAA	S 3 O3 odecahydr e	rate
Project Name ⁻ STATE FTG #001 Site:	Project #: 89000102 SSOW#	89000102				5NM S Pre		DI_LEACH	Ic (MOD) BT								container	K EDTA L EDA Other		W pH 4-5 Y Trizma Z other (s		
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Watrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered S. Perform NS/MS	8015MOD_NM/80	8015MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc (MOD) BTEX	Total_BTEX_GCV							Total Number of		al ins	structions	s/Note	
		><	Preserva	ation Code	XX		Anna															Actom 1
FS01 (890-3856-1)	1/12/23	Mountain		Solid		Х	х	х	х	х							4					
FS02 (890-3856-2)	1/12/23	Mountain	:	Solid	Ш	Х	х	Х	х	х							3					
FS03 (890-3856-3)	1/12/23	Mountain		Solid	Ш	X	x	х	х	х							1					
FS04 (890-3856-4)	1/12/23	Mountain		Solid		Х	х	х	Х	Х							1				**	
FS05 (890-3856-5)	1/12/23	Mountain		Solid		Х	х	Х	х	Х							4					
FS06 (890-3856-6)	1/12/23	Mountain		Solid		X	х	х	Х	х							1					
FS07 (890-3856-7)	1/12/23	Mountain		Solid	\coprod	Х	Х	Х	х	х							1					
FS08 (890-3856-8)	1/12/23	Mountain		Solid		X	X	х	х	х							1					
FS11 (890-3856-9)	1/12/23	Mountain		Solid		X	Х	х	х	Х							1					
Notes Officially and the second of the secon																						

Note: Since laboratory accreditations are subject to change Eurofins Environment Testing South Central LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central. LLC

Possible Hazard Identification Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
Unconfirmed			Return To Client	Disposal By Lab Archive For	
Deliverable Requested I, II III IV Other (specify)	Primary Deliverable Rank 2		Special Instructions/QC Require		
Empty Kit Relinquished by	Date		Time 🖊	Method of Shipment	
Relinquished by	Date/Time:	Company	Received by	Date/Time·	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Custody Seals Intact. Custody Seal No Δ Yes Δ No			Cooler Temperature(s) °C and Oth	er Remarks.	

Login Sample Receipt Checklist

 Client: Ensolum
 Job Number: 890-3856-1

 SDG Number: 03D2057046

Login Number: 3856 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

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

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Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-3856-1 SDG Number: 03D2057046

List Source: Eurofins Midland

List Creation: 01/17/23 11:09 AM

List Number: 2 Creator: Teel, Brianna

Login Number: 3856

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

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Released to Imaging: 11/14/2023 10:29:55 AM

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kalei Jennings Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701

Generated 2/5/2023 9:35:06 AM

JOB DESCRIPTION

State FTG #001 SDG NUMBER 03D2057046

JOB NUMBER

890-3946-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

Authorization

Generated 2/5/2023 9:35:06 AM

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

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies Page 2 of 22

Client: Ensolum
Project/Site: State FTG #001
Laboratory Job ID: 890-3946-1
SDG: 03D2057046

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Definitions/Glossary

Client: Ensolum Job ID: 890-3946-1 SDG: 03D2057046 Project/Site: State FTG #001

Qualifiers

GC	VOA
Qua	lifier

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

Qualifier Description

GC Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

DLC

EDL

LOD

LOQ

MCL

MDA

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

MDC Minimum Detectable Concentration (Radiochemistry) MDL Method Detection Limit ML Minimum Level (Dioxin) MPN Most Probable Number

MQL Method Quantitation Limit

NC Not Calculated

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

Decision Level Concentration (Radiochemistry)

EPA recommended "Maximum Contaminant Level"

Minimum Detectable Activity (Radiochemistry)

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)

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: State FTG #001

Job ID: 890-3946-1

SDG: 03D2057046

Job ID: 890-3946-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3946-1

Receipt

The samples were received on 1/24/2023 8:44 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: FS10 (890-3946-1), FS11 (890-3946-2) and FS12 (890-3946-3).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-45339 and analytical batch 880-45309 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (890-3944-A-1-G). 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 matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-45337 and analytical batch 880-45443 was 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.

Matrix: Solid

Lab Sample ID: 890-3946-1

Client Sample Results

Client: Ensolum Job ID: 890-3946-1 Project/Site: State FTG #001 SDG: 03D2057046

Client Sample ID: FS10

Date Collected: 01/23/23 13:30 Date Received: 01/24/23 08:44

Sample Depth: 1'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/03/23 09:50	02/03/23 15:50	1
Toluene	< 0.00199	U	0.00199	mg/Kg		02/03/23 09:50	02/03/23 15:50	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		02/03/23 09:50	02/03/23 15:50	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		02/03/23 09:50	02/03/23 15:50	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		02/03/23 09:50	02/03/23 15:50	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/03/23 09:50	02/03/23 15:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130			02/03/23 09:50	02/03/23 15:50	1
1,4-Difluorobenzene (Surr)	97		70 - 130			02/03/23 09:50	02/03/23 15:50	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/04/23 10:12	1
Method: SW846 8015 NM - Diese			•	llnit	n	Dropored	Anglyzod	Dil Ess
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
			•	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 02/05/23 09:31	
Analyte Total TPH	Result 107	Qualifier nics (DRO)	49.9		<u>D</u>	Prepared		1
Analyte Total TPH Method: SW846 8015B NM - Dies	Result 107 sel Range Orga	Qualifier nics (DRO) Qualifier	49.9		D	Prepared Prepared		1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result 107	Qualifier nics (DRO) Qualifier	RL 49.9	mg/Kg	<u> </u>	<u> </u>	02/05/23 09:31	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 107 sel Range Orga	Qualifier nics (DRO) Qualifier	RL 49.9 (GC)	mg/Kg	<u> </u>	Prepared	02/05/23 09:31 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	Result 107 sel Range Orga Result <49.9	Qualifier nics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9	mg/Kg Unit mg/Kg	<u> </u>	Prepared 02/03/23 09:23	02/05/23 09:31 Analyzed 02/04/23 18:48	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result 107 sel Range Orga Result <49.9	Qualifier nics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg	<u> </u>	Prepared 02/03/23 09:23 02/03/23 09:23	02/05/23 09:31 Analyzed 02/04/23 18:48 02/04/23 18:48	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result 107 sel Range Orga Result < 49.9 107 49.9	Qualifier nics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg	<u> </u>	Prepared 02/03/23 09:23 02/03/23 09:23 02/03/23 09:23	02/05/23 09:31 Analyzed 02/04/23 18:48 02/04/23 18:48	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result 107	Qualifier nics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits	mg/Kg Unit mg/Kg mg/Kg	<u> </u>	Prepared 02/03/23 09:23 02/03/23 09:23 02/03/23 09:23 Prepared	Analyzed 02/04/23 18:48 02/04/23 18:48 02/04/23 18:48 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result 107	Qualifier nics (DRO) Qualifier U Qualifier	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg	<u> </u>	Prepared 02/03/23 09:23 02/03/23 09:23 02/03/23 09:23 Prepared 02/03/23 09:23	02/05/23 09:31 Analyzed 02/04/23 18:48 02/04/23 18:48 Analyzed 02/04/23 18:48	1 Dil Fac 1 1 1 Dil Fac 2 1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result 107	Qualifier nics (DRO) Qualifier U Qualifier	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg	<u> </u>	Prepared 02/03/23 09:23 02/03/23 09:23 02/03/23 09:23 Prepared 02/03/23 09:23	02/05/23 09:31 Analyzed 02/04/23 18:48 02/04/23 18:48 Analyzed 02/04/23 18:48	·

Client Sample ID: FS11 Lab Sample ID: 890-3946-2 Date Collected: 01/23/23 13:35

Date Received: 01/24/23 08:44

Sample Depth: 1'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/03/23 09:50	02/03/23 17:12	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/03/23 09:50	02/03/23 17:12	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/03/23 09:50	02/03/23 17:12	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		02/03/23 09:50	02/03/23 17:12	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/03/23 09:50	02/03/23 17:12	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/03/23 09:50	02/03/23 17:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130			02/03/23 09:50	02/03/23 17:12	1

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Matrix: Solid

Job ID: 890-3946-1

Client: Ensolum Project/Site: State FTG #001 SDG: 03D2057046

Client Sample ID: FS11 Lab Sample ID: 890-3946-2

Date Collected: 01/23/23 13:35 Matrix: Solid Date Received: 01/24/23 08:44

Sample Depth: 1'

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	97	70 - 130	02/03/23 09:50	02/03/23 17:12	1

Method: TAL SOP Total BTEX - Total BTE	X Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTFX	<0.00398	U	0.00398	ma/Ka			02/04/23 10:12	1

ı								
ı	Mothod:	SW846	2015 N	M - Dia	cal Ranc	na Organi	cs (DRO) (GC	٠.

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	491		49.9	mg/Kg			02/05/23 09:31	1

Method: SW846 8015B	NM - Diesel Range	Organics (DRO) (G	C)
Michiga. Offoto ou lob	THIN - Dicaci Italige	organics (bito) (c	, – ,

Result C	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
<49.9 U	J	49.9	mg/Kg		02/03/23 09:23	02/04/23 19:10	1
491		49.9	mg/Kg		02/03/23 09:23	02/04/23 19:10	1
<49.9 L	J	49.9	mg/Kg		02/03/23 09:23	02/04/23 19:10	1
	<49.9 (Result Qualifier	<49.9 U 49.9 491 49.9	<49.9 U 49.9 mg/Kg 49.1 49.9 mg/Kg	49.9 U 49.9 mg/Kg 491 49.9 mg/Kg	<49.9	<49.9 U

Surrogate	%Recovery	Qualifier	Limits	Prep	ared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130	02/03/2	3 09:23	02/04/23 19:10	1
o-Terphenyl	80		70 - 130	02/03/2	3 09:23	02/04/23 19:10	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	59.9		4.95	mg/Kg			01/30/23 11:01	1

Client Sample ID: FS12 Lab Sample ID: 890-3946-3 **Matrix: Solid**

Date Collected: 01/23/23 13:40 Date Received: 01/24/23 08:44

Sample Depth: 1'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/03/23 09:50	02/03/23 17:33	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/03/23 09:50	02/03/23 17:33	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/03/23 09:50	02/03/23 17:33	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		02/03/23 09:50	02/03/23 17:33	1
o-Xylene	0.00321		0.00200	mg/Kg		02/03/23 09:50	02/03/23 17:33	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		02/03/23 09:50	02/03/23 17:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130			02/03/23 09:50	02/03/23 17:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzea	DII Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	02/03/23 09:50	02/03/23 17:33	1
1,4-Difluorobenzene (Surr)	83		70 - 130	02/03/23 09:50	02/03/23 17:33	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00401	U	0.00401	mg/Kg			02/04/23 10:12	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	358		50.0	mg/Kg			02/05/23 09:31	1

Client Sample Results

Client: Ensolum Job ID: 890-3946-1 Project/Site: State FTG #001 SDG: 03D2057046

Client Sample ID: FS12

Date Received: 01/24/23 08:44

Sample Depth: 1'

Lab Sample ID: 890-3946-3 Date Collected: 01/23/23 13:40 Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) Result Qualifier Analyte RL Unit D Prepared Analyzed Dil Fac <50.0 U 02/03/23 09:23 50.0 02/04/23 19:31 Gasoline Range Organics mg/Kg (GRO)-C6-C10 **Diesel Range Organics (Over** 50.0 02/03/23 09:23 02/04/23 19:31 mg/Kg 358 C10-C28) mg/Kg 02/03/23 09:23 OII Range Organics (Over C28-C36) <50.0 U 50.0 02/04/23 19:31 %Recovery Dil Fac Qualifier Limits Prepared Analyzed Surrogate 1-Chlorooctane 85 70 - 130 02/03/23 09:23 02/04/23 19:31 o-Terphenyl 81 70 - 130 02/03/23 09:23 02/04/23 19:31 Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Prepared Analyte Result Qualifier RL Unit D Analyzed Dil Fac 5.05 01/30/23 11:20 Chloride 60.9 mg/Kg

Surrogate Summary

 Client: Ensolum
 Job ID: 890-3946-1

 Project/Site: State FTG #001
 SDG: 03D2057046

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-3944-A-1-E MS	Matrix Spike	64 S1-	88	
890-3944-A-1-F MSD	Matrix Spike Duplicate	119	100	
890-3946-1	FS10	90	97	
890-3946-2	FS11	92	97	
890-3946-3	FS12	87	83	
LCS 880-45339/1-A	Lab Control Sample	98	95	
LCSD 880-45339/2-A	Lab Control Sample Dup	104	95	
MB 880-45339/5-A	Method Blank	75	93	

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	
b Sample ID	Client Sample ID	(70-130)	(70-130)	
0-3923-A-3-E MS	Matrix Spike	107	86	
0-3923-A-3-F MSD	Matrix Spike Duplicate	123	98	
0-3946-1	FS10	96	90	
0-3946-2	FS11	82	80	
0-3946-3	FS12	85	81	
CS 880-45337/2-A	Lab Control Sample	107	92	
CSD 880-45337/3-A	Lab Control Sample Dup	125	107	
B 880-45337/1-A	Method Blank	112	110	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-3946-1 Project/Site: State FTG #001 SDG: 03D2057046

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-45339/5-A

Lab Sample ID: LCS 880-45339/1-A

Matrix: Solid

Analysis Batch: 45309

Matrix: Solid Analysis Batch: 45309 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 45339

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/03/23 09:50	02/03/23 12:24	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/03/23 09:50	02/03/23 12:24	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/03/23 09:50	02/03/23 12:24	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/03/23 09:50	02/03/23 12:24	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/03/23 09:50	02/03/23 12:24	1
Xylenes, Total	< 0.00400	U	0.00400	mg/Kg		02/03/23 09:50	02/03/23 12:24	1

MB MB

Surrogate	%Recovery G	Qualifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75	70 - 130	02/03/23 09:50	02/03/23 12:24	1
1,4-Difluorobenzene (Surr)	93	70 - 130	02/03/23 09:50	02/03/23 12:24	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 45339

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1035 mg/Kg 103 70 - 130 Toluene 0.100 0.09635 mg/Kg 96 70 - 130 0.100 0.09708 Ethylbenzene mg/Kg 97 70 - 130 0.200 0.2017 101 70 - 130 m-Xylene & p-Xylene mg/Kg 0.100 0.1095 70 - 130 o-Xylene mg/Kg 109

LCS LCS

Surrogate	%Recovery Qualifie	er Limits
4-Bromofluorobenzene (Surr)	98	70 - 130
1,4-Difluorobenzene (Surr)	95	70 - 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 45309

Lab Sample ID: LCSD 880-45339/2-A

Prep Type: Total/NA Prep Batch: 45339

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1043		mg/Kg		104	70 - 130	1	35	
Toluene	0.100	0.09819		mg/Kg		98	70 - 130	2	35	
Ethylbenzene	0.100	0.09855		mg/Kg		99	70 - 130	2	35	
m-Xylene & p-Xylene	0.200	0.2080		mg/Kg		104	70 - 130	3	35	
o-Xylene	0.100	0.1070		mg/Kg		107	70 - 130	2	35	

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1.4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 890-3944-A-1-E MS

Matrix: Solid

Analysis Batch: 45309

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

Prep Batch: 45339

-	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.0996	0.06961		mg/Kg		70	70 - 130	
Toluene	<0.00200	U	0.0996	0.08014		mg/Kg		80	70 - 130	

QC Sample Results

 Client: Ensolum
 Job ID: 890-3946-1

 Project/Site: State FTG #001
 SDG: 03D2057046

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

Lab Sample ID: 890-3944-A-1-E MS

Matrix: Solid

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

Analysis Batch: 45309 Prep Batch: 45339

	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Ethylbenzene	<0.00200	U	0.0996	0.07706		mg/Kg		77	70 - 130
m-Xylene & p-Xylene	<0.00399	U F1 F2	0.199	0.1174	F1	mg/Kg		59	70 - 130
o-Xylene	< 0.00200	U F1 F2	0.0996	0.05641	F1	mg/Kg		56	70 - 130

 Surrogate
 %Recovery
 Qualifier
 Limits

 4-Bromofluorobenzene (Surr)
 64
 S1 70 - 130

 1,4-Difluorobenzene (Surr)
 88
 70 - 130

Lab Sample ID: 890-3944-A-1-F MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Prep Type: Total/NA
Analysis Batch: 45309 Prep Batch: 45339

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.100	0.09353		mg/Kg		93	70 - 130	29	35
Toluene	<0.00200	U	0.100	0.09465		mg/Kg		94	70 - 130	17	35
Ethylbenzene	<0.00200	U	0.100	0.1052		mg/Kg		105	70 - 130	31	35
m-Xylene & p-Xylene	<0.00399	U F1 F2	0.200	0.2304	F2	mg/Kg		115	70 - 130	65	35
o-Xylene	<0.00200	U F1 F2	0.100	0.1150	F2	mg/Kg		114	70 - 130	68	35

 Surrogate
 %Recovery
 Qualifier
 Limits

 4-Bromofluorobenzene (Surr)
 119
 70 - 130

 1,4-Difluorobenzene (Surr)
 100
 70 - 130

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

Lab Sample ID: MB 880-45337/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 45443

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/03/23 09:23	02/04/23 08:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/03/23 09:23	02/04/23 08:56	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/03/23 09:23	02/04/23 08:56	1

MB MB Dil Fac %Recovery Qualifier Limits Prepared Analyzed Surrogate 70 - 130 02/03/23 09:23 1-Chlorooctane 112 02/04/23 08:56 02/03/23 09:23 o-Terphenyl 110 70 - 130 02/04/23 08:56

Lab Sample ID: LCS 880-45337/2-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 45443 Prep Batch: 45337

	Spike	LCS	LCS				%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics	999	903.4		mg/Kg		90	70 - 130		•
(GRO)-C6-C10									
Diesel Range Organics (Over	999	878.2		mg/Kg		88	70 - 130		
C10-C28)									

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Prep Batch: 45337

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Job ID: 890-3946-1

Client: Ensolum Project/Site: State FTG #001 SDG: 03D2057046

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

LCS LCS

Lab Sample ID: LCS 880-45337/2-A

Lab Sample ID: LCSD 880-45337/3-A

Matrix: Solid

Analysis Batch: 45443

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 45337

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 107 70 - 130 o-Terphenyl 92 70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Batch: 45337

Matrix: Solid Prep Type: Total/NA Analysis Batch: 45443

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 999 910.9 91 70 - 13020 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 999 1007 101 mg/Kg 70 - 13020 14 C10-C28)

LCSD LCSD

Surrogate %Recovery Qualifier Limits 125 70 - 130 1-Chlorooctane 107 70 - 130 o-Terphenyl

Lab Sample ID: 890-3923-A-3-E MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 45443

Diesel Range Organics (Over

Prep Type: Total/NA

70 - 130

Prep Batch: 45337

Sample Sample Spike MS MS Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics <50.0 U F2 1000 862.5 mg/Kg 84 70 - 130 (GRO)-C6-C10

883.8

MSD MSD

mg/Kg

1000

Spike

C10-C28)

MS MS

Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 107 o-Terphenyl 86 70 - 130

Lab Sample ID: 890-3923-A-3-F MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 45443

Prep Type: Total/NA

87

Prep Batch: 45337

RPD %Rec

		p							,			
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	<50.0	U F2	998	1297	F2	mg/Kg		127	70 - 130	40	20	
(GRO)-C6-C10												
Diesel Range Organics (Over	<50.0	U	998	1003		mg/Kg		99	70 - 130	13	20	

C10-C28)

MSD MSD

Sample Sample

<50.0 U

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	123		70 - 130
o-Terphenyl	98		70 - 130

Job ID: 890-3946-1

Client: Ensolum Project/Site: State FTG #001

SDG: 03D2057046

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-44970/1-A

Matrix: Solid

Analysis Batch: 45040

Client Sample ID: Method Blank

Prep Type: Soluble

Client Sample ID: FS11

Prep Type: Soluble

Dil Fac Analyte Result Qualifier RL Unit D Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 01/30/23 09:16

Lab Sample ID: LCS 880-44970/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 45040

Spike LCS LCS %Rec Added Qualifier %Rec Analyte Result Unit D Limits Chloride 250 253.2 mg/Kg 101 90 - 110

MB MB

Lab Sample ID: LCSD 880-44970/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 45040

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 250 253.6 90 - 110 mg/Kg 101

Lab Sample ID: 890-3946-2 MS Client Sample ID: FS11 **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 45040

MS MS %Rec Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 59.9 248 291.0 93 90 - 110 mg/Kg

Lab Sample ID: 890-3946-2 MSD

Matrix: Solid

Analysis Batch: 45040

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 248 59.9 291.2 mg/Kg 93 90 - 110 0 20

Client: Ensolum Job ID: 890-3946-1 Project/Site: State FTG #001 SDG: 03D2057046

GC VOA

Analysis Batch: 45309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3946-1	FS10	Total/NA	Solid	8021B	45339
890-3946-2	FS11	Total/NA	Solid	8021B	45339
890-3946-3	FS12	Total/NA	Solid	8021B	45339
MB 880-45339/5-A	Method Blank	Total/NA	Solid	8021B	45339
LCS 880-45339/1-A	Lab Control Sample	Total/NA	Solid	8021B	45339
LCSD 880-45339/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	45339
890-3944-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	45339
890-3944-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	45339

Prep Batch: 45339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-3946-1	FS10	Total/NA	Solid	5035	<u> </u>
890-3946-2	FS11	Total/NA	Solid	5035	
890-3946-3	FS12	Total/NA	Solid	5035	
MB 880-45339/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-45339/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-45339/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3944-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
890-3944-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 45466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3946-1	FS10	Total/NA	Solid	Total BTEX	
890-3946-2	FS11	Total/NA	Solid	Total BTEX	
890-3946-3	FS12	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 45337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3946-1	FS10	Total/NA	Solid	8015NM Prep	
890-3946-2	FS11	Total/NA	Solid	8015NM Prep	
890-3946-3	FS12	Total/NA	Solid	8015NM Prep	
MB 880-45337/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-45337/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-45337/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3923-A-3-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3923-A-3-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 45443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3946-1	FS10	Total/NA	Solid	8015B NM	45337
890-3946-2	FS11	Total/NA	Solid	8015B NM	45337
890-3946-3	FS12	Total/NA	Solid	8015B NM	45337
MB 880-45337/1-A	Method Blank	Total/NA	Solid	8015B NM	45337
LCS 880-45337/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	45337
LCSD 880-45337/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	45337
890-3923-A-3-E MS	Matrix Spike	Total/NA	Solid	8015B NM	45337
890-3923-A-3-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	45337

 Client: Ensolum
 Job ID: 890-3946-1

 Project/Site: State FTG #001
 SDG: 03D2057046

GC Semi VOA

Analysis Batch: 45501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3946-1	FS10	Total/NA	Solid	8015 NM	
890-3946-2	FS11	Total/NA	Solid	8015 NM	
890-3946-3	FS12	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 44970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3946-1	FS10	Soluble	Solid	DI Leach	
890-3946-2	FS11	Soluble	Solid	DI Leach	
890-3946-3	FS12	Soluble	Solid	DI Leach	
MB 880-44970/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-44970/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-44970/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3946-2 MS	FS11	Soluble	Solid	DI Leach	
890-3946-2 MSD	FS11	Soluble	Solid	DI Leach	

Analysis Batch: 45040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3946-1	FS10	Soluble	Solid	300.0	44970
890-3946-2	FS11	Soluble	Solid	300.0	44970
890-3946-3	FS12	Soluble	Solid	300.0	44970
MB 880-44970/1-A	Method Blank	Soluble	Solid	300.0	44970
LCS 880-44970/2-A	Lab Control Sample	Soluble	Solid	300.0	44970
LCSD 880-44970/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	44970
890-3946-2 MS	FS11	Soluble	Solid	300.0	44970
890-3946-2 MSD	FS11	Soluble	Solid	300.0	44970

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Job ID: 890-3946-1 SDG: 03D2057046

Client Sample ID: FS10

Project/Site: State FTG #001

Client: Ensolum

Lab Sample ID: 890-3946-1

Matrix: Solid

Date Collected: 01/23/23 13:30 Date Received: 01/24/23 08:44

	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	45339	02/03/23 09:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45309	02/03/23 15:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			45466	02/04/23 10:12	AJ	EET MID
Total/NA	Analysis	8015 NM		1			45501	02/05/23 09:31	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	45337	02/03/23 09:23	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45443	02/04/23 18:48	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	44970	01/29/23 17:45	KS	EET MID
Soluble	Analysis	300.0		1			45040	01/30/23 10:55	CH	EET MID

Lab Sample ID: 890-3946-2 **Client Sample ID: FS11**

Date Collected: 01/23/23 13:35 **Matrix: Solid**

Date Received: 01/24/23 08:44

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 5.03 g Total/NA Prep 5 mL 45339 02/03/23 09:50 MNR EET MID 8021B Total/NA 5 mL 45309 02/03/23 17:12 MNR **EET MID** Analysis 1 5 mL Total/NA Total BTEX 45466 02/04/23 10:12 Analysis 1 A.I **EET MID** Total/NA Analysis 8015 NM 45501 02/05/23 09:31 **EET MID** Total/NA 8015NM Prep 45337 Prep 10.02 g 10 mL 02/03/23 09:23 DM EET MID Total/NA Analysis 8015B NM 1 uL 1 uL 45443 02/04/23 19:10 ΑJ **EET MID** Soluble 5.05 g 44970 KS Leach DI Leach 50 mL 01/29/23 17:45 **EET MID** Soluble Analysis 300.0 45040 01/30/23 11:01 СН **EET MID**

Lab Sample ID: 890-3946-3 **Client Sample ID: FS12** Date Collected: 01/23/23 13:40

Date Received: 01/24/23 08:44

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	45339	02/03/23 09:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45309	02/03/23 17:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			45466	02/04/23 10:12	AJ	EET MID
Total/NA	Analysis	8015 NM		1			45501	02/05/23 09:31	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	45337	02/03/23 09:23	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45443	02/04/23 19:31	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	44970	01/29/23 17:45	KS	EET MID
Soluble	Analysis	300.0		1			45040	01/30/23 11:20	CH	EET MID

Laboratory References:

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

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Matrix: Solid

Accreditation/Certification Summary

 Client: Ensolum
 Job ID: 890-3946-1

 Project/Site: State FTG #001
 SDG: 03D2057046

Laboratory: Eurofins Midland

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

Authority		ogram	Identification Number	Expiration Date	
Texas	NE	ELAP	T104704400-22-25		
The following analytes the agency does not of	' '	it the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes f	
Analysis Method	Prep Method	Matrix	Analyte		
8015 NM		Solid	Total TPH		

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Method Summary

Client: Ensolum Job ID: 890-3946-1 Project/Site: State FTG #001

SDG: 03D2057046

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

Released to Imaging: 11/14/2023 10:29:55 AM

Sample Summary

Client: Ensolum

Project/Site: State FTG #001

Job ID: 890-3946-1

SDG: 03D2057046

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	
890-3946-1	FS10	Solid	01/23/23 13:30	01/24/23 08:44	
890-3946-2	FS11	Solid	01/23/23 13:35	01/24/23 08:44	
890-3946-3	FS12	Solid	01/23/23 13:40	01/24/23 08:44	1

Received by OCD: 8/10/2023 8:27:35 AM

2/5/2023

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Environment Testing Xenco

Chain of Custody

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

1A	Jork Ord	or No:	

	-								_							<u> </u>	w.xenco.c		01		
Project Manager:	Kalei Jennings			Bill to: (if different) Kalei Jennings				Work Order Comments													
Company Name:	Enso	lum, LLC				Compan	e:	Ensolum, LLC				Program: UST/PST PRP Brownfields RRC Superfund				Superfund 🗌					
Address:	601	N Marienfe	eld St S	uite 400		Address:			601 N Marienfeld St Suite 400				State of Project:								
City, State ZIP:	Midla	Midland, TX 79701				City, Sta	City, State ZIP:			Midland, TX 79701				Reporting: Level II Devel III PST/UST TRRP Level IV				P Level IV □			
Phone:	817.6	83.2503			Email:	kjennings@ensolum.c									Deliverable	s: EDD [AE	DaPT Othe	er:		
Project Name:	State FTG #001 Turi			Around							ANAL	SIS RE	QUEST			Preserv	ative Codes				
Project Number:		03D2	205704	6	☑ Routine	Rush	1	Pres. Code										None: NO	DI Water: H₂O		
Project Location:		Lea Co	ounty, N	/M	Due Date:													Cool: Cool	МеОН: Ме		
Sampler's Name:		Conn	er Sho	re		the day received by received by 4:30pm								1	MINISTRA			HCL: HC	HNO₃: HN		
PO #:					the lab, if red			2	1								H ₂ S0 ₄ : H ₂	NaOH: Na			
SAMPLE RECEIPT		T Temp Blank: Yes		: Yes No Wet Ice:		(Ves	No	nete						H₃PO₄: HP							
Samples Received Intac				er ID:	100 mil		1 2				\\\\\		100		1		NaHSO₄: NAE				
		Correction F	Factor:	⇒ o			1		\\\\\\	890-3946 Chain of Custody				Na ₂ S ₂ O ₃ : NaSO ₃							
		Temperatur		4.	2				_	890	3946 C	hain of O	and the second	1 1		Zn Acetate+NaOH: Zn					
Total Containers:				Corrected T	emperature:	1 40		Ý.D		J.D.		015) les	015) les	915) les		1				NaOH+Ascorbic Acid: SAPC	
Sample Ide	ntification Matrix		Date Sampled	Time Sampled	Depth	Grab/ Comp	1	TPH (8015) Chlorides	TPH (8)	(802.1)						Sample Comme					
FS	10		s	1.23.23	1330	1'	С	1	х	x	x										
FS′	11		S	1.23.23	1335	1'	С	1	х	x	х										
FS ²	12		S	1.23.23	1340	1'	С	1	x	х	х							Incide	nt Number		
								and the second										NAPP2	2233947938		
					103.0	3															
					10																
		9			2																
		1																			
	n	/																			
																		No Co TI Co I			

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

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

Relinquished by: (Signature)	Received by; (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	8 11 Mate 0 74/23/	00830	2		
3	Augustut	1.24.23 084	Á		
5	(1)		6		

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-3946-1 SDG Number: 03D2057046

Login Number: 3946 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: 890-3946-1 SDG Number: 03D2057046

Login Number: 3946 **List Source: Eurofins Midland** List Number: 2

List Creation: 01/25/23 12:13 PM

Creator: Rodriguez, Leticia

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

<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kalei Jennings Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701

Generated 2/5/2023 9:39:17 AM

JOB DESCRIPTION

State FTG #001 SDG NUMBER 03D2057046

JOB NUMBER

890-3947-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

See page two for job notes and contact information.

Eurofins Carlsbad

Job Notes

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

Authorization

Generated 2/5/2023 9:39:17 AM

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

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Client: Ensolum
Project/Site: State FTG #001
Laboratory Job ID: 890-3947-1
SDG: 03D2057046

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Definitions/Glossary

Job ID: 890-3947-1 Client: Ensolum Project/Site: State FTG #001

SDG: 03D2057046

Qualifiers

GC VOA

Qualifier **Qualifier Description**

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

GC Semi VOA

Qualifier **Qualifier Description**

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**

Detection Limit (DoD/DOE) DL

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

DLC Decision Level Concentration (Radiochemistry)

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

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

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

NC Not Calculated

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

NFG 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)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Project/Site: State FTG #001

Job ID: 890-3947-1 SDG: 03D2057046

Job ID: 890-3947-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3947-1

Receipt

The samples were received on 1/24/2023 8:44 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: PH02 (890-3947-1) and PH02 (890-3947-2).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: PH02 (890-3947-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

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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Client Sample Results

 Client: Ensolum
 Job ID: 890-3947-1

 Project/Site: State FTG #001
 SDG: 03D2057046

Client Sample ID: PH02 Lab Sample ID: 890-3947-1

Date Collected: 01/23/23 11:50

Date Received: 01/24/23 08:44

Matrix: Solid

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/03/23 09:22	02/04/23 10:56	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/03/23 09:22	02/04/23 10:56	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/03/23 09:22	02/04/23 10:56	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		02/03/23 09:22	02/04/23 10:56	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/03/23 09:22	02/04/23 10:56	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		02/03/23 09:22	02/04/23 10:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130			02/03/23 09:22	02/04/23 10:56	1
1,4-Difluorobenzene (Surr)	100		70 - 130			02/03/23 09:22	02/04/23 10:56	1
- Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			02/05/23 10:21	1
Method: SW846 8015 NM - Diese	al Range Organ	ics (DRO) ((ec)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
							· ···· , – · ··	DII Fac
Total TPH	<50.0	U	50.0	mg/Kg		<u>.</u>	02/05/23 09:31	
Total TPH Method: SW846 8015B NM - Dies				mg/Kg				
- -	sel Range Orga			mg/Kg		Prepared		1
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	sel Range Orga	nics (DRO) Qualifier	(GC)		<u>D</u>		02/05/23 09:31	1 Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	sel Range Orga Result	nics (DRO) Qualifier	(GC)	Unit	<u>D</u>	Prepared	02/05/23 09:31 Analyzed	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	sel Range Orga Result <50.0	nics (DRO) Qualifier U	(GC) RL 50.0	<mark>Unit</mark> mg/Kg	<u>D</u>	Prepared 02/03/23 09:29	02/05/23 09:31 Analyzed 02/04/23 21:19	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	sel Range Orga Result <50.0	nics (DRO) Qualifier U	(GC) RL 50.0	<mark>Unit</mark> mg/Kg mg/Kg	<u>D</u>	Prepared 02/03/23 09:29 02/03/23 09:29	02/05/23 09:31 Analyzed 02/04/23 21:19 02/04/23 21:19	1 Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	sel Range Orga Result <50.0 <50.0 <50.0	nics (DRO) Qualifier U	(GC) RL 50.0 50.0	<mark>Unit</mark> mg/Kg mg/Kg	<u>D</u>	Prepared 02/03/23 09:29 02/03/23 09:29 02/03/23 09:29	02/05/23 09:31 Analyzed 02/04/23 21:19 02/04/23 21:19 02/04/23 21:19	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Sel Range Orga Result <50.0 <50.0 <50.0 <50.0	nics (DRO) Qualifier U	(GC) RL 50.0 50.0 50.0 Limits	<mark>Unit</mark> mg/Kg mg/Kg	<u>D</u>	Prepared 02/03/23 09:29 02/03/23 09:29 02/03/23 09:29 Prepared	Analyzed 02/04/23 21:19 02/04/23 21:19 02/04/23 21:19 Analyzed	Dil Fac
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	sel Range Orga Result <50.0	nics (DRO) Qualifier U U Qualifier	(GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	<mark>Unit</mark> mg/Kg mg/Kg	<u>D</u>	Prepared 02/03/23 09:29 02/03/23 09:29 02/03/23 09:29 Prepared 02/03/23 09:29	02/05/23 09:31 Analyzed 02/04/23 21:19 02/04/23 21:19 Analyzed 02/04/23 21:19	Dil Fac
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	sel Range Orga Result <50.0	nics (DRO) Qualifier U U Qualifier	(GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	<mark>Unit</mark> mg/Kg mg/Kg	<u>D</u>	Prepared 02/03/23 09:29 02/03/23 09:29 02/03/23 09:29 Prepared 02/03/23 09:29	02/05/23 09:31 Analyzed 02/04/23 21:19 02/04/23 21:19 Analyzed 02/04/23 21:19	1 Dil Fac

Client Sample ID: PH02 Lab Sample ID: 890-3947-2

Date Collected: 01/23/23 11:55
Date Received: 01/24/23 08:44

Sample Depth: 2'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		02/03/23 09:22	02/04/23 11:23	1
Toluene	<0.00201	U	0.00201	mg/Kg		02/03/23 09:22	02/04/23 11:23	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		02/03/23 09:22	02/04/23 11:23	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		02/03/23 09:22	02/04/23 11:23	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		02/03/23 09:22	02/04/23 11:23	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		02/03/23 09:22	02/04/23 11:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	38	S1-	70 - 130			02/03/23 09:22	02/04/23 11:23	

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Matrix: Solid

Client Sample Results

 Client: Ensolum
 Job ID: 890-3947-1

 Project/Site: State FTG #001
 SDG: 03D2057046

Client Sample ID: PH02 Lab Sample ID: 890-3947-2

Date Collected: 01/23/23 11:55

Date Received: 01/24/23 08:44

Matrix: Solid

Sample Depth: 2'

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	103		70 - 130			02/03/23 09:22	02/04/23 11:23	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			02/05/23 10:21	1
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			02/05/23 09:31	1
	<49.9		49.9	mg/Kg		02/03/23 09:29	02/04/23 22:25	Dii Fa
Analyte Gasoline Range Organics		Qualifier U	RL 49.9	Mg/Kg	D	Prepared 02/03/23 09:29	Analyzed 02/04/23 22:25	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/03/23 09:29	02/04/23 22:25	,
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/03/23 09:29	02/04/23 22:25	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	106		70 - 130			02/03/23 09:29	02/04/23 22:25	
	100		70 - 130			02/03/23 09:29	02/04/23 22:25	
o-Terphenyl	100							
o-Terphenyl Method: EPA 300.0 - Anions, Ion		hy - Solubl	e					
	Chromatograp	ohy - Solubl Qualifier	e RL	Unit	D	Prepared	Analyzed	Dil Fac

Surrogate Summary

 Client: Ensolum
 Job ID: 890-3947-1

 Project/Site: State FTG #001
 SDG: 03D2057046

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-3940-A-1-C MS	Matrix Spike	106	107	
890-3940-A-1-D MSD	Matrix Spike Duplicate	90	106	
890-3947-1	PH02	94	100	
890-3947-2	PH02	38 S1-	103	
LCS 880-45336/1-A	Lab Control Sample	86	104	
LCSD 880-45336/2-A	Lab Control Sample Dup	95	106	
MB 880-45336/5-A	Method Blank	64 S1-	95	

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				
Lab Sample ID	Client Sample ID	(70-130)	(70-130)				
890-3947-1	PH02	87	83				
890-3947-1 MS	PH02	110	89				
890-3947-1 MSD	PH02	123	97				
890-3947-2	PH02	106	100				
LCS 880-45338/2-A	Lab Control Sample	115	99				
LCSD 880-45338/3-A	Lab Control Sample Dup	114	98				
MB 880-45338/1-A	Method Blank	109	108				

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-3947-1 SDG: 03D2057046 Project/Site: State FTG #001

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-45336/5-A

Matrix: Solid Analysis Batch: 45307 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 45336

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg	_	02/03/23 09:22	02/03/23 12:40	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/03/23 09:22	02/03/23 12:40	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/03/23 09:22	02/03/23 12:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/03/23 09:22	02/03/23 12:40	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/03/23 09:22	02/03/23 12:40	1
Xylenes, Total	< 0.00400	U	0.00400	mg/Kg		02/03/23 09:22	02/03/23 12:40	1

MB MB

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	64	S1-	70 - 130		02/03/23 09:22	02/03/23 12:40	1
1,4-Difluorobenzene (Surr)	95		70 - 130	C	02/03/23 09:22	02/03/23 12:40	1

Lab Sample ID: LCS 880-45336/1-A

Matrix: Solid

Analysis Batch: 45307

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

Prep Batch: 45336

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1031		mg/Kg		103	70 - 130	
Toluene	0.100	0.09751		mg/Kg		98	70 - 130	
Ethylbenzene	0.100	0.09723		mg/Kg		97	70 - 130	
m-Xylene & p-Xylene	0.200	0.1957		mg/Kg		98	70 - 130	
o-Xylene	0.100	0.09666		mg/Kg		97	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	86		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: LCSD 880-45336/2-A

Matrix: Solid

Analysis Batch: 45307

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 45336

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1071		mg/Kg		107	70 - 130	4	35	
Toluene	0.100	0.1057		mg/Kg		106	70 - 130	8	35	
Ethylbenzene	0.100	0.1042		mg/Kg		104	70 - 130	7	35	
m-Xylene & p-Xylene	0.200	0.2107		mg/Kg		105	70 - 130	7	35	
o-Xylene	0.100	0.1090		mg/Kg		109	70 - 130	12	35	

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1.4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 890-3940-A-1-C MS

Matrix: Solid

Analysis Batch: 45307

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

Prep Batch: 45336

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.0998	0.1231		mg/Kg		123	70 - 130	
Toluene	<0.00201	U	0.0998	0.1255		mg/Kg		126	70 - 130	

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Client: Ensolum Project/Site: State FTG #001

Job ID: 890-3947-1

SDG: 03D2057046

Method: 8021B - Volatile Organic Compounds (GC) (Continued) Lab Sample ID: 890-3940-A-1-C MS

Matrix: Solid

Analysis Batch: 45307

Client	Sample	ID:	Matrix	Snike
Ciletit	Sample	ID.	IVIALI IA	Shire

Prep Type: Total/NA

Prep Batch: 45336

	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Ethylbenzene	<0.00201	U	0.0998	0.1243		mg/Kg		125	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.200	0.2459		mg/Kg		123	70 - 130
o-Xylene	<0.00201	U	0.0998	0.1246		mg/Kg		125	70 - 130

MS MS

Surrogate	%Recovery Qu	alifier Limit	ts
4-Bromofluorobenzene (Surr)	106	70 - 1	130
1,4-Difluorobenzene (Surr)	107	70 - 1	130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 45336

Analysis Batch: 45307

Matrix: Solid

Lab Sample ID: 890-3940-A-1-D MSD

Sample Sample Spike MSD MSD RPD Result Qualifier Added Result Qualifier RPD Limit Analyte Unit %Rec Limits Benzene <0.00201 U 0.100 0.1021 mg/Kg 102 70 - 130 19 35 Toluene <0.00201 U 0.100 0.09949 mg/Kg 99 70 - 130 23 35 Ethylbenzene <0.00201 U 0.100 0.09971 100 70 - 130 22 35 mg/Kg 0.200 70 - 130 21 m-Xylene & p-Xylene <0.00402 U 0.1993 mg/Kg 99 35 <0.00201 U 0.100 0.09513 95 70 - 130 27 o-Xylene mg/Kg

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

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

Lab Sample ID: MB 880-45338/1-A

Matrix: Solid

Analysis Batch: 45443

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 45338

Result Qualifier RL Unit D Prepared Analyzed Dil Fac Analyte 02/03/23 09:29 02/04/23 20:13 <49.9 U 49.9 Gasoline Range Organics mg/Kg (GRO)-C6-C10 02/03/23 09:29 02/04/23 20:13 Diesel Range Organics (Over <49.9 U 49 9 mg/Kg C10-C28) OII Range Organics (Over C28-C36) <49.9 U 49.9 02/03/23 09:29 02/04/23 20:13 mg/Kg

MB MB

MB MB

Surrogate	%Recovery	Qualifier	Limits	Pre	pared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130	02/03/	23 09:29	02/04/23 20:13	1
o-Terphenyl	108		70 - 130	02/03/	23 09:29	02/04/23 20:13	1

Lab Sample ID: LCS 880-45338/2-A

Matrix: Solid

Analysis Batch: 45443

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

Prep Batch: 45338

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	999	970.1		mg/Kg		97	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	999	939.7		mg/Kg		94	70 - 130	
C10-C28)								

Job ID: 890-3947-1 Project/Site: State FTG #001

SDG: 03D2057046

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

LCS LCS

Lab Sample ID: LCS 880-45338/2-A

Matrix: Solid

Client: Ensolum

Analysis Batch: 45443

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 45338

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 115 70 - 130 o-Terphenyl 99 70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 45338

Lab Sample ID: LCSD 880-45338/3-A **Matrix: Solid**

Analysis Batch: 45443

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 999 874.8 88 70 - 13010 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 999 931.5 93 mg/Kg 70 - 13020

C10-C28)

LCSD LCSD

Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 114 98 70 - 130 o-Terphenyl

Lab Sample ID: 890-3947-1 MS **Client Sample ID: PH02 Matrix: Solid**

Prep Type: Total/NA

Analysis Batch: 45443 Prep Batch: 45338

Sample Sample Spike MS MS Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics <50.0 U 1000 869.5 mg/Kg 83 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 1000 872.5 mg/Kg 87 70 - 130

C10-C28)

MS MS %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 110 70 - 130 o-Terphenyl 89

Lab Sample ID: 890-3947-1 MSD Client Sample ID: PH02

Matrix: Solid Prep Type: Total/NA Analysis Batch: 45443 Prep Batch: 45338

952.2

mg/Kg

95

70 - 130

Sample Sample MSD MSD RPD Spike %Rec Result Qualifier Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit <50.0 U 998 961.8 93 Gasoline Range Organics mg/Kg 70 - 130 10 20 (GRO)-C6-C10

998

Diesel Range Organics (Over C10-C28)

MSD MSD

<50.0 U

%Recovery Qualifier Surrogate Limits 1-Chlorooctane 123 70 - 130 97 70 - 130 o-Terphenyl

Released to Imaging: 11/14/2023 10:29:55 AM

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Client Sample ID: Method Blank

%Rec

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Prep Type: Soluble

Job ID: 890-3947-1

Client: Ensolum Project/Site: State FTG #001 SDG: 03D2057046

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-44970/1-A

Matrix: Solid

Analysis Batch: 45040

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Dil Fac Analyte Result Qualifier RL Unit D Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 01/30/23 09:16

Lab Sample ID: LCS 880-44970/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 45040

Spike LCS LCS

Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 253.2 mg/Kg 101 90 - 110

Lab Sample ID: LCSD 880-44970/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 45040

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 253.6 mg/Kg 101 90 - 110

Lab Sample ID: 890-3946-A-2-B MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 45040

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added Qualifier %Rec Result Unit Limits Chloride 59.9 248 291.0 90 - 110 mg/Kg

Lab Sample ID: 890-3946-A-2-C MSD

Matrix: Solid

Analysis Batch: 45040

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 248 59.9 291.2 mg/Kg 93 90 - 110 20

QC Association Summary

 Client: Ensolum
 Job ID: 890-3947-1

 Project/Site: State FTG #001
 SDG: 03D2057046

GC VOA

Analysis Batch: 45307

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3947-1	PH02	Total/NA	Solid	8021B	45336
890-3947-2	PH02	Total/NA	Solid	8021B	45336
MB 880-45336/5-A	Method Blank	Total/NA	Solid	8021B	45336
LCS 880-45336/1-A	Lab Control Sample	Total/NA	Solid	8021B	45336
LCSD 880-45336/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	45336
890-3940-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	45336
890-3940-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	45336

Prep Batch: 45336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3947-1	PH02	Total/NA	Solid	5035	
890-3947-2	PH02	Total/NA	Solid	5035	
MB 880-45336/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-45336/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-45336/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3940-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-3940-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 45529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3947-1	PH02	Total/NA	Solid	Total BTEX	
890-3947-2	PH02	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 45338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3947-1	PH02	Total/NA	Solid	8015NM Prep	
890-3947-2	PH02	Total/NA	Solid	8015NM Prep	
MB 880-45338/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-45338/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-45338/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3947-1 MS	PH02	Total/NA	Solid	8015NM Prep	
890-3947-1 MSD	PH02	Total/NA	Solid	8015NM Prep	

Analysis Batch: 45443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3947-1	PH02	Total/NA	Solid	8015B NM	45338
890-3947-2	PH02	Total/NA	Solid	8015B NM	45338
MB 880-45338/1-A	Method Blank	Total/NA	Solid	8015B NM	45338
LCS 880-45338/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	45338
LCSD 880-45338/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	45338
890-3947-1 MS	PH02	Total/NA	Solid	8015B NM	45338
890-3947-1 MSD	PH02	Total/NA	Solid	8015B NM	45338

Analysis Batch: 45502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3947-1	PH02	Total/NA	Solid	8015 NM	
890-3947-2	PH02	Total/NA	Solid	8015 NM	

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QC Association Summary

 Client: Ensolum
 Job ID: 890-3947-1

 Project/Site: State FTG #001
 SDG: 03D2057046

HPLC/IC

Leach Batch: 44970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3947-1	PH02	Soluble	Solid	DI Leach	
890-3947-2	PH02	Soluble	Solid	DI Leach	
MB 880-44970/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-44970/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-44970/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3946-A-2-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-3946-A-2-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 45040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3947-1	390-3947-1 PH02		Solid	300.0	44970
890-3947-2	PH02	Soluble	Solid	300.0	44970
MB 880-44970/1-A	Method Blank	Soluble	Solid	300.0	44970
LCS 880-44970/2-A	Lab Control Sample	Soluble	Solid	300.0	44970
LCSD 880-44970/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	44970
890-3946-A-2-B MS	Matrix Spike	Soluble	Solid	300.0	44970
890-3946-A-2-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	44970

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Job ID: 890-3947-1

45040

01/30/23 11:44

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EET MID

Client: Ensolum Project/Site: State FTG #001 SDG: 03D2057046

Client Sample ID: PH02 Lab Sample ID: 890-3947-1 Date Collected: 01/23/23 11:50 **Matrix: Solid**

Date Received: 01/24/23 08:44

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	45336	02/03/23 09:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45307	02/04/23 10:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			45529	02/05/23 10:21	AJ	EET MID
Total/NA	Analysis	8015 NM		1			45502	02/05/23 09:31	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	45338	02/03/23 09:29	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45443	02/04/23 21:19	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	44970	01/29/23 17:45	KS	EET MID
Soluble	Analysis	300.0		1			45040	01/30/23 11:26	CH	EET MID

Client Sample ID: PH02 Lab Sample ID: 890-3947-2

Date Collected: 01/23/23 11:55 **Matrix: Solid** Date Received: 01/24/23 08:44

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 Total/NA Prep 4.98 g 5 mL 45336 02/03/23 09:22 MNR EET MID 8021B Total/NA 5 mL 02/04/23 11:23 MNR **EET MID** Analysis 1 5 mL 45307 Total/NA Total BTEX 45529 02/05/23 10:21 Analysis 1 A.I **EET MID** Total/NA Analysis 8015 NM 45502 02/05/23 09:31 ΑJ **EET MID** Total/NA 45338 02/03/23 09:29 Prep 8015NM Prep 10.02 g 10 mL DM EET MID Total/NA Analysis 8015B NM 1 uL 1 uL 45443 02/04/23 22:25 ΑJ **EET MID** KS Soluble 44970 Leach DI Leach 4.98 g 50 mL 01/29/23 17:45 **EET MID**

Laboratory References:

Analysis

Soluble

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

300.0

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-3947-1 Project/Site: State FTG #001

SDG: 03D2057046

Laboratory: Eurofins Midland

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

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

EET MID

EET MID

EET MID

EET MID

EPA

SW846

SW846

ASTM

Method Summary

 Client: Ensolum
 Job ID: 890-3947-1

 Project/Site: State FTG #001
 SDG: 03D2057046

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**

Protocol References:

300.0

5035

8015NM Prep

DI Leach

ASTM = ASTM International

EPA = US Environmental Protection Agency

Microextraction

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Anions, Ion Chromatography

Closed System Purge and Trap

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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Sample Summary

Client: Ensolum

Project/Site: State FTG #001

Job ID: 890-3947-1

SDG: 03D2057046

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3947-1	PH02	Solid	01/23/23 11:50	01/24/23 08:44	0.5'
890-3947-2	PH02	Solid	01/23/23 11:55	01/24/23 08:44	2'

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Released to Imaging: 11/14/2023 10:29:55 AM

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-					

Environment Testing Xenco

Chain of Custody

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

Work Order No:			_
	Λ	Λ	

www.xenco.com

Project Manager:	Kale	Jennings	;			Bill to: (ii	f different)		Kalei Jennings					Work Order Comments										
Company Name:	Ensc	lum, LLC				Compar	y Name:		Ensol	um, LL	.C					Program: UST/PST PRP Brownfields RRC Superfund								
Address:	601	N Marienf	eld St S	uite 400		Address	:		601 N	Marie	nfeld S	St Suite 4	00			State of Project:								
City, State ZIP:	Midla	and, TX 79	9701			City, Sta	ate ZIP:		Midla	Midland, TX 79701					Reporting: Level II Level III PST/UST TRRP Level IV					RP Level IV				
Phone:		683.2503			Email:	kjennin	gs@ens	olum	.com						Deliverables: EDD ADaPT Other:					er:				
Project Name:		State	FTG#0	001	Turi	Around							Al	NALYSI	SRE	QUEST					Presei	vative Codes		
Project Number:			205704		☑ Routine	Rush		Pres. Code													None: NO	DI Water: H ₂ O		
Project Location:	1		county, I		Due Date:			Out													Cool: Cool	MeOH: Me		
Sampler's Name:			ner Sho		TAT starts the			22													HCL: HC HNO ₃ : HN H ₂ SO ₄ : H ₂ NaOH: Na			
SAMPLE RECE	IPT	Temp	Blank:	(Fes No	Wet Ice:	Nes	No	ete												H₃PO₄: HP				
Samples Received	Intact:	(Yes	No	Thermomet	er ID:		007	ran									IIII				NaHSO₄: NABIS			
Cooler Custody Sea	als:		NA	Correction I	actor:		.2	<u>o</u>												1	Na ₂ S ₂ O ₃ : Na	T		
Sample Custody Se	eals:	Yes No	N/A	Temperatur	e Reading:	H.	a			890-3947 Chain of C			of Cu	stody	10/1031			1	Zn Acetate+					
Total Containers:				Corrected 7	emperature:	4			15)	es	8021			1							NaOH+Asco	rbic Acid: SAPC		
Sample Ide	entifica	tion	Matrix	Date Sampled	Time Sampled	Depth		# of Cont	TPH (8015)	Chlorides	BTEX (8021)										Samp	e Comments		
PH	02		s	1.23.23	1150	0.5'	G	1	х	х	х									4				
PH	02		s	1.23.23	1155	2'	G	1	×	×	x		_		┿	4								
																	_		-			ent Number		
					23					L						+				+	NAPE	2233947938		
		-		123.											1		_		-	+	ļ			
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Total 200.7 / 6	010	200.8 / 6	3020·		RCRA 13	PPM T	eyas 11	Al	Sh As	Ba	Be B	Cd Ca	Cr C	o Cu F	e Pb	Mg Mr	Mo N	i K Se	Ag S	SiO ₂ N	a Sr TI Sn	U V Zn		
Circle Method(s)					TCLP/S																245.1 / 747			

TCLP/SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U Circle Method(s) and Metal(s) to be analyzed Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
03	MULINIA 6124123 a08	BU	2		
3	Delance Stut	1-24-23 DS	K4-		
5			6		Revised Date 08/25/2020 Rev. 2020 2

Login Sample Receipt Checklist

 Client: Ensolum
 Job Number: 890-3947-1

 SDG Number: 03D2057046

Login Number: 3947 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: 890-3947-1

 SDG Number: 03D2057046

List Source: Eurofins Midland List Creation: 01/25/23 12:13 PM

List Number: 2 Creator: Rodriguez, Leticia

Login Number: 3947

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

N/A

Euronnis Carisbau

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<6mm (1/4").

Containers requiring zero headspace have no headspace or bubble is

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kalei Jennings Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701

Generated 2/5/2023 9:35:22 AM

JOB DESCRIPTION

State FTG #001 SDG NUMBER 03D2057046

JOB NUMBER

890-3948-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

Authorization

Generated 2/5/2023 9:35:22 AM

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

Client: Ensolum
Project/Site: State FTG #001
Laboratory Job ID: 890-3948-1
SDG: 03D2057046

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Definitions/Glossary

Job ID: 890-3948-1 Client: Ensolum Project/Site: State FTG #001

SDG: 03D2057046

Qualifiers

GC VOA

Qualifier **Qualifier Description** F1 MS and/or MSD recovery exceeds control limits.

F2 MS/MSD RPD exceeds control limits

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

GC Semi VOA

Qualifier **Qualifier Description**

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

DFR Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

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

Decision Level Concentration (Radiochemistry) DLC

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

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

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum Job ID: 890-3948-1

Project/Site: State FTG #001 SDC: 03D2057046

Project/Site: State FTG #001 SDG: 03D2057046

Job ID: 890-3948-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3948-1

Receipt

The sample was received on 1/24/2023 8:44 AM. 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 4.0°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: PH01 (890-3948-1).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-45339 and analytical batch 880-45309 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (890-3944-A-1-G). 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

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: 890-3948-1

Client Sample Results

 Client: Ensolum
 Job ID: 890-3948-1

 Project/Site: State FTG #001
 SDG: 03D2057046

Client Sample ID: PH01

Date Collected: 01/23/23 12:00 Date Received: 01/24/23 08:44

Sample Depth: 1'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/03/23 09:50	02/03/23 17:53	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/03/23 09:50	02/03/23 17:53	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		02/03/23 09:50	02/03/23 17:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		02/03/23 09:50	02/03/23 17:53	1
o-Xylene	0.0167		0.00199	mg/Kg		02/03/23 09:50	02/03/23 17:53	1
Xylenes, Total	0.0167		0.00398	mg/Kg		02/03/23 09:50	02/03/23 17:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130			02/03/23 09:50	02/03/23 17:53	1
1,4-Difluorobenzene (Surr)	80		70 - 130			02/03/23 09:50	02/03/23 17:53	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0167		0.00398	mg/Kg			02/04/23 10:12	1
- Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			02/05/23 09:31	1
- Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/03/23 09:29	02/04/23 22:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/03/23 09:29	02/04/23 22:47	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/03/23 09:29	02/04/23 22:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130			02/03/23 09:29	02/04/23 22:47	1
o-Terphenyl	86		70 - 130			02/03/23 09:29	02/04/23 22:47	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.89		4.99	mg/Kg			01/30/23 11:51	1

Surrogate Summary

 Client: Ensolum
 Job ID: 890-3948-1

 Project/Site: State FTG #001
 SDG: 03D2057046

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

-				Percent Surrogate Re
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-3944-A-1-E MS	Matrix Spike	64 S1-	88	
890-3944-A-1-F MSD	Matrix Spike Duplicate	119	100	
890-3948-1	PH01	112	80	
LCS 880-45339/1-A	Lab Control Sample	98	95	
LCSD 880-45339/2-A	Lab Control Sample Dup	104	95	
MB 880-45339/5-A	Method Blank	75	93	
Surrogate Legend				
BFB = 4-Bromofluorober	nzene (Surr)			
DFBZ = 1,4-Difluorobenz	zene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-3947-A-1-D MS	Matrix Spike	110	89	
890-3947-A-1-E MSD	Matrix Spike Duplicate	123	97	
890-3948-1	PH01	89	86	
LCS 880-45338/2-A	Lab Control Sample	115	99	
LCSD 880-45338/3-A	Lab Control Sample Dup	114	98	
MB 880-45338/1-A	Method Blank	109	108	
Surrogate Legend				

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-3948-1 SDG: 03D2057046 Project/Site: State FTG #001

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-45339/5-A

Matrix: Solid Analysis Batch: 45309 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 45339

MB	MB	
Result	Qualifier	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/03/23 09:50	02/03/23 12:24	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/03/23 09:50	02/03/23 12:24	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/03/23 09:50	02/03/23 12:24	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/03/23 09:50	02/03/23 12:24	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/03/23 09:50	02/03/23 12:24	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/03/23 09:50	02/03/23 12:24	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75	70 - 130	02/03/23 09:5	02/03/23 12:24	1
1,4-Difluorobenzene (Surr)	93	70 - 130	02/03/23 09:5	02/03/23 12:24	1

Lab Sample ID: LCS 880-45339/1-A

Matrix: Solid

Analysis Batch: 45309

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 45339

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1035		mg/Kg		103	70 - 130	
Toluene	0.100	0.09635		mg/Kg		96	70 - 130	
Ethylbenzene	0.100	0.09708		mg/Kg		97	70 - 130	
m-Xylene & p-Xylene	0.200	0.2017		mg/Kg		101	70 - 130	
o-Xylene	0.100	0.1095		mg/Kg		109	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: LCSD 880-45339/2-A

Matrix: Solid

Analysis Batch: 45309

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 45339

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1043		mg/Kg		104	70 - 130	1	35
Toluene	0.100	0.09819		mg/Kg		98	70 - 130	2	35
Ethylbenzene	0.100	0.09855		mg/Kg		99	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2080		mg/Kg		104	70 - 130	3	35
o-Xylene	0.100	0.1070		mg/Kg		107	70 - 130	2	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1.4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 890-3944-A-1-E MS

Matrix: Solid

Analysis Batch: 45309

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

Prep Batch: 45339

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.0996	0.06961		mg/Kg		70	70 - 130	
Toluene	<0.00200	U	0.0996	0.08014		mg/Kg		80	70 - 130	

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Page 8 of 20

Client: Ensolum

Project/Site: State FTG #001

Job ID: 890-3948-1

SDG: 03D2057046

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

Lab Sample ID: 890-3944-A-1-E MS

Lab Sample ID: 890-3944-A-1-F MSD

Matrix: Solid

Matrix: Solid

Analysis Batch: 45309

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 45339

									%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Ethylbenzene	<0.00200	U	0.0996	0.07706		mg/Kg		77	70 - 130
m-Xylene & p-Xylene	<0.00399	U F1 F2	0.199	0.1174	F1	mg/Kg		59	70 - 130
o-Xylene	<0.00200	U F1 F2	0.0996	0.05641	F1	mg/Kg		56	70 - 130

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	64	S1-	70 - 130
1,4-Difluorobenzene (Surr)	88		70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 45339

Analysis Batch: 45309 Sample Sample Spike MSD MSD RPD Result Qualifier Added Result Qualifier RPD Limit Analyte Unit %Rec Limits 0.100 Benzene <0.00200 U 0.09353 mg/Kg 93 70 - 130 29 35 Toluene <0.00200 U 0.09465 0.100 mg/Kg 94 70 - 130 17 35 Ethylbenzene <0.00200 U 0.100 0.1052 mg/Kg 105 70 - 130 31 35 <0.00399 UF1F2 0.200 0.2304 F2 70 - 130 35 m-Xylene & p-Xylene mg/Kg 115 65 0.100 <0.00200 U F1 F2 0.1150 F2 70 - 130 68 o-Xylene mg/Kg 114

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

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

Lab Sample ID: MB 880-45338/1-A

Matrix: Solid

Analysis Batch: 45443

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 45338

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/03/23 09:29	02/04/23 20:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/03/23 09:29	02/04/23 20:13	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/03/23 09:29	02/04/23 20:13	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Pre	epared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130	02/03	3/23 09:29	02/04/23 20:13	1
o-Terphenyl	108		70 - 130	02/03	3/23 09:29	02/04/23 20:13	1

Lab Sample ID: LCS 880-45338/2-A

Matrix: Solid

Analysis Batch: 45443

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 45338

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	999	970.1		mg/Kg		97	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	999	939.7		mg/Kg		94	70 - 130	
C10-C28)								

Job ID: 890-3948-1 Client: Ensolum Project/Site: State FTG #001 SDG: 03D2057046

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

LCS LCS

Lab Sample ID: LCS 880-45338/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Analysis Batch: 45443

Prep Type: Total/NA

Prep Batch: 45338

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 115 70 - 130 o-Terphenyl 99 70 - 130

Lab Sample ID: LCSD 880-45338/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 45443

Prep Type: Total/NA

Prep Batch: 45338

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 999 874.8 88 70 - 13010 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 999 931.5 93 mg/Kg 70 - 13020 C10-C28)

LCSD LCSD

Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 114 70 - 130 o-Terphenyl 98

Lab Sample ID: 890-3947-A-1-D MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 45443

Prep Type: Total/NA

Prep Batch: 45338

Sample Sample Spike MS MS Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics <50.0 U 1000 869.5 mg/Kg 83 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 1000 872.5 mg/Kg 87 70 - 130

C10-C28)

MS MS

%Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 110 o-Terphenyl 89 70 - 130

Lab Sample ID: 890-3947-A-1-E MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 45443

Prep Type: Total/NA

Prep Batch: 45338

RPD %Rec

Sample Sample MSD MSD Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit U 998 961.8 93 Gasoline Range Organics <50.0 mg/Kg 70 - 130 10 20 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 998 952.2 mg/Kg 95 70 - 130 20

C10-C28)

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	123		70 - 130
o-Terphenyl	97		70 - 130

Client: Ensolum Job ID: 890-3948-1 Project/Site: State FTG #001

SDG: 03D2057046

Prep Type: Soluble

Client Sample ID: Method Blank

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-44970/1-A

Matrix: Solid

Analysis Batch: 45040

MB MB

Dil Fac Analyte Result Qualifier RL Unit D Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 01/30/23 09:16

Lab Sample ID: LCS 880-44970/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 45040

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 253.2 mg/Kg 101 90 - 110

Lab Sample ID: LCSD 880-44970/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 45040

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 253.6 mg/Kg 101 90 - 110

Lab Sample ID: 890-3946-A-2-B MS Client Sample ID: Matrix Spike **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 45040

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added Qualifier %Rec Result Unit Limits Chloride 59.9 248 291.0 90 - 110 mg/Kg

Lab Sample ID: 890-3946-A-2-C MSD Client Sample ID: Matrix Spike Duplicate **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 45040

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 248 59.9 291.2 mg/Kg 93 90 - 110 0 20

QC Association Summary

Job ID: 890-3948-1 Client: Ensolum Project/Site: State FTG #001 SDG: 03D2057046

GC VOA

Analysis Batch: 45309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3948-1	PH01	Total/NA	Solid	8021B	45339
MB 880-45339/5-A	Method Blank	Total/NA	Solid	8021B	45339
LCS 880-45339/1-A	Lab Control Sample	Total/NA	Solid	8021B	45339
LCSD 880-45339/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	45339
890-3944-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	45339
890-3944-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	45339

Prep Batch: 45339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3948-1	PH01	Total/NA	Solid	5035	<u> </u>
MB 880-45339/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-45339/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-45339/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3944-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
890-3944-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 45467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3948-1	PH01	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 45338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3948-1	PH01	Total/NA	Solid	8015NM Prep	
MB 880-45338/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-45338/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-45338/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3947-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3947-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 45443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3948-1	PH01	Total/NA	Solid	8015B NM	45338
MB 880-45338/1-A	Method Blank	Total/NA	Solid	8015B NM	45338
LCS 880-45338/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	45338
LCSD 880-45338/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	45338
890-3947-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	45338
890-3947-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	45338

Analysis Batch: 45503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3948-1	PH01	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 44970

Г					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3948-1	PH01	Soluble	Solid	DI Leach	
MB 880-44970/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-44970/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-44970/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

QC Association Summary

 Client: Ensolum
 Job ID: 890-3948-1

 Project/Site: State FTG #001
 SDG: 03D2057046

HPLC/IC (Continued)

Leach Batch: 44970 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3946-A-2-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-3946-A-2-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 45040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3948-1	PH01	Soluble	Solid	300.0	44970
MB 880-44970/1-A	Method Blank	Soluble	Solid	300.0	44970
LCS 880-44970/2-A	Lab Control Sample	Soluble	Solid	300.0	44970
LCSD 880-44970/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	44970
890-3946-A-2-B MS	Matrix Spike	Soluble	Solid	300.0	44970
890-3946-A-2-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	44970

Eurofins Carlsbad

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Client: Ensolum Job ID: 890-3948-1 Project/Site: State FTG #001 SDG: 03D2057046

Client Sample ID: PH01 Lab Sample ID: 890-3948-1

Date Collected: 01/23/23 12:00 Matrix: Solid Date Received: 01/24/23 08:44

	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	45339	02/03/23 09:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45309	02/03/23 17:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			45467	02/04/23 10:12	AJ	EET MID
Total/NA	Analysis	8015 NM		1			45503	02/05/23 09:31	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	45338	02/03/23 09:29	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45443	02/04/23 22:47	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	44970	01/29/23 17:45	KS	EET MID
Soluble	Analysis	300.0		1			45040	01/30/23 11:51	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: 890-3948-1

 Project/Site: State FTG #001
 SDG: 03D2057046

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	NI	ELAP	T104704400-22-25	06-30-23
The following analytes the agency does not of		ut the laboratory is not certific	ed by the governing authority. This list ma	ay include analytes for
and agoing) adde met of	lei certification.			
Analysis Method	Prep Method	Matrix	Analyte	
0 ,		Matrix Solid	Analyte Total TPH	

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Method Summary

Client: Ensolum

Job ID: 890-3948-1 Project/Site: State FTG #001 SDG: 03D2057046

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum

Project/Site: State FTG #001

Job ID: 890-3948-1

SDG: 03D2057046

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3948-1	PH01	Solid	01/23/23 12:00	01/24/23 08:44	1'

Received by OCD: 8/10/2023 8:27:35 AM

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Environment Testing

Xenco

Chain of Custody

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

Work Order No:	

Project Manager:	Kalei .	Jennings				Bill to: (if	different)	Kalei .	lennin	gs								W	ork Ord	ler Comn	ents		
Company Name:		um, LLC				Compan	y Name	:	Ensolu	ım, LL	С					Pi	ogram	UST/P	ST 🗌 F	RP B	rownfield	RR	C ☐ Supe	rfund 🔲
Address:	601 N	Marienfe	ld St S	uite 400		Address			601 N	Marie	nfeld S	t Suite	00					roject:						C 7
City, State ZIP:	Midlar	nd, TX 79	701			City, Sta	te ZIP:		Midlan	d, TX	79701					1 1							P Le	/el IV∐
Phone:	817.6	33.2503			Email:	kjennin	gs@en	solum	.com							D	liverab	es: ED	D L	AE	DaPT 🗆	Othe	er:	
Project Name:	T T	State I	FTG #0	01	Tur	Around							A	NAL	SIS RI	EQUE	ST					Preserv	ative Cod	les
Project Number:			2057040		☑ Routine	Rush		Pres. Code				T									None	: NO	DI Wat	ter: H ₂ O
Project Location:			ounty, N	~~~	Due Date:																Cool:		MeOH HNO ₃ :	
Sampler's Name:		Conn	er Shor	e	TAT starts the								1								H ₂ S0		NaOH:	
PO#: SAMPLE RECE I	PT	Temp B	Blank:	Yes No	Wet Ice:	Z/es		eters					11								_	4: HP	114011	, , ,
Samples Received I	-		No	Thermomet	er ID:	TOM	-907	aram														O₄: NAI		
Cooler Custody Seal	s:	Yes No	TNIA	Correction F	actor:	-0	3	۵					Ш									2O ₃ : Nas	-	
Sample Custody Sea	als:	Yes No	MA	Temperatur		4	2	- 3			ਜ਼	1	89	0-394	18 Chair	of C	stody						aOH: Zn bic Acid: S/	A P.C
Total Containers:				Corrected T	emperature:	1 4	.()		(8015)	des	EX (8021)										NaCi	1+ASCOI	DIC ACIO. SI	AFC .
Sample ider	ntificati	on	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont		Chlorides	втех											Sample	Comme	nts
PHO)1		s	1.23.23	1200	1'	G	1	х	X	х					-	_	_	_					
			ļ. —-			, 23	3						-	\dashv	-	-	-	+	 			Incide	nt Numb	er
						10																NAPP	22339479	38
					~//																			
			1	50																				
	1	/																						
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					<u> </u>	<u> </u>								L				<u> </u>						
Total 200.7 / 60	010	200.8 / 6	020:	8	RCRA 13														K Se	Ag SiO	Na Sr	TI Sn	U V Zn	
Circle Method(s) a	nd Met	al(s) to be	e analy	zed	TCLP / S	SPLP 60	10: 8R	CRA	Sb A	s Ba	Be C	d Cr	Co Cu	ı Pb	Mn Mo	Ni o	Se Ag	TI U		Hg: 16	31 / 245.	/ 7470	/7471	

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
103	Whiemode).	01/24/36 083	3		
3	March Stut	1 24-23 28	gcf		
5			6		10-1-10-1-10-25 (2020 Box 2020 C

Login Sample Receipt Checklist

 Client: Ensolum
 Job Number: 890-3948-1

 SDG Number: 03D2057046

Login Number: 3948 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: 890-3948-1

 SDG Number: 03D2057046

List Source: Eurofins Midland List Creation: 01/25/23 12:13 PM

Creator: Rodriguez, Leticia

Login Number: 3948

List Number: 2

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

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<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kalei Jennings Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701

Generated 2/5/2023 9:35:54 AM

JOB DESCRIPTION

State FTG #001 SDG NUMBER 03D2057046

JOB NUMBER

890-3949-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

Authorization

Generated 2/5/2023 9:35:54 AM

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

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

Client: Ensolum
Project/Site: State FTG #001
Laboratory Job ID: 890-3949-1
SDG: 03D2057046

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Definitions/Glossary

Job ID: 890-3949-1 Client: Ensolum Project/Site: State FTG #001

SDG: 03D2057046

Qualifiers

GC VOA Qualifier

F1 MS and/or MSD recovery exceeds control limits.

Qualifier Description

F2 MS/MSD RPD exceeds control limits S1-

U Indicates the analyte was analyzed for but not detected.

Surrogate recovery exceeds control limits, low biased.

GC Semi VOA

Qualifier **Qualifier Description**

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

DFR Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

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

Decision Level Concentration (Radiochemistry) DLC

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

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

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Job ID: 890-3949-1 Project/Site: State FTG #001 SDG: 03D2057046

Job ID: 890-3949-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3949-1

Receipt

The samples were received on 1/24/2023 8:44 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: PH04 (890-3949-1) and PH04 (890-3949-2).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-45339 and analytical batch 880-45309 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (890-3944-A-1-G). 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

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: 890-3949-1

 Project/Site: State FTG #001
 SDG: 03D2057046

Client Sample ID: PH04 Lab Sample ID: 890-3949-1

Date Collected: 01/23/23 11:30 Matrix: Solid
Date Received: 01/24/23 08:44

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		02/03/23 09:50	02/03/23 18:14	1
Toluene	<0.00198	U	0.00198	mg/Kg		02/03/23 09:50	02/03/23 18:14	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		02/03/23 09:50	02/03/23 18:14	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		02/03/23 09:50	02/03/23 18:14	1
o-Xylene	0.00339		0.00198	mg/Kg		02/03/23 09:50	02/03/23 18:14	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		02/03/23 09:50	02/03/23 18:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130			02/03/23 09:50	02/03/23 18:14	1
1,4-Difluorobenzene (Surr)	71		70 - 130			02/03/23 09:50	02/03/23 18:14	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			02/04/23 10:12	1
Method: SW846 8015 NM - Diese	ol Pango Organ	ice (DPO) ((GC)					
		, ,,	GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	Result <50.0		RL 50.0	Unit mg/Kg	D	Prepared	Analyzed 02/05/23 09:31	Dil Fac
	<50.0	U	50.0		<u>D</u>	Prepared		
Total TPH	<50.0	U	50.0		<u>D</u> 	Prepared Prepared		1
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	<50.0	nics (DRO) Qualifier	50.0 (GC)	mg/Kg			02/05/23 09:31	1 Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<50.0 sel Range Orga Result	nics (DRO) Qualifier	50.0 (GC)	mg/Kg Unit		Prepared	02/05/23 09:31 Analyzed	Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	<50.0 sel Range Orga Result <50.0	nics (DRO) Qualifier U	50.0 (GC) RL 50.0	mg/Kg Unit mg/Kg		Prepared 02/03/23 09:29	02/05/23 09:31 Analyzed 02/04/23 23:09	Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<50.0 sel Range Orga Result <50.0 <50.0	nics (DRO) Qualifier U	50.0 (GC) RL 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/03/23 09:29 02/03/23 09:29	02/05/23 09:31 Analyzed 02/04/23 23:09 02/04/23 23:09	1 Dil Fac
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)	<50.0 sel Range Orga Result <50.0 <50.0 <50.0	Oualifier U	50.0 (GC) RL 50.0 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/03/23 09:29 02/03/23 09:29 02/03/23 09:29	02/05/23 09:31 Analyzed 02/04/23 23:09 02/04/23 23:09 02/04/23 23:09	Dil Fac
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	<50.0 sel Range Orga Result <50.0 <50.0 <50.0 %Recovery	Oualifier U	50.0 (GC) RL 50.0 50.0 50.0 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/03/23 09:29 02/03/23 09:29 02/03/23 09:29 Prepared	Analyzed 02/04/23 23:09 02/04/23 23:09 02/04/23 23:09 Analyzed	Dil Fac
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	<50.0 sel Range Orga Result <50.0 <50.0 <50.0 %Recovery 86 83	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 02/03/23 09:29 02/03/23 09:29 02/03/23 09:29 Prepared 02/03/23 09:29	02/05/23 09:31 Analyzed 02/04/23 23:09 02/04/23 23:09 02/04/23 23:09 Analyzed 02/04/23 23:09	Dil Fac
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	<50.0 sel Range Orga Result <50.0 <50.0 <50.0 %Recovery 86 83 a Chromatograp	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 02/03/23 09:29 02/03/23 09:29 02/03/23 09:29 Prepared 02/03/23 09:29	02/05/23 09:31 Analyzed 02/04/23 23:09 02/04/23 23:09 02/04/23 23:09 Analyzed 02/04/23 23:09	

Client Sample ID: PH04 Lab Sample ID: 890-3949-2

Date Collected: 01/23/23 11:35
Date Received: 01/24/23 08:44

Sample Depth: 1'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		02/03/23 09:50	02/03/23 18:34	1
Toluene	<0.00201	U	0.00201	mg/Kg		02/03/23 09:50	02/03/23 18:34	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		02/03/23 09:50	02/03/23 18:34	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		02/03/23 09:50	02/03/23 18:34	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		02/03/23 09:50	02/03/23 18:34	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		02/03/23 09:50	02/03/23 18:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			02/03/23 09:50	02/03/23 18:34	

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Matrix: Solid

2

3

5

10

12

13

Client Sample Results

 Client: Ensolum
 Job ID: 890-3949-1

 Project/Site: State FTG #001
 SDG: 03D2057046

Client Sample ID: PH04 Lab Sample ID: 890-3949-2

Date Collected: 01/23/23 11:35

Date Received: 01/24/23 08:44

Matrix: Solid

Sample Depth: 1'

Chloride

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	64	S1-	70 - 130			02/03/23 09:50	02/03/23 18:34	1
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			02/04/23 10:12	1
Method: SW846 8015 NM - Dies	el Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			02/05/23 09:31	1
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Method: SW846 8015B NM - Die	sel Range Orga	nics (DRO)	(GC)					
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/03/23 09:29	02/04/23 23:31	1
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		02/03/23 09:29	02/04/23 23:31	1
C10-C28)				99				•
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/03/23 09:29	02/04/23 23:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130			02/03/23 09:29	02/04/23 23:31	1
o-Terphenyl	93		70 - 130			02/03/23 09:29	02/04/23 23:31	1

4.95

mg/Kg

128

01/30/23 12:03

Surrogate Summary

 Client: Ensolum
 Job ID: 890-3949-1

 Project/Site: State FTG #001
 SDG: 03D2057046

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-3944-A-1-E MS	Matrix Spike	64 S1-	88	
890-3944-A-1-F MSD	Matrix Spike Duplicate	119	100	
890-3949-1	PH04	93	71	
890-3949-2	PH04	79	64 S1-	
LCS 880-45339/1-A	Lab Control Sample	98	95	
LCSD 880-45339/2-A	Lab Control Sample Dup	104	95	
MB 880-45339/5-A	Method Blank	75	93	

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

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

Matrix: Solid Prep Type: Total/NA

_			
		1001	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-3947-A-1-D MS	Matrix Spike	110	89
890-3947-A-1-E MSD	Matrix Spike Duplicate	123	97
890-3949-1	PH04	86	83
890-3949-2	PH04	98	93
LCS 880-45338/2-A	Lab Control Sample	115	99
LCSD 880-45338/3-A	Lab Control Sample Dup	114	98
MB 880-45338/1-A	Method Blank	109	108

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-3949-1 SDG: 03D2057046 Project/Site: State FTG #001

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-45339/5-A

Matrix: Solid

Analysis Batch: 45309

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 45339

1

	MB	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/03/23 09:50	02/03/23 12:24	•
Toluene	<0.00200	U	0.00200	mg/Kg		02/03/23 09:50	02/03/23 12:24	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/03/23 09:50	02/03/23 12:24	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/03/23 09:50	02/03/23 12:24	
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/03/23 09:50	02/03/23 12:24	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/03/23 09:50	02/03/23 12:24	

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		70 - 130	02/03/23 09:50	02/03/23 12:24	1
1,4-Difluorobenzene (Surr)	93		70 - 130	02/03/23 09:50	02/03/23 12:24	1

Lab Sample ID: LCS 880-45339/1-A

Matrix: Solid

Analysis Batch: 45309

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 45339

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1035		mg/Kg		103	70 - 130	
Toluene	0.100	0.09635		mg/Kg		96	70 - 130	
Ethylbenzene	0.100	0.09708		mg/Kg		97	70 - 130	
m-Xylene & p-Xylene	0.200	0.2017		mg/Kg		101	70 - 130	
o-Xylene	0.100	0.1095		mg/Kg		109	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	98	70 - 130
1,4-Difluorobenzene (Surr)	95	70 - 130

Lab Sample ID: LCSD 880-45339/2-A

Matrix: Solid

Analysis Batch: 45309

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 45339

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1043		mg/Kg		104	70 - 130	1	35
Toluene	0.100	0.09819		mg/Kg		98	70 - 130	2	35
Ethylbenzene	0.100	0.09855		mg/Kg		99	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2080		mg/Kg		104	70 - 130	3	35
o-Xylene	0.100	0.1070		mg/Kg		107	70 - 130	2	35

LCSD LCSD

Surrogate	%Recovery Qualif	ier Limits
4-Bromofluorobenzene (Surr)	104	70 - 130
1,4-Difluorobenzene (Surr)	95	70 - 130

Lab Sample ID: 890-3944-A-1-E MS

Matrix: Solid

Analysis Batch: 45309

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

Prep Batch: 45339

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.0996	0.06961		mg/Kg		70	70 - 130	
Toluene	<0.00200	U	0.0996	0.08014		mg/Kg		80	70 - 130	

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Prep Batch: 45339

QC Sample Results

Job ID: 890-3949-1 Client: Ensolum Project/Site: State FTG #001 SDG: 03D2057046

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

Lab Sample ID: 890-3944-A-1-E MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid Analysis Batch: 45309

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits D <0.00200 U 0.0996 0.07706 77 70 - 130 Ethylbenzene mg/Kg m-Xylene & p-Xylene < 0.00399 U F1 F2 0.199 0.1174 F1 mg/Kg 59 70 - 130 <0.00200 U F1 F2 0.0996 0.05641 F1 56 70 - 130 o-Xylene mg/Kg

MS MS %Recovery Surrogate Qualifier Limits 70 - 130 4-Bromofluorobenzene (Surr) 64 1,4-Difluorobenzene (Surr) 88 70 - 130

Lab Sample ID: 890-3944-A-1-F MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Prep Type: Total/NA Analysis Batch: 45309 Prep Batch: 45339

Sample Sample Spike MSD MSD RPD Result Qualifier %Rec RPD Limit Analyte babbA Result Qualifier Limits Unit Benzene <0.00200 U 0.100 0.09353 mg/Kg 93 70 - 130 29 35 Toluene <0.00200 0.100 0.09465 mg/Kg 94 70 - 130 17 35 Ethylbenzene <0.00200 0.100 0.1052 105 70 - 130 31 35 U mg/Kg m-Xylene & p-Xylene < 0.00399 U F1 F2 0.200 0.2304 F2 mg/Kg 115 70 - 130 65 35 <0.00200 U F1 F2 0.100 0.1150 F2 70 - 130 68 o-Xylene mg/Kg 114

MSD MSD Qualifier Limits Surrogate %Recovery 70 - 130 4-Bromofluorobenzene (Surr) 119 1,4-Difluorobenzene (Surr) 100 70 - 130

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

Lab Sample ID: MB 880-45338/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 45443

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		02/03/23 09:29	02/04/23 20:13	1
(GRO)-C6-C10 Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		02/03/23 09:29	02/04/23 20:13	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/03/23 09:29	02/04/23 20:13	1

MB MB %Recovery Dil Fac Qualifier Limits Prepared Analyzed Surrogate 70 - 130 1-Chlorooctane 109 02/03/23 09:29 02/04/23 20:13

108 70 - 130 02/03/23 09:29 02/04/23 20:13 o-Terphenyl

Lab Sample ID: LCS 880-45338/2-A Client Sample ID: Lab Control Sample

Matrix: Solid Prep Type: Total/NA Analysis Batch: 45443 Prep Batch: 45338

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	999	970.1		mg/Kg		97	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	999	939.7		mg/Kg		94	70 - 130	
C10-C28)								

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Prep Batch: 45338

Job ID: 890-3949-1 Client: Ensolum Project/Site: State FTG #001 SDG: 03D2057046

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

LCS LCS

Lab Sample ID: LCS 880-45338/2-A Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 45443

Prep Type: Total/NA

Prep Batch: 45338

Prep Type: Total/NA

Prep Batch: 45338

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 115 70 - 130 o-Terphenyl 99 70 - 130

Lab Sample ID: LCSD 880-45338/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Prep Type: Total/NA Analysis Batch: 45443 Prep Batch: 45338

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 999 874.8 88 70 - 13010 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 999 931.5 93 mg/Kg 70 - 13020

LCSD LCSD

Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 114 70 - 130 o-Terphenyl 98

Lab Sample ID: 890-3947-A-1-D MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 45443

Diesel Range Organics (Over

C10-C28)

Sample Sample MS MS Spike Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics <50.0 U 1000 869.5 mg/Kg 83 70 - 130 (GRO)-C6-C10

872.5

mg/Kg

87

70 - 130

1000

C10-C28)

MS MS

%Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 110 o-Terphenyl 89 70 - 130

<50.0 U

Lab Sample ID: 890-3947-A-1-E MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Prep Type: Total/NA

Analysis Batch: 45443 Prep Batch: 45338 Sample Sample MSD MSD RPD Spike %Rec

Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit U 998 961.8 93 Gasoline Range Organics <50.0 mg/Kg 70 - 130 10 20 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 998 952.2 mg/Kg 95 70 - 130 20

C10-C28)

MSD MSD

%Recovery Qualifier Surrogate Limits 1-Chlorooctane 123 70 - 130 97 70 - 130 o-Terphenyl

Job ID: 890-3949-1

SDG: 03D2057046

Prep Type: Soluble

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-44970/1-A

Matrix: Solid

Analysis Batch: 45040

Project/Site: State FTG #001

Client: Ensolum

MB MB

 Analyte
 Result Chloride
 Qualifier
 RL Unit
 Unit mg/Kg
 D mg/Kg
 Prepared Prepared 01/30/23 09:16
 Dil Fac 01/30/23 09:16

Lab Sample ID: LCS 880-44970/2-A

Matrix: Solid

Analysis Batch: 45040

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 253.2 mg/Kg 101 90 - 110

Lab Sample ID: LCSD 880-44970/3-A

Matrix: Solid

Analysis Batch: 45040

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 253.6 mg/Kg 101 90 - 110

Lab Sample ID: 890-3946-A-2-B MS

Matrix: Solid

Analysis Batch: 45040

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added Qualifier %Rec Result Unit Limits Chloride 59.9 248 291.0 90 - 110 mg/Kg

Lab Sample ID: 890-3946-A-2-C MSD

Matrix: Solid

Analysis Batch: 45040

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 248 59.9 291.2 mg/Kg 93 90 - 110 0 20

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QC Association Summary

 Client: Ensolum
 Job ID: 890-3949-1

 Project/Site: State FTG #001
 SDG: 03D2057046

GC VOA

Analysis Batch: 45309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3949-1	PH04	Total/NA	Solid	8021B	45339
890-3949-2	PH04	Total/NA	Solid	8021B	45339
MB 880-45339/5-A	Method Blank	Total/NA	Solid	8021B	45339
LCS 880-45339/1-A	Lab Control Sample	Total/NA	Solid	8021B	45339
LCSD 880-45339/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	45339
890-3944-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	45339
890-3944-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	45339

Prep Batch: 45339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3949-1	PH04	Total/NA	Solid	5035	
890-3949-2	PH04	Total/NA	Solid	5035	
MB 880-45339/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-45339/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-45339/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3944-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
890-3944-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 45468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3949-1	PH04	Total/NA	Solid	Total BTEX	
890-3949-2	PH04	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 45338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3949-1	PH04	Total/NA	Solid	8015NM Prep	
890-3949-2	PH04	Total/NA	Solid	8015NM Prep	
MB 880-45338/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-45338/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-45338/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3947-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3947-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 45443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3949-1	PH04	Total/NA	Solid	8015B NM	45338
890-3949-2	PH04	Total/NA	Solid	8015B NM	45338
MB 880-45338/1-A	Method Blank	Total/NA	Solid	8015B NM	45338
LCS 880-45338/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	45338
LCSD 880-45338/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	45338
890-3947-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	45338
890-3947-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	45338

Analysis Batch: 45504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3949-1	PH04	Total/NA	Solid	8015 NM	
890-3949-2	PH04	Total/NA	Solid	8015 NM	

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QC Association Summary

 Client: Ensolum
 Job ID: 890-3949-1

 Project/Site: State FTG #001
 SDG: 03D2057046

HPLC/IC

Leach Batch: 44970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3949-1	PH04	Soluble	Solid	DI Leach	
890-3949-2	PH04	Soluble	Solid	DI Leach	
MB 880-44970/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-44970/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-44970/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3946-A-2-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-3946-A-2-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 45040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3949-1	PH04	Soluble	Solid	300.0	44970
890-3949-2	PH04	Soluble	Solid	300.0	44970
MB 880-44970/1-A	Method Blank	Soluble	Solid	300.0	44970
LCS 880-44970/2-A	Lab Control Sample	Soluble	Solid	300.0	44970
LCSD 880-44970/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	44970
890-3946-A-2-B MS	Matrix Spike	Soluble	Solid	300.0	44970
890-3946-A-2-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	44970

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Date Received: 01/24/23 08:44

Client: Ensolum Job ID: 890-3949-1 Project/Site: State FTG #001 SDG: 03D2057046

Client Sample ID: PH04

Lab Sample ID: 890-3949-1 Date Collected: 01/23/23 11:30

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 Total/NA Prep 5.05 g 5 mL 45339 02/03/23 09:50 MNR EET MID 8021B Total/NA Analysis 1 5 mL 5 mL 45309 02/03/23 18:14 MNR **EET MID** Total/NA Analysis Total BTEX 45468 02/04/23 10:12 ΑJ EET MID Total/NA 8015 NM 45504 02/05/23 09:31 **EET MID** Analysis 1 ΑJ Total/NA 8015NM Prep 45338 02/03/23 09:29 EET MID Prep 10.01 g 10 mL DM Total/NA Analysis 8015B NM 1 uL 1 uL 45443 02/04/23 23:09 ΑJ **EET MID** Soluble DI Leach 5.05 g 50 mL 44970 01/29/23 17:45 KS Leach **EET MID** Soluble Analysis 300.0 45040 01/30/23 11:57 СН **EET MID**

Client Sample ID: PH04 Lab Sample ID: 890-3949-2

Date Collected: 01/23/23 11:35 **Matrix: Solid**

Date Received: 01/24/23 08:44

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	45339	02/03/23 09:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45309	02/03/23 18:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			45468	02/04/23 10:12	AJ	EET MID
Total/NA	Analysis	8015 NM		1			45504	02/05/23 09:31	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	45338	02/03/23 09:29	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45443	02/04/23 23:31	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	44970	01/29/23 17:45	KS	EET MID
Soluble	Analysis	300.0		1			45040	01/30/23 12:03	CH	EET MID

Laboratory References:

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

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Accreditation/Certification Summary

Client: Ensolum Job ID: 890-3949-1 Project/Site: State FTG #001 SDG: 03D2057046

Laboratory: Eurofins Midland

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

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

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

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

Method Summary

 Client: Ensolum
 Job ID: 890-3949-1

 Project/Site: State FTG #001
 SDG: 03D2057046

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: State FTG #001

Job ID: 890-3949-1

SDG: 03D2057046

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3949-1	PH04	Solid	01/23/23 11:30	01/24/23 08:44	0.5'
890-3949-2	PH04	Solid	01/23/23 11:35	01/24/23 08:44	1'

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Environment Testing

Xenco

Chain of Custody

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

Work	Order No:	

																				www	xenco.	.com	Page _	_+	_ of	
Project Manager:	Kalei	Jennings			Bill to: (if	Kalei Jennings						Work Order Comments														
Company Name:					Company Name			e:	Ensolum, LLC					Program: UST/PST PRP Brownfields RRC Superfund												
Address:	601 N Marienfeld St Suite 400					Address	s: 601 N Marienfeld St Suite 400				State of Project:															
City, State ZIP:	tate ZIP: Midland, TX 79701				City, State				Midland, TX 79701					Reporting: Level II Level III PST/UST TRRP Level IV												
Phone:	817.683.2503				Email:	Email: kjennings@ensolum				n.com							Deliverables: EDD ☐ ADaPT ☐ Other:									
			Turn Around				ANALYSIS RE						EQI	QUEST						Preservative Codes						
		03D2057046			☑ Routine	Rush		Pres.								None: NO DI Water: H ₂ O										
Project Location:				Due Date:			Code					11										Cool: Cool	1	MeOH: M	le	
Sampler's Name:	Conner Shore		TAT starts the day received		ived by									-				HCL: HC HNO3: HN								
PO#:			the lab, if re	ceived by 4:30pm		neters											'		H₂S0₄: H₂ NaOH: Na		a					
SAMPLE RECE	IPT Temp		T Temp Blank: Yes No		Wet Ice: Yes No						11						- 1		H₃PO₄: HP							
Samples Received I			Thermomet	er ID:	TNM-007		aran								Ш				1	NaHSO₄; NABIS						
Cooler Custody Sea				*D. 2		ď													Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaOH: Zn							
Sample Custody Se				4.2					5		89	890-3949 Chain of Custody			dv			NaOH+Aso			C					
Total Containers:				Corrected 1	emperature:	1 4			(8015)	des	(80		- 1	1	- 1	1				1	1		114017-7150	0.01074	010. 07.11	
Sample Identif		ion	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	1	I	Chlorides	BTEX (8021)												Sam	ole Co	mments	\$
PHO)4		S	1.23.23	1130	0.5'	G	1	х	х	x								_							
PHO)4		S	1.23.23	1135	1'	G	1	х	х	x					_			_							
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Total 200.7 / 6	010	200.8 / 6	020:	8	BRCRA 13															Se						
Circle Method(s) a	nd Me	tal(s) to b	e analy	zed	TCLP / S	PLP 601	10: 8R	CRA	Sb A	s Ba	Be (Cd Cr	Co C	u Pb	Mn M	o N	ı Se	Ag	I U		Hg: 1	031/2	245.1 / 74	10 / /2	+/ 1	

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 tosses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
10	Q4 11 0 MONTON 01 194128	0830	2		
3	La Steet	1-24-23 084	4		
5			6		Revised Date: 08/25/2020 Rev. 2020 2

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-3949-1 SDG Number: 03D2057046

Login Number: 3949 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: 890-3949-1

 SDG Number: 03D2057046

List Source: Eurofins Midland List Creation: 01/25/23 12:13 PM

Creator: Rodriguez, Leticia

Login Number: 3949

List Number: 2

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

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<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kalei Jennings Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701

Generated 2/5/2023 9:36:15 AM

JOB DESCRIPTION

State FTG #001 SDG NUMBER 03D2057046

JOB NUMBER

890-3950-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

Authorization

Generated 2/5/2023 9:36:15 AM

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

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

2/5/2023

Client: Ensolum
Project/Site: State FTG #001
Laboratory Job ID: 890-3950-1
SDG: 03D2057046

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Definitions/Glossary

Job ID: 890-3950-1 Client: Ensolum Project/Site: State FTG #001

SDG: 03D2057046

Qualifiers

GC VOA

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

S1-Surrogate recovery exceeds control limits, low biased.

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

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

DFR Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

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

Decision Level Concentration (Radiochemistry) DLC

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

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

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Job ID: 890-3950-1 Project/Site: State FTG #001 SDG: 03D2057046

Job ID: 890-3950-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3950-1

Receipt

The samples were received on 1/24/2023 8:44 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: PH03 (890-3950-1) and PH03 (890-3950-2).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-45339 and analytical batch 880-45309 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (890-3944-A-1-G). 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

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.

Matrix: Solid

Lab Sample ID: 890-3950-1

Job ID: 890-3950-1

Client: Ensolum Project/Site: State FTG #001 SDG: 03D2057046

Client Sample ID: PH03

Date Collected: 01/23/23 11:40 Date Received: 01/24/23 08:44

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/03/23 09:50	02/03/23 18:55	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/03/23 09:50	02/03/23 18:55	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/03/23 09:50	02/03/23 18:55	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		02/03/23 09:50	02/03/23 18:55	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/03/23 09:50	02/03/23 18:55	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		02/03/23 09:50	02/03/23 18:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130			02/03/23 09:50	02/03/23 18:55	1
1,4-Difluorobenzene (Surr)	81		70 - 130			02/03/23 09:50	02/03/23 18:55	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mathed, CWOAC GOAE NM. Diego								
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)					
	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
		Qualifier	•	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 02/05/23 09:31	
Analyte Total TPH	Result <49.9	Qualifier U	RL 49.9		<u>D</u>	Prepared		
Analyte Total TPH Method: SW846 8015B NM - Dies	Result <49.9 sel Range Orga Result	Qualifier Unics (DRO) Qualifier	RL 49.9		<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result <49.9 sel Range Orga	Qualifier Unics (DRO) Qualifier	RL 49.9 (GC)	mg/Kg			02/05/23 09:31	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U	RL 49.9 (GC)	mg/Kg		Prepared	02/05/23 09:31 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9 sel Range Orga Result <49.9	Qualifier U nics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9	mg/Kg Unit mg/Kg		Prepared 02/03/23 09:29	02/05/23 09:31 Analyzed 02/04/23 23:53	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 <49.9	Qualifier U nics (DRO) Qualifier U U	RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg		Prepared 02/03/23 09:29 02/03/23 09:29	02/05/23 09:31 Analyzed 02/04/23 23:53 02/04/23 23:53	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier U nics (DRO) Qualifier U U	RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg		Prepared 02/03/23 09:29 02/03/23 09:29 02/03/23 09:29	02/05/23 09:31 Analyzed 02/04/23 23:53 02/04/23 23:53	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 <49.9	Qualifier U nics (DRO) Qualifier U U	RL 49.9 (GC) RL 49.9 49.9 49.9	mg/Kg Unit mg/Kg		Prepared 02/03/23 09:29 02/03/23 09:29 02/03/23 09:29 Prepared	02/05/23 09:31 Analyzed 02/04/23 23:53 02/04/23 23:53 02/04/23 23:53 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <49.9	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg		Prepared 02/03/23 09:29 02/03/23 09:29 02/03/23 09:29 Prepared 02/03/23 09:29	02/05/23 09:31 Analyzed 02/04/23 23:53 02/04/23 23:53 Analyzed 02/04/23 23:53	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg		Prepared 02/03/23 09:29 02/03/23 09:29 02/03/23 09:29 Prepared 02/03/23 09:29	02/05/23 09:31 Analyzed 02/04/23 23:53 02/04/23 23:53 Analyzed 02/04/23 23:53	Dil Fac Dil Fac Dil Fac Dil Fac Dil Fac

Client Sample ID: PH03 Lab Sample ID: 890-3950-2 Matrix: Solid

Date Collected: 01/23/23 11:45 Date Received: 01/24/23 08:44

Sample Depth: 1'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/03/23 09:50	02/03/23 19:15	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/03/23 09:50	02/03/23 19:15	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/03/23 09:50	02/03/23 19:15	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		02/03/23 09:50	02/03/23 19:15	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		02/03/23 09:50	02/03/23 19:15	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/03/23 09:50	02/03/23 19:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			02/03/23 09:50	02/03/23 19:15	1

Client Sample Results

 Client: Ensolum
 Job ID: 890-3950-1

 Project/Site: State FTG #001
 SDG: 03D2057046

Client Sample ID: PH03 Lab Sample ID: 890-3950-2

Date Collected: 01/23/23 11:45

Date Received: 01/24/23 08:44

Matrix: Solid

Sample Depth: 1'

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1,4-Difluorobenzene (Surr)	85		70 - 130			02/03/23 09:50	02/03/23 19:15	
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/04/23 10:12	
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<49.9	U	49.9	mg/Kg			02/05/23 09:31	
Gasoline Range Organics (GRO)-C6-C10	<49.9		49.9	mg/Kg	=	02/03/23 09:29	02/05/23 00:14	Біі Га
Method: SW846 8015B NM - Dies	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fa
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		02/03/23 09:29	02/05/23 00:14	
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/03/23 09:29	02/05/23 00:14	
3 - 3 (10.0			5 5				
,	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
Surrogate		Qualifier	Limits 70 - 130			Prepared 02/03/23 09:29	Analyzed 02/05/23 00:14	Dil Fa
Surrogate 1-Chlorooctane	%Recovery	Qualifier						Dil Fa
Surrogate 1-Chlorooctane o-Terphenyl	%Recovery 102 95		70 - 130 70 - 130			02/03/23 09:29	02/05/23 00:14	Dil Fa
Surrogate 1-Chlorooctane o-Terphenyl Method: EPA 300.0 - Anions, Ion Analyte	%Recovery 102 95 Chromatograp		70 - 130 70 - 130	Unit	D	02/03/23 09:29	02/05/23 00:14	Dil Fa

Surrogate Summary

Job ID: 890-3950-1 Client: Ensolum Project/Site: State FTG #001 SDG: 03D2057046

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

_				Percent Surrogate Re
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-3944-A-1-E MS	Matrix Spike	64 S1-	88	
890-3944-A-1-F MSD	Matrix Spike Duplicate	119	100	
890-3950-1	PH03	79	81	
890-3950-2	PH03	107	85	
LCS 880-45339/1-A	Lab Control Sample	98	95	
LCSD 880-45339/2-A	Lab Control Sample Dup	104	95	
MB 880-45339/5-A	Method Blank	75	93	
Surrogate Legend				

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

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

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

_			
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-3947-A-1-D MS	Matrix Spike	110	89
890-3947-A-1-E MSD	Matrix Spike Duplicate	123	97
890-3950-1	PH03	86	83
890-3950-2	PH03	102	95
LCS 880-45338/2-A	Lab Control Sample	115	99
LCSD 880-45338/3-A	Lab Control Sample Dup	114	98
MB 880-45338/1-A	Method Blank	109	108

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-3950-1 SDG: 03D2057046 Project/Site: State FTG #001

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-45339/5-A

Matrix: Solid Analysis Batch: 45309 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 45339

ИB	MB			

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/03/23 09:50	02/03/23 12:24	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/03/23 09:50	02/03/23 12:24	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/03/23 09:50	02/03/23 12:24	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/03/23 09:50	02/03/23 12:24	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/03/23 09:50	02/03/23 12:24	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/03/23 09:50	02/03/23 12:24	1

мв мв

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75	70 - 130	02/03/23 09:5	02/03/23 12:24	1
1,4-Difluorobenzene (Surr)	93	70 - 130	02/03/23 09:5	02/03/23 12:24	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 45339

Lab Sample ID: LCS 880-45339/1-A Matrix: Solid

Analysis Batch: 45309

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1035		mg/Kg		103	70 - 130	
Toluene	0.100	0.09635		mg/Kg		96	70 - 130	
Ethylbenzene	0.100	0.09708		mg/Kg		97	70 - 130	
m-Xylene & p-Xylene	0.200	0.2017		mg/Kg		101	70 - 130	
o-Xylene	0.100	0.1095		mg/Kg		109	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifie	r Limits
4-Bromofluorobenzene (Surr)	98	70 - 130
1,4-Difluorobenzene (Surr)	95	70 - 130

Lab Sample ID: LCSD 880-45339/2-A

Matrix: Solid

Analysis Batch: 45309

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

Prep Batch: 45339

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1043		mg/Kg		104	70 - 130	1	35	
Toluene	0.100	0.09819		mg/Kg		98	70 - 130	2	35	
Ethylbenzene	0.100	0.09855		mg/Kg		99	70 - 130	2	35	
m-Xylene & p-Xylene	0.200	0.2080		mg/Kg		104	70 - 130	3	35	
o-Xylene	0.100	0.1070		mg/Kg		107	70 - 130	2	35	

LCSD LCSD

Surrogate	%Recovery (Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 890-3944-A-1-E MS

Matrix: Solid

Analysis Batch: 45309

Client San	nple ID: Matrix Spike
	Prep Type: Total/NA

Prep Batch: 45339

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.0996	0.06961		mg/Kg		70	70 - 130	
Toluene	<0.00200	U	0.0996	0.08014		mg/Kg		80	70 - 130	

Prep Batch: 45339

Prep Type: Total/NA

QC Sample Results

Job ID: 890-3950-1 Client: Ensolum Project/Site: State FTG #001 SDG: 03D2057046

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

Lab Sample ID: 890-3944-A-1-E MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid Analysis Batch: 45309

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits D <0.00200 U 0.0996 0.07706 77 70 - 130 Ethylbenzene mg/Kg m-Xylene & p-Xylene <0.00399 U F1 F2 0.199 0.1174 F1 mg/Kg 59 70 - 130 <0.00200 U F1 F2 0.0996 0.05641 F1 56 70 - 130 o-Xylene mg/Kg

MS MS %Recovery Qualifier Surrogate Limits 70 - 130 4-Bromofluorobenzene (Surr) 64 1,4-Difluorobenzene (Surr) 88 70 - 130

Lab Sample ID: 890-3944-A-1-F MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid **Analysis Batch: 45309**

Analysis Batch: 45309									Prep	Batch:	45339
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.100	0.09353		mg/Kg		93	70 - 130	29	35
Toluene	<0.00200	U	0.100	0.09465		mg/Kg		94	70 - 130	17	35
Ethylbenzene	<0.00200	U	0.100	0.1052		mg/Kg		105	70 - 130	31	35
m-Xylene & p-Xylene	<0.00399	U F1 F2	0.200	0.2304	F2	mg/Kg		115	70 - 130	65	35
o-Xylene	<0.00200	U F1 F2	0.100	0.1150	F2	mg/Kg		114	70 - 130	68	35

MSD MSD Qualifier Surrogate Limits %Recovery 70 - 130 4-Bromofluorobenzene (Surr) 119 1,4-Difluorobenzene (Surr) 100 70 - 130

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

Lab Sample ID: MB 880-45338/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA Prep Batch: 45338

Analysis Batch: 45443

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		02/03/23 09:29	02/04/23 20:13	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		02/03/23 09:29	02/04/23 20:13	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/03/23 09:29	02/04/23 20:13	1

MB MB %Recovery Qualifier Limits Prepared Analyzed Dil Fac Surrogate 02/03/23 09:29 1-Chlorooctane 109 70 - 130 02/04/23 20:13 108 70 - 130 02/03/23 09:29 02/04/23 20:13 o-Terphenyl

Lab Sample ID: LCS 880-45338/2-A Client Sample ID: Lab Control Sample

Analysis Batch: 45443

Matrix: Solid

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits 999 97 970 1 70 _ 130 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 999 939.7 mg/Kg 94 70 - 130 C10-C28)

Eurofins Carlsbad

Prep Type: Total/NA

Prep Batch: 45338

Job ID: 890-3950-1

Client: Ensolum Project/Site: State FTG #001 SDG: 03D2057046

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

Lab Sample ID: LCS 880-45338/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Analysis Batch: 45443

Prep Type: Total/NA Prep Batch: 45338

LCS LCS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 115 70 - 130 o-Terphenyl 99 70 - 130

Lab Sample ID: LCSD 880-45338/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 45443

Prep Type: Total/NA Prep Batch: 45338

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 999 874.8 88 70 - 13010 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 999 931.5 93 mg/Kg 70 - 13020 C10-C28)

LCSD LCSD Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 114 70 - 130 o-Terphenyl 98

Lab Sample ID: 890-3947-A-1-D MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 45443

Sample Sample MS MS Spike Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics <50.0 U 1000 869.5 mg/Kg 83 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 1000 872.5 mg/Kg 87 70 - 130

C10-C28)

MS MS %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 110 o-Terphenyl 89 70 - 130

Lab Sample ID: 890-3947-A-1-E MSD Client Sample ID: Matrix Spike Duplicate

Analysis Batch: 45443

Matrix: Solid Prep Type: Total/NA

Prep Batch: 45338 RPD %Rec

Prep Type: Total/NA

Prep Batch: 45338

Sample Sample MSD MSD Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit U 998 961.8 93 Gasoline Range Organics <50.0 mg/Kg 70 - 130 10 20 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 998 952.2 mg/Kg 95 70 - 130 20 C10-C28)

MSD MSD %Recovery Qualifier Surrogate Limits 1-Chlorooctane 123 70 - 130 97 70 - 130 o-Terphenyl

Dil Fac

QC Sample Results

Job ID: 890-3950-1 Client: Ensolum Project/Site: State FTG #001 SDG: 03D2057046

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-44970/1-A

Matrix: Solid

Lab Sample ID: LCS 880-44970/2-A

Analysis Batch: 45040

мв мв Analyte

Chloride <5.00 U

Result Qualifier

RL 5.00 Unit mg/Kg

D Prepared

Analyzed

01/30/23 09:16

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample **Prep Type: Soluble**

%Rec

Limits

Prep Type: Soluble

Analysis Batch: 45040

Spike LCS LCS Added Analyte Result

250

Sample Sample

Qualifier

Result

59.9

253.2

Qualifier

Qualifier

Qualifier

Qualifier

LCSD LCSD

MS MS

MSD MSD

Result

291.2

Result

253.6

Result

291.0

Unit mg/Kg

Unit

Unit

mg/Kg

mg/Kg

mg/Kg

D %Rec 101

%Rec

93

90 - 110

Lab Sample ID: LCSD 880-44970/3-A **Matrix: Solid**

Spike

Added

250

Spike

Added

248

Spike

Added

248

Chloride

Matrix: Solid

Analysis Batch: 45040

Analyte Chloride

Lab Sample ID: 890-3946-A-2-B MS

Matrix: Solid

Analysis Batch: 45040

Analyte

Chloride

Lab Sample ID: 890-3946-A-2-C MSD **Matrix: Solid**

Analysis Batch: 45040

Sample Sample Analyte Result Qualifier Chloride 59.9

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

%Rec RPD %Rec Limits RPD Limit 101 90 - 110

Client Sample ID: Matrix Spike

Prep Type: Soluble

90 - 110

%Rec

Limits

Client Sample ID: Matrix Spike Duplicate **Prep Type: Soluble**

90 - 110

0

20

%Rec RPD Unit %Rec Limits RPD Limit

QC Association Summary

Client: Ensolum Job ID: 890-3950-1 Project/Site: State FTG #001 SDG: 03D2057046

GC VOA

Analysis Batch: 45309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3950-1	PH03	Total/NA	Solid	8021B	45339
890-3950-2	PH03	Total/NA	Solid	8021B	45339
MB 880-45339/5-A	Method Blank	Total/NA	Solid	8021B	45339
LCS 880-45339/1-A	Lab Control Sample	Total/NA	Solid	8021B	45339
LCSD 880-45339/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	45339
890-3944-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	45339
890-3944-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	45339

Prep Batch: 45339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3950-1	PH03	Total/NA	Solid	5035	
890-3950-2	PH03	Total/NA	Solid	5035	
MB 880-45339/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-45339/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-45339/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3944-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
890-3944-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 45469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3950-1	PH03	Total/NA	Solid	Total BTEX	
890-3950-2	PH03	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 45338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3950-1	PH03	Total/NA	Solid	8015NM Prep	
890-3950-2	PH03	Total/NA	Solid	8015NM Prep	
MB 880-45338/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-45338/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-45338/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3947-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3947-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 45443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3950-1	PH03	Total/NA	Solid	8015B NM	45338
890-3950-2	PH03	Total/NA	Solid	8015B NM	45338
MB 880-45338/1-A	Method Blank	Total/NA	Solid	8015B NM	45338
LCS 880-45338/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	45338
LCSD 880-45338/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	45338
890-3947-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	45338
890-3947-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	45338

Analysis Batch: 45505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3950-1	PH03	Total/NA	Solid	8015 NM	
890-3950-2	PH03	Total/NA	Solid	8015 NM	

QC Association Summary

 Client: Ensolum
 Job ID: 890-3950-1

 Project/Site: State FTG #001
 SDG: 03D2057046

HPLC/IC

Leach Batch: 44970

Lab Sample ID 890-3950-1	Client Sample ID PH03	Prep Type Soluble	Matrix Solid	Method DI Leach	Prep Batch
890-3950-2	PH03	Soluble	Solid	DI Leach	
MB 880-44970/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-44970/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-44970/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3946-A-2-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-3946-A-2-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 45040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3950-1	PH03	Soluble	Solid	300.0	44970
890-3950-2	PH03	Soluble	Solid	300.0	44970
MB 880-44970/1-A	Method Blank	Soluble	Solid	300.0	44970
LCS 880-44970/2-A	Lab Control Sample	Soluble	Solid	300.0	44970
LCSD 880-44970/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	44970
890-3946-A-2-B MS	Matrix Spike	Soluble	Solid	300.0	44970
890-3946-A-2-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	44970

3

5

7

9

10

12

14

Job ID: 890-3950-1

Client: Ensolum Project/Site: State FTG #001 SDG: 03D2057046 **Client Sample ID: PH03** Lab Sample ID: 890-3950-1

Date Collected: 01/23/23 11:40 Matrix: Solid Date Received: 01/24/23 08:44

	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	45339	02/03/23 09:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45309	02/03/23 18:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			45469	02/04/23 10:12	AJ	EET MID
Total/NA	Analysis	8015 NM		1			45505	02/05/23 09:31	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	45338	02/03/23 09:29	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45443	02/04/23 23:53	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	44970	01/29/23 17:45	KS	EET MID
Soluble	Analysis	300.0		1			45040	01/30/23 12:09	CH	EET MID

Client Sample ID: PH03 Lab Sample ID: 890-3950-2 Date Collected: 01/23/23 11:45 Matrix: Solid

Date Received: 01/24/23 08:44

	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	45339	02/03/23 09:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45309	02/03/23 19:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			45469	02/04/23 10:12	AJ	EET MID
Total/NA	Analysis	8015 NM		1			45505	02/05/23 09:31	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	45338	02/03/23 09:29	DM	EET MIC
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45443	02/05/23 00:14	AJ	EET MIC
Soluble	Leach	DI Leach			5 g	50 mL	44970	01/29/23 17:45	KS	EET MIC
Soluble	Analysis	300.0		1			45040	01/30/23 12:15	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: 890-3950-1

 Project/Site: State FTG #001
 SDG: 03D2057046

shovetowy Eurofine Midland

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	
exas		ELAP	T104704400-22-25	06-30-23	
The following analytes the agency does not of		it the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes fo	
Analysis Method	Doors Made and	Matrix			
/ triary 515 TVICTIOG	Prep Method	Maurx	Analyte		
8015 NM	Ргер метпоа	Solid	Analyte Total TPH		

0

10

11

13

14

Method Summary

Client: Ensolum Job ID: 890-3950-1 Project/Site: State FTG #001

SDG: 03D2057046

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum

Project/Site: State FTG #001

Job ID: 890-3950-1

SDG: 03D2057046

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Dep
890-3950-1	PH03	Solid	01/23/23 11:40	01/24/23 08:44	0.5'
890-3950-2	PH03	Solid	01/23/23 11:45	01/24/23 08:44	1'

Page 19 of 21

Environment Testing

Xenco

Chain of Custody

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

Work Order No:		

																			www.	xenco.	com	Page	+ 0	t
Project Manager:	Kalei .	Jennings				Bill to: (if	differen	t)	Kalei .	Jennin	gs								W	ork Ord	der Co	omments		
Company Name:	Ensolu	ım, LLC				Compan	y Name):	Ensol	um, Ll	.C					_ P	rogram:	UST/PS	T 🗌 P	RP B	3rown f	fields 🗌 RR	C 🗌 Sı	perfund 🗌
Address:	601 N	Marienfe	ld St S	uite 400		Address	:		601 N	Marie	nfeld S	St Suite	400			1 1	tate of P	_					_	
City, State ZIP:	Midlar	nd, TX 79	701			City, Sta	te ZIP:		Midlar	nd, TX	79701								_			UST TR	RP [Level IV
Phone:	817.68	33.2503			Email:	kjenning	gs@en	solum	.com								eliverabl	es: EDD		A	DaPT	□ Oth	ier:	
Project Name:	I	State I	FTG #0	01	Turr	Around								ANAL	YSIS F	REQU	EST					Preser	vative (odes
Project Number:			205704		☑ Routine	☐ Rush	1	Pres.													٨	None: NO	DI V	Vater: H₂O
Project Location:		Lea Co	ounty, N	JM	Due Date:																c	Cool: Cool	Me	DH: Me
Sampler's Name:		Conn	er Shor	re	TAT starts th								1	į								HCL: HC		D ₃ : HN
PO #:					the lab, if red		1:30pm	2					1	1	1						1	H ₂ S0 ₄ : H ₂	Na()H: Na
SAMPLE RECEI	PT	Temp B		(Yes No	Wet Ice:	Xes	No	met					- 1			 	 	A Bit ian			- 1	H₃PO₄: HP	D10	
Samples Received I				Thermomet		Tom		20					- //									NaHSO₄: NA Na₂S₂O₃: Na		
Cooler Custody Seal		Yes No	-	Correction F		1 1/	E.	0.					- 11											
Sample Custody Sea	als:	Yes No		Temperatur		4	. 2				=		89	0-3950	Chain							Zn Acetate+I		
Total Containers:	1			Corrected T	emperature:	14	0		015	les	802				Criain	of Cus	stody					NaOH+Asco	DIC ACIO	SAPC
Sample Ider	ntification	on	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	TPH (8015)	Chlorides	BTEX (8021)											Sampl	e Comn	nents
PHO)3		S	1.23.23	1140	0.5'	G	1	х	х	x													1
PHO)3		s	1.23.23	1145	1'	G	1	х	X	x										\dashv			
																						Incid	ent Nun	nber
					23	-																NAPP	223394	7938
				123	-0)											_					\rightarrow			
		\times	1	and the second																	\rightarrow			
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							<u> </u>																	
Total 200.7 / 60	010	200.8 / 6	020:	8	RCRA 13F)
Circle Method(s) a	nd Met	al(s) to be	e analy	zed	TCLP / S	PLP 60	10: 8R	CRA	Sb A	s Ba	Be C	Cd Cr	Co C	u Pb	Mn N	10 Ni	Se Ag	TIU		Hg: 16	331 / 2	245.1 / 7470	7471	

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
10	1 ABUUNNAA 01/23/24/Q	10830	2		
3	Ana salastut	1-24-23 D84	4		
5			6		

Login Sample Receipt Checklist

 Client: Ensolum
 Job Number: 890-3950-1

 SDG Number: 03D2057046

Login Number: 3950 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	

2

3

4

6

8

10

13

14

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-3950-1

SDG Number: 03D2057046

Login Number: 3950 **List Source: Eurofins Midland** List Number: 2 List Creation: 01/25/23 12:13 PM

Creator: Rodriguez, Leticia

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

<6mm (1/4").



July 19, 2023

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: STATE FTG

Enclosed are the results of analyses for samples received by the laboratory on 07/18/23 14:02.

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: 07/18/2023 Sampling Date: 07/18/2023
Reported: 07/19/2023 Sampling Type: Soil

Project Name: STATE FTG Sampling Condition: Cool & Intact
Project Number: 03D2057088 Sample Received By: Shalyn Rodriguez

Project Location: MAVERICK 32.79316,-103.61882

Sample ID: FS 09 A @ 3' (H233724-01)

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	07/18/2023	ND	2.01	101	2.00	2.04	
Toluene*	<0.050	0.050	07/18/2023	ND	1.99	99.6	2.00	1.65	
Ethylbenzene*	<0.050	0.050	07/18/2023	ND	1.96	98.2	2.00	2.22	
Total Xylenes*	<0.150	0.150	07/18/2023	ND	5.84	97.3	6.00	2.61	
Total BTEX	<0.300	0.300	07/18/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/19/2023	ND	432	108	400	0.00	
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	07/19/2023	ND	206	103	200	7.39	
DRO >C10-C28*	<10.0	10.0	07/19/2023	ND	205	103	200	7.17	
EXT DRO >C28-C36	<10.0	10.0	07/19/2023	ND					
Surrogate: 1-Chlorooctane	79.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.1	% 49.1-14	8						

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Celey & Keene



Analytical Results For:

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

Received: 07/18/2023 Sampling Date: 07/18/2023

Reported: 07/19/2023 Sampling Type: Soil

Project Name: Sampling Condition: Cool & Intact STATE FTG Sample Received By: Shalyn Rodriguez Project Number: 03D2057088

Project Location: MAVERICK 32.79316,-103.61882

Sample ID: FS 10 A @ 3' (H233724-02)

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	07/18/2023	ND	2.01	101	2.00	2.04	
Toluene*	<0.050	0.050	07/18/2023	ND	1.99	99.6	2.00	1.65	
Ethylbenzene*	<0.050	0.050	07/18/2023	ND	1.96	98.2	2.00	2.22	
Total Xylenes*	<0.150	0.150	07/18/2023	ND	5.84	97.3	6.00	2.61	
Total BTEX	<0.300	0.300	07/18/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 5	% 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	96.0	16.0	07/19/2023	ND	432	108	400	0.00	
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	07/19/2023	ND	206	103	200	7.39	
DRO >C10-C28*	31.1	10.0	07/19/2023	ND	205	103	200	7.17	
EXT DRO >C28-C36	<10.0	10.0	07/19/2023	ND					
Surrogate: 1-Chlorooctane	81.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.7	% 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: 07/18/2023 Sampling Date: 07/18/2023

Reported: 07/19/2023 Sampling Type: Soil

Project Name: Sampling Condition: Cool & Intact STATE FTG Sample Received By: Project Number: 03D2057088 Shalyn Rodriguez

Project Location: MAVERICK 32.79316,-103.61882

Sample ID: FS 12 A @ 3' (H233724-03)

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	07/18/2023	ND	2.01	101	2.00	2.04	
Toluene*	<0.050	0.050	07/18/2023	ND	1.99	99.6	2.00	1.65	
Ethylbenzene*	<0.050	0.050	07/18/2023	ND	1.96	98.2	2.00	2.22	
Total Xylenes*	<0.150	0.150	07/18/2023	ND	5.84	97.3	6.00	2.61	
Total BTEX	<0.300	0.300	07/18/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 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	288	16.0	07/19/2023	ND	432	108	400	0.00	
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	07/19/2023	ND	206	103	200	7.39	
DRO >C10-C28*	<10.0	10.0	07/19/2023	ND	205	103	200	7.17	
EXT DRO >C28-C36	<10.0	10.0	07/19/2023	ND					
Surrogate: 1-Chlorooctane	73.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.8	% 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: 07/18/2023 Sampling Date: 07/18/2023

Reported: 07/19/2023 Sampling Type: Soil

Project Name: STATE FTG Sampling Condition: Cool & Intact
Project Number: 03D2057088 Sample Received By: Shalyn Rodriguez

Analyzed By: MS

Project Location: MAVERICK 32.79316,-103.61882

mg/kg

Sample ID: SW 02 @ 0-3' (H233724-04)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	u by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2023	ND	2.01	101	2.00	2.04	
Toluene*	<0.050	0.050	07/18/2023	ND	1.99	99.6	2.00	1.65	
Ethylbenzene*	<0.050	0.050	07/18/2023	ND	1.96	98.2	2.00	2.22	
Total Xylenes*	<0.150	0.150	07/18/2023	ND	5.84	97.3	6.00	2.61	
Total BTEX	<0.300	0.300	07/18/2023	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	80.0	16.0	07/19/2023	ND	432	108	400	0.00	
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	07/19/2023	ND	206	103	200	7.39	
DRO >C10-C28*	<10.0	10.0	07/19/2023	ND	205	103	200	7.17	
EXT DRO >C28-C36	<10.0	10.0	07/19/2023	ND					
Surrogate: 1-Chlorooctane	78.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.5	% 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: 07/18/2023 Sampling Date: 07/18/2023

Reported: 07/19/2023 Sampling Type: Soil

Project Name: Sampling Condition: Cool & Intact STATE FTG Sample Received By: Project Number: 03D2057088 Shalyn Rodriguez

Project Location: MAVERICK 32.79316,-103.61882

Sample ID: SW 03 @ 0-3' (H233724-05)

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	07/19/2023	ND	2.01	101	2.00	2.04	
Toluene*	<0.050	0.050	07/19/2023	ND	1.99	99.6	2.00	1.65	
Ethylbenzene*	<0.050	0.050	07/19/2023	ND	1.96	98.2	2.00	2.22	
Total Xylenes*	<0.150	0.150	07/19/2023	ND	5.84	97.3	6.00	2.61	
Total BTEX	<0.300	0.300	07/19/2023	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	64.0	16.0	07/19/2023	ND	432	108	400	0.00	
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	07/19/2023	ND	206	103	200	7.39	
DRO >C10-C28*	<10.0	10.0	07/19/2023	ND	205	103	200	7.17	
EXT DRO >C28-C36	<10.0	10.0	07/19/2023	ND					
Surrogate: 1-Chlorooctane	78.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.5	% 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 whatsoever 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



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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Celeg & Freene



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Released to Imaging: 11/14/2023 10:29:55 AM

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

Company Name	EMSOUM LLC							BI	LL TO	* 6 S				AN	ALYS	S RE	QUE	ST		
Project Manager	Fimel Phil					F	P.O. #:													
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City: OUT	Show State:	Zip	: 8	SC	70	Α	Attn:													
Phone #: 120	554-1365 Fax#:	ΛΛ				A	Addres	ss:												
Project #: S	ote FTC1 Project Owner	1	au	en	Ch	c	City:													
Project Name:	BD2051088					s	State:		Zip:											
Project Location	:32,79316,-103,614	68	2			P	Phone	#:											- 1	
Sampler Name:	Julianna Falcoma	X	0			_	ax #:	THE RESERVE OF THE PERSON NAMED IN			1		2							
FOR LAB USE ONLY	Go.		Н		MATRI	(PRE	SERV.	SAMP	LING			3							
Lab I.D. H733724 1 2 3 4	Sample I.D. P30914 (a) 51 P510 14 (a) 31 P512 14 (a) 31 SUND (a) 0-31 SUND (a) 0-61	C (G)RAB OR (C)OMP	*# CONTAINERS	GROUNDWATER	X SOIL	SLUDGE	ACID/BASE:	X ICE / COOL OTHER:	DATE 7 8 23	TIME 1030 1035 1040 1045	X-X-CEX	HOT XIII	T Chlori							
	3000									1000										

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 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,

Rolinguished By:	Date:	Received By:	apon any or one apone chance.	Verbal Result: ☐ Yes ☐ No Add'l Phone	
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Relinguished By:	Date:	Received By:		REMARKS:	`
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Delivered By: (Circle One)	Observed Temp. °C	Sample Condition	CHECKED BY:		eria (only) Sample Condition
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Sampler - UPS - Bus - Other:	Corrected Temp. °C	Yes Yes	8	Thermometer ID #113 Correction Factor =0.6°C	s ☐ Yes c ☐ No Corrected Temp. °C
FORM-006 R 3.3 07/18/22		□ No □ No		one to a law beautiful labour com	C 140 Corrected Temp. C



July 18, 2023

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: STATE FTG

Enclosed are the results of analyses for samples received by the laboratory on 07/17/23 14:05.

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: 07/17/2023 Sampling Date: 07/17/2023

Reported: 07/18/2023 Sampling Type: Soil

Project Name: STATE FTG Sampling Condition: Cool & Intact
Project Number: 03D2024046 Sample Received By: Tamara Oldaker

Project Location: MAVERICK 32.79316,-103.61882

Sample ID: SW 01 0-2 (H233681-01)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/17/2023	ND	2.10	105	2.00	0.540	
Toluene*	<0.050	0.050	07/17/2023	ND	2.07	103	2.00	0.0760	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.17	108	2.00	0.265	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.50	108	6.00	0.346	
Total BTEX	<0.300	0.300	07/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	07/18/2023	ND	416	104	400	0.00	
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	07/18/2023	ND	170	85.1	200	0.445	
DRO >C10-C28*	<10.0	10.0	07/18/2023	ND	167	83.6	200	3.05	
EXT DRO >C28-C36	<10.0	10.0	07/18/2023	ND					
Surrogate: 1-Chlorooctane	63.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	71.9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



Analytical Results For:

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

Received: 07/17/2023 Sampling Date: 07/17/2023

Reported: 07/18/2023 Sampling Type: Soil

Project Name: STATE FTG Sampling Condition: Cool & Intact Sample Received By: Project Number: 03D2024046 Tamara Oldaker

Project Location: MAVERICK 32.79316,-103.61882

Sample ID: FS 01 2 (H233681-02)

BTEX 8021B	mg,	'kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/17/2023	ND	2.10	105	2.00	0.540	
Toluene*	<0.050	0.050	07/17/2023	ND	2.07	103	2.00	0.0760	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.17	108	2.00	0.265	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.50	108	6.00	0.346	
Total BTEX	<0.300	0.300	07/17/2023	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	224	16.0	07/18/2023	ND	448	112	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	07/18/2023	ND	170	85.1	200	0.445	
DRO >C10-C28*	<10.0	10.0	07/18/2023	ND	167	83.6	200	3.05	
EXT DRO >C28-C36	<10.0	10.0	07/18/2023	ND					
Surrogate: 1-Chlorooctane	62.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	69.3	% 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: 07/17/2023 Sampling Date: 07/17/2023

Reported: 07/18/2023 Sampling Type: Soil

Project Name: STATE FTG Sampling Condition: Cool & Intact Sample Received By: Project Number: 03D2024046 Tamara Oldaker

Project Location: MAVERICK 32.79316,-103.61882

Sample ID: FS 08 2 (H233681-03)

BTEX 8021B	mg/	'kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/17/2023	ND	2.10	105	2.00	0.540	
Toluene*	<0.050	0.050	07/17/2023	ND	2.07	103	2.00	0.0760	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.17	108	2.00	0.265	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.50	108	6.00	0.346	
Total BTEX	<0.300	0.300	07/17/2023	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	32.0	16.0	07/18/2023	ND	448	112	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	07/18/2023	ND	170	85.1	200	0.445	
DRO >C10-C28*	<10.0	10.0	07/18/2023	ND	167	83.6	200	3.05	
EXT DRO >C28-C36	<10.0	10.0	07/18/2023	ND					
Surrogate: 1-Chlorooctane	72.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.0	% 49.1-14	8						

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Celey D. Keine



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene

Received by OCD: 8/10/2023 8:27:35 A

Page 6 of 6



Company Name: Ensolum, LLC

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS REQUEST

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

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city: Carl	shad	State: NM	Zip	: 8	182	20)	- 1	ttn:															
	0-384-7365	the state of the party of the state of the s						A	ddre	ss:														
Project #: 03	3DZ0Z4046	Project Owne	r: A	las	ver,	ch		C	ity:															
Project Name:	State FTI	6						Si	ate:		Zip:													
Project Location	n: 32.79316	1,-103.6188	5			-		PI	none	#:														
Sampler Name:	Ronni H	ayes						Fa	X#;						,									
FOR LAB USE ONLY		4		П		MA	TRIX		PRE	SERV	SAN	IPLING												
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	SOIL	OIL	OTHER:	ACID/BASE:	ICE / COOL	DATE	TIME	TPH	8TEX	5									
1	SWOI	0-2	C	1		X		1		X	7/17/23	1210	X	×	×									H
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PLEASE NOTE: Liability and	d Damages. Cardinal's liability and	client's exclusive remedy for ar	ny claim a	arising	whether	based	in contrac	t or tort	shall b	e limited t	o the amount pai	d by the client for ti	he		-									
analyses. All claims includin service. In no event shall Ca	g those for negligence and any oth Irdinal be liable for incidental or cor	er cause whatsoever shall be on equental damages, including	leemed without I	waived imitatio	unless t	nade in ess inte	writing ar	nd recei	use, or	Cardinal w	ithin 30 days after	er completion of the	applicable	8	_									
Relinquished By	g out of or related to the performant:	Date: 7-/7-23 Time: 405	Rec	eive	ed By	r:	or dein	U U	d upon	any of the	above stated re	Verbal Res	ult: are em	☐ Yes ailed.	Pleas	e provi	de Ema	Phone #	ess:	tala	Pas	dus	1.0	
Relinquished By		Date:			ed By	:					7	REMARKS	:				-							
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Sampler - UPS - E		Corrected Temp. °C				Yes No	Ye N	s	~	(Initi	als)	Thermometer Correction Fa	ID 44	19 H	4024 4024	hin/	23	Yes No	Yes		rected			
		† Cardinal ca	nnot	acc	ept	erba	al cha	nge	s. Ple	ease e								m						



APPENDIX D

NMOCD Notifications

From: Enviro, OCD, EMNRD
To: Kalei Jennings

Cc: Bratcher, Michael, EMNRD; Nobui, Jennifer, EMNRD

Subject: RE: [EXTERNAL] Maverick- Sampling Notification (Week of 12/19/2022)

Date: Wednesday, December 14, 2022 4:43:00 PM

Attachments: image005.ipg
image006.png
image007.png

image007.png image008.png image009.png

[**EXTERNAL EMAIL**]

Good afternoon Kalei,

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

Jocelyn Harimon • Environmental Specialist

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

http://www.emnrd.nm.gov



From: Kalei Jennings < kjennings@ensolum.com> **Sent:** Wednesday, December 14, 2022 3:21 PM

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

Subject: [EXTERNAL] Maverick- Sampling Notification (Week of 12/19/2022)

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

All,

Maverick Natural Resources (Maverick) plans to complete final sampling activities at the following sites the week of December 19, 2022.

- Ruby Federal/ NAPP2231448981
- SEMU Eumont 117/ NAPP2231946665
- State FTG/ NAPP2233947938

Thank you,

From: Enviro, OCD, EMNRD

To: Kalei Jennings

Cc: Bratcher, Michael, EMNRD; Velez, Nelson, EMNRD

Subject: RE: [EXTERNAL] Maverick- Sampling Notification (Week of 7/10/2023)

Date: Monday, July 10, 2023 8:31:06 AM

Attachments: image005.jpg image006.png image007.png image007.png image008.png

image008.png image009.png

[**EXTERNAL EMAIL**]

Kalei,

Notification requirements are **two business days**, per rule. You may proceed on your schedule. This, and all correspondence, should be included in the closure report to ensure inclusion in the project file.

JH

Jocelyn Harimon • Environmental Specialist

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

http://www.emnrd.nm.gov



From: Kalei Jennings <kjennings@ensolum.com>

Sent: Friday, July 7, 2023 4:14 PM

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

Cc: Aimee Cole <acole@ensolum.com>

Subject: [EXTERNAL] Maverick- Sampling Notification (Week of 7/10/2023)

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

All,

Maverick Permian, LLC plans to complete sampling activities at the following site the week of July 10, 2023.

- MCA 204 / NAPP2311751602
 - Sampling Date: 7/10/2023 through 07/13/2023

- State FTG #001 / NAPP2233947938
 - Sampling Date: 7/12/2023 & 7/13/2023
- MCA 409 Flowline / NAPP2318846991
 - Sampling Date: 7/13/2023
- Encore M State #8 / NAPP2316640406
 - Sampling Date: 7/14/2023
- SEMU 37 / NAPP2316638385
 - Sampling Date: 7/14/2023

Thank you,



Kalei Jennings Senior Scientist 817-683-2503

Ensolum, LLC

From: Enviro, OCD, EMNRD

To: Kalei Jennings

Cc: Bratcher, Michael, EMNRD; Velez, Nelson, EMNRD

Subject: RE: [EXTERNAL] Maverick- Sampling Notification (Week of 7/17/2023)

Date: Friday, July 14, 2023 7:42:46 AM

Attachments: <u>image005.ipq</u> <u>image006.png</u>

image007.png image008.png image009.png

[**EXTERNAL EMAIL**]

Kalei,

Notification requirements are **two business days**, per rule. You may proceed on your schedule. This, and all correspondence, should be included in the closure report to ensure inclusion in the project file.

JH

Jocelyn Harimon • Environmental Specialist

Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | <u>Jocelyn.Harimon@emnrd.nm.gov</u>

http://www.emnrd.nm.gov



From: Kalei Jennings <kjennings@ensolum.com>

Sent: Thursday, July 13, 2023 2:05 PM

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

Cc: Aimee Cole <acole@ensolum.com>

Subject: [EXTERNAL] Maverick- Sampling Notification (Week of 7/17/2023)

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

All,

Maverick Permian, LLC plans to complete sampling activities at the following site the week of July 17, 2023.

- MCA 204 / NAPP2311751602
 - Sampling Date: 7/17/2023 through 07/19/2023

- State F TG #001 / NAPP2233947938
 - Sampling Date: 7/17/2023 & 7/18/2023
- MCA 409 Flowline / NAPP2318846991
 - Sampling Date: 7/17/2023
- SEMU 34 / NAPP2314257831
 - Sampling Date: 7/19/2023 & 7/20/2023

Thank you,



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



APPENDIX E

Final C-141

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

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NAPP2233947938
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible	Party: Mave	rick Permian, LL	C		OGRID: 3	31199							
Contact Nan	ne: Bryce W	agoner			Contact Te	elephone: 928-241-1862							
Contact ema	il: Bryce.Wa	ngoner@mavresou	urces.com		Incident # (assigned by OCD) NAPP2233947938								
Contact mail 1410 NW Co		Hobbs, NM 88240)										
			Location	of R	elease So	ource							
Latitude 32.7	9316		(NAD 83 in de		Longitude - grees to 5 decim	103.61882							
Site Name St	ate F TG #0	01			Site Type								
Date Release	Discovered	November 20, 20	22		API# (if app	licable) 30-025-01422							
Unit Letter	Section	Township	Range		Coun	ity							
F	36	17S	33E	Lea									
Surface Owne			ribal Private (Nature and all that apply and attack	d Vol	ume of I	Release justification for the volumes provid-	ed below)						
Crude Oi	1	Volume Release	ed (bbls) 15 bbls			Volume Recovered (bbls)	10 bbls						
Produced	Water	Volume Release	ed (bbls)			Volume Recovered (bbls)							
		Is the concentra produced water	tion of dissolved >10,000 mg/l?	chloride	in the	☐ Yes ⊠ No							
Condensa	ite	Volume Release				Volume Recovered (bbls)							
Natural C	das	Volume Release	ed (Mcf)			Volume Recovered (Mcf)							
Other (de	scribe)	Volume/Weight	t Released (provid	le units)		Volume/Weight Recovered	l (provide units)						
fluids and a b	tch failed and backhoe rem	oved saturated so	ils from the releas	se area.	The source o	truck was dispatched to the sign of the release has been stopped has been completed.							

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Was this a major release as defined by	If YES, for what reason(s) does the responsible party consider this a major release?
19.15.29.7(A) NMAC?	
☐ Yes ⊠ No	
If YES, was immediate noti	ice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
	Initial Response
The responsible par	rty must undertake the following actions immediately unless they could create a safety hazard that would result in injury
The source of the release	se has been stopped.
The impacted area has l	been secured to protect human health and the environment.
Released materials have	e been contained via the use of berms or dikes, absorbent pads, or other containment devices.
<u> </u>	overable materials have been removed and managed appropriately.
If all the actions described a	above have <u>not</u> been undertaken, explain why:
has begun, please attach a	C the responsible party may commence remediation immediately after discovery of a release. If remediation narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
	nation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and
public health or the environme	equired to report and/or file certain release notifications and perform corrective actions for releases which may endanger ent. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have
	e and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
and/or regulations.	
Printed Name:Bryce V	Wagoner Title:Permian HSE Specialist II
Signature: Signature:	Date:11/30/2022 er@mavresources.com Telephone:928-241-1862
email:Bryce.Wagone	er@mavresources.com Telephone:928-241-1862
OCD Only	
Received by:	Date:

	Pooled Fluids on the Surface									
	Length (ft.)	Width (ft.)	Depth (in)	# of Boundaries *edges of pool where depth is 0 . don't count shared boundaries	Oil-Water Ratio (%)	Pooled Area (ft ²)	Estimated Average Depth (ft.)	Pooled Volume (bbl.)	Volume of Oil in Subsurface (bbl.)	Volume of Water in Subsurface (bbl.)
Rectangle A					0.01	0.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle B					0.01	0.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle C						0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle D						0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle E						0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
	Total Volume (bbls): 0.00 0.00 0.00						0.00			

				Su	bsurface Fluid	S				
	Length (ft.)	Width (ft.)	Depth (in.)	Saturation (%) *10% in consolidated sediments after rain to 50% in sand with no precipitation		Area (ft²)	Volume (bbl.)	Estimated Volume in Subsurface (bbl.)	Volume of Oil in Subsurface (bbl.)	Volume of Water in Subsurface (bbl.)
Rectangle A	60.0	48.0	3.0	0.1	1.00	2880.0	128.2	10.3	10.25	0.0
Rectangle B	42.0	21.0	4.5	0.1	1.00	882.0	58.9	4.7	4.71	0.0
Rectangle C				0.1	0.01	0.0	0.0	0.0	0.00	0.0
Rectangle D				0.1	0.01	0.0	0.0	0.0	0.00	0.0
Rectangle E				0.1	0.01	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					ıme (bbls):	14.96	14.96	0.00	

TOTAL RELEASE VOLUME (bbls): 15.0

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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.

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?				
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?				
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.				
Characterization Report Checklist: Each of the following items must be included in the report.				
 Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data Data table of soil contaminant concentration data 				

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.

Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release

Depth to water determination

Topographic/Aerial maps

Photographs including date and GIS information

□ Laboratory data including chain of custody

Boring or excavation logs

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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.				
Printed Name:Bryce Wagoner	Title:Permian HSE Specialist II			
Signature: The North	Date:8/9/2023			
email:Bryce.Wagoner@mavresources.com	Telephone:928-241-1862			
OCD Only				
Received by: Shelly Wells	Date: 8/10/2023			

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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 it	ems must be included in the closure report.				
□ Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office				
☐ Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)				
Description of remediation activities					
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of a should their operations have failed to adequately investigate and remuman health or the environment. In addition, OCD acceptance of a compliance with any other federal, state, or local laws and/or regular restore, reclaim, and re-vegetate the impacted surface area to the correct accordance with 19.15.29.13 NMAC including notification to the October Printed Name:Bryce Wagoner	nediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for tions. The responsible party acknowledges they must substantially neditions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete. Title:Permian HSE Specialist II				
OCD Only					
Received by: Shelly Wells	Date: 8/10/2023				
remediate contamination that poses a threat to groundwater, surface v party of compliance with any other federal, state, or local laws and/o	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.				
Closure Approved by: Nelson Velez	Date: 11/14/2023				
Printed Name: Nelson Velez	Title: 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 250465

CONDITIONS

Operator:	OGRID:
Maverick Permian LLC	331199
1000 Main Street, Suite 2900	Action Number:
Houston, TX 77002	250465
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	11/14/2023