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March 24, 2023

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

Re: Remediation Work Plan
Wilder CTB
Incident Number NAPP2300343271
Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of ConocoPhillips Company (COP), has prepared the following *Remediation Work Plan* (*RWP*) to document assessment and soil sampling activities completed to date and propose additional remediation activities at the Wilder CTB (Site), resulting from a release of produced water and crude oil into the surrounding pasture. The following *RWP* proposes excavation of impacted and waste-containing soil in the top 4 feet of non-oil and gas production areas.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit A, Section 29, Township 26 South, Range 32 East, in Lea County, New Mexico (32.0199°, -103.6900°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On December 26, 2022, a valve was left open, resulting in the release of approximately 372 barrels (bbls) of produced water and 1 bbl of crude oil onto the well pad and into the surrounding pasture. Released fluids were not recovered. COP reported the release immediately to the New Mexico Oil Conservation Division (NMOCD) via email on December 27, 2022 and submitted a Release Notification Form C-141 (Form C-141) on January 3, 2023. The release was assigned Incident Number NAPP2300343271.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on the Form C-141, Site Assessment/Characterization. Potential Site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the closest permitted groundwater well data. The closest groundwater well with depth to groundwater data is United States Geological Survey (USGS) well 320134103384101, located approximately 0.49 miles northeast of the Site. The groundwater well has a reported depth to groundwater of 221.94 feet bgs and a total depth of 405 feet bgs, from January of 2013. In addition, there are two additional wells that indicate regional depth to groundwater is greater than 100 bgs. The

second closest permitted groundwater well with depth to groundwater data is the New Mexico Office of the State Engineer (NMOSE) well C-02271-POD2, located ½ mile northeast of the Site and has a reported depth to groundwater of 250 feet bgs. NMOSE well C-03595 well, located approximately 0.51 miles northeast of the Site, has a reported depth to groundwater of 180 feet bgs. All wells used for depth to groundwater determination are depicted on Figure 1 and the referenced well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is an intermittent stream, located approximately 7,200 feet northeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (medium potential karst designation area). Site receptors are identified on Figure 1.

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

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

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

SITE ASSESSMENT ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On December 28, 2022, Ensolum personnel completed a Site visit to evaluate the release extent based on information provided on the Form C-141 and visual observations. Twelve soil samples (SS01 through SS12) were collected within and around the release extent at a depth of approximately 0.5 feet bgs. The soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride utilizing Hach® chloride QuanTab® test strips. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included in Appendix B.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analyses of the following constituents of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Laboratory analytical results for preliminary soil samples SS07 and SS09 through SS12 indicated all COC concentrations were compliant with the Site Closure Criteria and reclamation requirement. Laboratory analytical results for preliminary soil samples SS01 through SS06 and SS08 indicated all COC concentrations were compliant with the Closure Criteria; however, chloride and/or TPH concentrations exceeded the reclamation requirement. Based on visible staining in the release area,

elevated field screening results, and laboratory analytical results for the preliminary soil samples, delineation of waste-containing soil appeared warranted.

DELINEATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On February 13, 2023, delineation activities were conducted at the Site to assess the vertical extent of waste-containing soil. Potholes PH01 through PH08 were advanced via backhoe within the release extent. The delineation potholes were advanced to a depth of 4 feet bgs. Discrete delineation soil samples were collected from each pothole at 1-foot and 4 feet bgs. Soil from the potholes was field screened using the same procedures stated above. Field screening results and observations for the potholes were logged on lithologic/soil sampling logs, which are included in Appendix C. The delineation soil sample locations are depicted on Figure 2.

Laboratory analytical results for delineation soil sample PH07, indicated all COC concentrations were compliant with the Site Closure Criteria and reclamation requirement. Laboratory analytical results for the delineation soil samples collected from potholes PH01 through PH06 and PH08 indicated waste-containing soil is present within the top 4 feet of soil off pad. It should be noted that soil from pothole PH04 at 1-foot bgs exceeded the combined TPH-GRO and TPH-DRO Closure Criteria; however, the subsequent soil sample collected at 4 feet bgs was compliant with the Closure Criteria. The location of PH04 is directly adjacent to the point of release and it appears impacted soil is limited to the immediate vicinity of the point of release location. The laboratory analytical results are summarized on the attached Table 1 and the complete laboratory analytical reports are included in Appendix C.

PROPOSED REMEDIAL ACTIONS

- Waste-containing and limited impacted soil has been detected in the top 4 feet of soil off pad as indicated by preliminary surface soil samples SS01 through SS06 and SS08 and in the vicinity of potholes PH01 through PH06 and PH08 to a total depth of 4 feet bgs. As a result, COP proposes excavation of waste-containing and limited impacted soil in the top 4 feet. Excavation of TPH and chloride impacted soil in the top 4 feet of soil in areas of non-oil and gas production facilities. Excavation will proceed laterally until sidewall samples indicate chloride and TPH concentrations are compliant with the reclamation requirements.
- Due to the estimated 6,500 square foot size of the excavation, COP requests a variance for frequency of excavation confirmation samples. COP proposes the frequency of confirmation sampling for the excavation floor to be decreased from every 200 square feet (approximately 33 samples) to every 400 square feet (approximately 17 samples). Each 5-point composite floor sample will represent a 400 square foot area. Sidewalls will be collected at a frequency of every 400 square feet.
- The 5-point composite samples will be collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. The excavation floor samples will be analyzed for chloride only since delineation samples did not contain BTEX or TPH exceeding Site Closure Criteria. The excavation sidewall samples will be analyzed for TPH and chloride only.
- An estimated 1,250 cubic yards of impacted soil is anticipated to be excavated. The excavated soil will be transferred to a New Mexico approved disposal facility for disposal.
- The excavation will be backfilled and recontoured to match pre-existing conditions. The disturbed pasture will be re-seeded with an approved BLM seed mixture.

COP will complete the excavation activities within 90 days of the date of approval of this *RWP* by the NMOCD. COP believes the scope of work described above will meet requirements set forth in 19.15.29.13 NMAC and are protective of human health, the environment, and groundwater. As such, COP respectfully requests approval of this *RWP* from NMOCD.

If you have any questions or comments, please contact Ms. Kalei Jennings at (817) 683-2503 or kjennings@ensolum.com.

Sincerely,
Ensolum, LLC

Hadlie Green
Project Manager

Daniel R Moir, PG
Senior Managing Geologist

cc: Charles Beauvais, ConocoPhillips Company
Jacob Laird, ConocoPhillips Company
Bureau of Land Management

Appendices:

Figure 1	Site Receptor Map
Figure 2	Preliminary Soil Sample Locations
Figure 3	Delineation Soil Sample Locations
Table 1	Soil Sample Analytical Results
Appendix A	Referenced Well Records
Appendix B	Photographic Log
Appendix C	Lithologic / Soil Sampling Logs
Appendix D	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix E	Final C-141
Appendix F	NMOCD Notifications

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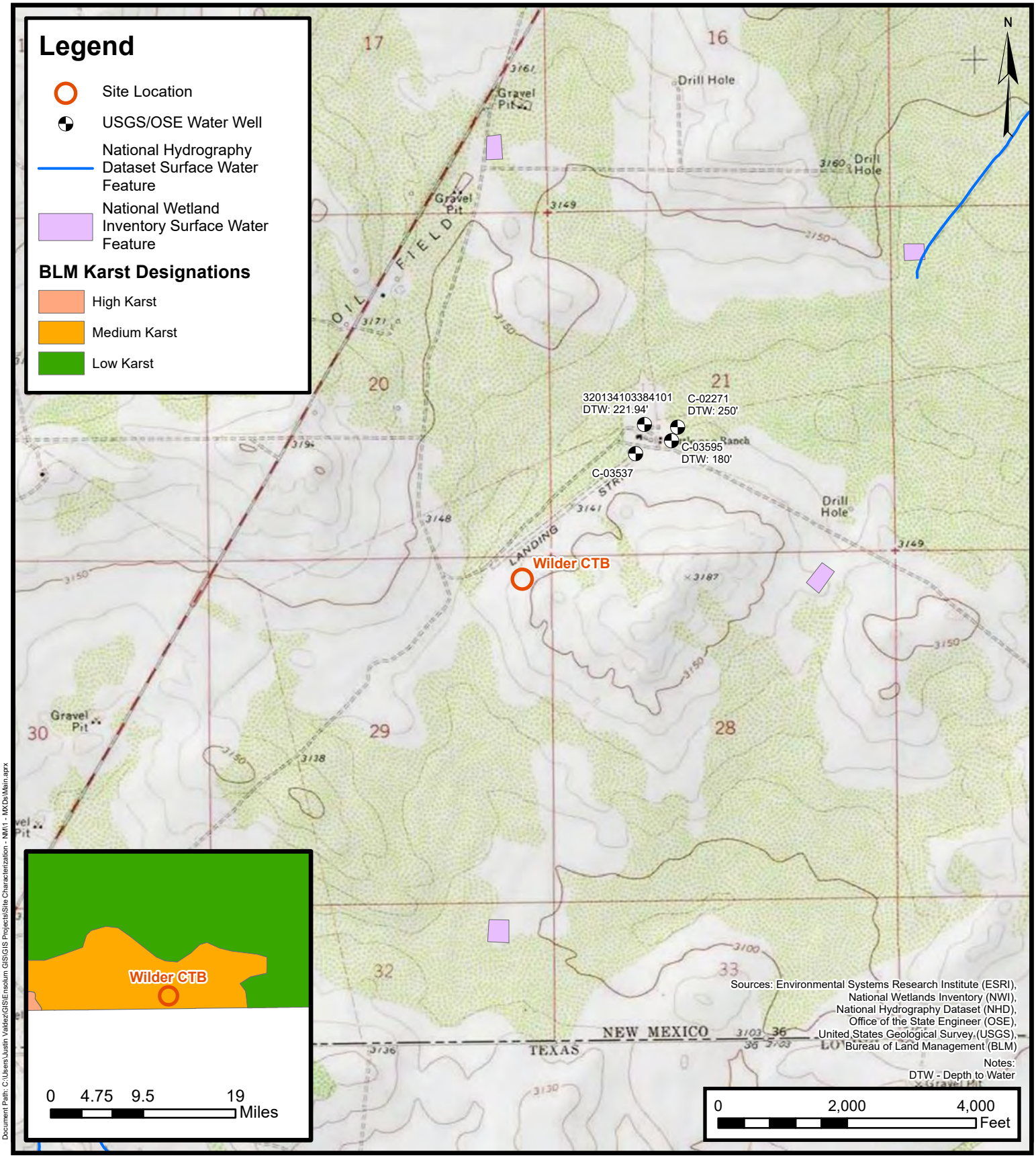
FIGURES



Document Path: C:\Users\Justin Valdez\GIS\Ensolum GIS\GIS Projects\Site Characterization - NM\1 - MXDs\Main.aprx

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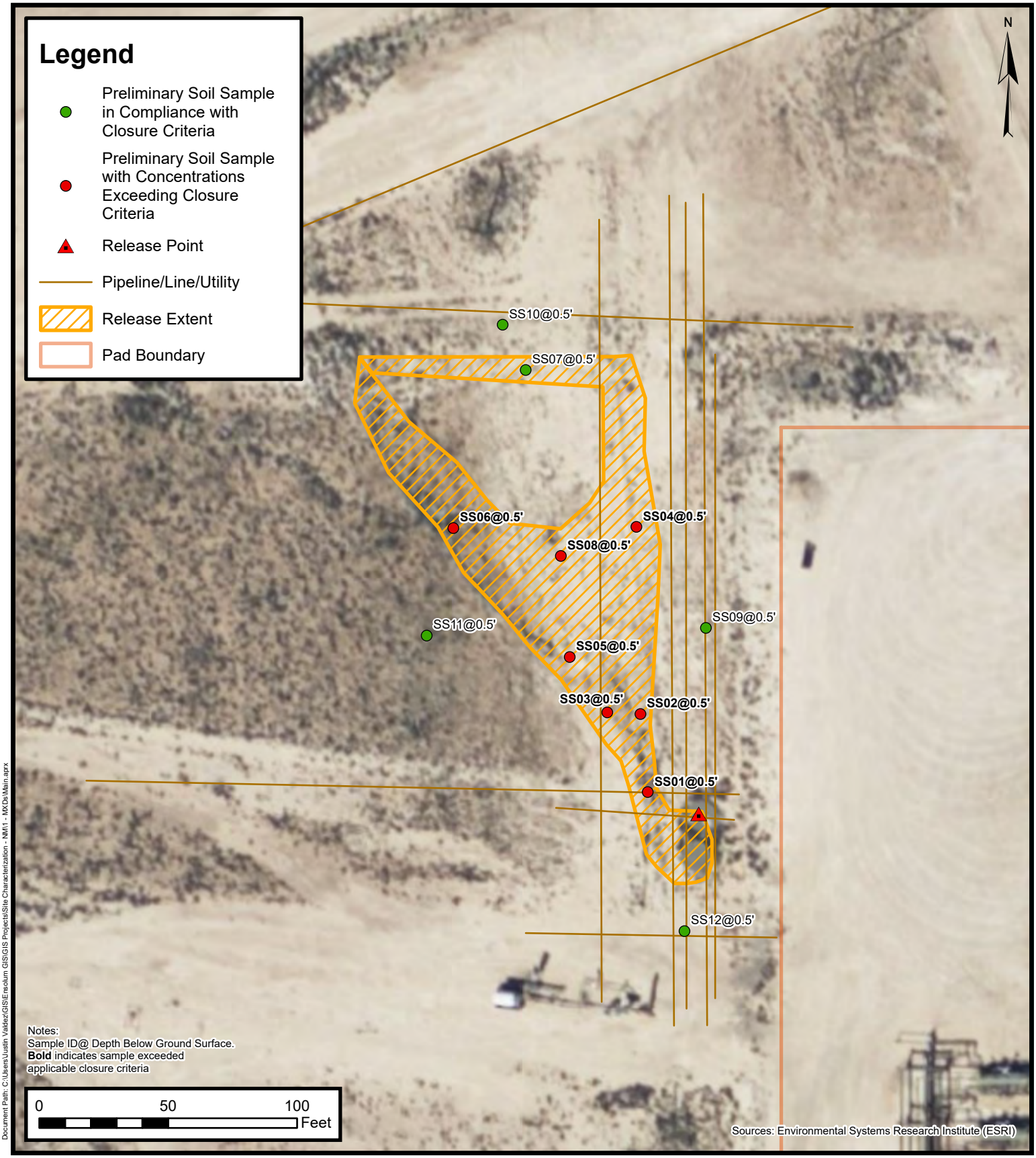
Site Receptor Map

Wilder CTB
ConocoPhillips Company
Incident Number: NAPP2300343271
Unit A, Sec 29, T26S, 32E
Lea County, New Mexico

FIGURE
1



Document Path: C:\Users\Justin Valdez\GIS\Ensolum GIS\GIS Projects\Site Characterization - NM\1 - MXDs\Main.aprx

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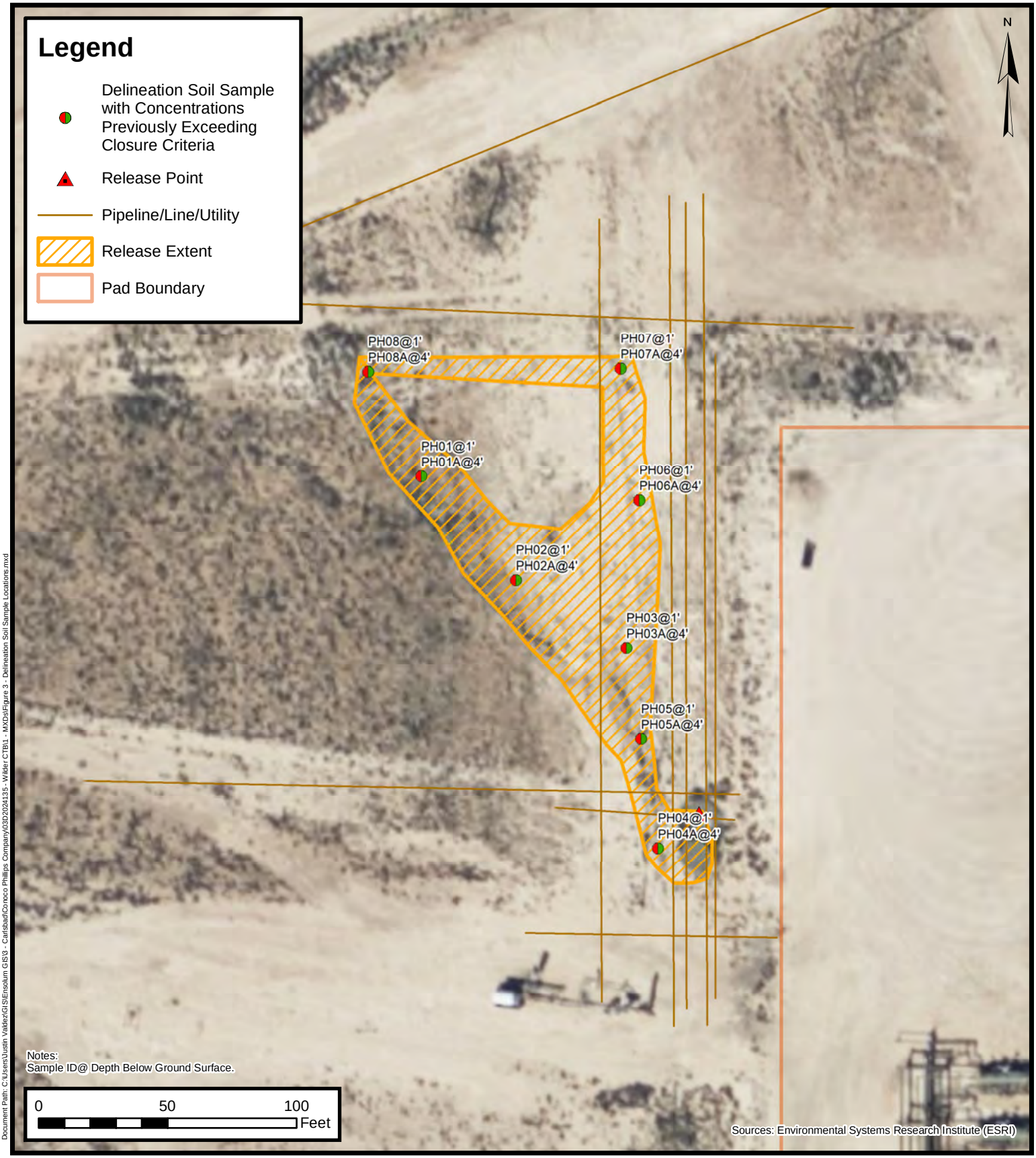
Preliminary Soil Sample Locations Map

Wilder CTB
ConocoPhillips Company
Incident Number: NAPP2300343271
Unit A, Sec 29, T26S, 32E
Lea County, New Mexico

FIGURE
2



Document Path: C:\Users\Justin Valdez\GIS\Ensolum GIS\3 - Carlsbad\Conoco Phillips Company\03\20241135 - Wilder CTB\1 - MXDs\Figure 3 - Delineation Soil Sample Locations.mxd

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Delineation Soil Sample Locations Map

Wilder CTB
ConocoPhillips Company
Incident Number: NAPP2300343271
Unit A, Sec 29, T26S, 32E
Lea County, New Mexico

FIGURE
3

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TABLES

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Wilder CTB
ConocoPhillips Company
Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			**10**	**50**	**NE**	**NE**	**NE**	**1,000**	**2,500**	**20,000**
Preliminary Assessment Soil Samples										
SS01	12/28/2022	0.5	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	**3,510***
SS02	12/28/2022	0.5	<0.00202	0.0261	<49.9	185	78.2	185	263	**5,200***
SS03	12/28/2022	0.5	<0.00200	<0.00399	61.1	<49.9	67.5	61.1	**129**	**8,560***
SS04	12/28/2022	0.5	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	<49.8	**6,740***
SS05	12/28/2022	0.5	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	**6,340***
SS06	12/28/2022	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	**5,330***
SS07	12/28/2022	0.5	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	46.8*
SS08	12/28/2022	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	**2,470***
SS09	12/28/2022	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	41.3*
SS10	12/28/2022	0.5	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	7.60*
SS11	12/28/2022	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	11.7*
SS12	12/28/2022	0.5	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	<4.98*
Delineation Soil Samples										
PH01	02/13/2023	1	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	<50.0	**2,770***
PH01A	02/13/2023	4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	4,590
PH02	02/13/2023	1	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	**2,940***
PH02A	02/13/2023	4	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	4,270
PH03	02/13/2023	1	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	**3,770***
PH03A	02/13/2023	4	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	4,760

PH04	02/13/2023	1	<0.00199	0.317	237	1,790	169	**2,027**	**2,200**	**4,320***
PH04A	02/13/2023	4	<0.00200	<0.00401	<49.9	225	<49.9	225	225	3,830
PH05	02/13/2023	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	**3,860***
PH05A	02/13/2023	4	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	4,280
PH06	02/13/2023	1	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	**4,360***
PH06A	02/13/2023	4	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	863
PH07	02/13/2023	1	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	<49.8	304*
PH07A	02/13/2023	4	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	630
PH08	02/13/2023	1	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	**1,440***
PH08A	02/13/2023	4	<0.00199	<0.00398	<49.9	169	<49.9	169	169	4,930

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
GRO: Gasoline Range Organics
DRO: Diesel Range Organics
ORO: Oil Range Organics
TPH: Total Petroleum Hydrocarbon

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

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APPENDIX A

Referenced Well Records

Click to hideNews Bulletins

- Explore the *NEW* USGS National Water Dashboard interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 320134103384101

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 320134103384101 26S.32E.21.32311

Lea County, New Mexico
Latitude 32°01'35.2", Longitude 103°41'01.8" NAD83
Land-surface elevation 3,130 feet above NAVD88
The depth of the well is 405 feet below land surface.
The depth of the hole is 405 feet below land surface.
This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer.
This well is completed in the Dockum Group (231DCKM) local aquifer.

Output formats

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

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 measurement	? Water-level approval status
1993-06-16		D	62610		2723.41	NGVD29	1	L			A
1993-06-16		D	62611		2725.00	NAVD88	1	L			A
1993-06-16		D	72019	405.00			1	L			A
2013-01-16	19:10 UTC	m	62610		2906.47	NGVD29	P	S	USGS	S	A
2013-01-16	19:10 UTC	m	62611		2908.06	NAVD88	P	S	USGS	S	A
2013-01-16	19:10 UTC	m	72019	221.94			P	S	USGS	S	A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Status	P	Pumping
Method of measurement	L	Interpreted from geophysical logs.
Method of measurement	S	Steel-tape measurement.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

U.S. Department of the Interior | U.S. Geological Survey
Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2023-02-09 16:37:03 EST
0.31 0.27 nadww02

New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Twn	Rng	X	Y
	C 02271 POD2	3	2	3	21	26S	32E	624348	3544010*

Driller License:	208	**Driller Company:**	VAN NOY, W.L.		
Driller Name:	W.L. VAN NOY				
Drill Start Date:	08/28/1992	**Drill Finish Date:**	09/09/1992	**Plug Date:**	
Log File Date:	10/28/1992	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:	SUBMER	**Pipe Discharge Size:**		**Estimated Yield:**	15 GPM
Casing Size:	6.38	**Depth Well:**	270 feet	**Depth Water:**	250 feet

Water Bearing Stratifications:	Top	Bottom	Description
	225	265	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	205	265

***UTM location was derived from PLSS - see Help**

New Mexico Office of the State Engineer
Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Twn	Rng	X	Y
	C 03595 POD1	4	2	3	21	26S	32E	624423	3544045

Driller License: 1654 **Driller Company:** NOT WORKING FOR HIRE--SIRMAN DRILLING AND CONSTRUC

Driller Name:

Drill Start Date: 09/30/2013 **Drill Finish Date:** 09/30/2013 **Plug Date:**

Log File Date: 10/29/2013 **PCW Rcv Date:** **Source:** Shallow

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

Casing Size: 6.00 **Depth Well:** 280 feet **Depth Water:** 180 feet

Water Bearing Stratifications:	Top	Bottom	Description
	160	200	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	200	240

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APPENDIX B

Photographic Log

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Photographic Log
ConocoPhillips Company
Wilder CTB
Incident Number NAPP2300343271

Photograph: 1 Date: 12/26/2022
Description: Soil staining in release footprint
View: Northwest

Photograph: 2 Date: 12/28/2022
Description: Soil staining in release footprint
View: North

Photograph: 3 Date: 12/28/2022
Description: Soil staining in release footprint
View: Northeast

Photograph: 4 Date: 2/13/2023
Description: Delineation activities
View: South

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APPENDIX C

Lithologic Soil Sampling Logs

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Sample Name: PH01	Date: 02/13/23	
Site Name: Wilder CTB		
Incident Number: NAPP230034327		
Job Number: 03D2024135		
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: J.Falcomata	Method: Backhoe
Coordinates: 32.022778, -103.690000	Hole Diameter:	Total Depth: 6'

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	4,099	1.8	N	A	1	1	SM	SILTY SAND: fine grained, slightly silty, medium brown to brown, no odor, non plastic.
D	4,468	1.3	N	B	2	2	SM	SILTY SAND: fine grained, slightly silty, medium brown to brown, no odor, non plastic.
D	6,210	1.4	N	C	3	3	SM	SILTY SAND: fine grained, moderately silty, medium brown to brown, no odor, non plastic.
D	6,225	1.5	N	D	4	4	SM	SILTY SAND: fine grained, moderately silty, medium brown to brown, no odor, low plasticity.
D	5,725	2.1	N	E	5	5	SM	SILTY SAND WITH GRAVEL: fine to medium grained, slightly silty in parts, very light brown to tan, slight odor, non plastic.
D	6,472	2.2	N	F	6	6	SM-SP	POORLY GRADED SAND WITH SILT AND GRAVEL: medium to coarse to fine grained, light brown to tan, slight odor, non plastic.

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Sample Name: PH02	Date: 02/13/23	
Site Name: Wilder CTB		
Incident Number: NAPP230034327		
Job Number: 03D2024135		
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: J.Falcomata	Method: Backhoe
Coordinates: 32.022778, -103.690000	Hole Diameter:	Total Depth: 6'

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	2,385	1.5	N	A	1	1	SM	SILTY SAND: very fine to fine grained, slightly silty, medium brown to brown, slight odor, non plastic.
D	3,908	2.1	N	B	2	2	SM	SILTY SAND: very fine to fine grained, slightly silty, medium brown to brown, slight odor, non plastic.
D	4,653	1.8	N	C	3	3	SM	SILTY SAND: fine to very fine grained, moderately silty, medium brown to slightly tan, slight odor, non plastic.
D	6,988	1.5	N	D	4	4	SM	SILTY SAND WITH GRAVEL: fine to medium to coarse grained, moderately silty, medium brown to brown, no odor, low plasticity.
D	6,462	2.2	N	E	5	5	SP-SM	POORLY GRADED SAND WITH SILT AND GRAVEL: medium to coarse to fine grained, light brown to tan, slight odor, non plastic.
D	5,499	1.9	N	F	6	6	SP-SM	POORLY GRADED SAND WITH SILT AND GRAVEL: medium to coarse to fine grained, light brown to tan, slight odor, non plastic.

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	Sample Name: PH03	Date: 02/13/23
	Site Name: Wilder CTB	
	Incident Number: NAPP230034327	
	Job Number: 03D2024135	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: J.Falcomata	Method: Backhoe
Coordinates: 32.022778, -103.690000	Hole Diameter:	Total Depth: 6'

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	5,964	1.5	N	A	1	1	SM	SILTY SAND WITH GRAVEL: fine to medium grained, slightly silty, medium brown to brown, slight odor, no plasticity.
D	8,820	1.6	N	B	2	2	SM	SILTY SAND WITH GRAVEL: fine to medium to coarse grained, slightly silty, medium brown to brown, slight odor, non plastic.
D	8,820	1.9	N	C	3	3	SP-SM	POORLY GRADED SAND W/ SILT & GRAVEL: medium to coarse to fine grained, silty in parts, medium brown to tan, slight odor, non plastic.
D	7,560	3.3	N	D	4	4	SM	SILTY SAND WITH GRAVEL: fine to medium to coarse grained, silty in parts, light brown to tan, slight odor, no plasticity.
D	5,964	2.5	N	E	5	5	SM	SILTY SAND WITH GRAVEL: fine to medium grained, moderately silty, light brown to tan, slight odor, non plastic.
D	6,462	3.1	N	F	6	6	SM	SILTY SAND WITH GRAVEL: fine to medium grained, very silty, light brown to tan, slight odor, non plastic.

ENSOLUM

	Sample Name: PH04	Date: 02/13/23
	Site Name: Wilder CTB	
	Incident Number: NAPP230034327	
	Job Number: 03D2024135	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: J.Falcomata	Method: HVAC
Coordinates: 32.022778, -103.690000	Hole Diameter:	Total Depth: 6'

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	5,499	238	Y	A	1	1	SM	SILTY SAND: very fine to fine grained, silty, medium brown to brown, strong odor, non plastic.
D	6,462	67	Y	B	2	2	SM	SILTY SAND: very fine to fine grained, silty, medium brown to brown, strong odor, non plastic.
D	5,964	38	N	C	3	3	SP-SM	SILTY SAND: very fine to fine grained, very silty, medium brown to tan, strong odor, non plastic.
D	5,964	71	N	D	4	4	SP-SM	SILTY SAND WITH GRAVEL: fine to medium grained, very silty, brown to tan, strong odor, non plastic.

ENSOLUM

	Sample Name: PH05	Date: 02/13/23
	Site Name: Wilder CTB	
	Incident Number: NAPP230034327	
	Job Number: 03D2024135	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: J.Falcomata	Method: HVAC
Coordinates: 32.022778, -103.690000	Hole Diameter:	Total Depth: 6'

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	5,499	1.2	N	A	1	1	SM	SILTY SAND: fine to medium grained, silty, medium brown to light brown, no odor, non plastic.
D	6,462	4.2	N	B	2	2	SM	SILTY SAND WITH GRAVEL: fine to medium grained, silty, medium brown to brown, strong odor, non plastic.
D	5,964	3.3	N	C	3	3	SM	SILTY SAND WITH GRAVEL: medium to fine grained, silty, medium brown to brown, no odor, non plastic.
D	5,499	3.7	N	D	4	4	SM	SILTY SAND WITH GRAVEL: medium to fine grained, silty, medium brown to brown, no odor, non plastic.

ENSOLUM

Sample Name: PH06	Date: 02/13/23	
Site Name: Wilder CTB		
Incident Number: NAPP230034327		
Job Number: 03D2024135		
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: J.Falcomata	Method: Backhoe
Coordinates: 32.022778, -103.690000	Hole Diameter:	Total Depth: 6'

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	5,062	1.4	N	A	1	1	SM	SILTY SAND WITH GRAVEL: fine to medium grained, moderately silty, medium brown to light brown, no odor, non plastic.
D	3,908	1	N	B	2	2	SM	SILTY SAND WITH GRAVEL: fine to medium grained, slightly silty, light brown to tan, no odor, non plastic.
D	3,908	1.1	N	C	3	3	SM	SILTY SAND WITH GRAVEL: very fine to fine to medium grained, very silty, tan to very light brown, no odor, non plastic.
D	700	1.2	N	D	4	4	SM	SILTY SAND WITH GRAVEL: very fine to fine to medium grained, very silty, light brown to tan, no odor, non plastic.
D	924	1	N	E	5	5	SM	SILTY SAND: very fine to fine grained, very silty, tan to very light red, no odor, non plastic.
D	571	0.9	N	F	6	6	SM	SILTY SAND: very fine to fine grained, very silty, tan to very light red, no odor, non plastic.

ENSOLUM

Sample Name: PH07	Date: 02/13/23	
Site Name: Wilder CTB		
Incident Number: NAPP230034327		
Job Number: 03D2024135		
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: J.Falcomata	Method: Backhoe
Coordinates: 32.022778, -103.690000	Hole Diameter:	Total Depth: 6'

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	408	0.7	N	A	1	1	SM	SILTY SAND WITH GRAVEL: fine to medium grained, silty in parts, medium brown to tan, no odor, non plastic.
D	4,653	0.9	N	B	2	2	SM	SILTY SAND WITH GRAVEL: fine to medium grained, silty, tan to light brown, no odor, non plastic.
D	2,940	0.7	N	C	3	3	SM	SILTY SAND WITH GRAVEL: fine to medium grained, silty, tan to light brown, no odor, non plastic.
D	700	0.8	N	D	4	4	SM	SILTY SAND WITH GRAVEL: fine to medium to coarse grained, silty, tan to reddish tan, no odor, non plastic.
D	1,002	0.9	N	E	5	5	SM	SILTY SAND: very fine to fine grained, very silty, tan to light brown, no odor, non plastic.
D	<168	0.8	N	F	6	6	SM	SILTY SAND: very fine to fine grained, very silty, light brown to reddish brown, no odor, non plastic.

ENSOLUM

Sample Name: PH08	Date: 02/13/23	
Site Name: Wilder CTB		
Incident Number: NAPP230034327		
Job Number: 03D2024135		
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: J.Falcomata	Method: Backhoe
Coordinates: 32.022778, -103.690000	Hole Diameter:	Total Depth: 6'

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	1,831	1.2	N	A	1	1	SM	SILTY SAND: very fine to fine grained, very silty in parts, brown to dark brown, no odor, non plastic.
D	2,956	1.1	N	B	2	2	SM	SILTY SAND: very fine to fine grained, very silty, brown to dark brown, no odor, non plastic.
D	8,164	1.3	N	C	3	3	SP-SM	POORLY GRADED SAND WITH SILT AND GRAVEL: fine to medium to coarse grained, silty, tan to light brown, no odor, non plastic.
D	5,062	1.5	N	D	4	4	SP-SM	POORLY GRADED SAND WITH GRAVEL: fine to medium to coarse grained, very silty, light brown to reddish brown, no odor, non plastic.
D	2,329	1.2	N	E	5	5	SM	SILTY SAND WITH GRAVEL: fine to medium to coarse grained, very silty, light brown to redishbrown to tan, no odor, non plastic.
D	414	1	N	F	6	6	SM	SILTY SAND: very fine to fine grained, very silty, tan to reddish brown, no odor, non plastic.

ENSOLUM

APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

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JOB DESCRIPTION

Wilder CTB Spill Can
SDG NUMBER Lea County NM

JOB NUMBER

890-3743-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

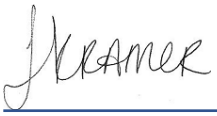
my EOL

Eurofins Carlsbad

Job Notes

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

Authorization



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

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Laboratory Job ID: 890-3743-1
SDG: Lea County NM

Table of Contents

Definitions/Glossary

Client: Ensolum Job ID: 890-3743-1
Project/Site: Wilder CTB Spill Can SDG: Lea County NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3743-1
SDG: Lea County NM

Job ID: 890-3743-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-3743-1

Receipt
The sample was received on 12/30/2022 12:40 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C

Receipt Exceptions
The following sample was received and analyzed from an unpreserved bulk soil jar: SS11 (890-3743-1).

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): SS11 (890-3743-1). The container labels list <SAMPLE_ID>, while the COC lists <SAMPLEID>. The client was contacted, and the lab was instructed to <EXPLANATION_REQUIRED>.

Login 890-3743
Sample Jars COC
SS11 12-28-22 14:30 0.5 SS11 12-28-22 13:55 0.5

Based off this infomation we can tell they are the same sample due to sample name,date,depth

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-43178 and analytical batch 880-43200 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

GC Semi VOA
Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SS11 (890-3743-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-43075 and analytical batch 880-43283 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3743-1
SDG: Lea County NM

Client Sample ID: SS11

Date Collected: 12/28/22 13:55
Date Received: 12/30/22 12:40
Sample Depth: 0.5

Lab Sample ID: 890-3743-1

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/04/23 15:26	01/05/23 14:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/04/23 15:26	01/05/23 14:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/04/23 15:26	01/05/23 14:40	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/04/23 15:26	01/05/23 14:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/04/23 15:26	01/05/23 14:40	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/04/23 15:26	01/05/23 14:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*01/04/23 15:26*	*01/05/23 14:40*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*01/04/23 15:26*	*01/05/23 14:40*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/05/23 15:18	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/06/23 13:03	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/04/23 09:23	01/05/23 19:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/04/23 09:23	01/05/23 19:05	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/04/23 09:23	01/05/23 19:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*135*	*S1+*	*70 - 130*	*01/04/23 09:23*	*01/05/23 19:05*	*1*
o-Terphenyl	*120*		*70 - 130*	*01/04/23 09:23*	*01/05/23 19:05*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11.7**		5.01		mg/Kg			01/06/23 13:28	1

Surrogate Summary

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3743-1
SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-23188-A-1-E MS	Matrix Spike	101	109
880-23188-A-1-F MSD	Matrix Spike Duplicate	98	108
890-3743-1	SS11	109	104
LCS 880-43178/1-A	Lab Control Sample	95	108
LCSD 880-43178/2-A	Lab Control Sample Dup	99	108
MB 880-43178/5-A	Method Blank	99	101

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-23216-A-1-D MS	Matrix Spike	88	81
880-23216-A-1-E MSD	Matrix Spike Duplicate	87	81
890-3743-1	SS11	135 S1+	120
LCS 880-43130/2-A	Lab Control Sample	94	89
LCSD 880-43130/3-A	Lab Control Sample Dup	108	89
MB 880-43130/1-A	Method Blank	107	104

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3743-1
SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-43178/5-A
Matrix: Solid
Analysis Batch: 43200

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 43178

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/04/23 15:26	01/05/23 11:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/04/23 15:26	01/05/23 11:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/04/23 15:26	01/05/23 11:28	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/04/23 15:26	01/05/23 11:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/04/23 15:26	01/05/23 11:28	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/04/23 15:26	01/05/23 11:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*01/04/23 15:26*	*01/05/23 11:28*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*01/04/23 15:26*	*01/05/23 11:28*	*1*

Lab Sample ID: LCS 880-43178/1-A
Matrix: Solid
Analysis Batch: 43200

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 43178

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09959		mg/Kg		100	70 - 130		
Toluene			0.100	0.09381		mg/Kg		94	70 - 130		
Ethylbenzene			0.100	0.09104		mg/Kg		91	70 - 130		
m-Xylene & p-Xylene			0.200	0.1883		mg/Kg		94	70 - 130		
o-Xylene			0.100	0.08972		mg/Kg		90	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

Lab Sample ID: LCSD 880-43178/2-A
Matrix: Solid
Analysis Batch: 43200

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 43178

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1047		mg/Kg		105	70 - 130	5	35
Toluene			0.100	0.09721		mg/Kg		97	70 - 130	4	35
Ethylbenzene			0.100	0.09513		mg/Kg		95	70 - 130	4	35
m-Xylene & p-Xylene			0.200	0.1965		mg/Kg		98	70 - 130	4	35
o-Xylene			0.100	0.09321		mg/Kg		93	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

Lab Sample ID: 880-23188-A-1-E MS
Matrix: Solid
Analysis Batch: 43200

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 43178

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00201	U	0.101	0.07475		mg/Kg		74	70 - 130		
Toluene	<0.00201	U F1	0.101	0.05821	F1	mg/Kg		57	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3743-1
SDG: Lea County NM

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

Lab Sample ID: 880-23188-A-1-E MS
Matrix: Solid
Analysis Batch: 43200

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 43178

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U F1	0.101	0.04970	F1	mg/Kg		49	70 - 130
m-Xylene & p-Xylene	<0.00402	U F1	0.202	0.1017	F1	mg/Kg		50	70 - 130
o-Xylene	<0.00201	U F1	0.101	0.04826	F1	mg/Kg		48	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*

Lab Sample ID: 880-23188-A-1-F MSD
Matrix: Solid
Analysis Batch: 43200

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 43178

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0990	0.07783		mg/Kg		79	70 - 130	4	35
Toluene	<0.00201	U F1	0.0990	0.06118	F1	mg/Kg		61	70 - 130	5	35
Ethylbenzene	<0.00201	U F1	0.0990	0.05304	F1	mg/Kg		54	70 - 130	7	35
m-Xylene & p-Xylene	<0.00402	U F1	0.198	0.1076	F1	mg/Kg		54	70 - 130	6	35
o-Xylene	<0.00201	U F1	0.0990	0.05062	F1	mg/Kg		51	70 - 130	5	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

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

Lab Sample ID: MB 880-43130/1-A
Matrix: Solid
Analysis Batch: 43191

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 43130

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/04/23 09:23	01/05/23 08:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/04/23 09:23	01/05/23 08:23	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/04/23 09:23	01/05/23 08:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*01/04/23 09:23*	*01/05/23 08:23*	*1*
o-Terphenyl	*104*		*70 - 130*	*01/04/23 09:23*	*01/05/23 08:23*	*1*

Lab Sample ID: LCS 880-43130/2-A
Matrix: Solid
Analysis Batch: 43191

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 43130

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	923.7		mg/Kg		92	70 - 130
Diesel Range Organics (Over C10-C28)			1000	854.4		mg/Kg		85	70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3743-1
SDG: Lea County NM

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

Lab Sample ID: LCS 880-43130/2-A
Matrix: Solid
Analysis Batch: 43191

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 43130

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

Lab Sample ID: LCSD 880-43130/3-A
Matrix: Solid
Analysis Batch: 43191

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 43130

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	825.3		mg/Kg		83	70 - 130	11	20
Diesel Range Organics (Over C10-C28)			1000	783.0		mg/Kg		78	70 - 130	9	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	108		70 - 130
o-Terphenyl	89		70 - 130

Lab Sample ID: 880-23216-A-1-D MS
Matrix: Solid
Analysis Batch: 43191

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 43130

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	930.6		mg/Kg		93	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	999	924.9		mg/Kg		93	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	88		70 - 130
o-Terphenyl	81		70 - 130

Lab Sample ID: 880-23216-A-1-E MSD
Matrix: Solid
Analysis Batch: 43191

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 43130

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	933.2		mg/Kg		93	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	914.9		mg/Kg		92	70 - 130	1	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	87		70 - 130
o-Terphenyl	81		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3743-1
SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-43075/1-A
Matrix: Solid
Analysis Batch: 43283

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			01/06/23 12:48	1

Lab Sample ID: LCS 880-43075/2-A
Matrix: Solid
Analysis Batch: 43283

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	268.8		mg/Kg		108	90 - 110		

Lab Sample ID: LCSD 880-43075/3-A
Matrix: Solid
Analysis Batch: 43283

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	270.3		mg/Kg		108	90 - 110	1	20

Lab Sample ID: 880-23210-A-41-B MS
Matrix: Solid
Analysis Batch: 43283

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	146	F1	249	421.8	F1	mg/Kg		111	90 - 110		

Lab Sample ID: 880-23210-A-41-C MSD
Matrix: Solid
Analysis Batch: 43283

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	146	F1	249	422.5	F1	mg/Kg		111	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3743-1
SDG: Lea County NM

GC VOA

Prep Batch: 43178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3743-1	SS11	Total/NA	Solid	5035	
MB 880-43178/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-43178/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-43178/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-23188-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
880-23188-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 43200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3743-1	SS11	Total/NA	Solid	8021B	43178
MB 880-43178/5-A	Method Blank	Total/NA	Solid	8021B	43178
LCS 880-43178/1-A	Lab Control Sample	Total/NA	Solid	8021B	43178
LCSD 880-43178/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	43178
880-23188-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	43178
880-23188-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	43178

Analysis Batch: 43294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3743-1	SS11	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 43130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3743-1	SS11	Total/NA	Solid	8015NM Prep	
MB 880-43130/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-43130/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-43130/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-23216-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-23216-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 43191

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3743-1	SS11	Total/NA	Solid	8015B NM	43130
MB 880-43130/1-A	Method Blank	Total/NA	Solid	8015B NM	43130
LCS 880-43130/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	43130
LCSD 880-43130/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	43130
880-23216-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	43130
880-23216-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	43130

Analysis Batch: 43388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3743-1	SS11	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 43075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3743-1	SS11	Soluble	Solid	DI Leach	
MB 880-43075/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-43075/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-43075/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

QC Association Summary

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3743-1
SDG: Lea County NM

HPLC/IC (Continued)

Leach Batch: 43075 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23210-A-41-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-23210-A-41-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 43283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3743-1	SS11	Soluble	Solid	300.0	43075
MB 880-43075/1-A	Method Blank	Soluble	Solid	300.0	43075
LCS 880-43075/2-A	Lab Control Sample	Soluble	Solid	300.0	43075
LCSD 880-43075/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	43075
880-23210-A-41-B MS	Matrix Spike	Soluble	Solid	300.0	43075
880-23210-A-41-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	43075

Lab Chronicle

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3743-1
SDG: Lea County NM

Client Sample ID: SS11

Date Collected: 12/28/22 13:55
Date Received: 12/30/22 12:40

Lab Sample ID: 890-3743-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	43178	01/04/23 15:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43200	01/05/23 14:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43294	01/05/23 15:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			43388	01/06/23 13:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	43130	01/04/23 09:23	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43191	01/05/23 19:05	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	43075	01/03/23 12:04	KS	EET MID
Soluble	Analysis	300.0		1			43283	01/06/23 13:28	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3743-1
SDG: Lea County NM

Laboratory: Eurofins Midland

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

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

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

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

Method Summary

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3743-1
SDG: Lea County NM

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3743-1
SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3743-1	SS11	Solid	12/28/22 13:55	12/30/22 12:40	0.5

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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: _____

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Project Manager:	Hadlie Green	Bill to: (if different)	Kalei Jennings
Company Name:	Ensolum, LLC	Company Name:	Ensolum, LLC
Address:	601 N Marienfeld St Suite 400	Address:	601 N Marienfeld St Suite 400
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-557-8895	Email:	kjennings@ensolum.com; hgreen@ensolum.com

Work Order Comments

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

Project Name:	Wilder CTB Spill Can	Turn Around	☑ Routine ☐ Rush
Project Number:	03D2024135	Due Date:	
Project Location:	Lea County, NM	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Dmitry Nikanorov		
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:	TM007	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	4.2	
Total Containers:		Corrected Temperature:	4.0	

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)
SS11	S	12/28/2022	1355	0.5'	Grab	1		x	x	x

Parameters

890-3743 Chain of Custody

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2S0_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Comments

Incident Number
~~03D2024135~~ DNO

DN 12.30.22

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 DNikanorov		12.30.22 1240			
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3743-1
SDG Number: Lea County NM

Login Number: 3743
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3743-1
SDG Number: Lea County NM

Login Number: 3743
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 01/03/23 09:51 AM

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

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ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

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JOB DESCRIPTION

Wilder CTB Spill Can
SDG NUMBER Lea County NM

JOB NUMBER

890-3744-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

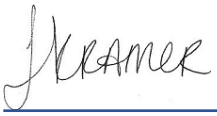
my EOL

Eurofins Carlsbad

Job Notes

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

Authorization



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

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Laboratory Job ID: 890-3744-1
SDG: Lea County NM

Table of Contents

Definitions/Glossary

Client: Ensolum Job ID: 890-3744-1
Project/Site: Wilder CTB Spill Can SDG: Lea County NM

Qualifiers

GC VOA

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

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3744-1
SDG: Lea County NM

Job ID: 890-3744-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-3744-1

Receipt
The sample was received on 12/30/2022 12:40 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C

Receipt Exceptions
The following sample was received and analyzed from an unpreserved bulk soil jar: SS12 (890-3744-1).

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-43178 and analytical batch 880-43200 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

GC Semi VOA
Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (890-3757-A-1-B). 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.

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-43075 and analytical batch 880-43283 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3744-1
SDG: Lea County NM

Client Sample ID: SS12

Date Collected: 12/28/22 14:00
Date Received: 12/30/22 12:40
Sample Depth: 0.5

Lab Sample ID: 890-3744-1

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/04/23 15:26	01/05/23 15:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/04/23 15:26	01/05/23 15:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/04/23 15:26	01/05/23 15:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/04/23 15:26	01/05/23 15:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/04/23 15:26	01/05/23 15:00	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/04/23 15:26	01/05/23 15:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*01/04/23 15:26*	*01/05/23 15:00*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*01/04/23 15:26*	*01/05/23 15:00*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			01/05/23 15:18	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/06/23 13:03	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/05/23 11:23	01/06/23 03:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/05/23 11:23	01/06/23 03:16	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/05/23 11:23	01/06/23 03:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*121*		*70 - 130*	*01/05/23 11:23*	*01/06/23 03:16*	*1*
o-Terphenyl	*114*		*70 - 130*	*01/05/23 11:23*	*01/06/23 03:16*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.98	U	4.98		mg/Kg			01/06/23 13:33	1

Surrogate Summary

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3744-1
SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-23188-A-1-E MS	Matrix Spike	101	109
880-23188-A-1-F MSD	Matrix Spike Duplicate	98	108
890-3744-1	SS12	106	108
LCS 880-43178/1-A	Lab Control Sample	95	108
LCSD 880-43178/2-A	Lab Control Sample Dup	99	108
MB 880-43178/5-A	Method Blank	99	101

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-3744-1	SS12	121	114
890-3757-A-1-C MS	Matrix Spike	112	85
890-3757-A-1-D MSD	Matrix Spike Duplicate	114	88
LCS 880-43251/2-A	Lab Control Sample	104	98
LCSD 880-43251/3-A	Lab Control Sample Dup	118	110
MB 880-43251/1-A	Method Blank	113	109

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3744-1
SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-43178/5-A
Matrix: Solid
Analysis Batch: 43200

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 43178

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/04/23 15:26	01/05/23 11:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/04/23 15:26	01/05/23 11:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/04/23 15:26	01/05/23 11:28	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/04/23 15:26	01/05/23 11:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/04/23 15:26	01/05/23 11:28	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/04/23 15:26	01/05/23 11:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*01/04/23 15:26*	*01/05/23 11:28*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*01/04/23 15:26*	*01/05/23 11:28*	*1*

Lab Sample ID: LCS 880-43178/1-A
Matrix: Solid
Analysis Batch: 43200

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 43178

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09959		mg/Kg		100	70 - 130		
Toluene			0.100	0.09381		mg/Kg		94	70 - 130		
Ethylbenzene			0.100	0.09104		mg/Kg		91	70 - 130		
m-Xylene & p-Xylene			0.200	0.1883		mg/Kg		94	70 - 130		
o-Xylene			0.100	0.08972		mg/Kg		90	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

Lab Sample ID: LCSD 880-43178/2-A
Matrix: Solid
Analysis Batch: 43200

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 43178

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1047		mg/Kg		105	70 - 130	5	35
Toluene			0.100	0.09721		mg/Kg		97	70 - 130	4	35
Ethylbenzene			0.100	0.09513		mg/Kg		95	70 - 130	4	35
m-Xylene & p-Xylene			0.200	0.1965		mg/Kg		98	70 - 130	4	35
o-Xylene			0.100	0.09321		mg/Kg		93	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

Lab Sample ID: 880-23188-A-1-E MS
Matrix: Solid
Analysis Batch: 43200

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 43178

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00201	U	0.101	0.07475		mg/Kg		74	70 - 130		
Toluene	<0.00201	U F1	0.101	0.05821	F1	mg/Kg		57	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3744-1
SDG: Lea County NM

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

Lab Sample ID: 880-23188-A-1-E MS
Matrix: Solid
Analysis Batch: 43200

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 43178

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U F1	0.101	0.04970	F1	mg/Kg		49	70 - 130
m-Xylene & p-Xylene	<0.00402	U F1	0.202	0.1017	F1	mg/Kg		50	70 - 130
o-Xylene	<0.00201	U F1	0.101	0.04826	F1	mg/Kg		48	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*

Lab Sample ID: 880-23188-A-1-F MSD
Matrix: Solid
Analysis Batch: 43200

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 43178

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0990	0.07783		mg/Kg		79	70 - 130	4	35
Toluene	<0.00201	U F1	0.0990	0.06118	F1	mg/Kg		61	70 - 130	5	35
Ethylbenzene	<0.00201	U F1	0.0990	0.05304	F1	mg/Kg		54	70 - 130	7	35
m-Xylene & p-Xylene	<0.00402	U F1	0.198	0.1076	F1	mg/Kg		54	70 - 130	6	35
o-Xylene	<0.00201	U F1	0.0990	0.05062	F1	mg/Kg		51	70 - 130	5	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

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

Lab Sample ID: MB 880-43251/1-A
Matrix: Solid
Analysis Batch: 43191

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 43251

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/05/23 11:23	01/05/23 19:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/05/23 11:23	01/05/23 19:47	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/05/23 11:23	01/05/23 19:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*113*		*70 - 130*	*01/05/23 11:23*	*01/05/23 19:47*	*1*
o-Terphenyl	*109*		*70 - 130*	*01/05/23 11:23*	*01/05/23 19:47*	*1*

Lab Sample ID: LCS 880-43251/2-A
Matrix: Solid
Analysis Batch: 43191

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 43251

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	978.5		mg/Kg		98	70 - 130
Diesel Range Organics (Over C10-C28)			1000	924.6		mg/Kg		92	70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3744-1
SDG: Lea County NM

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

Lab Sample ID: LCS 880-43251/2-A
Matrix: Solid
Analysis Batch: 43191

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 43251

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	104		70 - 130
o-Terphenyl	98		70 - 130

Lab Sample ID: LCSD 880-43251/3-A
Matrix: Solid
Analysis Batch: 43191

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 43251

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1009		mg/Kg		101	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	999.4		mg/Kg		100	70 - 130	8	20

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

Lab Sample ID: 890-3757-A-1-C MS
Matrix: Solid
Analysis Batch: 43191

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 43251

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	750.7		mg/Kg		70	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	999	885.9		mg/Kg		87	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	112		70 - 130
o-Terphenyl	85		70 - 130

Lab Sample ID: 890-3757-A-1-D MSD
Matrix: Solid
Analysis Batch: 43191

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 43251

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	826.1		mg/Kg		78	70 - 130	10	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	913.9		mg/Kg		90	70 - 130	3	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	114		70 - 130
o-Terphenyl	88		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3744-1
SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-43075/1-A
Matrix: Solid
Analysis Batch: 43283

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			01/06/23 12:48	1

Lab Sample ID: LCS 880-43075/2-A
Matrix: Solid
Analysis Batch: 43283

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	268.8		mg/Kg		108	90 - 110		

Lab Sample ID: LCSD 880-43075/3-A
Matrix: Solid
Analysis Batch: 43283

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	270.3		mg/Kg		108	90 - 110	1	20

Lab Sample ID: 880-23210-A-41-B MS
Matrix: Solid
Analysis Batch: 43283

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	146	F1	249	421.8	F1	mg/Kg		111	90 - 110		

Lab Sample ID: 880-23210-A-41-C MSD
Matrix: Solid
Analysis Batch: 43283

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	146	F1	249	422.5	F1	mg/Kg		111	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3744-1
SDG: Lea County NM

GC VOA

Prep Batch: 43178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3744-1	SS12	Total/NA	Solid	5035	
MB 880-43178/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-43178/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-43178/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-23188-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
880-23188-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 43200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3744-1	SS12	Total/NA	Solid	8021B	43178
MB 880-43178/5-A	Method Blank	Total/NA	Solid	8021B	43178
LCS 880-43178/1-A	Lab Control Sample	Total/NA	Solid	8021B	43178
LCSD 880-43178/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	43178
880-23188-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	43178
880-23188-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	43178

Analysis Batch: 43295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3744-1	SS12	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 43191

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3744-1	SS12	Total/NA	Solid	8015B NM	43251
MB 880-43251/1-A	Method Blank	Total/NA	Solid	8015B NM	43251
LCS 880-43251/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	43251
LCSD 880-43251/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	43251
890-3757-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	43251
890-3757-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	43251

Prep Batch: 43251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3744-1	SS12	Total/NA	Solid	8015NM Prep	
MB 880-43251/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-43251/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-43251/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3757-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3757-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 43396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3744-1	SS12	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 43075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3744-1	SS12	Soluble	Solid	DI Leach	
MB 880-43075/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-43075/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-43075/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

QC Association Summary

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3744-1
SDG: Lea County NM

HPLC/IC (Continued)

Leach Batch: 43075 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23210-A-41-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-23210-A-41-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 43283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3744-1	SS12	Soluble	Solid	300.0	43075
MB 880-43075/1-A	Method Blank	Soluble	Solid	300.0	43075
LCS 880-43075/2-A	Lab Control Sample	Soluble	Solid	300.0	43075
LCSD 880-43075/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	43075
880-23210-A-41-B MS	Matrix Spike	Soluble	Solid	300.0	43075
880-23210-A-41-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	43075

Lab Chronicle

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3744-1
SDG: Lea County NM

Client Sample ID: SS12

Date Collected: 12/28/22 14:00
Date Received: 12/30/22 12:40

Lab Sample ID: 890-3744-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	43178	01/04/23 15:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43200	01/05/23 15:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43295	01/05/23 15:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			43396	01/06/23 13:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	43251	01/05/23 11:23	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43191	01/06/23 03:16	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	43075	01/03/23 12:04	KS	EET MID
Soluble	Analysis	300.0		1			43283	01/06/23 13:33	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3744-1
SDG: Lea County NM

Laboratory: Eurofins Midland

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

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

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

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

Method Summary

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3744-1
SDG: Lea County NM

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3744-1
SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3744-1	SS12	Solid	12/28/22 14:00	12/30/22 12:40	0.5

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Chain of Custody

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

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	Hadlie Green	Bill to: (if different)	Kalei Jennings
Company Name:	Ensolum, LLC	Company Name:	Ensolum, LLC
Address:	601 N Marienfeld St Suite 400	Address:	601 N Marienfeld St Suite 400
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-557-8895	Email:	kjennings@ensolum.com; hgreen@ensolum.com

Work Order Comments

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

Project Name:	Wilder CTB Spill Can	Turn Around	☑ Routine ☐ Rush
Project Number:	03D2024135	Due Date:	
Project Location:	Lea County, NM	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Dmitry Nikanorov		
PO #:			

SAMPLE RECEIPT				
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No	
Samples Received Intact:	(Yes) No	Thermometer ID:	RM007	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	4.2	
Total Containers:		Corrected Temperature:	4.0	

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2SO_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)	Sample Comments
SS12	S	12/28/2022	1400	0.5'	Grab	1		x	x	x	

ANALYSIS REQUEST / Parameters

890-3744 Chain of Custody

Incident Number
~~03D2024135~~ DN

12.30.22

DN

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 DN Kanny		12.30.22 1240	2		
3			4		
5			6		

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3744-1
SDG Number: Lea County NM

Login Number: 3744
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3744-1
SDG Number: Lea County NM

Login Number: 3744
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 01/03/23 09:51 AM

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

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 1/6/2023 6:12:37 PM

JOB DESCRIPTION

Wilder CTB Spill Can
SDG NUMBER Lea County NM

JOB NUMBER

890-3745-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

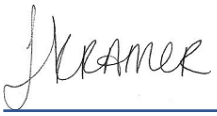
See page two for job notes and contact information.

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



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1/6/2023 6:12:37 PM

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

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Laboratory Job ID: 890-3745-1
SDG: Lea County NM

Table of Contents

Definitions/Glossary

Client: Ensolum Job ID: 890-3745-1
Project/Site: Wilder CTB Spill Can SDG: Lea County NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3745-1
SDG: Lea County NM

Job ID: 890-3745-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-3745-1

Receipt
The sample was received on 12/30/2022 12:40 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C

Receipt Exceptions
The following sample was received and analyzed from an unpreserved bulk soil jar: SS10 (890-3745-1).

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-43178 and analytical batch 880-43200 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

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

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

Client Sample Results

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3745-1
SDG: Lea County NM

Client Sample ID: SS10

Date Collected: 12/28/22 13:50
Date Received: 12/30/22 12:40
Sample Depth: 0.5

Lab Sample ID: 890-3745-1

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/04/23 15:26	01/05/23 17:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/04/23 15:26	01/05/23 17:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/04/23 15:26	01/05/23 17:44	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		01/04/23 15:26	01/05/23 17:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/04/23 15:26	01/05/23 17:44	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/04/23 15:26	01/05/23 17:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*01/04/23 15:26*	*01/05/23 17:44*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*01/04/23 15:26*	*01/05/23 17:44*	*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			01/06/23 08:35	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/06/23 11:39	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/04/23 09:27	01/05/23 12:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/04/23 09:27	01/05/23 12:03	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/04/23 09:27	01/05/23 12:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*117*		*70 - 130*	*01/04/23 09:27*	*01/05/23 12:03*	*1*
o-Terphenyl	*135*	*S1+*	*70 - 130*	*01/04/23 09:27*	*01/05/23 12:03*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7.60**		5.03		mg/Kg			01/06/23 16:58	1

Surrogate Summary

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3745-1
SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-23188-A-1-E MS	Matrix Spike	101	109
880-23188-A-1-F MSD	Matrix Spike Duplicate	98	108
890-3745-1	SS10	105	109
LCS 880-43178/1-A	Lab Control Sample	95	108
LCSD 880-43178/2-A	Lab Control Sample Dup	99	108
MB 880-43178/5-A	Method Blank	99	101

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-3745-1	SS10	117	135 S1+
890-3746-A-1-B MS	Matrix Spike	116	120
890-3746-A-1-C MSD	Matrix Spike Duplicate	117	124
LCS 880-43132/2-A	Lab Control Sample	106	112
LCSD 880-43132/3-A	Lab Control Sample Dup	95	104
MB 880-43132/1-A	Method Blank	116	141 S1+

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3745-1
SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-43178/5-A
Matrix: Solid
Analysis Batch: 43200

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 43178

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/04/23 15:26	01/05/23 11:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/04/23 15:26	01/05/23 11:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/04/23 15:26	01/05/23 11:28	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/04/23 15:26	01/05/23 11:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/04/23 15:26	01/05/23 11:28	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/04/23 15:26	01/05/23 11:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*01/04/23 15:26*	*01/05/23 11:28*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*01/04/23 15:26*	*01/05/23 11:28*	*1*

Lab Sample ID: LCS 880-43178/1-A
Matrix: Solid
Analysis Batch: 43200

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 43178

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09959		mg/Kg		100	70 - 130		
Toluene			0.100	0.09381		mg/Kg		94	70 - 130		
Ethylbenzene			0.100	0.09104		mg/Kg		91	70 - 130		
m-Xylene & p-Xylene			0.200	0.1883		mg/Kg		94	70 - 130		
o-Xylene			0.100	0.08972		mg/Kg		90	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

Lab Sample ID: LCSD 880-43178/2-A
Matrix: Solid
Analysis Batch: 43200

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 43178

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1047		mg/Kg		105	70 - 130	5	35
Toluene			0.100	0.09721		mg/Kg		97	70 - 130	4	35
Ethylbenzene			0.100	0.09513		mg/Kg		95	70 - 130	4	35
m-Xylene & p-Xylene			0.200	0.1965		mg/Kg		98	70 - 130	4	35
o-Xylene			0.100	0.09321		mg/Kg		93	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

Lab Sample ID: 880-23188-A-1-E MS
Matrix: Solid
Analysis Batch: 43200

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 43178

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00201	U	0.101	0.07475		mg/Kg		74	70 - 130		
Toluene	<0.00201	U F1	0.101	0.05821	F1	mg/Kg		57	70 - 130		

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3745-1
SDG: Lea County NM

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

Lab Sample ID: 880-23188-A-1-E MS
Matrix: Solid
Analysis Batch: 43200

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 43178

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U F1	0.101	0.04970	F1	mg/Kg		49	70 - 130
m-Xylene & p-Xylene	<0.00402	U F1	0.202	0.1017	F1	mg/Kg		50	70 - 130
o-Xylene	<0.00201	U F1	0.101	0.04826	F1	mg/Kg		48	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*

Lab Sample ID: 880-23188-A-1-F MSD
Matrix: Solid
Analysis Batch: 43200

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 43178

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0990	0.07783		mg/Kg		79	70 - 130	4	35
Toluene	<0.00201	U F1	0.0990	0.06118	F1	mg/Kg		61	70 - 130	5	35
Ethylbenzene	<0.00201	U F1	0.0990	0.05304	F1	mg/Kg		54	70 - 130	7	35
m-Xylene & p-Xylene	<0.00402	U F1	0.198	0.1076	F1	mg/Kg		54	70 - 130	6	35
o-Xylene	<0.00201	U F1	0.0990	0.05062	F1	mg/Kg		51	70 - 130	5	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

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

Lab Sample ID: MB 880-43132/1-A
Matrix: Solid
Analysis Batch: 43193

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 43132

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/04/23 09:27	01/05/23 08:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/04/23 09:27	01/05/23 08:23	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/04/23 09:27	01/05/23 08:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*116*		*70 - 130*	*01/04/23 09:27*	*01/05/23 08:23*	*1*
o-Terphenyl	*141*	*S1+*	*70 - 130*	*01/04/23 09:27*	*01/05/23 08:23*	*1*

Lab Sample ID: LCS 880-43132/2-A
Matrix: Solid
Analysis Batch: 43193

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 43132

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	973.0		mg/Kg		97	70 - 130
Diesel Range Organics (Over C10-C28)			1000	1092		mg/Kg		109	70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3745-1
SDG: Lea County NM

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

Lab Sample ID: LCS 880-43132/2-A
Matrix: Solid
Analysis Batch: 43193

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 43132

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	112		70 - 130

Lab Sample ID: LCSD 880-43132/3-A
Matrix: Solid
Analysis Batch: 43193

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 43132

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1093		mg/Kg		109	70 - 130	12	20
Diesel Range Organics (Over C10-C28)			1000	953.9		mg/Kg		95	70 - 130	14	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	104		70 - 130

Lab Sample ID: 890-3746-A-1-B MS
Matrix: Solid
Analysis Batch: 43193

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 43132

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1302		mg/Kg		130	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1249		mg/Kg		123	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	116		70 - 130
o-Terphenyl	120		70 - 130

Lab Sample ID: 890-3746-A-1-C MSD
Matrix: Solid
Analysis Batch: 43193

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 43132

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1285		mg/Kg		129	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1262		mg/Kg		125	70 - 130	1	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	117		70 - 130
o-Terphenyl	124		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3745-1
SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-43075/1-A
Matrix: Solid
Analysis Batch: 43283

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			01/06/23 12:48	1

Lab Sample ID: LCS 880-43075/2-A
Matrix: Solid
Analysis Batch: 43283

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	268.8		mg/Kg		108	90 - 110		

Lab Sample ID: LCSD 880-43075/3-A
Matrix: Solid
Analysis Batch: 43283

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	270.3		mg/Kg		108	90 - 110	1	20

Lab Sample ID: 880-23210-A-41-B MS
Matrix: Solid
Analysis Batch: 43283

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	146	F1	249	421.8	F1	mg/Kg		111	90 - 110		

Lab Sample ID: 880-23210-A-41-C MSD
Matrix: Solid
Analysis Batch: 43283

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	146	F1	249	422.5	F1	mg/Kg		111	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3745-1
SDG: Lea County NM

GC VOA

Prep Batch: 43178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3745-1	SS10	Total/NA	Solid	5035	
MB 880-43178/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-43178/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-43178/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-23188-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
880-23188-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 43200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3745-1	SS10	Total/NA	Solid	8021B	43178
MB 880-43178/5-A	Method Blank	Total/NA	Solid	8021B	43178
LCS 880-43178/1-A	Lab Control Sample	Total/NA	Solid	8021B	43178
LCSD 880-43178/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	43178
880-23188-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	43178
880-23188-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	43178

Analysis Batch: 43331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3745-1	SS10	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 43132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3745-1	SS10	Total/NA	Solid	8015NM Prep	
MB 880-43132/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-43132/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-43132/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3746-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3746-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 43193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3745-1	SS10	Total/NA	Solid	8015B NM	43132
MB 880-43132/1-A	Method Blank	Total/NA	Solid	8015B NM	43132
LCS 880-43132/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	43132
LCSD 880-43132/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	43132
890-3746-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	43132
890-3746-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	43132

Analysis Batch: 43365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3745-1	SS10	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 43075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3745-1	SS10	Soluble	Solid	DI Leach	
MB 880-43075/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-43075/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-43075/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

QC Association Summary

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3745-1
SDG: Lea County NM

HPLC/IC (Continued)

Leach Batch: 43075 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23210-A-41-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-23210-A-41-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 43283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3745-1	SS10	Soluble	Solid	300.0	43075
MB 880-43075/1-A	Method Blank	Soluble	Solid	300.0	43075
LCS 880-43075/2-A	Lab Control Sample	Soluble	Solid	300.0	43075
LCSD 880-43075/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	43075
880-23210-A-41-B MS	Matrix Spike	Soluble	Solid	300.0	43075
880-23210-A-41-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	43075

Lab Chronicle

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3745-1
SDG: Lea County NM

Client Sample ID: SS10

Date Collected: 12/28/22 13:50
Date Received: 12/30/22 12:40

Lab Sample ID: 890-3745-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	43178	01/04/23 15:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43200	01/05/23 17:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43331	01/06/23 08:35	AJ	EET MID
Total/NA	Analysis	8015 NM		1			43365	01/06/23 11:39	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	43132	01/04/23 09:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43193	01/05/23 12:03	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	43075	01/03/23 12:04	KS	EET MID
Soluble	Analysis	300.0		1			43283	01/06/23 16:58	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3745-1
SDG: Lea County NM

Laboratory: Eurofins Midland

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

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

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

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

Method Summary

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3745-1
SDG: Lea County NM

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3745-1
SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3745-1	SS10	Solid	12/28/22 13:50	12/30/22 12:40	0.5

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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: _____

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Project Manager:	Hadlie Green	Bill to: (if different)	Kalei Jennings
Company Name:	Ensolum, LLC	Company Name:	Ensolum, LLC
Address:	601 N Marienfeld St Suite 400	Address:	601 N Marienfeld St Suite 400
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-557-8895	Email:	kjennings@ensolum.com; hgreen@ensolum.com

Work Order Comments

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

Project Name:	Wilder CTB Spill Can	Turn Around	
Project Number:	03D2024135	☑ Routine ☐ Rush	
Project Location:	Lea County, NM	Due Date:	
Sampler's Name:	Dmitry Nikanorov	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	TEM007
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	4.2
Total Containers:		Corrected Temperature:	4.0

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2SO_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021	Sample Comments
SS10	S	12/28/2022	1350	0.5'	Grab	1		x	x	x	

ANALYSIS REQUEST / Parameters

890-3745 Chain of Custody

Incident Number
~~03D2024135~~ DIV

DN 12.30.22

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 DN		12.30.22 1240			
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3745-1
SDG Number: Lea County NM

Login Number: 3745
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3745-1
SDG Number: Lea County NM

Login Number: 3745
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 01/03/23 09:51 AM

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

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ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 1/9/2023 4:23:08 PM

JOB DESCRIPTION

Wilder CTB Spill Can
SDG NUMBER Lea County NM

JOB NUMBER

890-3746-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

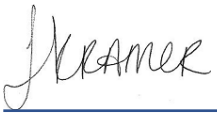
my EOL

Eurofins Carlsbad

Job Notes

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

Authorization



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

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Laboratory Job ID: 890-3746-1
SDG: Lea County NM

Table of Contents

Definitions/Glossary

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3746-1
SDG: Lea County NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3746-1
SDG: Lea County NM

Job ID: 890-3746-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-3746-1

Receipt
The sample was received on 12/30/2022 12:40 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C

Receipt Exceptions
The following sample was received and analyzed from an unpreserved bulk soil jar: SS09 (890-3746-1).

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): SS09 (890-3746-1). The container labels list <SAMPLE_ID>, while the COC lists <SAMPLEID>. The client was contacted, and the lab was instructed to <EXPLANATION_REQUIRED>.
Login 890-3746

Sample Jars	COC
SS09 12-28-22 13:50 0.5	SS09 12-28-22 13:45 0.5

Based off this infomation we can tell they are the same sample due to sample name,date,depth

GC VOA
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
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-43488 and analytical batch 880-43513 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3746-1
SDG: Lea County NM

Client Sample ID: SS09

Date Collected: 12/28/22 13:45
Date Received: 12/30/22 12:40
Sample Depth: 0.5

Lab Sample ID: 890-3746-1

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/04/23 14:24	01/06/23 12:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/04/23 14:24	01/06/23 12:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/04/23 14:24	01/06/23 12:40	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/04/23 14:24	01/06/23 12:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/04/23 14:24	01/06/23 12:40	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/04/23 14:24	01/06/23 12:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*01/04/23 14:24*	*01/06/23 12:40*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*01/04/23 14:24*	*01/06/23 12:40*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/06/23 15:28	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/06/23 11:39	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/04/23 09:27	01/05/23 10:57	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/04/23 09:27	01/05/23 10:57	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/04/23 09:27	01/05/23 10:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*134*	*S1+*	*70 - 130*	*01/04/23 09:27*	*01/05/23 10:57*	*1*
o-Terphenyl	*149*	*S1+*	*70 - 130*	*01/04/23 09:27*	*01/05/23 10:57*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**41.3**	**F1**	5.02		mg/Kg			01/09/23 11:45	1

Surrogate Summary

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3746-1
SDG: Lea County NM

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)
890-3738-A-1-E MS	Matrix Spike	99	105
890-3738-A-1-F MSD	Matrix Spike Duplicate	105	109
890-3746-1	SS09	111	106
LCS 880-43171/1-A	Lab Control Sample	104	106
LCSD 880-43171/2-A	Lab Control Sample Dup	102	107
MB 880-43171/5-A	Method Blank	99	105

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-3746-1	SS09	134 S1+	149 S1+
890-3746-1 MS	SS09	116	120
890-3746-1 MSD	SS09	117	124
LCS 880-43132/2-A	Lab Control Sample	106	112
LCSD 880-43132/3-A	Lab Control Sample Dup	95	104
MB 880-43132/1-A	Method Blank	116	141 S1+

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3746-1
SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-43171/5-A
Matrix: Solid
Analysis Batch: 43326

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 43171

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/04/23 14:24	01/06/23 11:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/04/23 14:24	01/06/23 11:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/04/23 14:24	01/06/23 11:51	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/04/23 14:24	01/06/23 11:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/04/23 14:24	01/06/23 11:51	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/04/23 14:24	01/06/23 11:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*01/04/23 14:24*	*01/06/23 11:51*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*01/04/23 14:24*	*01/06/23 11:51*	*1*

Lab Sample ID: LCS 880-43171/1-A
Matrix: Solid
Analysis Batch: 43326

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 43171

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.07559		mg/Kg		76	70 - 130		
Toluene			0.100	0.07256		mg/Kg		73	70 - 130		
Ethylbenzene			0.100	0.07155		mg/Kg		72	70 - 130		
m-Xylene & p-Xylene			0.200	0.1466		mg/Kg		73	70 - 130		
o-Xylene			0.100	0.07250		mg/Kg		73	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: LCSD 880-43171/2-A
Matrix: Solid
Analysis Batch: 43326

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 43171

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.07746		mg/Kg		77	70 - 130	2	35
Toluene			0.100	0.07295		mg/Kg		73	70 - 130	1	35
Ethylbenzene			0.100	0.07137		mg/Kg		71	70 - 130	0	35
m-Xylene & p-Xylene			0.200	0.1500		mg/Kg		75	70 - 130	2	35
o-Xylene			0.100	0.07359		mg/Kg		74	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: 890-3738-A-1-E MS
Matrix: Solid
Analysis Batch: 43326

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 43171

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00201	U	0.100	0.09220		mg/Kg		92	70 - 130		
Toluene	<0.00201	U	0.100	0.08852		mg/Kg		88	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3746-1
SDG: Lea County NM

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

Lab Sample ID: 890-3738-A-1-E MS
Matrix: Solid
Analysis Batch: 43326

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 43171

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U	0.100	0.08473		mg/Kg		85	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1759		mg/Kg		88	70 - 130
o-Xylene	<0.00201	U	0.100	0.08390		mg/Kg		84	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: 890-3738-A-1-F MSD
Matrix: Solid
Analysis Batch: 43326

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 43171

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0990	0.1018		mg/Kg		103	70 - 130	10	35
Toluene	<0.00201	U	0.0990	0.09453		mg/Kg		95	70 - 130	7	35
Ethylbenzene	<0.00201	U	0.0990	0.09255		mg/Kg		93	70 - 130	9	35
m-Xylene & p-Xylene	<0.00402	U	0.198	0.1923		mg/Kg		97	70 - 130	9	35
o-Xylene	<0.00201	U	0.0990	0.09249		mg/Kg		93	70 - 130	10	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*

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

Lab Sample ID: MB 880-43132/1-A
Matrix: Solid
Analysis Batch: 43193

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 43132

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/04/23 09:27	01/05/23 08:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/04/23 09:27	01/05/23 08:23	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/04/23 09:27	01/05/23 08:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*116*		*70 - 130*	*01/04/23 09:27*	*01/05/23 08:23*	*1*
o-Terphenyl	*141*	*S1+*	*70 - 130*	*01/04/23 09:27*	*01/05/23 08:23*	*1*

Lab Sample ID: LCS 880-43132/2-A
Matrix: Solid
Analysis Batch: 43193

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 43132

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	973.0		mg/Kg		97	70 - 130
Diesel Range Organics (Over C10-C28)			1000	1092		mg/Kg		109	70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3746-1
SDG: Lea County NM

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

Lab Sample ID: LCS 880-43132/2-A
Matrix: Solid
Analysis Batch: 43193

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 43132

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	112		70 - 130

Lab Sample ID: LCSD 880-43132/3-A
Matrix: Solid
Analysis Batch: 43193

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 43132

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1093		mg/Kg		109	70 - 130	12	20
Diesel Range Organics (Over C10-C28)			1000	953.9		mg/Kg		95	70 - 130	14	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	104		70 - 130

Lab Sample ID: 890-3746-1 MS
Matrix: Solid
Analysis Batch: 43193

Client Sample ID: SS09
Prep Type: Total/NA
Prep Batch: 43132

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1302		mg/Kg		130	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1249		mg/Kg		123	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	116		70 - 130
o-Terphenyl	120		70 - 130

Lab Sample ID: 890-3746-1 MSD
Matrix: Solid
Analysis Batch: 43193

Client Sample ID: SS09
Prep Type: Total/NA
Prep Batch: 43132

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1285		mg/Kg		129	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1262		mg/Kg		125	70 - 130	1	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	117		70 - 130
o-Terphenyl	124		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3746-1
SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-43488/1-A
Matrix: Solid
Analysis Batch: 43513

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			01/09/23 11:26	1

Lab Sample ID: LCS 880-43488/2-A
Matrix: Solid
Analysis Batch: 43513

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	254.7		mg/Kg		102	90 - 110		

Lab Sample ID: LCSD 880-43488/3-A
Matrix: Solid
Analysis Batch: 43513

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	270.9		mg/Kg		108	90 - 110	6	20

Lab Sample ID: 890-3746-1 MS
Matrix: Solid
Analysis Batch: 43513

Client Sample ID: SS09
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	41.3	F1	251	319.8	F1	mg/Kg		111	90 - 110		

Lab Sample ID: 890-3746-1 MSD
Matrix: Solid
Analysis Batch: 43513

Client Sample ID: SS09
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	41.3	F1	251	322.8	F1	mg/Kg		112	90 - 110	1	20

QC Association Summary

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3746-1
SDG: Lea County NM

GC VOA

Prep Batch: 43171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3746-1	SS09	Total/NA	Solid	5035	
MB 880-43171/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-43171/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-43171/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3738-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
890-3738-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 43326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3746-1	SS09	Total/NA	Solid	8021B	43171
MB 880-43171/5-A	Method Blank	Total/NA	Solid	8021B	43171
LCS 880-43171/1-A	Lab Control Sample	Total/NA	Solid	8021B	43171
LCSD 880-43171/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	43171
890-3738-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	43171
890-3738-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	43171

Analysis Batch: 43421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3746-1	SS09	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 43132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3746-1	SS09	Total/NA	Solid	8015NM Prep	
MB 880-43132/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-43132/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-43132/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3746-1 MS	SS09	Total/NA	Solid	8015NM Prep	
890-3746-1 MSD	SS09	Total/NA	Solid	8015NM Prep	

Analysis Batch: 43193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3746-1	SS09	Total/NA	Solid	8015B NM	43132
MB 880-43132/1-A	Method Blank	Total/NA	Solid	8015B NM	43132
LCS 880-43132/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	43132
LCSD 880-43132/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	43132
890-3746-1 MS	SS09	Total/NA	Solid	8015B NM	43132
890-3746-1 MSD	SS09	Total/NA	Solid	8015B NM	43132

Analysis Batch: 43364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3746-1	SS09	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 43488

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3746-1	SS09	Soluble	Solid	DI Leach	
MB 880-43488/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-43488/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-43488/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

QC Association Summary

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3746-1
SDG: Lea County NM

HPLC/IC (Continued)

Leach Batch: 43488 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3746-1 MS	SS09	Soluble	Solid	DI Leach	
890-3746-1 MSD	SS09	Soluble	Solid	DI Leach	

Analysis Batch: 43513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3746-1	SS09	Soluble	Solid	300.0	43488
MB 880-43488/1-A	Method Blank	Soluble	Solid	300.0	43488
LCS 880-43488/2-A	Lab Control Sample	Soluble	Solid	300.0	43488
LCSD 880-43488/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	43488
890-3746-1 MS	SS09	Soluble	Solid	300.0	43488
890-3746-1 MSD	SS09	Soluble	Solid	300.0	43488

Lab Chronicle

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3746-1
SDG: Lea County NM

Client Sample ID: SS09

Date Collected: 12/28/22 13:45
Date Received: 12/30/22 12:40

Lab Sample ID: 890-3746-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	43171	01/04/23 14:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43326	01/06/23 12:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43421	01/06/23 15:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			43364	01/06/23 11:39	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	43132	01/04/23 09:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43193	01/05/23 10:57	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	43488	01/09/23 09:37	KS	EET MID
Soluble	Analysis	300.0		1			43513	01/09/23 11:45	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3746-1
SDG: Lea County NM

Laboratory: Eurofins Midland

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

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

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

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

Method Summary

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3746-1
SDG: Lea County NM

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3746-1
SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3746-1	SS09	Solid	12/28/22 13:45	12/30/22 12:40	0.5

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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: _____

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Project Manager:	Hadlie Green	Bill to: (if different)	Kalei Jennings
Company Name:	Ensolum, LLC	Company Name:	Ensolum, LLC
Address:	601 N Marienfeld St Suite 400	Address:	601 N Marienfeld St Suite 400
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-557-8895	Email:	kjennings@ensolum.com; hgreen@ensolum.com

Work Order Comments

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

Project Name:	Wilder CTB Spill Can	Turn Around	☑ Routine ☐ Rush
Project Number:	03D2024135	Due Date:	
Project Location:	Lea County, NM	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Dmitry Nikanorov		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	TM007
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	4.2
Total Containers:		Corrected Temperature:	4.0

ANALYSIS REQUEST

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2SO_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

890-3746 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)	Sample Comments
SS09	S	12/28/2022	1345	0.5'	Grab	1		x	x	x	

Incident Number
03D2024135 DV

DN 12.30.22

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 DNikanorov	Alex Calp	12.30.22 1240			
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3746-1
SDG Number: Lea County NM

Login Number: 3746
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3746-1
SDG Number: Lea County NM

Login Number: 3746
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 01/03/23 09:51 AM

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

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ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 1/9/2023 4:25:39 PM

JOB DESCRIPTION

Wilder CTB Spill Can
SDG NUMBER Lea County NM

JOB NUMBER

890-3753-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

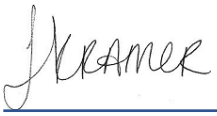
my EOL

Eurofins Carlsbad

Job Notes

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

Authorization



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1/9/2023 4:25:39 PM

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

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Laboratory Job ID: 890-3753-1
SDG: Lea County NM

Table of Contents

Definitions/Glossary

Client: Ensolum Job ID: 890-3753-1
Project/Site: Wilder CTB Spill Can SDG: Lea County NM

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

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3753-1
SDG: Lea County NM

Job ID: 890-3753-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-3753-1

Receipt
The samples were received on 12/30/2022 12:40 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: SS01 (890-3753-1), SS02 (890-3753-2), SS03 (890-3753-3), SS04 (890-3753-4), SS05 (890-3753-5), SS06 (890-3753-6), SS07 (890-3753-7) and SS08 (890-3753-8).

The container label for the following samples did not match the information listed on the Chain-of-Custody (COC): SS01 (890-3753-1), SS02 (890-3753-2), SS03 (890-3753-3), SS04 (890-3753-4), SS05 (890-3753-5), SS06 (890-3753-6), SS07 (890-3753-7) and SS08 (890-3753-8). The container labels list <SAMPLE_ID>, while the COC lists <SAMPLEID>. The client was contacted, and the lab was instructed to <EXPLANATION_REQUIRED>.
Login 890-3753

Sample Jars	COC
SS02 12-28-22 12:40 0.5	SS02 12-28-22 12:45 0.5
SS07 12-28-22 13:45 0.5	SS07 12-28-22 14:30 0.5
SS08 12-28-22 13:50 0.5	SS08 12-28-22 14:35 0.5

Based off this infomation we can tell they are the same sample due to sample name,date,depth

GC VOA
Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-43276 and analytical batch 880-43290 was outside the control limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: SS02 (890-3753-2). 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
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-43488 and analytical batch 880-43513 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3753-1
SDG: Lea County NM

Client Sample ID: SS01

Lab Sample ID: 890-3753-1
Matrix: Solid
Date Collected: 12/28/22 12:40
Date Received: 12/30/22 12:40
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		01/05/23 13:55	01/05/23 19:10	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/05/23 13:55	01/05/23 19:10	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/05/23 13:55	01/05/23 19:10	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		01/05/23 13:55	01/05/23 19:10	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/05/23 13:55	01/05/23 19:10	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		01/05/23 13:55	01/05/23 19:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*01/05/23 13:55*	*01/05/23 19:10*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*01/05/23 13:55*	*01/05/23 19:10*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			01/06/23 13:47	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/05/23 10:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/04/23 08:24	01/04/23 11:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/04/23 08:24	01/04/23 11:49	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/04/23 08:24	01/04/23 11:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*01/04/23 08:24*	*01/04/23 11:49*	*1*
o-Terphenyl	*100*		*70 - 130*	*01/04/23 08:24*	*01/04/23 11:49*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3510**		24.9		mg/Kg			01/09/23 13:35	5

Client Sample ID: SS02

Lab Sample ID: 890-3753-2
Matrix: Solid
Date Collected: 12/28/22 12:45
Date Received: 12/30/22 12:40
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/05/23 13:55	01/05/23 19:35	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/05/23 13:55	01/05/23 19:35	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/05/23 13:55	01/05/23 19:35	1
m-Xylene & p-Xylene	**0.0186**		0.00403		mg/Kg		01/05/23 13:55	01/05/23 19:35	1
o-Xylene	**0.00750**		0.00202		mg/Kg		01/05/23 13:55	01/05/23 19:35	1
Xylenes, Total	**0.0261**		0.00403		mg/Kg		01/05/23 13:55	01/05/23 19:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*69*	*S1-*	*70 - 130*	*01/05/23 13:55*	*01/05/23 19:35*	*1*

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3753-1
SDG: Lea County NM

Client Sample ID: SS02

Lab Sample ID: 890-3753-2
Matrix: Solid
Date Collected: 12/28/22 12:45
Date Received: 12/30/22 12:40
Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*01/05/23 13:55*	*01/05/23 19:35*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0261**		0.00403	mg/Kg			01/06/23 13:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**263**		49.9	mg/Kg			01/05/23 10:36	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/04/23 08:24	01/04/23 12:57	1
Diesel Range Organics (Over C10-C28)	**185**		49.9	mg/Kg		01/04/23 08:24	01/04/23 12:57	1
Oil Range Organics (Over C28-C36)	**78.2**		49.9	mg/Kg		01/04/23 08:24	01/04/23 12:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*111*		*70 - 130*	*01/04/23 08:24*	*01/04/23 12:57*	*1*
o-Terphenyl	*99*		*70 - 130*	*01/04/23 08:24*	*01/04/23 12:57*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5200**		50.3	mg/Kg			01/09/23 13:54	10

Client Sample ID: SS03

Lab Sample ID: 890-3753-3
Matrix: Solid
Date Collected: 12/28/22 12:50
Date Received: 12/30/22 12:40
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/05/23 13:55	01/05/23 20:00	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/05/23 13:55	01/05/23 20:00	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/05/23 13:55	01/05/23 20:00	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		01/05/23 13:55	01/05/23 20:00	1
o-Xylene	**0.00337**		0.00200	mg/Kg		01/05/23 13:55	01/05/23 20:00	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		01/05/23 13:55	01/05/23 20:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*01/05/23 13:55*	*01/05/23 20:00*	*1*
1,4-Difluorobenzene (Surr)	*118*		*70 - 130*	*01/05/23 13:55*	*01/05/23 20:00*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			01/06/23 13:47	1

Client Sample Results

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3753-1
SDG: Lea County NM

Client Sample ID: SS03

Lab Sample ID: 890-3753-3
Matrix: Solid
Date Collected: 12/28/22 12:50
Date Received: 12/30/22 12:40
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**129**		49.9		mg/Kg			01/05/23 10:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**61.1**		49.9		mg/Kg		01/04/23 08:24	01/04/23 13:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/04/23 08:24	01/04/23 13:18	1
Oil Range Organics (Over C28-C36)	**67.5**		49.9		mg/Kg		01/04/23 08:24	01/04/23 13:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*113*		*70 - 130*	*01/04/23 08:24*	*01/04/23 13:18*	*1*
o-Terphenyl	*103*		*70 - 130*	*01/04/23 08:24*	*01/04/23 13:18*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8560**		100		mg/Kg			01/09/23 14:00	20

Client Sample ID: SS04

Lab Sample ID: 890-3753-4
Matrix: Solid
Date Collected: 12/28/22 12:55
Date Received: 12/30/22 12:40
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		01/05/23 13:55	01/05/23 20:25	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/05/23 13:55	01/05/23 20:25	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/05/23 13:55	01/05/23 20:25	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		01/05/23 13:55	01/05/23 20:25	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/05/23 13:55	01/05/23 20:25	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		01/05/23 13:55	01/05/23 20:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*	*01/05/23 13:55*	*01/05/23 20:25*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*01/05/23 13:55*	*01/05/23 20:25*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			01/06/23 13:47	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/05/23 10:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		01/04/23 08:24	01/04/23 13:41	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/04/23 08:24	01/04/23 13:41	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/04/23 08:24	01/04/23 13:41	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3753-1
SDG: Lea County NM

Client Sample ID: SS04

Lab Sample ID: 890-3753-4
Matrix: Solid
Date Collected: 12/28/22 12:55
Date Received: 12/30/22 12:40
Sample Depth: 0.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*118*		*70 - 130*	*01/04/23 08:24*	*01/04/23 13:41*	*1*
o-Terphenyl	*111*		*70 - 130*	*01/04/23 08:24*	*01/04/23 13:41*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6740**		49.8	mg/Kg			01/09/23 14:06	10

Client Sample ID: SS05

Lab Sample ID: 890-3753-5
Matrix: Solid
Date Collected: 12/28/22 13:20
Date Received: 12/30/22 12:40
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		01/05/23 13:55	01/05/23 20:50	1
Toluene	<0.00201	U	0.00201	mg/Kg		01/05/23 13:55	01/05/23 20:50	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		01/05/23 13:55	01/05/23 20:50	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		01/05/23 13:55	01/05/23 20:50	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		01/05/23 13:55	01/05/23 20:50	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		01/05/23 13:55	01/05/23 20:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*	*01/05/23 13:55*	*01/05/23 20:50*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*01/05/23 13:55*	*01/05/23 20:50*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			01/06/23 13:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/05/23 10:36	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/04/23 08:24	01/04/23 14:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/04/23 08:24	01/04/23 14:03	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/04/23 08:24	01/04/23 14:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*110*		*70 - 130*	*01/04/23 08:24*	*01/04/23 14:03*	*1*
o-Terphenyl	*100*		*70 - 130*	*01/04/23 08:24*	*01/04/23 14:03*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6340**		49.7	mg/Kg			01/09/23 14:12	10

Client Sample Results

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3753-1
SDG: Lea County NM

Client Sample ID: SS06

Lab Sample ID: 890-3753-6
Matrix: Solid
Date Collected: 12/28/22 13:25
Date Received: 12/30/22 12:40
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/05/23 13:55	01/05/23 21:16	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/05/23 13:55	01/05/23 21:16	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/05/23 13:55	01/05/23 21:16	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/05/23 13:55	01/05/23 21:16	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/05/23 13:55	01/05/23 21:16	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/05/23 13:55	01/05/23 21:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*80*		*70 - 130*	*01/05/23 13:55*	*01/05/23 21:16*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*01/05/23 13:55*	*01/05/23 21:16*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/06/23 13:47	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			01/05/23 10:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/04/23 08:24	01/04/23 14:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/04/23 08:24	01/04/23 14:25	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/04/23 08:24	01/04/23 14:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*113*		*70 - 130*	*01/04/23 08:24*	*01/04/23 14:25*	*1*
o-Terphenyl	*101*		*70 - 130*	*01/04/23 08:24*	*01/04/23 14:25*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5330**		50.2		mg/Kg			01/09/23 14:19	10

Client Sample ID: SS07

Lab Sample ID: 890-3753-7
Matrix: Solid
Date Collected: 12/28/22 14:30
Date Received: 12/30/22 12:40
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/05/23 13:55	01/05/23 21:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/05/23 13:55	01/05/23 21:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/05/23 13:55	01/05/23 21:41	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/05/23 13:55	01/05/23 21:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/05/23 13:55	01/05/23 21:41	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/05/23 13:55	01/05/23 21:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*01/05/23 13:55*	*01/05/23 21:41*	*1*

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Client Sample Results

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3753-1
SDG: Lea County NM

Client Sample ID: SS07

Lab Sample ID: 890-3753-7
Matrix: Solid
Date Collected: 12/28/22 14:30
Date Received: 12/30/22 12:40
Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*01/05/23 13:55*	*01/05/23 21:41*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			01/06/23 13:47	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			01/05/23 10:36	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/04/23 08:24	01/04/23 14:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/04/23 08:24	01/04/23 14:47	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/04/23 08:24	01/04/23 14:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*112*		*70 - 130*	*01/04/23 08:24*	*01/04/23 14:47*	*1*
o-Terphenyl	*101*		*70 - 130*	*01/04/23 08:24*	*01/04/23 14:47*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**46.8**		5.01	mg/Kg			01/09/23 14:25	1

Client Sample ID: SS08

Lab Sample ID: 890-3753-8
Matrix: Solid
Date Collected: 12/28/22 14:35
Date Received: 12/30/22 12:40
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/05/23 13:55	01/05/23 22:06	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/05/23 13:55	01/05/23 22:06	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/05/23 13:55	01/05/23 22:06	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/05/23 13:55	01/05/23 22:06	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/05/23 13:55	01/05/23 22:06	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/05/23 13:55	01/05/23 22:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*72*		*70 - 130*	*01/05/23 13:55*	*01/05/23 22:06*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*01/05/23 13:55*	*01/05/23 22:06*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/06/23 13:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/05/23 10:36	1

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Client Sample Results

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3753-1
SDG: Lea County NM

Client Sample ID: SS08

Date Collected: 12/28/22 14:35
Date Received: 12/30/22 12:40
Sample Depth: 0.5

Lab Sample ID: 890-3753-8

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/04/23 08:24	01/04/23 15:09	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/04/23 08:24	01/04/23 15:09	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/04/23 08:24	01/04/23 15:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*01/04/23 08:24*	*01/04/23 15:09*	*1*
o-Terphenyl	*97*		*70 - 130*	*01/04/23 08:24*	*01/04/23 15:09*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2470**		24.9		mg/Kg			01/09/23 14:31	5

Surrogate Summary

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3753-1
SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-3753-1	SS01	86	94
890-3753-1 MS	SS01	92	114
890-3753-1 MSD	SS01	102	102
890-3753-2	SS02	69 S1-	78
890-3753-3	SS03	108	118
890-3753-4	SS04	82	92
890-3753-5	SS05	85	94
890-3753-6	SS06	80	106
890-3753-7	SS07	86	89
890-3753-8	SS08	72	87
LCS 880-43276/1-A	Lab Control Sample	88	105
LCSD 880-43276/2-A	Lab Control Sample Dup	96	107
MB 880-43276/5-A	Method Blank	57 S1-	93

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-3753-1	SS01	108	100
890-3753-1 MS	SS01	103	81
890-3753-1 MSD	SS01	101	79
890-3753-2	SS02	111	99
890-3753-3	SS03	113	103
890-3753-4	SS04	118	111
890-3753-5	SS05	110	100
890-3753-6	SS06	113	101
890-3753-7	SS07	112	101
890-3753-8	SS08	106	97
LCS 880-43112/2-A	Lab Control Sample	113	93
LCSD 880-43112/3-A	Lab Control Sample Dup	112	92
MB 880-43112/1-A	Method Blank	121	114

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3753-1
SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-43276/5-A
Matrix: Solid
Analysis Batch: 43290

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 43276

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/05/23 13:55	01/05/23 18:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/05/23 13:55	01/05/23 18:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/05/23 13:55	01/05/23 18:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/05/23 13:55	01/05/23 18:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/05/23 13:55	01/05/23 18:45	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/05/23 13:55	01/05/23 18:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*57*	*S1-*	*70 - 130*	*01/05/23 13:55*	*01/05/23 18:45*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*01/05/23 13:55*	*01/05/23 18:45*	*1*

Lab Sample ID: LCS 880-43276/1-A
Matrix: Solid
Analysis Batch: 43290

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 43276

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09927		mg/Kg		99	70 - 130		
Toluene			0.100	0.09850		mg/Kg		98	70 - 130		
Ethylbenzene			0.100	0.1013		mg/Kg		101	70 - 130		
m-Xylene & p-Xylene			0.200	0.2117		mg/Kg		106	70 - 130		
o-Xylene			0.100	0.09896		mg/Kg		99	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: LCSD 880-43276/2-A
Matrix: Solid
Analysis Batch: 43290

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 43276

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1036		mg/Kg		104	70 - 130	4	35
Toluene			0.100	0.09013		mg/Kg		90	70 - 130	9	35
Ethylbenzene			0.100	0.1002		mg/Kg		100	70 - 130	1	35
m-Xylene & p-Xylene			0.200	0.2118		mg/Kg		106	70 - 130	0	35
o-Xylene			0.100	0.1020		mg/Kg		102	70 - 130	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: 890-3753-1 MS
Matrix: Solid
Analysis Batch: 43290

Client Sample ID: SS01
Prep Type: Total/NA
Prep Batch: 43276

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00198	U	0.100	0.09748		mg/Kg		97	70 - 130		
Toluene	<0.00198	U	0.100	0.09076		mg/Kg		91	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3753-1
SDG: Lea County NM

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

Lab Sample ID: 890-3753-1 MS
Matrix: Solid
Analysis Batch: 43290

Client Sample ID: SS01
Prep Type: Total/NA
Prep Batch: 43276

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00198	U	0.100	0.09127		mg/Kg		91	70 - 130
m-Xylene & p-Xylene	<0.00396	U	0.200	0.1905		mg/Kg		95	70 - 130
o-Xylene	<0.00198	U	0.100	0.08991		mg/Kg		90	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*

Lab Sample ID: 890-3753-1 MSD
Matrix: Solid
Analysis Batch: 43290

Client Sample ID: SS01
Prep Type: Total/NA
Prep Batch: 43276

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.0998	0.1080		mg/Kg		108	70 - 130	10	35
Toluene	<0.00198	U	0.0998	0.1067		mg/Kg		107	70 - 130	16	35
Ethylbenzene	<0.00198	U	0.0998	0.1049		mg/Kg		105	70 - 130	14	35
m-Xylene & p-Xylene	<0.00396	U	0.200	0.2142		mg/Kg		107	70 - 130	12	35
o-Xylene	<0.00198	U	0.0998	0.1025		mg/Kg		103	70 - 130	13	35

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

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

Lab Sample ID: MB 880-43112/1-A
Matrix: Solid
Analysis Batch: 43104

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 43112

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/04/23 08:24	01/04/23 09:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/04/23 08:24	01/04/23 09:14	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/04/23 08:24	01/04/23 09:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*121*		*70 - 130*	*01/04/23 08:24*	*01/04/23 09:14*	*1*
o-Terphenyl	*114*		*70 - 130*	*01/04/23 08:24*	*01/04/23 09:14*	*1*

Lab Sample ID: LCS 880-43112/2-A
Matrix: Solid
Analysis Batch: 43104

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 43112

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	937.8		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)			1000	851.1		mg/Kg		85	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3753-1
SDG: Lea County NM

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

Lab Sample ID: LCS 880-43112/2-A
Matrix: Solid
Analysis Batch: 43104

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 43112

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	113		70 - 130
o-Terphenyl	93		70 - 130

Lab Sample ID: LCSD 880-43112/3-A
Matrix: Solid
Analysis Batch: 43104

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 43112

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	957.7		mg/Kg		96	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	876.0		mg/Kg		88	70 - 130	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	112		70 - 130
o-Terphenyl	92		70 - 130

Lab Sample ID: 890-3753-1 MS
Matrix: Solid
Analysis Batch: 43104

Client Sample ID: SS01
Prep Type: Total/NA
Prep Batch: 43112

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	960.7		mg/Kg		94	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	999	799.8		mg/Kg		80	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	81		70 - 130

Lab Sample ID: 890-3753-1 MSD
Matrix: Solid
Analysis Batch: 43104

Client Sample ID: SS01
Prep Type: Total/NA
Prep Batch: 43112

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	965.7		mg/Kg		95	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	788.5		mg/Kg		79	70 - 130	1	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	101		70 - 130
o-Terphenyl	79		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3753-1
SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-43488/1-A
Matrix: Solid
Analysis Batch: 43513

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			01/09/23 11:26	1

Lab Sample ID: LCS 880-43488/2-A
Matrix: Solid
Analysis Batch: 43513

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	254.7		mg/Kg		102	90 - 110		

Lab Sample ID: LCSD 880-43488/3-A
Matrix: Solid
Analysis Batch: 43513

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	270.9		mg/Kg		108	90 - 110	6	20

Lab Sample ID: 890-3746-A-1-G MS
Matrix: Solid
Analysis Batch: 43513

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	41.3	F1	251	319.8	F1	mg/Kg		111	90 - 110		

Lab Sample ID: 890-3746-A-1-H MSD
Matrix: Solid
Analysis Batch: 43513

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	41.3	F1	251	322.8	F1	mg/Kg		112	90 - 110	1	20

Lab Sample ID: 890-3752-A-3-D MS
Matrix: Solid
Analysis Batch: 43513

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	1780	F1	1240	3198	F1	mg/Kg		114	90 - 110		

Lab Sample ID: 890-3752-A-3-E MSD
Matrix: Solid
Analysis Batch: 43513

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1780	F1	1240	3522	F1	mg/Kg		141	90 - 110	10	20

QC Association Summary

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3753-1
SDG: Lea County NM

GC VOA

Prep Batch: 43276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3753-1	SS01	Total/NA	Solid	5035	
890-3753-2	SS02	Total/NA	Solid	5035	
890-3753-3	SS03	Total/NA	Solid	5035	
890-3753-4	SS04	Total/NA	Solid	5035	
890-3753-5	SS05	Total/NA	Solid	5035	
890-3753-6	SS06	Total/NA	Solid	5035	
890-3753-7	SS07	Total/NA	Solid	5035	
890-3753-8	SS08	Total/NA	Solid	5035	
MB 880-43276/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-43276/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-43276/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3753-1 MS	SS01	Total/NA	Solid	5035	
890-3753-1 MSD	SS01	Total/NA	Solid	5035	

Analysis Batch: 43290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3753-1	SS01	Total/NA	Solid	8021B	43276
890-3753-2	SS02	Total/NA	Solid	8021B	43276
890-3753-3	SS03	Total/NA	Solid	8021B	43276
890-3753-4	SS04	Total/NA	Solid	8021B	43276
890-3753-5	SS05	Total/NA	Solid	8021B	43276
890-3753-6	SS06	Total/NA	Solid	8021B	43276
890-3753-7	SS07	Total/NA	Solid	8021B	43276
890-3753-8	SS08	Total/NA	Solid	8021B	43276
MB 880-43276/5-A	Method Blank	Total/NA	Solid	8021B	43276
LCS 880-43276/1-A	Lab Control Sample	Total/NA	Solid	8021B	43276
LCSD 880-43276/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	43276
890-3753-1 MS	SS01	Total/NA	Solid	8021B	43276
890-3753-1 MSD	SS01	Total/NA	Solid	8021B	43276

Analysis Batch: 43398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3753-1	SS01	Total/NA	Solid	Total BTEX	
890-3753-2	SS02	Total/NA	Solid	Total BTEX	
890-3753-3	SS03	Total/NA	Solid	Total BTEX	
890-3753-4	SS04	Total/NA	Solid	Total BTEX	
890-3753-5	SS05	Total/NA	Solid	Total BTEX	
890-3753-6	SS06	Total/NA	Solid	Total BTEX	
890-3753-7	SS07	Total/NA	Solid	Total BTEX	
890-3753-8	SS08	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 43104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3753-1	SS01	Total/NA	Solid	8015B NM	43112
890-3753-2	SS02	Total/NA	Solid	8015B NM	43112
890-3753-3	SS03	Total/NA	Solid	8015B NM	43112
890-3753-4	SS04	Total/NA	Solid	8015B NM	43112
890-3753-5	SS05	Total/NA	Solid	8015B NM	43112
890-3753-6	SS06	Total/NA	Solid	8015B NM	43112

QC Association Summary

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3753-1
SDG: Lea County NM

GC Semi VOA (Continued)

Analysis Batch: 43104 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3753-7	SS07	Total/NA	Solid	8015B NM	43112
890-3753-8	SS08	Total/NA	Solid	8015B NM	43112
MB 880-43112/1-A	Method Blank	Total/NA	Solid	8015B NM	43112
LCS 880-43112/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	43112
LCSD 880-43112/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	43112
890-3753-1 MS	SS01	Total/NA	Solid	8015B NM	43112
890-3753-1 MSD	SS01	Total/NA	Solid	8015B NM	43112

Prep Batch: 43112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3753-1	SS01	Total/NA	Solid	8015NM Prep	
890-3753-2	SS02	Total/NA	Solid	8015NM Prep	
890-3753-3	SS03	Total/NA	Solid	8015NM Prep	
890-3753-4	SS04	Total/NA	Solid	8015NM Prep	
890-3753-5	SS05	Total/NA	Solid	8015NM Prep	
890-3753-6	SS06	Total/NA	Solid	8015NM Prep	
890-3753-7	SS07	Total/NA	Solid	8015NM Prep	
890-3753-8	SS08	Total/NA	Solid	8015NM Prep	
MB 880-43112/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-43112/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-43112/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3753-1 MS	SS01	Total/NA	Solid	8015NM Prep	
890-3753-1 MSD	SS01	Total/NA	Solid	8015NM Prep	

Analysis Batch: 43231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3753-1	SS01	Total/NA	Solid	8015 NM	
890-3753-2	SS02	Total/NA	Solid	8015 NM	
890-3753-3	SS03	Total/NA	Solid	8015 NM	
890-3753-4	SS04	Total/NA	Solid	8015 NM	
890-3753-5	SS05	Total/NA	Solid	8015 NM	
890-3753-6	SS06	Total/NA	Solid	8015 NM	
890-3753-7	SS07	Total/NA	Solid	8015 NM	
890-3753-8	SS08	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 43488

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3753-1	SS01	Soluble	Solid	DI Leach	
890-3753-2	SS02	Soluble	Solid	DI Leach	
890-3753-3	SS03	Soluble	Solid	DI Leach	
890-3753-4	SS04	Soluble	Solid	DI Leach	
890-3753-5	SS05	Soluble	Solid	DI Leach	
890-3753-6	SS06	Soluble	Solid	DI Leach	
890-3753-7	SS07	Soluble	Solid	DI Leach	
890-3753-8	SS08	Soluble	Solid	DI Leach	
MB 880-43488/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-43488/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-43488/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3746-A-1-G MS	Matrix Spike	Soluble	Solid	DI Leach	

QC Association Summary

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3753-1
SDG: Lea County NM

HPLC/IC (Continued)

Leach Batch: 43488 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3746-A-1-H MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
890-3752-A-3-D MS	Matrix Spike	Soluble	Solid	DI Leach	
890-3752-A-3-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 43513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3753-1	SS01	Soluble	Solid	300.0	43488
890-3753-2	SS02	Soluble	Solid	300.0	43488
890-3753-3	SS03	Soluble	Solid	300.0	43488
890-3753-4	SS04	Soluble	Solid	300.0	43488
890-3753-5	SS05	Soluble	Solid	300.0	43488
890-3753-6	SS06	Soluble	Solid	300.0	43488
890-3753-7	SS07	Soluble	Solid	300.0	43488
890-3753-8	SS08	Soluble	Solid	300.0	43488
MB 880-43488/1-A	Method Blank	Soluble	Solid	300.0	43488
LCS 880-43488/2-A	Lab Control Sample	Soluble	Solid	300.0	43488
LCSD 880-43488/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	43488
890-3746-A-1-G MS	Matrix Spike	Soluble	Solid	300.0	43488
890-3746-A-1-H MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	43488
890-3752-A-3-D MS	Matrix Spike	Soluble	Solid	300.0	43488
890-3752-A-3-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	43488

Lab Chronicle

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3753-1
SDG: Lea County NM

Client Sample ID: SS01
Date Collected: 12/28/22 12:40
Date Received: 12/30/22 12:40

Lab Sample ID: 890-3753-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	43276	01/05/23 13:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43290	01/05/23 19:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43398	01/06/23 13:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			43231	01/05/23 10:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	43112	01/04/23 08:24	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43104	01/04/23 11:49	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	43488	01/09/23 09:37	KS	EET MID
Soluble	Analysis	300.0		5			43513	01/09/23 13:35	CH	EET MID

Client Sample ID: SS02
Date Collected: 12/28/22 12:45
Date Received: 12/30/22 12:40

Lab Sample ID: 890-3753-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	43276	01/05/23 13:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43290	01/05/23 19:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43398	01/06/23 13:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			43231	01/05/23 10:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	43112	01/04/23 08:24	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43104	01/04/23 12:57	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	43488	01/09/23 09:37	KS	EET MID
Soluble	Analysis	300.0		10			43513	01/09/23 13:54	CH	EET MID

Client Sample ID: SS03
Date Collected: 12/28/22 12:50
Date Received: 12/30/22 12:40

Lab Sample ID: 890-3753-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	43276	01/05/23 13:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43290	01/05/23 20:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43398	01/06/23 13:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			43231	01/05/23 10:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	43112	01/04/23 08:24	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43104	01/04/23 13:18	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	43488	01/09/23 09:37	KS	EET MID
Soluble	Analysis	300.0		20			43513	01/09/23 14:00	CH	EET MID

Client Sample ID: SS04
Date Collected: 12/28/22 12:55
Date Received: 12/30/22 12:40

Lab Sample ID: 890-3753-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	43276	01/05/23 13:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43290	01/05/23 20:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43398	01/06/23 13:47	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3753-1
SDG: Lea County NM

Client Sample ID: SS04
Date Collected: 12/28/22 12:55
Date Received: 12/30/22 12:40

Lab Sample ID: 890-3753-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			43231	01/05/23 10:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	43112	01/04/23 08:24	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43104	01/04/23 13:41	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	43488	01/09/23 09:37	KS	EET MID
Soluble	Analysis	300.0		10			43513	01/09/23 14:06	CH	EET MID

Client Sample ID: SS05
Date Collected: 12/28/22 13:20
Date Received: 12/30/22 12:40

Lab Sample ID: 890-3753-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	43276	01/05/23 13:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43290	01/05/23 20:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43398	01/06/23 13:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			43231	01/05/23 10:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	43112	01/04/23 08:24	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43104	01/04/23 14:03	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	43488	01/09/23 09:37	KS	EET MID
Soluble	Analysis	300.0		10			43513	01/09/23 14:12	CH	EET MID

Client Sample ID: SS06
Date Collected: 12/28/22 13:25
Date Received: 12/30/22 12:40

Lab Sample ID: 890-3753-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	43276	01/05/23 13:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43290	01/05/23 21:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43398	01/06/23 13:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			43231	01/05/23 10:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	43112	01/04/23 08:24	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43104	01/04/23 14:25	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	43488	01/09/23 09:37	KS	EET MID
Soluble	Analysis	300.0		10			43513	01/09/23 14:19	CH	EET MID

Client Sample ID: SS07
Date Collected: 12/28/22 14:30
Date Received: 12/30/22 12:40

Lab Sample ID: 890-3753-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	43276	01/05/23 13:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43290	01/05/23 21:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43398	01/06/23 13:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			43231	01/05/23 10:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	43112	01/04/23 08:24	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43104	01/04/23 14:47	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3753-1
SDG: Lea County NM

Client Sample ID: SS07

Lab Sample ID: 890-3753-7
Matrix: Solid
Date Collected: 12/28/22 14:30
Date Received: 12/30/22 12:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	43488	01/09/23 09:37	KS	EET MID
Soluble	Analysis	300.0		1			43513	01/09/23 14:25	CH	EET MID

Client Sample ID: SS08

Lab Sample ID: 890-3753-8
Matrix: Solid
Date Collected: 12/28/22 14:35
Date Received: 12/30/22 12:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	43276	01/05/23 13:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43290	01/05/23 22:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43398	01/06/23 13:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			43231	01/05/23 10:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	43112	01/04/23 08:24	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43104	01/04/23 15:09	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	43488	01/09/23 09:37	KS	EET MID
Soluble	Analysis	300.0		5			43513	01/09/23 14:31	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3753-1
SDG: Lea County NM

Laboratory: Eurofins Midland

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

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

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

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

Method Summary

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3753-1
SDG: Lea County NM

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: Wilder CTB Spill Can

Job ID: 890-3753-1
SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3753-1	SS01	Solid	12/28/22 12:40	12/30/22 12:40	0.5
890-3753-2	SS02	Solid	12/28/22 12:45	12/30/22 12:40	0.5
890-3753-3	SS03	Solid	12/28/22 12:50	12/30/22 12:40	0.5
890-3753-4	SS04	Solid	12/28/22 12:55	12/30/22 12:40	0.5
890-3753-5	SS05	Solid	12/28/22 13:20	12/30/22 12:40	0.5
890-3753-6	SS06	Solid	12/28/22 13:25	12/30/22 12:40	0.5
890-3753-7	SS07	Solid	12/28/22 14:30	12/30/22 12:40	0.5
890-3753-8	SS08	Solid	12/28/22 14:35	12/30/22 12:40	0.5

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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: _____

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Project Manager:	Hadlie Green	Bill to: (if different)	Kalei Jennings
Company Name:	Ensolum, LLC	Company Name:	Ensolum, LLC
Address:	601 N Marienfeld St Suite 400	Address:	601 N Marienfeld St Suite 400
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-557-8895	Email:	kjennings@ensolum.com, hgreen@ensolum.com

Work Order Comments

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

Project Name:	Wilder CTB Spill Can	Turn Around	
Project Number:	03D2024135	☑ Routine ☐ Rush	
Project Location:	Lea County, NM	Due Date:	
Sampler's Name:	Dmitry Nikanorov	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Samples Received Intact:	(Yes) No	Thermometer ID:	IR-007	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	4.2	
Total Containers:		Corrected Temperature:	4.0	

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

890-3753 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)	Sample Comments
SS01	S	12/28/2022	1240	0.5'	Grab	1		x	x	x	
SS02	S	12/28/2022	1245	0.5'	Grab	1		x	x	x	
SS03	S	12/28/2022	1250	0.5'	Grab	1		x	x	x	Incident Number
SS04	S	12/28/2022	1255	0.5'	Grab	1		x	x	x	~~03D2024135~~ NV
SS05	S	12/28/2022	1320	0.5'	Grab	1		x	x	x	
SS06	S	12/28/2022	1325	0.5'	Grab	1		x	x	x	
SS07	S	12/28/2022	1430	0.5'	Grab	1		x	x	x	
~~SS08~~	~~S~~	~~12/28/2022~~	~~1435~~	~~0.5'~~	~~Grab~~	~~1~~		~~x~~	~~x~~	~~x~~	
DN		12.30	22								

ANALYSIS REQUEST

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 DNikanorov	~~Received by:~~	12.30.22 1021	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3753-1
SDG Number: Lea County NM

Login Number: 3753
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3753-1
SDG Number: Lea County NM

Login Number: 3753
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 01/03/23 09:51 AM

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

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 2/23/2023 12:08:26 PM

JOB DESCRIPTION

Wilder CTB
SDG NUMBER 03D2024135

JOB NUMBER

890-4103-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

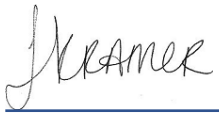
my EOL

Eurofins Carlsbad

Job Notes

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

Authorization



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

Client: Ensolum
Project/Site: Wilder CTB

Laboratory Job ID: 890-4103-1
SDG: 03D2024135

Table of Contents

Definitions/Glossary

Client: Ensolum
Project/Site: Wilder CTB

Job ID: 890-4103-1
SDG: 03D2024135

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

GC Semi VOA

Qualifier	Qualifier Description
*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.

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: Wilder CTB

Job ID: 890-4103-1
SDG: 03D2024135

Job ID: 890-4103-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-4103-1

Receipt
The samples were received on 2/14/2023 8:43 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 0.8°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: PH01A (890-4103-1), PH01D (890-4103-2), PH02A (890-4103-3), PH02D (890-4103-4), PH03A (890-4103-5), PH03D (890-4103-6), PH04A (890-4103-7), PH04D (890-4103-8), PH05A (890-4103-9), PH05D (890-4103-10), PH06A (890-4103-11), PH06D (890-4103-12), PH07A (890-4103-13), PH07D (890-4103-14), PH08A (890-4103-15) and PH08D (890-4103-16).

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-46534 and analytical batch 880-46482 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 samples were outside control limits: PH01A (890-4103-1), PH01D (890-4103-2), PH02A (890-4103-3), PH02D (890-4103-4), PH03D (890-4103-6), PH04A (890-4103-7), PH04D (890-4103-8), PH05A (890-4103-9), PH05D (890-4103-10), PH06A (890-4103-11), PH06D (890-4103-12), PH07A (890-4103-13), PH07D (890-4103-14), PH08A (890-4103-15) and PH08D (890-4103-16). Evidence of matrix interferences is not obvious.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-46840 and analytical batch 880-46927 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 samples were outside control limits: (890-4159-A-1-J), (890-4159-A-1-H MS) and (890-4159-A-1-I 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 method blank for preparation batch 880-46509 and analytical batch 880-46560 contained Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-46509 and analytical batch 880-46560 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 880-46463 and analytical batch 880-46815 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Ensolum
Project/Site: Wilder CTB

Job ID: 890-4103-1
SDG: 03D2024135

Client Sample ID: PH01A

Lab Sample ID: 890-4103-1
Matrix: Solid
Date Collected: 02/13/23 09:40
Date Received: 02/14/23 08:43
Sample Depth: 1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		02/16/23 14:15	02/17/23 03:37	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/16/23 14:15	02/17/23 03:37	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/16/23 14:15	02/17/23 03:37	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		02/16/23 14:15	02/17/23 03:37	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/16/23 14:15	02/17/23 03:37	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		02/16/23 14:15	02/17/23 03:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*133*	*S1+*	*70 - 130*	*02/16/23 14:15*	*02/17/23 03:37*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*02/16/23 14:15*	*02/17/23 03:37*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			02/20/23 13:54	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			02/20/23 15:10	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/16/23 09:41	02/17/23 14:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/16/23 09:41	02/17/23 14:02	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/16/23 09:41	02/17/23 14:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*02/16/23 09:41*	*02/17/23 14:02*	*1*
o-Terphenyl	*108*		*70 - 130*	*02/16/23 09:41*	*02/17/23 14:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2770**	**F1**	24.9		mg/Kg			02/21/23 01:27	5

Client Sample ID: PH01D

Lab Sample ID: 890-4103-2
Matrix: Solid
Date Collected: 02/13/23 09:55
Date Received: 02/14/23 08:43
Sample Depth: 4

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/16/23 14:15	02/17/23 03:58	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/16/23 14:15	02/17/23 03:58	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/16/23 14:15	02/17/23 03:58	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/16/23 14:15	02/17/23 03:58	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/16/23 14:15	02/17/23 03:58	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/16/23 14:15	02/17/23 03:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*140*	*S1+*	*70 - 130*	*02/16/23 14:15*	*02/17/23 03:58*	*1*

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Wilder CTB

Job ID: 890-4103-1
SDG: 03D2024135

Client Sample ID: PH01D

Date Collected: 02/13/23 09:55
Date Received: 02/14/23 08:43
Sample Depth: 4

Lab Sample ID: 890-4103-2

Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*02/16/23 14:15*	*02/17/23 03:58*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/20/23 13:54	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			02/20/23 15:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/16/23 09:41	02/17/23 14:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/16/23 09:41	02/17/23 14:24	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/16/23 09:41	02/17/23 14:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*02/16/23 09:41*	*02/17/23 14:24*	*1*
o-Terphenyl	*105*		*70 - 130*	*02/16/23 09:41*	*02/17/23 14:24*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4590**		50.5	mg/Kg			02/21/23 01:45	10

Client Sample ID: PH02A

Date Collected: 02/13/23 10:15
Date Received: 02/14/23 08:43
Sample Depth: 1

Lab Sample ID: 890-4103-3

Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		02/16/23 14:15	02/17/23 04:18	1
Toluene	<0.00202	U	0.00202	mg/Kg		02/16/23 14:15	02/17/23 04:18	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		02/16/23 14:15	02/17/23 04:18	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		02/16/23 14:15	02/17/23 04:18	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		02/16/23 14:15	02/17/23 04:18	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		02/16/23 14:15	02/17/23 04:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*137*	*S1+*	*70 - 130*	*02/16/23 14:15*	*02/17/23 04:18*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*02/16/23 14:15*	*02/17/23 04:18*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			02/20/23 13:54	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			02/20/23 15:10	1

Client Sample Results

Client: Ensolum
Project/Site: Wilder CTB

Job ID: 890-4103-1
SDG: 03D2024135

Client Sample ID: PH02A

Lab Sample ID: 890-4103-3
Matrix: Solid
Date Collected: 02/13/23 10:15
Date Received: 02/14/23 08:43
Sample Depth: 1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/16/23 09:41	02/17/23 14:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/16/23 09:41	02/17/23 14:47	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/16/23 09:41	02/17/23 14:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*02/16/23 09:41*	*02/17/23 14:47*	*1*
o-Terphenyl	*96*		*70 - 130*	*02/16/23 09:41*	*02/17/23 14:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2940**		25.0		mg/Kg			02/21/23 01:51	5

Client Sample ID: PH02D

Lab Sample ID: 890-4103-4
Matrix: Solid
Date Collected: 02/13/23 10:30
Date Received: 02/14/23 08:43
Sample Depth: 4

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/16/23 14:15	02/17/23 04:39	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/16/23 14:15	02/17/23 04:39	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/16/23 14:15	02/17/23 04:39	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/16/23 14:15	02/17/23 04:39	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/16/23 14:15	02/17/23 04:39	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/16/23 14:15	02/17/23 04:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*133*	*S1+*	*70 - 130*	*02/16/23 14:15*	*02/17/23 04:39*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*02/16/23 14:15*	*02/17/23 04:39*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/20/23 13:54	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/20/23 15:10	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/16/23 09:41	02/17/23 15:09	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/16/23 09:41	02/17/23 15:09	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/16/23 09:41	02/17/23 15:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*02/16/23 09:41*	*02/17/23 15:09*	*1*
o-Terphenyl	*115*		*70 - 130*	*02/16/23 09:41*	*02/17/23 15:09*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Wilder CTB

Job ID: 890-4103-1
SDG: 03D2024135

Client Sample ID: PH02D

Lab Sample ID: 890-4103-4
Matrix: Solid
Date Collected: 02/13/23 10:30
Date Received: 02/14/23 08:43
Sample Depth: 4

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4270		24.9		mg/Kg			02/21/23 02:10	5

Client Sample ID: PH03A

Lab Sample ID: 890-4103-5
Matrix: Solid
Date Collected: 02/13/23 10:45
Date Received: 02/14/23 08:43
Sample Depth: 1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		02/16/23 14:15	02/17/23 04:59	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/16/23 14:15	02/17/23 04:59	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/16/23 14:15	02/17/23 04:59	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		02/16/23 14:15	02/17/23 04:59	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/16/23 14:15	02/17/23 04:59	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		02/16/23 14:15	02/17/23 04:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*129*		*70 - 130*	*02/16/23 14:15*	*02/17/23 04:59*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*02/16/23 14:15*	*02/17/23 04:59*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			02/20/23 13:54	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/20/23 15:10	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/16/23 09:41	02/17/23 15:31	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/16/23 09:41	02/17/23 15:31	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/16/23 09:41	02/17/23 15:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*02/16/23 09:41*	*02/17/23 15:31*	*1*
o-Terphenyl	*108*		*70 - 130*	*02/16/23 09:41*	*02/17/23 15:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3770		25.1		mg/Kg			02/21/23 02:16	5

Client Sample Results

Client: Ensolum
Project/Site: Wilder CTB

Job ID: 890-4103-1
SDG: 03D2024135

Client Sample ID: PH03D

Date Collected: 02/13/23 11:00
Date Received: 02/14/23 08:43
Sample Depth: 4

Lab Sample ID: 890-4103-6

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/16/23 14:15	02/17/23 05:20	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/16/23 14:15	02/17/23 05:20	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/16/23 14:15	02/17/23 05:20	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/16/23 14:15	02/17/23 05:20	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/16/23 14:15	02/17/23 05:20	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/16/23 14:15	02/17/23 05:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*136*	*S1+*	*70 - 130*	*02/16/23 14:15*	*02/17/23 05:20*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*02/16/23 14:15*	*02/17/23 05:20*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/20/23 13:54	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/20/23 15:10	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/16/23 09:41	02/17/23 16:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/16/23 09:41	02/17/23 16:22	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/16/23 09:41	02/17/23 16:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*02/16/23 09:41*	*02/17/23 16:22*	*1*
o-Terphenyl	*105*		*70 - 130*	*02/16/23 09:41*	*02/17/23 16:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4760**		99.6		mg/Kg			02/21/23 02:22	20

Client Sample ID: PH04A

Date Collected: 02/13/23 12:20
Date Received: 02/14/23 08:43
Sample Depth: 1

Lab Sample ID: 890-4103-7

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/16/23 14:15	02/17/23 07:10	1
Toluene	**0.221**		0.00199		mg/Kg		02/16/23 14:15	02/17/23 07:10	1
Ethylbenzene	**0.0957**		0.00199		mg/Kg		02/16/23 14:15	02/17/23 07:10	1
m-Xylene & p-Xylene	<0.200	U	0.200		mg/Kg		02/21/23 11:07	02/23/23 05:34	50
o-Xylene	<0.100	U	0.100		mg/Kg		02/21/23 11:07	02/23/23 05:34	50
Xylenes, Total	<0.200	U	0.200		mg/Kg		02/21/23 11:07	02/23/23 05:34	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*450*	*S1+*	*70 - 130*	*02/16/23 14:15*	*02/17/23 07:10*	*1*

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Client Sample Results

Client: Ensolum
Project/Site: Wilder CTB

Job ID: 890-4103-1
SDG: 03D2024135

Client Sample ID: PH04A

Lab Sample ID: 890-4103-7
Matrix: Solid
Date Collected: 02/13/23 12:20
Date Received: 02/14/23 08:43
Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*	*02/16/23 14:15*	*02/17/23 07:10*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.317**		0.200	mg/Kg			02/20/23 13:54	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**2200**		49.8	mg/Kg			02/20/23 15:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**237**		49.8	mg/Kg		02/16/23 09:41	02/17/23 16:44	1
Diesel Range Organics (Over C10-C28)	**1790**		49.8	mg/Kg		02/16/23 09:41	02/17/23 16:44	1
Oil Range Organics (Over C28-C36)	**169**		49.8	mg/Kg		02/16/23 09:41	02/17/23 16:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*52*	*S1-*	*70 - 130*	*02/16/23 09:41*	*02/17/23 16:44*	*1*
o-Terphenyl	*30*	*S1-*	*70 - 130*	*02/16/23 09:41*	*02/17/23 16:44*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4320**		24.8	mg/Kg			02/21/23 02:28	5

Client Sample ID: PH04D

Lab Sample ID: 890-4103-8
Matrix: Solid
Date Collected: 02/13/23 12:35
Date Received: 02/14/23 08:43
Sample Depth: 4

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/16/23 14:15	02/17/23 07:31	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/16/23 14:15	02/17/23 07:31	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/16/23 14:15	02/17/23 07:31	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		02/16/23 14:15	02/17/23 07:31	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/16/23 14:15	02/17/23 07:31	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		02/16/23 14:15	02/17/23 07:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*135*	*S1+*	*70 - 130*	*02/16/23 14:15*	*02/17/23 07:31*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*02/16/23 14:15*	*02/17/23 07:31*	*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			02/20/23 13:54	1

Client Sample Results

Client: Ensolum
Project/Site: Wilder CTB

Job ID: 890-4103-1
SDG: 03D2024135

Client Sample ID: PH04D

Lab Sample ID: 890-4103-8
Matrix: Solid
Date Collected: 02/13/23 12:35
Date Received: 02/14/23 08:43
Sample Depth: 4

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**225**		49.9		mg/Kg			02/20/23 15:10	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/16/23 09:41	02/17/23 17:05	1
Diesel Range Organics (Over C10-C28)	**225**		49.9		mg/Kg		02/16/23 09:41	02/17/23 17:05	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/16/23 09:41	02/17/23 17:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*02/16/23 09:41*	*02/17/23 17:05*	*1*
o-Terphenyl	*110*		*70 - 130*	*02/16/23 09:41*	*02/17/23 17:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3830**		49.8		mg/Kg			02/21/23 02:35	10

Client Sample ID: PH05A

Lab Sample ID: 890-4103-9
Matrix: Solid
Date Collected: 02/13/23 12:40
Date Received: 02/14/23 08:43
Sample Depth: 1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/16/23 14:15	02/17/23 07:51	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/16/23 14:15	02/17/23 07:51	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/16/23 14:15	02/17/23 07:51	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/16/23 14:15	02/17/23 07:51	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/16/23 14:15	02/17/23 07:51	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/16/23 14:15	02/17/23 07:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*137*	*S1+*	*70 - 130*	*02/16/23 14:15*	*02/17/23 07:51*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*02/16/23 14:15*	*02/17/23 07:51*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/20/23 13:54	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			02/20/23 15:10	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/16/23 09:41	02/17/23 17:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/16/23 09:41	02/17/23 17:27	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/16/23 09:41	02/17/23 17:27	1

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Client Sample Results

Client: Ensolum
Project/Site: Wilder CTB

Job ID: 890-4103-1
SDG: 03D2024135

Client Sample ID: PH05A

Lab Sample ID: 890-4103-9
Matrix: Solid
Date Collected: 02/13/23 12:40
Date Received: 02/14/23 08:43
Sample Depth: 1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130	02/16/23 09:41	02/17/23 17:27	1
o-Terphenyl	99		70 - 130	02/16/23 09:41	02/17/23 17:27	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3860		25.0	mg/Kg			02/21/23 02:41	5

Client Sample ID: PH05D

Lab Sample ID: 890-4103-10
Matrix: Solid
Date Collected: 02/13/23 12:55
Date Received: 02/14/23 08:43
Sample Depth: 4

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		02/16/23 14:15	02/17/23 08:11	1
Toluene	<0.00202	U	0.00202	mg/Kg		02/16/23 14:15	02/17/23 08:11	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		02/16/23 14:15	02/17/23 08:11	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		02/16/23 14:15	02/17/23 08:11	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		02/16/23 14:15	02/17/23 08:11	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		02/16/23 14:15	02/17/23 08:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	143	S1+	70 - 130	02/16/23 14:15	02/17/23 08:11	1
1,4-Difluorobenzene (Surr)	106		70 - 130	02/16/23 14:15	02/17/23 08:11	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			02/20/23 13:54	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			02/19/23 12:20	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	mg/Kg		02/16/23 09:47	02/17/23 19:15	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/16/23 09:47	02/17/23 19:15	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/16/23 09:47	02/17/23 19:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	02/16/23 09:47	02/17/23 19:15	1
o-Terphenyl	94		70 - 130	02/16/23 09:47	02/17/23 19:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4280		49.7	mg/Kg			02/21/23 02:47	10

Client Sample Results

Client: Ensolum
Project/Site: Wilder CTB

Job ID: 890-4103-1
SDG: 03D2024135

Client Sample ID: PH06A

Lab Sample ID: 890-4103-11
Matrix: Solid
Date Collected: 02/13/23 13:00
Date Received: 02/14/23 08:43
Sample Depth: 1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/16/23 14:15	02/17/23 08:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/16/23 14:15	02/17/23 08:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/16/23 14:15	02/17/23 08:32	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/16/23 14:15	02/17/23 08:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/16/23 14:15	02/17/23 08:32	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/16/23 14:15	02/17/23 08:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*133*	*S1+*	*70 - 130*	*02/16/23 14:15*	*02/17/23 08:32*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*02/16/23 14:15*	*02/17/23 08:32*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/20/23 13:54	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/19/23 12:20	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8		mg/Kg		02/16/23 09:47	02/17/23 19:37	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/16/23 09:47	02/17/23 19:37	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/16/23 09:47	02/17/23 19:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*02/16/23 09:47*	*02/17/23 19:37*	*1*
o-Terphenyl	*95*		*70 - 130*	*02/16/23 09:47*	*02/17/23 19:37*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4360**		50.2		mg/Kg			02/16/23 23:05	10

Client Sample ID: PH06D

Lab Sample ID: 890-4103-12
Matrix: Solid
Date Collected: 02/13/23 13:15
Date Received: 02/14/23 08:43
Sample Depth: 4

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/16/23 14:15	02/17/23 08:52	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/16/23 14:15	02/17/23 08:52	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/16/23 14:15	02/17/23 08:52	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/16/23 14:15	02/17/23 08:52	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/16/23 14:15	02/17/23 08:52	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/16/23 14:15	02/17/23 08:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*138*	*S1+*	*70 - 130*	*02/16/23 14:15*	*02/17/23 08:52*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Wilder CTB

Job ID: 890-4103-1
SDG: 03D2024135

Client Sample ID: PH06D

Date Collected: 02/13/23 13:15
Date Received: 02/14/23 08:43
Sample Depth: 4

Lab Sample ID: 890-4103-12

Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*02/16/23 14:15*	*02/17/23 08:52*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			02/20/23 13:54	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			02/20/23 15:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		02/17/23 09:00	02/18/23 04:22	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		02/17/23 09:00	02/18/23 04:22	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		02/17/23 09:00	02/18/23 04:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*02/17/23 09:00*	*02/18/23 04:22*	*1*
o-Terphenyl	*100*		*70 - 130*	*02/17/23 09:00*	*02/18/23 04:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**863**		4.98	mg/Kg			02/16/23 23:10	1

Client Sample ID: PH07A

Date Collected: 02/13/23 13:30
Date Received: 02/14/23 08:43
Sample Depth: 1

Lab Sample ID: 890-4103-13

Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		02/16/23 14:15	02/17/23 09:13	1
Toluene	<0.00202	U	0.00202	mg/Kg		02/16/23 14:15	02/17/23 09:13	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		02/16/23 14:15	02/17/23 09:13	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		02/16/23 14:15	02/17/23 09:13	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		02/16/23 14:15	02/17/23 09:13	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		02/16/23 14:15	02/17/23 09:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*137*	*S1+*	*70 - 130*	*02/16/23 14:15*	*02/17/23 09:13*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*02/16/23 14:15*	*02/17/23 09:13*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			02/20/23 13:54	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			02/20/23 15:10	1

Client Sample Results

Client: Ensolum
Project/Site: Wilder CTB

Job ID: 890-4103-1
SDG: 03D2024135

Client Sample ID: PH07A

Lab Sample ID: 890-4103-13
Matrix: Solid
Date Collected: 02/13/23 13:30
Date Received: 02/14/23 08:43
Sample Depth: 1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/17/23 09:00	02/18/23 04:45	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/17/23 09:00	02/18/23 04:45	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/17/23 09:00	02/18/23 04:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*80*		*70 - 130*	*02/17/23 09:00*	*02/18/23 04:45*	*1*
o-Terphenyl	*88*		*70 - 130*	*02/17/23 09:00*	*02/18/23 04:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**304**		4.96		mg/Kg			02/16/23 23:14	1

Client Sample ID: PH07D

Lab Sample ID: 890-4103-14
Matrix: Solid
Date Collected: 02/13/23 13:45
Date Received: 02/14/23 08:43
Sample Depth: 4

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		02/16/23 14:15	02/17/23 09:33	1
Toluene	<0.00202	U	0.00202		mg/Kg		02/16/23 14:15	02/17/23 09:33	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/16/23 14:15	02/17/23 09:33	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		02/16/23 14:15	02/17/23 09:33	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		02/16/23 14:15	02/17/23 09:33	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		02/16/23 14:15	02/17/23 09:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*134*	*S1+*	*70 - 130*	*02/16/23 14:15*	*02/17/23 09:33*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*02/16/23 14:15*	*02/17/23 09:33*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			02/20/23 13:54	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			02/20/23 15:10	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/17/23 09:00	02/18/23 05:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/17/23 09:00	02/18/23 05:07	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/17/23 09:00	02/18/23 05:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*02/17/23 09:00*	*02/18/23 05:07*	*1*
o-Terphenyl	*106*		*70 - 130*	*02/17/23 09:00*	*02/18/23 05:07*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Wilder CTB

Job ID: 890-4103-1
SDG: 03D2024135

Client Sample ID: PH07D

Lab Sample ID: 890-4103-14
Matrix: Solid
Date Collected: 02/13/23 13:45
Date Received: 02/14/23 08:43
Sample Depth: 4

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	630		4.98		mg/Kg			02/16/23 23:19	1

Client Sample ID: PH08A

Lab Sample ID: 890-4103-15
Matrix: Solid
Date Collected: 02/13/23 14:00
Date Received: 02/14/23 08:43
Sample Depth: 1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		02/16/23 14:15	02/17/23 09:54	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/16/23 14:15	02/17/23 09:54	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/16/23 14:15	02/17/23 09:54	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		02/16/23 14:15	02/17/23 09:54	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/16/23 14:15	02/17/23 09:54	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		02/16/23 14:15	02/17/23 09:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*136*	*S1+*	*70 - 130*	*02/16/23 14:15*	*02/17/23 09:54*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*02/16/23 14:15*	*02/17/23 09:54*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			02/20/23 13:54	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/20/23 15:10	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/17/23 09:00	02/18/23 05:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/17/23 09:00	02/18/23 05:30	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/17/23 09:00	02/18/23 05:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*02/17/23 09:00*	*02/18/23 05:30*	*1*
o-Terphenyl	*98*		*70 - 130*	*02/17/23 09:00*	*02/18/23 05:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1440		25.0		mg/Kg			02/16/23 23:24	5

Client Sample Results

Client: Ensolum
Project/Site: Wilder CTB

Job ID: 890-4103-1
SDG: 03D2024135

Client Sample ID: PH08D

Date Collected: 02/13/23 14:15
Date Received: 02/14/23 08:43
Sample Depth: 4

Lab Sample ID: 890-4103-16

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/16/23 14:15	02/17/23 10:14	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/16/23 14:15	02/17/23 10:14	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/16/23 14:15	02/17/23 10:14	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/16/23 14:15	02/17/23 10:14	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/16/23 14:15	02/17/23 10:14	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/16/23 14:15	02/17/23 10:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*137*	*S1+*	*70 - 130*	*02/16/23 14:15*	*02/17/23 10:14*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*02/16/23 14:15*	*02/17/23 10:14*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/20/23 13:54	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**169**		49.9		mg/Kg			02/20/23 15:00	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/17/23 09:56	02/18/23 18:08	1
Diesel Range Organics (Over C10-C28)	**169**		49.9		mg/Kg		02/17/23 09:56	02/18/23 18:08	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/17/23 09:56	02/18/23 18:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*02/17/23 09:56*	*02/18/23 18:08*	*1*
o-Terphenyl	*95*		*70 - 130*	*02/17/23 09:56*	*02/18/23 18:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4930**		49.7		mg/Kg			02/16/23 23:29	10

Surrogate Summary

Client: Ensolum
Project/Site: Wilder CTB

Job ID: 890-4103-1
SDG: 03D2024135

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-24844-A-1-A MS	Matrix Spike	123	103
880-24844-A-1-B MSD	Matrix Spike Duplicate	128	102
890-4103-1	PH01A	133 S1+	105
890-4103-2	PH01D	140 S1+	108
890-4103-3	PH02A	137 S1+	106
890-4103-4	PH02D	133 S1+	108
890-4103-5	PH03A	129	106
890-4103-6	PH03D	136 S1+	109
890-4103-7	PH04A	450 S1+	116
890-4103-8	PH04D	135 S1+	109
890-4103-9	PH05A	137 S1+	109
890-4103-10	PH05D	143 S1+	106
890-4103-11	PH06A	133 S1+	106
890-4103-12	PH06D	138 S1+	107
890-4103-13	PH07A	137 S1+	106
890-4103-14	PH07D	134 S1+	106
890-4103-15	PH08A	136 S1+	108
890-4103-16	PH08D	137 S1+	108
890-4159-A-1-H MS	Matrix Spike	140 S1+	97
890-4159-A-1-I MSD	Matrix Spike Duplicate	143 S1+	11 S1-
LCS 880-46534/1-A	Lab Control Sample	127	106
LCS 880-46840/1-A	Lab Control Sample	126	116
LCSD 880-46534/2-A	Lab Control Sample Dup	128	106
LCSD 880-46840/2-A	Lab Control Sample Dup	111	111
MB 880-46421/5-A	Method Blank	119	98
MB 880-46534/5-A	Method Blank	121	102
MB 880-46840/5-A	Method Blank	78	81
MB 880-46865/5-A	Method Blank	75	91

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-24755-A-1-C MS	Matrix Spike	105	101
880-24755-A-1-D MSD	Matrix Spike Duplicate	110	105
880-24875-A-1-A MS	Matrix Spike	103	89
880-24875-A-1-B MSD	Matrix Spike Duplicate	93	84
890-4099-A-1-C MS	Matrix Spike	105	93
890-4099-A-1-D MSD	Matrix Spike Duplicate	101	90
890-4100-A-1-D MS	Matrix Spike	113	110
890-4100-A-1-E MSD	Matrix Spike Duplicate	109	107
890-4103-1	PH01A	99	108
890-4103-2	PH01D	90	105
890-4103-3	PH02A	85	96

Surrogate Summary

Client: Ensolum Job ID: 890-4103-1
Project/Site: Wilder CTB SDG: 03D2024135

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

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

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)										
890-4103-4	PH02D	104	115										
890-4103-5	PH03A	96	108										
890-4103-6	PH03D	90	105										
890-4103-7	PH04A	52 S1-	30 S1-										
890-4103-8	PH04D	101	110										
890-4103-9	PH05A	88	99										
890-4103-10	PH05D	101	94										
890-4103-11	PH06A	101	95										
890-4103-12	PH06D	89	100										
890-4103-13	PH07A	80	88										
890-4103-14	PH07D	96	106										
890-4103-15	PH08A	87	98										
890-4103-16	PH08D	95	95										
LCS 880-46507/2-A	Lab Control Sample	98	114										
LCS 880-46509/2-A	Lab Control Sample	100	90										
LCS 880-46578/2-A	Lab Control Sample	103	115										
LCS 880-46582/2-A	Lab Control Sample	99	105										
LCSD 880-46507/3-A	Lab Control Sample Dup	114	125										
LCSD 880-46509/3-A	Lab Control Sample Dup	100	99										
LCSD 880-46578/3-A	Lab Control Sample Dup	123	136 S1+										
LCSD 880-46582/3-A	Lab Control Sample Dup	98	107										
MB 880-46507/1-A	Method Blank	91	112										
MB 880-46509/1-A	Method Blank	100	94										
MB 880-46578/1-A	Method Blank	94	111										
MB 880-46582/1-A	Method Blank	97	105										

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Wilder CTB

Job ID: 890-4103-1
SDG: 03D2024135

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-46421/5-A
Matrix: Solid
Analysis Batch: 46482

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 46421

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/15/23 13:08	02/16/23 14:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/15/23 13:08	02/16/23 14:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/15/23 13:08	02/16/23 14:11	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/15/23 13:08	02/16/23 14:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/15/23 13:08	02/16/23 14:11	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/15/23 13:08	02/16/23 14:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*02/15/23 13:08*	*02/16/23 14:11*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*02/15/23 13:08*	*02/16/23 14:11*	*1*

Lab Sample ID: MB 880-46534/5-A
Matrix: Solid
Analysis Batch: 46482

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 46534

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/16/23 14:15	02/17/23 01:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/16/23 14:15	02/17/23 01:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/16/23 14:15	02/17/23 01:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/16/23 14:15	02/17/23 01:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/16/23 14:15	02/17/23 01:47	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/16/23 14:15	02/17/23 01:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*02/16/23 14:15*	*02/17/23 01:47*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*02/16/23 14:15*	*02/17/23 01:47*	*1*

Lab Sample ID: LCS 880-46534/1-A
Matrix: Solid
Analysis Batch: 46482

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 46534

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1259		mg/Kg		126	70 - 130		
Toluene			0.100	0.1242		mg/Kg		124	70 - 130		
Ethylbenzene			0.100	0.1209		mg/Kg		121	70 - 130		
m-Xylene & p-Xylene			0.200	0.2489		mg/Kg		124	70 - 130		
o-Xylene			0.100	0.1205		mg/Kg		121	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: LCSD 880-46534/2-A
Matrix: Solid
Analysis Batch: 46482

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 46534

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1261		mg/Kg		126	70 - 130	0	35

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QC Sample Results

Client: Ensolum
Project/Site: Wilder CTB

Job ID: 890-4103-1
SDG: 03D2024135

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

Lab Sample ID: LCSD 880-46534/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 46482 — **Prep Batch: 46534**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.1238		mg/Kg		124	70 - 130	0	35
Ethylbenzene			0.100	0.1230		mg/Kg		123	70 - 130	2	35
m-Xylene & p-Xylene			0.200	0.2540		mg/Kg		127	70 - 130	2	35
o-Xylene			0.100	0.1231		mg/Kg		123	70 - 130	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: 880-24844-A-1-A MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 46482 — **Prep Batch: 46534**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.101	0.09597		mg/Kg		95	70 - 130
Toluene	<0.00199	U	0.101	0.08045		mg/Kg		79	70 - 130
Ethylbenzene	<0.00199	U F1	0.101	0.06771	F1	mg/Kg		66	70 - 130
m-Xylene & p-Xylene	0.00509	F1	0.203	0.1422	F1	mg/Kg		68	70 - 130
o-Xylene	0.00524	F1	0.101	0.07111	F1	mg/Kg		65	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: 880-24844-A-1-B MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 46482 — **Prep Batch: 46534**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0996	0.09101		mg/Kg		91	70 - 130	5	35
Toluene	<0.00199	U	0.0996	0.07157		mg/Kg		72	70 - 130	12	35
Ethylbenzene	<0.00199	U F1	0.0996	0.05876	F1	mg/Kg		58	70 - 130	14	35
m-Xylene & p-Xylene	0.00509	F1	0.199	0.1255	F1	mg/Kg		60	70 - 130	12	35
o-Xylene	0.00524	F1	0.0996	0.06290	F1	mg/Kg		58	70 - 130	12	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: MB 880-46840/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 46927 — **Prep Batch: 46840**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/21/23 09:00	02/22/23 21:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/21/23 09:00	02/22/23 21:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/21/23 09:00	02/22/23 21:43	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/21/23 09:00	02/22/23 21:43	1

QC Sample Results

Client: Ensolum
Project/Site: Wilder CTB

Job ID: 890-4103-1
SDG: 03D2024135

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

Lab Sample ID: MB 880-46840/5-A
Matrix: Solid
Analysis Batch: 46927

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 46840

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/21/23 09:00	02/22/23 21:43	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/21/23 09:00	02/22/23 21:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*78*		*70 - 130*	*02/21/23 09:00*	*02/22/23 21:43*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*02/21/23 09:00*	*02/22/23 21:43*	*1*

Lab Sample ID: LCS 880-46840/1-A
Matrix: Solid
Analysis Batch: 46927

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 46840

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09996		mg/Kg		100	70 - 130		
Toluene			0.100	0.1015		mg/Kg		102	70 - 130		
Ethylbenzene			0.100	0.1112		mg/Kg		111	70 - 130		
m-Xylene & p-Xylene			0.200	0.2434		mg/Kg		122	70 - 130		
o-Xylene			0.100	0.1228		mg/Kg		123	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*

Lab Sample ID: LCSD 880-46840/2-A
Matrix: Solid
Analysis Batch: 46927

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 46840

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1066		mg/Kg		107	70 - 130	6	35
Toluene			0.100	0.1008		mg/Kg		101	70 - 130	1	35
Ethylbenzene			0.100	0.1052		mg/Kg		105	70 - 130	6	35
m-Xylene & p-Xylene			0.200	0.2228		mg/Kg		111	70 - 130	9	35
o-Xylene			0.100	0.1116		mg/Kg		112	70 - 130	10	35

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

Lab Sample ID: 890-4159-A-1-H MS
Matrix: Solid
Analysis Batch: 46927

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 46840

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	0.0673	F1	0.101	<0.0504	U F1	mg/Kg		-29	70 - 130		
Toluene	0.0608	F1 F2	0.101	3.060	F1	mg/Kg		2975	70 - 130		
Ethylbenzene	<0.0497	U F1	0.101	3.110	F1	mg/Kg		3048	70 - 130		
m-Xylene & p-Xylene	<0.0994	U F1	0.202	6.756	F1	mg/Kg		3324	70 - 130		
o-Xylene	<0.0497	U F1	0.101	3.512	F1	mg/Kg		3461	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: Wilder CTB

Job ID: 890-4103-1
SDG: 03D2024135

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

Lab Sample ID: 890-4159-A-1-H MS
Matrix: Solid
Analysis Batch: 46927

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 46840

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	*140*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: 890-4159-A-1-I MSD
Matrix: Solid
Analysis Batch: 46927

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 46840

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.0673	F1	0.0996	<0.0498	U F1	mg/Kg		0	70 - 130	NC	35
Toluene	0.0608	F1 F2	0.0996	<0.0498	U F1 F2	mg/Kg		-30	70 - 130	196	35
Ethylbenzene	<0.0497	U F1	0.0996	3.057	F1	mg/Kg		3032	70 - 130	2	35
m-Xylene & p-Xylene	<0.0994	U F1	0.199	6.412	F1	mg/Kg		3192	70 - 130	5	35
o-Xylene	<0.0497	U F1	0.0996	3.456	F1	mg/Kg		3448	70 - 130	2	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	*143*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*11*	*S1-*	*70 - 130*

Lab Sample ID: MB 880-46865/5-A
Matrix: Solid
Analysis Batch: 46927

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 46865

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:29	02/22/23 10:57	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:29	02/22/23 10:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:29	02/22/23 10:57	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/21/23 14:29	02/22/23 10:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:29	02/22/23 10:57	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/21/23 14:29	02/22/23 10:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*75*		*70 - 130*	*02/21/23 14:29*	*02/22/23 10:57*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*02/21/23 14:29*	*02/22/23 10:57*	*1*

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

Lab Sample ID: MB 880-46507/1-A
Matrix: Solid
Analysis Batch: 46558

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 46507

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/16/23 09:40	02/17/23 08:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/16/23 09:40	02/17/23 08:54	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/16/23 09:40	02/17/23 08:54	1

QC Sample Results

Client: Ensolum
Project/Site: Wilder CTB

Job ID: 890-4103-1
SDG: 03D2024135

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

Lab Sample ID: MB 880-46507/1-A
Matrix: Solid
Analysis Batch: 46558

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 46507

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130	02/16/23 09:40	02/17/23 08:54	1
o-Terphenyl	112		70 - 130	02/16/23 09:40	02/17/23 08:54	1

Lab Sample ID: LCS 880-46507/2-A
Matrix: Solid
Analysis Batch: 46558

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 46507

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	860.8		mg/Kg		86	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	994.1		mg/Kg		99	70 - 130		

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

Lab Sample ID: LCSD 880-46507/3-A
Matrix: Solid
Analysis Batch: 46558

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 46507

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	988.4		mg/Kg		99	70 - 130	14	20
Diesel Range Organics (Over C10-C28)			1000	1078		mg/Kg		108	70 - 130	8	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	114		70 - 130
o-Terphenyl	125		70 - 130

Lab Sample ID: 890-4100-A-1-D MS
Matrix: Solid
Analysis Batch: 46558

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 46507

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	1000	1059		mg/Kg		101	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.8	U	1000	1114		mg/Kg		110	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	113		70 - 130
o-Terphenyl	110		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Wilder CTB

Job ID: 890-4103-1
SDG: 03D2024135

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

Lab Sample ID: 890-4100-A-1-E MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 46558 — **Prep Batch: 46507**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	1000	1047		mg/Kg		100	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.8	U	1000	1079		mg/Kg		106	70 - 130	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*109*		*70 - 130*
o-Terphenyl	*107*		*70 - 130*

Lab Sample ID: MB 880-46509/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 46560 — **Prep Batch: 46509**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/16/23 09:47	02/17/23 08:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/16/23 09:47	02/17/23 08:54	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/16/23 09:47	02/17/23 08:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*02/16/23 09:47*	*02/17/23 08:54*	*1*
o-Terphenyl	*94*		*70 - 130*	*02/16/23 09:47*	*02/17/23 08:54*	*1*

Lab Sample ID: LCS 880-46509/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 46560 — **Prep Batch: 46509**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	825.8		mg/Kg		83	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	912.4		mg/Kg		91	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*100*		*70 - 130*
o-Terphenyl	*90*		*70 - 130*

Lab Sample ID: LCSD 880-46509/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 46560 — **Prep Batch: 46509**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1126	*1	mg/Kg		113	70 - 130	31	20
Diesel Range Organics (Over C10-C28)			1000	1011		mg/Kg		101	70 - 130	10	20

QC Sample Results

Client: Ensolum
Project/Site: Wilder CTB

Job ID: 890-4103-1
SDG: 03D2024135

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

Lab Sample ID: LCSD 880-46509/3-A
Matrix: Solid
Analysis Batch: 46560

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 46509

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	99		70 - 130

Lab Sample ID: 890-4099-A-1-C MS
Matrix: Solid
Analysis Batch: 46560

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 46509

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	1000	1085		mg/Kg		105	70 - 130
Diesel Range Organics (Over C10-C28)	<49.8	U	1000	886.5		mg/Kg		87	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	93		70 - 130

Lab Sample ID: 890-4099-A-1-D MSD
Matrix: Solid
Analysis Batch: 46560

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 46509

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	1000	1111		mg/Kg		107	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.8	U	1000	863.0		mg/Kg		85	70 - 130	3	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	101		70 - 130
o-Terphenyl	90		70 - 130

Lab Sample ID: MB 880-46578/1-A
Matrix: Solid
Analysis Batch: 46558

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 46578

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/17/23 09:00	02/17/23 20:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/17/23 09:00	02/17/23 20:20	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/17/23 09:00	02/17/23 20:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130	02/17/23 09:00	02/17/23 20:20	1
o-Terphenyl	111		70 - 130	02/17/23 09:00	02/17/23 20:20	1

QC Sample Results

Client: Ensolum
Project/Site: Wilder CTB

Job ID: 890-4103-1
SDG: 03D2024135

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

Lab Sample ID: LCS 880-46578/2-A
Matrix: Solid
Analysis Batch: 46558

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 46578

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	820.1		mg/Kg		82	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	884.2		mg/Kg		88	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*103*		*70 - 130*
o-Terphenyl	*115*		*70 - 130*

Lab Sample ID: LCSD 880-46578/3-A
Matrix: Solid
Analysis Batch: 46558

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 46578

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	979.3		mg/Kg		98	70 - 130	18	20
Diesel Range Organics (Over C10-C28)			1000	1072		mg/Kg		107	70 - 130	19	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*123*		*70 - 130*
o-Terphenyl	*136*	*S1+*	*70 - 130*

Lab Sample ID: 880-24755-A-1-C MS
Matrix: Solid
Analysis Batch: 46558

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 46578

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1000	1021		mg/Kg		100	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	1042		mg/Kg		100	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*105*		*70 - 130*
o-Terphenyl	*101*		*70 - 130*

Lab Sample ID: 880-24755-A-1-D MSD
Matrix: Solid
Analysis Batch: 46558

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 46578

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1000	1040		mg/Kg		102	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	1084		mg/Kg		104	70 - 130	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*110*		*70 - 130*

QC Sample Results

Client: Ensolum
Project/Site: Wilder CTB

Job ID: 890-4103-1
SDG: 03D2024135

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

Lab Sample ID: 880-24755-A-1-D MSD
Matrix: Solid
Analysis Batch: 46558

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 46578

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-Terphenyl	105		70 - 130

Lab Sample ID: MB 880-46582/1-A
Matrix: Solid
Analysis Batch: 46615

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 46582

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/17/23 09:56	02/18/23 08:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/17/23 09:56	02/18/23 08:39	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/17/23 09:56	02/18/23 08:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	02/17/23 09:56	02/18/23 08:39	1
o-Terphenyl	105		70 - 130	02/17/23 09:56	02/18/23 08:39	1

Lab Sample ID: LCS 880-46582/2-A
Matrix: Solid
Analysis Batch: 46615

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 46582

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	824.1		mg/Kg		82	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	968.2		mg/Kg		97	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	105		70 - 130

Lab Sample ID: LCSD 880-46582/3-A
Matrix: Solid
Analysis Batch: 46615

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 46582

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	799.6		mg/Kg		80	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	1012		mg/Kg		101	70 - 130	4	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenyl	107		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Wilder CTB

Job ID: 890-4103-1
SDG: 03D2024135

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

Lab Sample ID: 880-24875-A-1-A MS
Matrix: Solid
Analysis Batch: 46615

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 46582

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	934.5		mg/Kg		93	70 - 130
Diesel Range Organics (Over C10-C28)	61.4		1000	952.5		mg/Kg		89	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*103*		*70 - 130*
o-Terphenyl	*89*		*70 - 130*

Lab Sample ID: 880-24875-A-1-B MSD
Matrix: Solid
Analysis Batch: 46615

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 46582

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	892.6		mg/Kg		89	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	61.4		1000	905.1		mg/Kg		84	70 - 130	5	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*93*		*70 - 130*
o-Terphenyl	*84*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-46459/1-A
Matrix: Solid
Analysis Batch: 46551

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			02/16/23 21:05	1

Lab Sample ID: LCS 880-46459/2-A
Matrix: Solid
Analysis Batch: 46551

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride			250	238.5		mg/Kg		95	90 - 110

Lab Sample ID: LCSD 880-46459/3-A
Matrix: Solid
Analysis Batch: 46551

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	261.8		mg/Kg		105	90 - 110	9	20

QC Sample Results

Client: Ensolum
Project/Site: Wilder CTB

Job ID: 890-4103-1
SDG: 03D2024135

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-4094-A-1-E MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 46551

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	11.1		251	262.5		mg/Kg		100	90 - 110

Lab Sample ID: 890-4094-A-1-F MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 46551

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	11.1		251	267.7		mg/Kg		102	90 - 110	2	20

Lab Sample ID: 890-4101-A-25-B MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 46551

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	731		1240	2016		mg/Kg		103	90 - 110

Lab Sample ID: 890-4101-A-25-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 46551

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	731		1240	2095		mg/Kg		110	90 - 110	4	20

Lab Sample ID: MB 880-46463/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 46815

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			02/20/23 23:42	1

Lab Sample ID: LCS 880-46463/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 46815

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride			250	238.1		mg/Kg		95	90 - 110

Lab Sample ID: LCSD 880-46463/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 46815

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	244.3		mg/Kg		98	90 - 110	3	20

Lab Sample ID: 890-4103-1 MS — **Client Sample ID: PH01A**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 46815

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	2770	F1	1240	4141	F1	mg/Kg		111	90 - 110

QC Sample Results

Client: Ensolum
Project/Site: Wilder CTB

Job ID: 890-4103-1
SDG: 03D2024135

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-4103-1 MSD
Matrix: Solid
Analysis Batch: 46815

Client Sample ID: PH01A
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2770	F1	1240	4141	F1	mg/Kg		111	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: Wilder CTB

Job ID: 890-4103-1
SDG: 03D2024135

GC VOA

Prep Batch: 46421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-46421/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 46482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4103-1	PH01A	Total/NA	Solid	8021B	46534
890-4103-2	PH01D	Total/NA	Solid	8021B	46534
890-4103-3	PH02A	Total/NA	Solid	8021B	46534
890-4103-4	PH02D	Total/NA	Solid	8021B	46534
890-4103-5	PH03A	Total/NA	Solid	8021B	46534
890-4103-6	PH03D	Total/NA	Solid	8021B	46534
890-4103-7	PH04A	Total/NA	Solid	8021B	46534
890-4103-8	PH04D	Total/NA	Solid	8021B	46534
890-4103-9	PH05A	Total/NA	Solid	8021B	46534
890-4103-10	PH05D	Total/NA	Solid	8021B	46534
890-4103-11	PH06A	Total/NA	Solid	8021B	46534
890-4103-12	PH06D	Total/NA	Solid	8021B	46534
890-4103-13	PH07A	Total/NA	Solid	8021B	46534
890-4103-14	PH07D	Total/NA	Solid	8021B	46534
890-4103-15	PH08A	Total/NA	Solid	8021B	46534
890-4103-16	PH08D	Total/NA	Solid	8021B	46534
MB 880-46421/5-A	Method Blank	Total/NA	Solid	8021B	46421
MB 880-46534/5-A	Method Blank	Total/NA	Solid	8021B	46534
LCS 880-46534/1-A	Lab Control Sample	Total/NA	Solid	8021B	46534
LCSD 880-46534/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	46534
880-24844-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	46534
880-24844-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	46534

Prep Batch: 46534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4103-1	PH01A	Total/NA	Solid	5035	
890-4103-2	PH01D	Total/NA	Solid	5035	
890-4103-3	PH02A	Total/NA	Solid	5035	
890-4103-4	PH02D	Total/NA	Solid	5035	
890-4103-5	PH03A	Total/NA	Solid	5035	
890-4103-6	PH03D	Total/NA	Solid	5035	
890-4103-7	PH04A	Total/NA	Solid	5035	
890-4103-8	PH04D	Total/NA	Solid	5035	
890-4103-9	PH05A	Total/NA	Solid	5035	
890-4103-10	PH05D	Total/NA	Solid	5035	
890-4103-11	PH06A	Total/NA	Solid	5035	
890-4103-12	PH06D	Total/NA	Solid	5035	
890-4103-13	PH07A	Total/NA	Solid	5035	
890-4103-14	PH07D	Total/NA	Solid	5035	
890-4103-15	PH08A	Total/NA	Solid	5035	
890-4103-16	PH08D	Total/NA	Solid	5035	
MB 880-46534/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-46534/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-46534/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-24844-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-24844-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

QC Association Summary

Client: Ensolum
Project/Site: Wilder CTB

Job ID: 890-4103-1
SDG: 03D2024135

GC VOA

Analysis Batch: 46734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4103-1	PH01A	Total/NA	Solid	Total BTEX	
890-4103-2	PH01D	Total/NA	Solid	Total BTEX	
890-4103-3	PH02A	Total/NA	Solid	Total BTEX	
890-4103-4	PH02D	Total/NA	Solid	Total BTEX	
890-4103-5	PH03A	Total/NA	Solid	Total BTEX	
890-4103-6	PH03D	Total/NA	Solid	Total BTEX	
890-4103-7	PH04A	Total/NA	Solid	Total BTEX	
890-4103-8	PH04D	Total/NA	Solid	Total BTEX	
890-4103-9	PH05A	Total/NA	Solid	Total BTEX	
890-4103-10	PH05D	Total/NA	Solid	Total BTEX	
890-4103-11	PH06A	Total/NA	Solid	Total BTEX	
890-4103-12	PH06D	Total/NA	Solid	Total BTEX	
890-4103-13	PH07A	Total/NA	Solid	Total BTEX	
890-4103-14	PH07D	Total/NA	Solid	Total BTEX	
890-4103-15	PH08A	Total/NA	Solid	Total BTEX	
890-4103-16	PH08D	Total/NA	Solid	Total BTEX	

Prep Batch: 46840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4103-7	PH04A	Total/NA	Solid	5035	
MB 880-46840/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-46840/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-46840/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4159-A-1-H MS	Matrix Spike	Total/NA	Solid	5035	
890-4159-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 46865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-46865/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 46927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4103-7	PH04A	Total/NA	Solid	8021B	46840
MB 880-46840/5-A	Method Blank	Total/NA	Solid	8021B	46840
MB 880-46865/5-A	Method Blank	Total/NA	Solid	8021B	46865
LCS 880-46840/1-A	Lab Control Sample	Total/NA	Solid	8021B	46840
LCSD 880-46840/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	46840
890-4159-A-1-H MS	Matrix Spike	Total/NA	Solid	8021B	46840
890-4159-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	46840

GC Semi VOA

Prep Batch: 46507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4103-1	PH01A	Total/NA	Solid	8015NM Prep	
890-4103-2	PH01D	Total/NA	Solid	8015NM Prep	
890-4103-3	PH02A	Total/NA	Solid	8015NM Prep	
890-4103-4	PH02D	Total/NA	Solid	8015NM Prep	
890-4103-5	PH03A	Total/NA	Solid	8015NM Prep	
890-4103-6	PH03D	Total/NA	Solid	8015NM Prep	
890-4103-7	PH04A	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum
Project/Site: Wilder CTB

Job ID: 890-4103-1
SDG: 03D2024135

GC Semi VOA (Continued)

Prep Batch: 46507 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4103-8	PH04D	Total/NA	Solid	8015NM Prep	
890-4103-9	PH05A	Total/NA	Solid	8015NM Prep	
MB 880-46507/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-46507/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-46507/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4100-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4100-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 46509

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4103-10	PH05D	Total/NA	Solid	8015NM Prep	
890-4103-11	PH06A	Total/NA	Solid	8015NM Prep	
MB 880-46509/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-46509/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-46509/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4099-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4099-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 46558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4103-1	PH01A	Total/NA	Solid	8015B NM	46507
890-4103-2	PH01D	Total/NA	Solid	8015B NM	46507
890-4103-3	PH02A	Total/NA	Solid	8015B NM	46507
890-4103-4	PH02D	Total/NA	Solid	8015B NM	46507
890-4103-5	PH03A	Total/NA	Solid	8015B NM	46507
890-4103-6	PH03D	Total/NA	Solid	8015B NM	46507
890-4103-7	PH04A	Total/NA	Solid	8015B NM	46507
890-4103-8	PH04D	Total/NA	Solid	8015B NM	46507
890-4103-9	PH05A	Total/NA	Solid	8015B NM	46507
890-4103-12	PH06D	Total/NA	Solid	8015B NM	46578
890-4103-13	PH07A	Total/NA	Solid	8015B NM	46578
890-4103-14	PH07D	Total/NA	Solid	8015B NM	46578
890-4103-15	PH08A	Total/NA	Solid	8015B NM	46578
MB 880-46507/1-A	Method Blank	Total/NA	Solid	8015B NM	46507
MB 880-46578/1-A	Method Blank	Total/NA	Solid	8015B NM	46578
LCS 880-46507/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	46507
LCS 880-46578/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	46578
LCSD 880-46507/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	46507
LCSD 880-46578/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	46578
880-24755-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	46578
880-24755-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	46578
890-4100-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	46507
890-4100-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	46507

Analysis Batch: 46560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4103-10	PH05D	Total/NA	Solid	8015B NM	46509
890-4103-11	PH06A	Total/NA	Solid	8015B NM	46509
MB 880-46509/1-A	Method Blank	Total/NA	Solid	8015B NM	46509
LCS 880-46509/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	46509
LCSD 880-46509/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	46509

QC Association Summary

Client: Ensolum
Project/Site: Wilder CTB

Job ID: 890-4103-1
SDG: 03D2024135

GC Semi VOA (Continued)

Analysis Batch: 46560 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4099-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	46509
890-4099-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	46509

Prep Batch: 46578

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4103-12	PH06D	Total/NA	Solid	8015NM Prep	
890-4103-13	PH07A	Total/NA	Solid	8015NM Prep	
890-4103-14	PH07D	Total/NA	Solid	8015NM Prep	
890-4103-15	PH08A	Total/NA	Solid	8015NM Prep	
MB 880-46578/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-46578/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-46578/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-24755-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-24755-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 46582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4103-16	PH08D	Total/NA	Solid	8015NM Prep	
MB 880-46582/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-46582/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-46582/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-24875-A-1-A MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-24875-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 46615

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4103-16	PH08D	Total/NA	Solid	8015B NM	46582
MB 880-46582/1-A	Method Blank	Total/NA	Solid	8015B NM	46582
LCS 880-46582/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	46582
LCSD 880-46582/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	46582
880-24875-A-1-A MS	Matrix Spike	Total/NA	Solid	8015B NM	46582
880-24875-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	46582

Analysis Batch: 46664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4103-1	PH01A	Total/NA	Solid	8015 NM	
890-4103-2	PH01D	Total/NA	Solid	8015 NM	
890-4103-3	PH02A	Total/NA	Solid	8015 NM	
890-4103-4	PH02D	Total/NA	Solid	8015 NM	
890-4103-5	PH03A	Total/NA	Solid	8015 NM	
890-4103-6	PH03D	Total/NA	Solid	8015 NM	
890-4103-7	PH04A	Total/NA	Solid	8015 NM	
890-4103-8	PH04D	Total/NA	Solid	8015 NM	
890-4103-9	PH05A	Total/NA	Solid	8015 NM	
890-4103-10	PH05D	Total/NA	Solid	8015 NM	
890-4103-11	PH06A	Total/NA	Solid	8015 NM	
890-4103-12	PH06D	Total/NA	Solid	8015 NM	
890-4103-13	PH07A	Total/NA	Solid	8015 NM	
890-4103-14	PH07D	Total/NA	Solid	8015 NM	
890-4103-15	PH08A	Total/NA	Solid	8015 NM	
890-4103-16	PH08D	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum
Project/Site: Wilder CTB

Job ID: 890-4103-1
SDG: 03D2024135

HPLC/IC

Leach Batch: 46459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4103-11	PH06A	Soluble	Solid	DI Leach	
890-4103-12	PH06D	Soluble	Solid	DI Leach	
890-4103-13	PH07A	Soluble	Solid	DI Leach	
890-4103-14	PH07D	Soluble	Solid	DI Leach	
890-4103-15	PH08A	Soluble	Solid	DI Leach	
890-4103-16	PH08D	Soluble	Solid	DI Leach	
MB 880-46459/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-46459/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-46459/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4094-A-1-E MS	Matrix Spike	Soluble	Solid	DI Leach	
890-4094-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
890-4101-A-25-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-4101-A-25-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 46463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4103-1	PH01A	Soluble	Solid	DI Leach	
890-4103-2	PH01D	Soluble	Solid	DI Leach	
890-4103-3	PH02A	Soluble	Solid	DI Leach	
890-4103-4	PH02D	Soluble	Solid	DI Leach	
890-4103-5	PH03A	Soluble	Solid	DI Leach	
890-4103-6	PH03D	Soluble	Solid	DI Leach	
890-4103-7	PH04A	Soluble	Solid	DI Leach	
890-4103-8	PH04D	Soluble	Solid	DI Leach	
890-4103-9	PH05A	Soluble	Solid	DI Leach	
890-4103-10	PH05D	Soluble	Solid	DI Leach	
MB 880-46463/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-46463/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-46463/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4103-1 MS	PH01A	Soluble	Solid	DI Leach	
890-4103-1 MSD	PH01A	Soluble	Solid	DI Leach	

Analysis Batch: 46551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4103-11	PH06A	Soluble	Solid	300.0	46459
890-4103-12	PH06D	Soluble	Solid	300.0	46459
890-4103-13	PH07A	Soluble	Solid	300.0	46459
890-4103-14	PH07D	Soluble	Solid	300.0	46459
890-4103-15	PH08A	Soluble	Solid	300.0	46459
890-4103-16	PH08D	Soluble	Solid	300.0	46459
MB 880-46459/1-A	Method Blank	Soluble	Solid	300.0	46459
LCS 880-46459/2-A	Lab Control Sample	Soluble	Solid	300.0	46459
LCSD 880-46459/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	46459
890-4094-A-1-E MS	Matrix Spike	Soluble	Solid	300.0	46459
890-4094-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	46459
890-4101-A-25-B MS	Matrix Spike	Soluble	Solid	300.0	46459
890-4101-A-25-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	46459

Analysis Batch: 46815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4103-1	PH01A	Soluble	Solid	300.0	46463

QC Association Summary

Client: Ensolum
Project/Site: Wilder CTB

Job ID: 890-4103-1
SDG: 03D2024135

HPLC/IC (Continued)

Analysis Batch: 46815 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4103-2	PH01D	Soluble	Solid	300.0	46463
890-4103-3	PH02A	Soluble	Solid	300.0	46463
890-4103-4	PH02D	Soluble	Solid	300.0	46463
890-4103-5	PH03A	Soluble	Solid	300.0	46463
890-4103-6	PH03D	Soluble	Solid	300.0	46463
890-4103-7	PH04A	Soluble	Solid	300.0	46463
890-4103-8	PH04D	Soluble	Solid	300.0	46463
890-4103-9	PH05A	Soluble	Solid	300.0	46463
890-4103-10	PH05D	Soluble	Solid	300.0	46463
MB 880-46463/1-A	Method Blank	Soluble	Solid	300.0	46463
LCS 880-46463/2-A	Lab Control Sample	Soluble	Solid	300.0	46463
LCSD 880-46463/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	46463
890-4103-1 MS	PH01A	Soluble	Solid	300.0	46463
890-4103-1 MSD	PH01A	Soluble	Solid	300.0	46463

Lab Chronicle

Client: Ensolum
Project/Site: Wilder CTB

Job ID: 890-4103-1
SDG: 03D2024135

Client Sample ID: PH01A
Date Collected: 02/13/23 09:40
Date Received: 02/14/23 08:43

Lab Sample ID: 890-4103-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	46534	02/16/23 14:15	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46482	02/17/23 03:37	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46734	02/20/23 13:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46664	02/20/23 15:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46507	02/16/23 09:41	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46558	02/17/23 14:02	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	46463	02/15/23 15:40	KS	EET MID
Soluble	Analysis	300.0		5			46815	02/21/23 01:27	CH	EET MID

Client Sample ID: PH01D
Date Collected: 02/13/23 09:55
Date Received: 02/14/23 08:43

Lab Sample ID: 890-4103-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	46534	02/16/23 14:15	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46482	02/17/23 03:58	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46734	02/20/23 13:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46664	02/20/23 15:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	46507	02/16/23 09:41	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46558	02/17/23 14:24	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	46463	02/15/23 15:40	KS	EET MID
Soluble	Analysis	300.0		10			46815	02/21/23 01:45	CH	EET MID

Client Sample ID: PH02A
Date Collected: 02/13/23 10:15
Date Received: 02/14/23 08:43

Lab Sample ID: 890-4103-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	46534	02/16/23 14:15	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46482	02/17/23 04:18	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46734	02/20/23 13:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46664	02/20/23 15:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	46507	02/16/23 09:41	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46558	02/17/23 14:47	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	46463	02/15/23 15:40	KS	EET MID
Soluble	Analysis	300.0		5			46815	02/21/23 01:51	CH	EET MID

Client Sample ID: PH02D
Date Collected: 02/13/23 10:30
Date Received: 02/14/23 08:43

Lab Sample ID: 890-4103-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	46534	02/16/23 14:15	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46482	02/17/23 04:39	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46734	02/20/23 13:54	AJ	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Wilder CTB

Job ID: 890-4103-1
SDG: 03D2024135

Client Sample ID: PH02D
Date Collected: 02/13/23 10:30
Date Received: 02/14/23 08:43

Lab Sample ID: 890-4103-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			46664	02/20/23 15:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	46507	02/16/23 09:41	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46558	02/17/23 15:09	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	46463	02/15/23 15:40	KS	EET MID
Soluble	Analysis	300.0		5			46815	02/21/23 02:10	CH	EET MID

Client Sample ID: PH03A
Date Collected: 02/13/23 10:45
Date Received: 02/14/23 08:43

Lab Sample ID: 890-4103-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	46534	02/16/23 14:15	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46482	02/17/23 04:59	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46734	02/20/23 13:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46664	02/20/23 15:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46507	02/16/23 09:41	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46558	02/17/23 15:31	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	46463	02/15/23 15:40	KS	EET MID
Soluble	Analysis	300.0		5			46815	02/21/23 02:16	CH	EET MID

Client Sample ID: PH03D
Date Collected: 02/13/23 11:00
Date Received: 02/14/23 08:43

Lab Sample ID: 890-4103-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	46534	02/16/23 14:15	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46482	02/17/23 05:20	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46734	02/20/23 13:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46664	02/20/23 15:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	46507	02/16/23 09:41	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46558	02/17/23 16:22	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	46463	02/15/23 15:40	KS	EET MID
Soluble	Analysis	300.0		20			46815	02/21/23 02:22	CH	EET MID

Client Sample ID: PH04A
Date Collected: 02/13/23 12:20
Date Received: 02/14/23 08:43

Lab Sample ID: 890-4103-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	46534	02/16/23 14:15	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46482	02/17/23 07:10	AJ	EET MID
Total/NA	Prep	5035			5.00 g	5 mL	46840	02/21/23 11:07	MNR	EET MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	46927	02/23/23 05:34	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46734	02/20/23 13:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46664	02/20/23 15:10	SM	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: Wilder CTB

Job ID: 890-4103-1
SDG: 03D2024135

Client Sample ID: PH04A
Date Collected: 02/13/23 12:20
Date Received: 02/14/23 08:43

Lab Sample ID: 890-4103-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	46507	02/16/23 09:41	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46558	02/17/23 16:44	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	46463	02/15/23 15:40	KS	EET MID
Soluble	Analysis	300.0		5			46815	02/21/23 02:28	CH	EET MID

Client Sample ID: PH04D
Date Collected: 02/13/23 12:35
Date Received: 02/14/23 08:43

Lab Sample ID: 890-4103-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	46534	02/16/23 14:15	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46482	02/17/23 07:31	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46734	02/20/23 13:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46664	02/20/23 15:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46507	02/16/23 09:41	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46558	02/17/23 17:05	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	46463	02/15/23 15:40	KS	EET MID
Soluble	Analysis	300.0		10			46815	02/21/23 02:35	CH	EET MID

Client Sample ID: PH05A
Date Collected: 02/13/23 12:40
Date Received: 02/14/23 08:43

Lab Sample ID: 890-4103-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	46534	02/16/23 14:15	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46482	02/17/23 07:51	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46734	02/20/23 13:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46664	02/20/23 15:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	46507	02/16/23 09:41	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46558	02/17/23 17:27	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	46463	02/15/23 15:40	KS	EET MID
Soluble	Analysis	300.0		5			46815	02/21/23 02:41	CH	EET MID

Client Sample ID: PH05D
Date Collected: 02/13/23 12:55
Date Received: 02/14/23 08:43

Lab Sample ID: 890-4103-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	46534	02/16/23 14:15	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46482	02/17/23 08:11	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46734	02/20/23 13:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46664	02/19/23 12:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46509	02/16/23 09:47	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46560	02/17/23 19:15	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Wilder CTB

Job ID: 890-4103-1
SDG: 03D2024135

Client Sample ID: PH05D

Date Collected: 02/13/23 12:55
Date Received: 02/14/23 08:43

Lab Sample ID: 890-4103-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	46463	02/15/23 15:40	KS	EET MID
Soluble	Analysis	300.0		10			46815	02/21/23 02:47	CH	EET MID

Client Sample ID: PH06A

Date Collected: 02/13/23 13:00
Date Received: 02/14/23 08:43

Lab Sample ID: 890-4103-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	46534	02/16/23 14:15	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46482	02/17/23 08:32	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46734	02/20/23 13:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46664	02/19/23 12:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	46509	02/16/23 09:47	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46560	02/17/23 19:37	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	46459	02/15/23 15:35	KS	EET MID
Soluble	Analysis	300.0		10			46551	02/16/23 23:05	CH	EET MID

Client Sample ID: PH06D

Date Collected: 02/13/23 13:15
Date Received: 02/14/23 08:43

Lab Sample ID: 890-4103-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	46534	02/16/23 14:15	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46482	02/17/23 08:52	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46734	02/20/23 13:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46664	02/20/23 15:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	46578	02/17/23 09:00	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46558	02/18/23 04:22	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	46459	02/15/23 15:35	KS	EET MID
Soluble	Analysis	300.0		1			46551	02/16/23 23:10	CH	EET MID

Client Sample ID: PH07A

Date Collected: 02/13/23 13:30
Date Received: 02/14/23 08:43

Lab Sample ID: 890-4103-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	46534	02/16/23 14:15	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46482	02/17/23 09:13	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46734	02/20/23 13:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46664	02/20/23 15:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	46578	02/17/23 09:00	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46558	02/18/23 04:45	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	46459	02/15/23 15:35	KS	EET MID
Soluble	Analysis	300.0		1			46551	02/16/23 23:14	CH	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Wilder CTB

Job ID: 890-4103-1
SDG: 03D2024135

Client Sample ID: PH07D

Date Collected: 02/13/23 13:45
Date Received: 02/14/23 08:43

Lab Sample ID: 890-4103-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	46534	02/16/23 14:15	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46482	02/17/23 09:33	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46734	02/20/23 13:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46664	02/20/23 15:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	46578	02/17/23 09:00	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46558	02/18/23 05:07	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	46459	02/15/23 15:35	KS	EET MID
Soluble	Analysis	300.0		1			46551	02/16/23 23:19	CH	EET MID

Client Sample ID: PH08A

Date Collected: 02/13/23 14:00
Date Received: 02/14/23 08:43

Lab Sample ID: 890-4103-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	46534	02/16/23 14:15	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46482	02/17/23 09:54	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46734	02/20/23 13:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46664	02/20/23 15:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46578	02/17/23 09:00	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46558	02/18/23 05:30	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	46459	02/15/23 15:35	KS	EET MID
Soluble	Analysis	300.0		5			46551	02/16/23 23:24	CH	EET MID

Client Sample ID: PH08D

Date Collected: 02/13/23 14:15
Date Received: 02/14/23 08:43

Lab Sample ID: 890-4103-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	46534	02/16/23 14:15	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46482	02/17/23 10:14	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46734	02/20/23 13:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46664	02/20/23 15:00	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46582	02/17/23 09:56	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46615	02/18/23 18:08	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	46459	02/15/23 15:35	KS	EET MID
Soluble	Analysis	300.0		10			46551	02/16/23 23:29	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Wilder CTB

Job ID: 890-4103-1
SDG: 03D2024135

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
Project/Site: Wilder CTB

Job ID: 890-4103-1
SDG: 03D2024135

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: Wilder CTB

Job ID: 890-4103-1
SDG: 03D2024135

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4103-1	PH01A	Solid	02/13/23 09:40	02/14/23 08:43	1
890-4103-2	PH01D	Solid	02/13/23 09:55	02/14/23 08:43	4
890-4103-3	PH02A	Solid	02/13/23 10:15	02/14/23 08:43	1
890-4103-4	PH02D	Solid	02/13/23 10:30	02/14/23 08:43	4
890-4103-5	PH03A	Solid	02/13/23 10:45	02/14/23 08:43	1
890-4103-6	PH03D	Solid	02/13/23 11:00	02/14/23 08:43	4
890-4103-7	PH04A	Solid	02/13/23 12:20	02/14/23 08:43	1
890-4103-8	PH04D	Solid	02/13/23 12:35	02/14/23 08:43	4
890-4103-9	PH05A	Solid	02/13/23 12:40	02/14/23 08:43	1
890-4103-10	PH05D	Solid	02/13/23 12:55	02/14/23 08:43	4
890-4103-11	PH06A	Solid	02/13/23 13:00	02/14/23 08:43	1
890-4103-12	PH06D	Solid	02/13/23 13:15	02/14/23 08:43	4
890-4103-13	PH07A	Solid	02/13/23 13:30	02/14/23 08:43	1
890-4103-14	PH07D	Solid	02/13/23 13:45	02/14/23 08:43	4
890-4103-15	PH08A	Solid	02/13/23 14:00	02/14/23 08:43	1
890-4103-16	PH08D	Solid	02/13/23 14:15	02/14/23 08:43	4

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Chain of Custody

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

Work Order No: _____

www.xenco.com Page 1 of 2

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

Work Order Comments

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

Project Name:	Didier CTB	Turn Around	☑ Routine ☐ Rush
Project Number:	NBD2024135	Due Date:	
Project Location:	32.022778, -103.681000	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Julianna Falcomata		
PO #:			

SAMPLE RECEIPT				
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No	
Samples Received Intact:	(Yes) No	Thermometer ID:	TM007	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	1.0	
Total Containers:		Corrected Temperature:	0.8	

ANALYSIS REQUEST

Parameters: CHLORIDES (EPA: 300.0), TPH (8015), BTEX (8021)

890-4103 Chain of Custody

Preservative Codes

None: NO; DI Water: H_2O
Cool: Cool; MeOH: Me
HCL: HC; HNO_3: HN
H_2SO_4: H_2; NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Sample Comments
PH01A	S	02-13-23	0940	1'	G	1	NAPP2300343271
PH01D			0955	4'		1	
PH02A			1015	1'		1	
PH02D			1030	4'		1	
PH03A			1045	1'		1	
PH03D			1100	4'		1	
PH04A			1220	1'		1	
PH04D			1235	4'		1	
PH05A			1240	1'		1	
PH05D			1255	4'		1	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

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

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			2.14.23 843			
3				4		
5				6		

Revised Date: 08/25/2020 Rev. 2020.2

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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 2 of 2

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

Work Order Comments

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

Project Name:	Wilder CTB	Turn Around	☐ Routine ☐ Rush
Project Number:	03D2024135		
Project Location:	32.022718,-103.690000	Due Date:	
Sampler's Name:	Julianna Falcomata	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:	0	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	1	
Total Containers:		Corrected Temperature:		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)	Sample Comments
PH06A	S	02-13-23	1300	1'	G	1					nAPP2300343271
PH06D			1315	4'		1					
PH07A			1330	1'		1					
PH07D			1345	4'		1					
PH08A			1400	1'		1					
PH08D			1415	4'		1					

Parameters

ANALYSIS REQUEST

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2S0_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		2.14.23 843	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4103-1
SDG Number: 03D2024135

Login Number: 4103
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4103-1
SDG Number: 03D2024135

Login Number: 4103
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 02/15/23 12:16 PM

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

ENSOLUM

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	NAPP2300343271
District RP	
Facility ID	fAPP2129429037
Application ID	

Release Notification

Responsible Party

Responsible Party	ConocoPhillips	OGRID	217817
Contact Name	Charles Beauvais	Contact Telephone	(575) 988-2043
Contact email	Charles.R.Beauvais@ConocoPhillips.com	Incident # *(assigned by OCD)*	NAPP2300343271
Contact mailing address	600 West Illinois Avenue, Midland, Texas 79701		

Location of Release Source

Latitude 32.0199 Longitude -103.6900
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Wilder CTB	Site Type	Tank Battery
Date Release Discovered	December 26, 2022	API# *(if applicable)*	

Unit Letter	Section	Township	Range	County
A	29	26S	32E	Lea

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (*Name:* _____)

Nature and Volume of Release

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

☒ Crude Oil	Volume Released (bbls) 1	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 372	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☒ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

The release was caused by a left open valve.
The release was on and off the pad. A vacuum truck was dispatched to remove all freestanding fluids. Evaluation will be made at the site to determine if we may commence remediation immediately or delineate any possible impact from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation activities.

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2300343271
District RP	
Facility ID	fAPP2129429037
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? Release was greater than 25 barrels.

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
Immediate notification was given by Charles Beauvais on December 27, 2022 at 12:49 PM to ocd.enviro@state.nm.us.

Initial Response

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

- ☒ The source of the release has been stopped.
- ☒ The impacted area has been secured to protect human health and the environment.
- ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- ☒ All free liquids and recoverable materials have been removed and managed appropriately.

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

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

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

Printed Name: Brittany N. Esparza Title: Environmental Technician

Signature: Brittany Esparza Date: 01/03/2023

email: Brittany.Esparza@ConocoPhillips.com Telephone: (432) 221-0398

OCD Only

Received by: Jocelyn Harimon Date: 01/03/2023

NAPP2300343271

Facility Name & Well Number(s):	Wilder CTB						Release Discovery Date & Time:	12/26/22 9:00AM		
Provide any known details about the event:	4" carbon steel check valve leak developed in valve can #3. Line carries fluid from stateline road batteries to the wilder CTB.									
	Recovered Volume (bbl.) (if available, not included in volume calculations)	Method of Determination (dropdown)	Release Type (dropdown):			> 1/2" of Rain in Last 24 Hours (dropdown):		% Rainwater Recovered (not included in volume calculations, informational):		
BU: Permian / Asset Area: DBE - Asset Avg.	160	Field Measurement	Oil Mixture			No		0%		
Known Volume (dropdown):	No									
Known Area (dropdown):	Yes	Mapped Area (sq. ft.)	Average Depth (in.)	On/Off Pad	Percentage of Oil if Spilled Fluid is a Mixture (%.)	Soil Spilled-Fluid Saturation	Total Estimated Volume of Spill (bbl.)	Total Estimated Volume of Spilled Oil (bbl.)	Total Estimated Volume of Spilled Liquid other than Oil (bbl.)	
		6977	24	Off-Pad	0%	15.02%	373.07	1.00	372.07	

District I
1625 N. French Dr., Hobbs, NM 88240
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District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 171711
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	1/3/2023

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2300343271
District RP	
Facility ID	fAPP2129429037
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2300343271
District RP	
Facility ID	fAPP2129429037
Application ID	

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

Printed Name: __Jacob Laird_____ Title: _Environmental Engineer_____

Signature: Jacob Laird Date: _____3/24/2023_____

email: __Jacob.Laird@conocophillips.com_____ Telephone: ___575-703-5482_____

OCD Only

Received by: Jocelyn Harimon Date: 03/27/2023

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2300343271
District RP	
Facility ID	fAPP2129429037
Application ID	

Remediation Plan

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

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

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

☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

☐ Extents of contamination must be fully delineated.

☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: __Jacob Laird_____ Title: __Environmental Engineer_____

Signature: Jacob Laird Date: _____3/24/2023_____

email: __Jacob.Laird@conocophillips.com_____ Telephone: __575-703-5482_____

OCD Only

Received by: Jocelyn Harimon Date: 03/27/2023

☐ Approved ☒ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: Jennifer Nobui Date: 04/28/2023

ENSOLUM

APPENDIX F

NMOCD Notifications

From: Enviro, OCD, EMNRD
To: Kalei Jennings
Cc: Nobui, Jennifer, EMNRD; Bratcher, Michael, EMNRD
Subject: RE: [EXTERNAL] ConocoPhillips Company- Sampling Notification (Week of 02/06/2023)
Date: Thursday, February 2, 2023 9:51:30 AM
Attachments: image005.jpg
image006.png
image007.png
image008.png
image009.png

[**EXTERNAL EMAIL**]

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.

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: Wednesday, February 1, 2023 7:41 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Josh Adams <jadams@ensolum.com>; Hadlie Green <hgreen@ensolum.com>
Subject: [EXTERNAL] ConocoPhillips Company- Sampling Notification (Week of 02/06/2023)

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

All,

ConocoPhillips Company (COP) plans to complete final sampling activities at the following sites the week of February 6, 2023.

- Windward Flowline/ NAPP2218850477
- Wilder CTB/ NAPP2300343271

Thank you,

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

From:	Enviro, OCD, EMNRD
To:	Kalei Jennings
Cc:	Nobui, Jennifer, EMNRD; Bratcher, Michael, EMNRD
Subject:	RE: [EXTERNAL] ConocoPhillips Company- Sampling Notification (Week of 02/13/2023)
Date:	Wednesday, February 8, 2023 4:30:13 PM
Attachments:	image005.jpg image006.png image007.png image008.png image009.png

[**EXTERNAL EMAIL**]

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.

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: Wednesday, February 8, 2023 2:54 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Hadlie Green <hgreen@ensolum.com>
Subject: [EXTERNAL] ConocoPhillips Company- Sampling Notification (Week of 02/13/2023)

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

All,

ConocoPhillips Company (COP) plans to complete final sampling activities at the following sites the week of February 13, 2023.

- Gold Coast 26 Fed 1H/ NAPP2234636400
- Wilder CTB/ NAPP2300343271
- White Falcon 16 State 001H/ NAPP2301735698

Thank you,

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

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1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 200649
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Remediation Plan Approved with Conditions. Composite confirmation samples will be collected from the bottom and sidewalls of the excavation from areas representing no more than four hundred (400) square feet.	4/28/2023