ENSOLUM

August 5, 2024

New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: Deferral Request
Outrider CVB
Incident Number nAPP2332134094
Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared this *Deferral Request* to document site assessment, delineation, and soil sampling activities at the Outrider CVB (Site). The purpose of the site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following a crude oil release into and out of containment due to equipment failure. Based on field observations, field screening activities, and soil sample laboratory analytical results, XTO is submitting this *Deferral Request*, describing site assessment and delineation activities that have occurred and requesting deferral of final remediation for Incident Number nAPP2332134094 until the Site is reconstructed, and/or the well pad is abandoned.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in in Unit J, Section 28, Township 24 South, Range 32 East, in Lea County, New Mexico (32.18646°, -103.67561°) and is associated with oil and gas exploration and production operations on Federal land managed by the Bureau of Land Management (BLM).

On November 9, 2023, a circulating pump seal failed, resulting in the release of approximately 20 barrels (bbls) of crude oil into the lined containment and onto the pad. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; 20 bbls of released crude oil were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) and submitted an Initial Release Notification Application C-141 (C-141) on November 17, 2023. The release was assigned Incident Number nAPP2332134094.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

Depth to groundwater at the Site is greater than 100 feet below ground surface (bgs) based on a recent livestock watering well. On June 10, 2021, a livestock watering well (C-4536 POD 1) was drilled 0.4 miles south of the Site. C-4536 POD 1 was drilled to a depth of 500 feet bgs with a documented first

depth to water of 314 feet bgs. All wells used to determine depth to groundwater are depicted on Figure 1. The Well Record and Log is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a seasonal dry wash, located approximately 6.3 miles east of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

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

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

SITE ASSESSMENT ACTIVITIES

On January 4, 2024, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the C-141 and visual observations. Six delineation soil samples (SS01 through SS06) were collected around the release extent from a depth of approximately 0.25 feet bgs to assess the lateral extent of the impacted soil. The delineation 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 delineation soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation 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 analysis of the following contaminants 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 or Standard Methods SM4500.

Laboratory analytical results for delineation soil samples SS01, SS02, SS04, SS05 and SS06 indicated that TPH concentrations exceeded the strictest Table I Closure Criteria but were in compliance with the Closure Criteria. Based on visible staining in the release area laboratory analytical results for the delineation soil samples, additional remediation activities were warranted.

A 48-hour advance notice of liner inspection was provided via email to the NMOCD office. A liner integrity inspection was conducted by Ensolum personnel on July 10, 2024. Upon inspection, no rips, tears, holes, or damage were observed. The liner was determined to be sufficient, and all released fluids had

been removed. Photo documentation was conducted during the liner inspection and a photographic log is included in Appendix B.

DELINEATION SOIL SAMPLING AND REMEDIATION ACTIVITIES

Between January 16, 2024 and May 1, 2024, Ensolum personnel were at the Site to oversee delineation activities. Surface samples SS07 through SS11 were collected around the release extent. Surface samples SS01, SS02, SS04, SS05, SS06 were advanced via hand auger to total depths ranging from 4 feet bgs to 8 feet bgs. In addition, three delineation boreholes, BH01 through BH03 were advanced within the release extent to a maximum total depth of 8 feet bgs. Discrete soil samples were collected from each delineation borehole at depths ranging from 0.5 feet to 8 feet bgs. Soil from the delineation boreholes was field screened for VOCs and chloride. Field screening results and observations for the boreholes were logged on lithologic/soil sampling logs, which are included in Appendix C. The delineation soil sample locations are depicted on Figure 2. Soil samples were collected and handled as described above at Eurofins in Carlsbad, New Mexico or Cardinal Laboratories (Cardinal) in Hobbs, New Mexico.

Surface scraping of impacted soil was conducted in the release area as indicated by visible staining and laboratory analytical results from the delineation soil samples. Surface scraping activities were performed using hand tools. The release occurred on the well pad near production equipment and surface pipelines. XTO safety policy restricts soil disturbing activities within a 2-foot radius of any on-site production equipment. The estimated area of remaining impacted soil measures approximately 90 square feet and, assuming a 4-foot to 7-foot depth based on the delineation soil sample BH02, a total of approximately 20 cubic yards of TPH-impacted soil remains in place. The estimated area of remaining impacted soil and delineation soil sample locations are presented on Figure 3.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for all delineation soil samples, with the exception of BH02 at 0.5 feet and 7 feet bgs, indicated all COC concentrations met the Closure Criteria. Delineation soil sample BH02, collected at 8 feet bgs, mets the Closure Criteria and the strictest Table I Closure Criteria, successfully defining the vertical extent of TPH-impacted soil. The TPH-impacted soil is laterally defined by soil samples SS01 through SS06, collected at depths ranging from 0.25 feet to 7 feet bgs. In addition, the Site is delineated to the strictest Table I Closure Criteria by soil samples SS07 through SS11 collected at 0.5 feet bgs. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included in Appendix D.

DEFFERAL REQUEST

XTO is requesting deferral of final remediation due to the presence of active production equipment and surface pipelines surrounding the lined containment preventing full removal of impacted soil. The impacted soil is limited to the area between lined containments and active production equipment, where remediation would require a major facility deconstruction. The impacted soil remaining in place is delineated vertically by delineation soil sample BH02 at 8 feet bgs. The soil is laterally delineated by delineation soil samples from SS01 through SS11.

XTO does not believe deferment will result in imminent risk to human health, the environment, or groundwater. Depth to groundwater was determined to be greater than 100 feet bgs, the majority of the release was contained laterally by the lined containment, the liner was determined to be in good working condition, and the impacted soil remaining in place is limited in areal and vertical extent. Any gross impacts were removed via scraping of the surface soils.

Based on the presence of active production equipment within the release area and the complete lateral and vertical delineation of impacted soil remaining in place, XTO requests deferral of final remediation for Incident Number nAPP2332134094 until final reclamation of the well pad or major construction, whichever comes first.

If you have any questions or comments, please contact Ms. Tacoma Morrissey at (337) 257-8307 or tmorrissey@ensolum.com.

Sincerely,
Ensolum, LLC

Tracy Hillard
Staff Engineer

Ashley L. Ager, M.S., P.G.
Program Director

cc: Amy Ruth, XTO
Amanda Garcia, XTO
Bureau of Land Management

Appendices:

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Figure 3	Requested Area of Deferral
Table 1	Soil Sample Analytical Results
Appendix A	Referenced Well Records
Appendix B	Lithologic / Soil Sampling Logs
Appendix C	Photographic Log
Appendix D	Laboratory Analytical Reports & Chain-of-Custody Documentation

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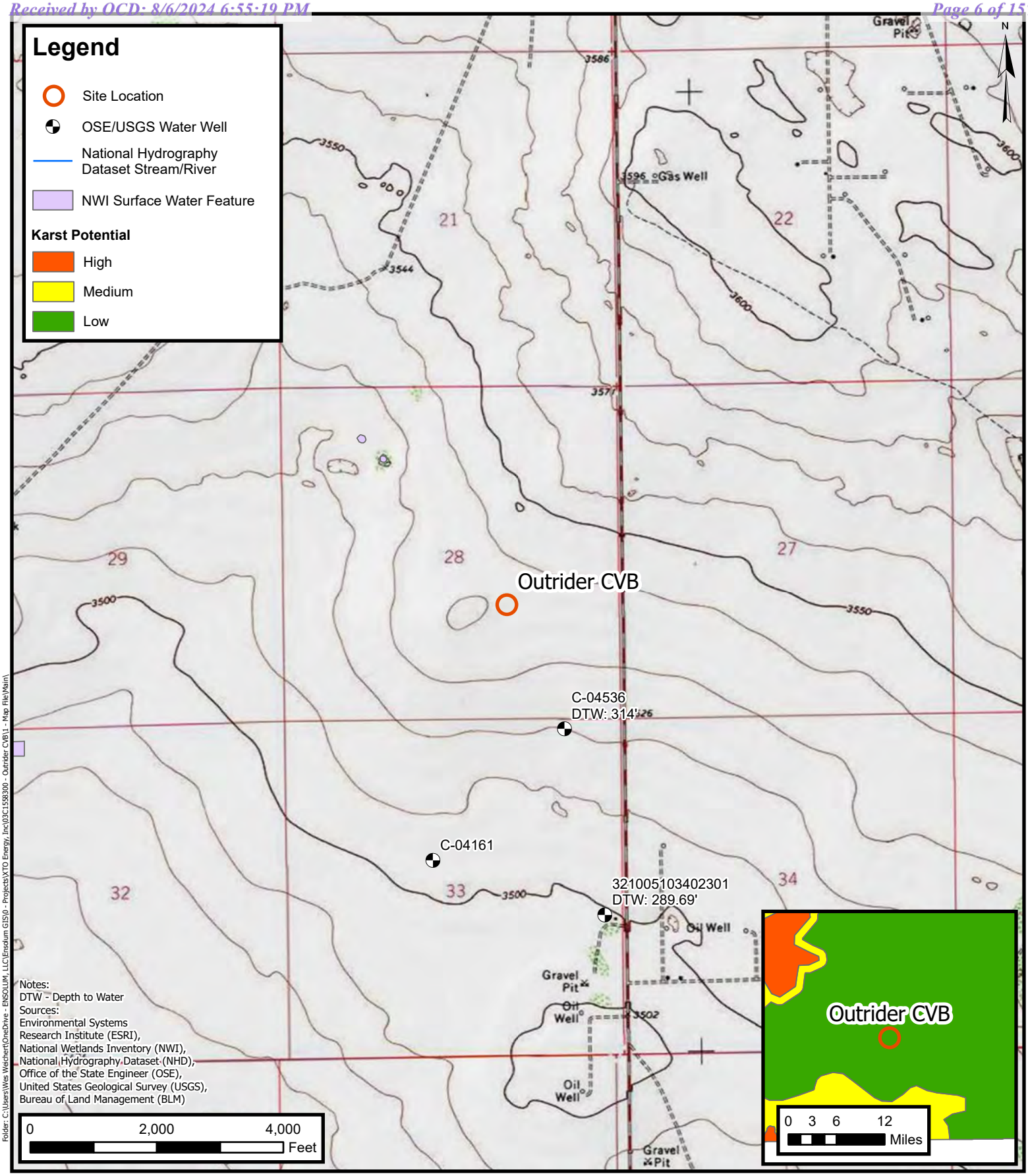
FIGURES



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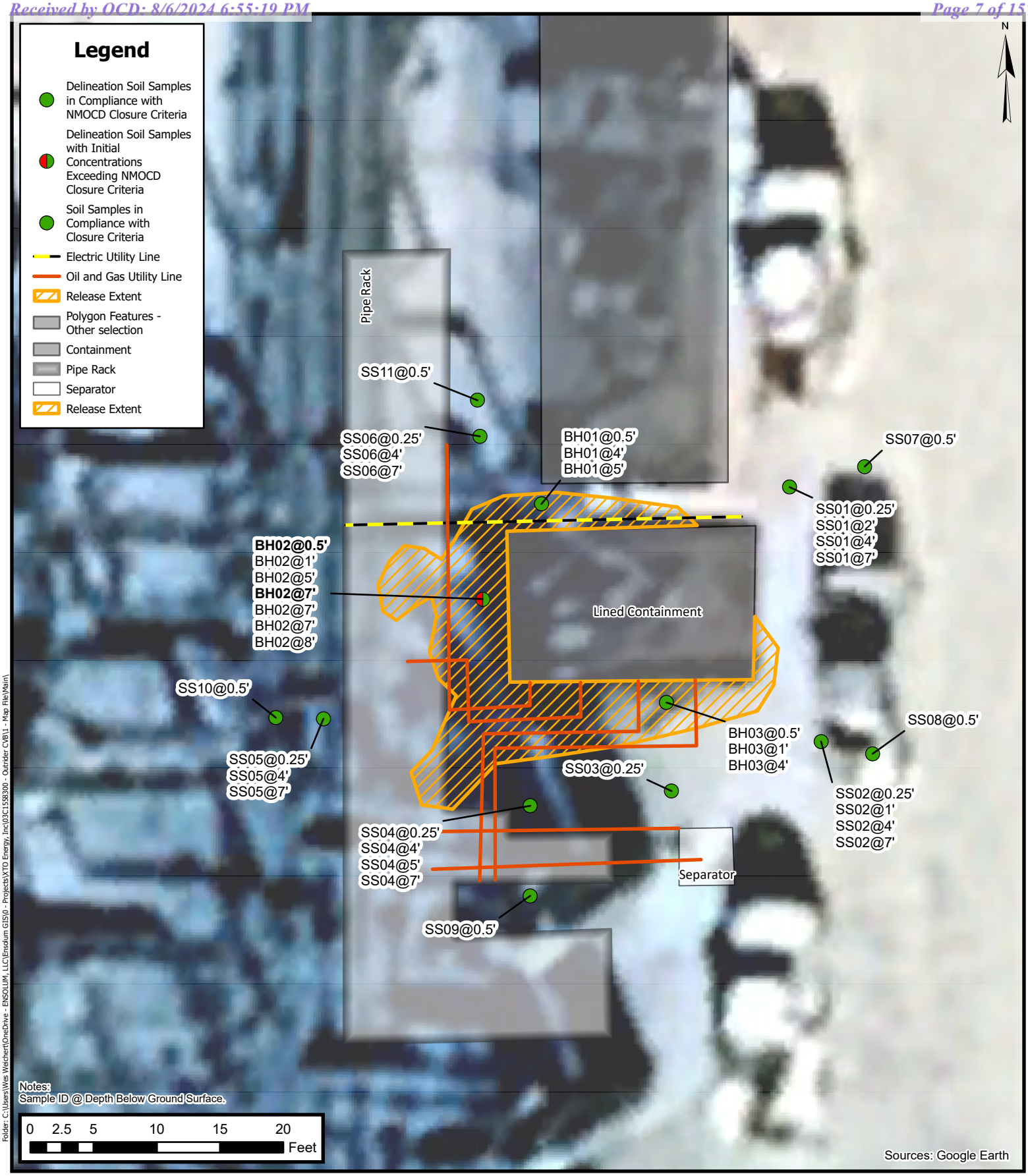
Site Receptor Map

XTO Energy, Inc
Outrider CVB
Incident Number: nAPP2332134094
Unit J, Sec 28, T24S, R32E
Lea County, New Mexico, United States

FIGURE 1



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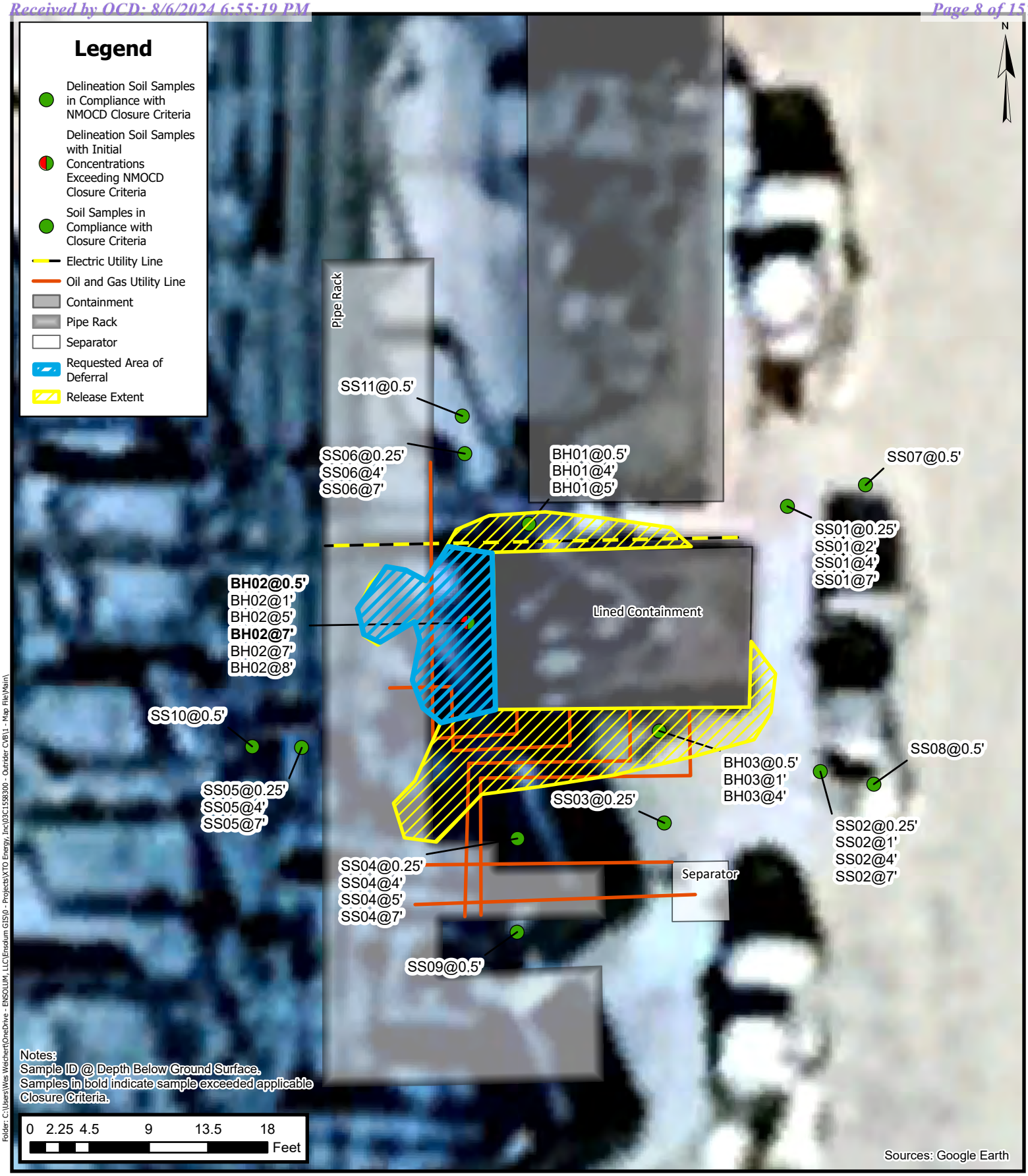
Delineation Soil Sample Locations

XTO Energy, Inc
Outrider CVB
Incident Number: nAPP2332134094
Unit J, Sec 28, T24S, R32E
Lea County, New Mexico, United States

FIGURE 2



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Requested Area of Deferral

XTO Energy, Inc
Outrider CVB
Incident Number: nAPP2332134094
Unit J, Sec 28, T24S, R32E
Lea County, New Mexico, United States

FIGURE 3

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TABLES

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Outrider CVB
XTO Energy, Inc
Lea County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Delineation Soil Samples										
SS01	01/04/2024	0.25	<0.00200	<0.00399	<49.9	360	<49.9	360	360	406
SS01	01/17/2024	2	<0.00200	<0.00399	<50.3	<50.3	<50.3	<50.3	<50.3	5.37
SS01	01/17/2024	4	<0.00201	<0.00402	<50.4	<50.4	<50.4	<50.4	<50.4	6.41
SS01	5/1/2024	7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SS02	01/04/2024	0.25	<0.00201	<0.00402	<50.5	301	<50.5	301	301	251
SS02	01/17/2024	1	<0.00199	<0.00398	<49.7	<49.7	<49.7	<49.7	<49.7	8.01
SS02	01/17/2024	4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	12.2
SS02	5/1/2024	7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS03	01/04/2024	0.25	<0.00199	<0.00398	<49.7	51.1	<49.7	51.1	51.1	205
SS04	01/04/2024	0.25	<0.00199	<0.00398	<49.9	372	<49.9	372	372	340
SS04	01/17/2024	4	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	6.08
SS04	01/17/2024	5	<0.00200	<0.00399	<49.6	<49.6	<49.6	<49.6	<49.6	11.6
SS04	5/1/2024	7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS05	01/04/2024	0.25	<0.00200	<0.00399	<49.9	342	<49.9	342	342	271
SS05	01/17/2024	4	<0.00198	0.00540	<50.0	<50.0	<50.0	<50.0	<50.0	11.5
SS05	5/1/2024	7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS06	01/04/2024	0.25	<0.00200	<0.00401	<49.6	151	<49.6	151	151	240
SS06	01/17/2024	4	<0.00199	<0.00398	<50.3	<50.3	<50.3	<50.3	<50.3	6.79
SS06	5/1/2024	7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS07	01/17/2024	0.5	<0.00201	<0.00402	<49.6	<49.6	<49.6	<49.6	<49.6	142
SS08	01/17/2024	0.5	<0.00200	<0.00399	<49.6	<49.6	<49.6	<49.6	<49.6	80.9
SS09	01/17/2024	0.5	<0.00201	<0.00402	<49.7	<49.7	<49.7	<49.7	<49.7	69.8
SS10	01/17/2024	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	92.1
SS11	01/17/2024	0.5	<0.00200	<0.00401	<50.5	<50.5	<50.5	<50.5	<50.5	194

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Outrider CVB
XTO Energy, Inc
Lea County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			**10**	**50**	**NE**	**NE**	**NE**	**1,000**	**2,500**	**20,000**
BH01	01/16/2024	0.5	<0.00199	<0.00398	<50.5	126	<50.5	126	126	4,290
BH01	01/17/2024	4	<0.00200	<0.00401	<50.5	<50.5	<50.5	<50.5	<50.5	41.7
BH01	01/17/2024	5	<0.00200	<0.00399	<50.0	95.3	<50.0	95.3	95.3	14.6
BH02	1/16/2024	0.5	<0.0398	12.8	1,950	8,750	<50.2	**10,700**	**10,700**	313
BH02	01/17/2024	1	<0.00199	0.0327	74.8	765	<49.7	840	840	44.5
BH02	01/17/2024	5	<0.00202	<0.00403	<49.7	263	<49.7	263	263	11.2
BH02	01/17/2024	7	0.211	**115**	1,770	4,280	<49.8	**6,050**	**6,050**	18.5
BH02	5/1/2024	7	<0.050	0.31	12.2	273	<10.0	285	285	48.0
BH02	5/1/2024	8	<0.050	<0.300	<10.0	98.7	<10.0	98.7	98.7	16.0
BH03	1/16/2024	0.5	<0.00200	<0.00399	54.0	241	<50.4	295	295	7,990
BH03	01/17/2024	1	<0.00201	<0.00402	<50.1	<50.1	<50.1	<50.1	<50.1	418
BH03	01/17/2024	4	<0.00199	<0.00398	<50.4	<50.4	<50.4	<50.4	<50.4	109

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code

~~Grey~~ text indicates soil sample removed during excavation activities

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APPENDIX A

Referenced Well Records

New Mexico Office of the State Engineer
Water Right Summary

get image list

WR File Number: C 04536 **Subbasin:** C **Cross Reference:** -

Primary Purpose: STK 72-12-1 LIVESTOCK WATERING

Primary Status: PMT PERMIT

Total Acres: **Subfile:** - **Header:** -

Total Diversion: 3 **Cause/Case:** -

Owner: BASIN PROPERTIES RANCHES LLC

Contact: JOHN LANGDON

Documents on File

	Trn #	Doc	File/Act	Status 1	Status 2	Transaction Desc.	From/ To	Acres	Diversion	Consumptive
get images	695378	72121	2021-05-14	PMT	LOG	C 04536 POD1	T		3	

Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q 64	Q16	Q4	Sec	Tws	Rng	X	Y	Other Location Desc
C 04536 POD1	20E37	Shallow	1	2	2	33	24S	32E	625019	3561244	

New Mexico Office of the State Engineer
Point of Diversion Summary

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

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
20E37	C 04536 POD1	1	2	2	33	24S	32E	625019	3561244

Driller License:	1706	**Driller Company:**	ELITE DRILLERS CORPORATION		
Driller Name:	BRYCE WALLACE				
Drill Start Date:	06/09/2021	**Drill Finish Date:**	06/10/2021	**Plug Date:**	
Log File Date:	06/21/2021	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	4 GPM
Casing Size:	4.30	**Depth Well:**	500 feet	**Depth Water:**	314 feet

Water Bearing Stratifications:	Top	Bottom	Description
	235	480	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	300	500

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WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
~~C-4536~~ POD 1	20E37	C-4536

WELL OWNER NAME(S)	PHONE (OPTIONAL)
BASIN PROPERTIES RANCHES LLC	

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
3300 N A STREET, BLDG 1, STE 220	MIDLAND	TX	79705

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	10	50.8	N
	LONGITUDE	103	40	25.9	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD1706	Bryce Wallace	Elite Drillers Corporation

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
06/09/21	06/10/21	500	500	314

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☑ SHALLOW (UNCONFINED) — STATIC WATER LEVEL IN COMPLETED WELL (FT): 314

DRILLING FLUID: ☑ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☑ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY:

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	20	12 3/4	STEEL	N/A	8.28	.337	
0	300	7 7/8	SDR17 PVC	SPLINE	4.3	SDR17	
300	500	7 7/8	SDR17 PVC	SPLINE	4.3	SDR17	.032

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	20	12 3/4	CEMENT	10	TOP FILL
0	20	7 7/8	CEMENT	6	TOP FILL
300	500	7 7/8	8/16 SILICA SAND	46	TOP FILL

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 06/30/17)

FILE NO. C-4536-POD1	POD NO. 1	TRN NO. 695378	
LOCATION STK 24.32.33.122		WELL TAG ID NO. 20E37	PAGE 1 OF 2

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4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	3	3	RED SAND	Y ✓ N	
3	12	9	CALICHE	Y ✓ N	
12	180	168	RED CLAY	Y ✓ N	
180	235	415	TAN SANDSTONE	Y ✓ N	
235	480	245	TAN SANDSTONE & CLAY STRINGERS	✓ Y N	4.00
480	500	20	RED CLAY WITH SAND STRINGERS	Y ✓ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☑ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 4.00

5. TEST; RIG SUPERVISION

WELL TEST: TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

6. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:

Bryce Wallace — 06/16/2021

SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 06/30/2017)

FILE NO. C-4536-POD1	POD NO. 1	TRN NO. 695378	
LOCATION STK - 24.32.33.122		WELL TAG ID NO. 20E37	PAGE 2 OF 2

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APPENDIX B

Photographic Log

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Photographic Log
XTO Energy, Inc
Outrider CVB
nAPP24332134094

Photograph: 1 Date: 1/4/2024
Description: Soil staining in intital assessment
View: Northwest

Photograph: 2 Date: 1/16/2024
Description: Delineation in release
View: East

Photograph: 3 Date: 1/17/2024
Description: Delineation activities
View: West

Photograph: 4 Date: 5/1/2024
Description: Additional delineation
View: Southwest

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Photographic Log
XTO Energy, Inc
Outrider CVB
nAPP24332134094

Photograph: 5 Date: 7/10/2024
Description: Liner inspection - well sign
View: Northwest

Photograph: 6 Date: 7/10/2024
Description: Liner inspection
View: Southwest

Photograph: 7 Date: 7/10/2024
Description: Liner inspection
View: Southeast

Photograph: 8 Date: 7/10/2024
Description: Liner inspection
View: South

ENSOLUM

APPENDIX C

Lithologic Soil Sampling Logs

ENSOLUM

	Sample Name: BH01	Date: 01/17/2024
	Site Name: Outrider CVB	
	Incident Number: NAPP2332134094	
	Job Number: 03C1558300	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: MS	Method: Hand Auger
Coordinates: 32.186557, -103.675589	Hole Diameter: 4"	Total Depth: 5 feet

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. A 40% correction factor is included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	CCHE	(0-0.5') Caliche, tan
D	6,725	1.6	N	BH01	0.5		SM	(0.5-5') SILTY SAND, fine, red
D	<168	14.8	N		1	1		
D	<168	9.2	N		2	2		
D	<168	24.1	N		3	3		
D	<168	35.7	N	BH01	4	4		
D	<168	7.3	N	BH01	5	5		Hand auger refusal @ 5 ft bgs

Total Depth @ 5 feet bgs

ENSOLUM

	Sample Name: BH02	Date: 1/17/24, 5/1/24
	Site Name: Outrider CVB	
	Incident Number: NAPP2332134094	
	Job Number: 03C1558300	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: MS/TH	Method: Hand Auger
Coordinates: 32.186536, -103.675604	Hole Diameter: 4"	Total Depth: 8'

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. A 40% correction factor is included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	CCHE	(0-0.5') Caliche, tan
D	336	434.4	N	BH02	0.5		SM	(0.5-7') SILTY SAND, fine, red
D	<168	1350	N	BH02	1	1		
D	<168	1274	N		2	2		
D	<168	852	N		3	3		
D	<168	621	N	BH02	4	4		
D	<168	657	N		5	5		
						6		
D	<168	574	N	BH02	7	7	CCHE	(7-8') Caliche, tan
D		353.8	N	BH02	8	8		

Total Depth @ 8' bgs.

ENSOLUM

	Sample Name: BH03	Date: 01/17/2024
	Site Name: Outrider CVB	
	Incident Number: NAPP2332134094	
	Job Number: 03C1558300	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: MS	Method: Hand Auger
Coordinates: 32.186513, -103.675557	Hole Diameter: 4"	Total Depth: 5 feet

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. A 40% correction factor is included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0		
D	10,841	10.4	N	BH02	0.5		CCHE	(0-0.5') Caliche, tan
D	297	26.4	N	BH02	1	1	SM	(0.5-4') SILTY SAND, fine, red
D	<168	14.7	N		2	2		
D	207	5.8	N		3	3		
D	<168	7.0	N	BH02	4	4		

Total Depth @ 4 feet bgs

ENSOLUM

	Sample Name: SS01	Date: 1/17/24, 5/1/24
	Site Name: Outrider CVB	
	Incident Number: NAPP2332134094	
	Job Number: 03C1558300	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: MS/TH	Method: Hand Auger
Coordinates: 32.186560, -103.675525	Hole Diameter: 4"	Total Depth: 7'

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. A 40% correction factor is included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	CCHE	(0-0.5') Caliche, tan
D	480	0	N	SS01	0.25		SM	(0.5-7') SILTY SAND, fine, red
D	<120	0.9	N		1	1		
D	<120	1.1	N	SS01	2	2		
D	<120	0.5	N		3	3		
D	<120	0.4	N	SS01	4	4		
						5		
						6		
D	162	6.1	N	SS01	7	7	CCHE	(@7') Caliche, tan

Total Depth @ 7' bgs.

ENSOLUM

	Sample Name: SS02	Date: 1/17/24, 5/1/24
	Site Name: Outrider CVB	
	Incident Number: NAPP2332134094	
	Job Number: 03C1558300	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: MS/TH	Method: Hand Auger
Coordinates: 32.186504, -103.675519	Hole Diameter: 4"	Total Depth: 7'

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. A 40% correction factor is included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	CCHE	(0-0.5') Caliche, tan
D	307	0.3	N	SS02	0.25		SM	(0.5-7') SILTY SAND, fine, red
D	<120	0.6	N	SS02	1	1		
D	<120	0.3	N		2	2		
D	<120	0.1	N		3	3		
D	<120	0.1	N	SS02	4	4		
						5		
						6		
D	162	8.5	N	SS02	7	7	CCHE	(@7') Caliche, tan

Total Depth @ 7' bgs.

ENSOLUM

	Sample Name: SS04	Date: 1/17/24, 5/1/24
	Site Name: Outrider CVB	
	Incident Number: NAPP2332134094	
	Job Number: 03C1558300	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: MS/TH	Method: Hand Auger
Coordinates: 32.186491, -103.675592	Hole Diameter: 4"	Total Depth: 7'

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. A 40% correction factor is included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	CCHE	(0-0.5') Caliche, tan
D	307	0.1	N	SS04	0.25		SM	(0.5-7') SILTY SAND, fine, red
D	<120	1.7	N		1	1		
D	<120	2.1	N		2	2		
D	<120	1.6	N		3	3		
D	<120	66.6	N	SS04	4	4		
D	<120	5.3	N	SS04	5	5		
						6		
D	<162	32.4	N	SS04	7	7	CCHE	(@7') Caliche, tan

Total Depth @ 7' bgs.

ENSOLUM

	Sample Name: SS05	Date: 1/17/24, 5/1/24
	Site Name: Outrider CVB	
	Incident Number: NAPP2332134094	
	Job Number: 03C1558300	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: MS/TH	Method: Hand Auger
Coordinates: 32.186511, -103.675645	Hole Diameter: 4"	Total Depth: 7'

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. A 40% correction factor is included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	CCHE	(0-0.5') Caliche, tan
D	270	0.1	N	SS05	0.25		SM	(0.5-7') SILTY SAND, fine, red
D	<120	3.6	N		1	1		
D	<120	2.3	N		2	2		
D	<120	1.1	N		3	3		
D	<120	10.1	N	SS05	4	4		
						5		
						6		
D	<162	3.8	N	SS05	7	7	CCHE	(@7') Caliche, tan

Total Depth @ 7' bgs.

ENSOLUM

	Sample Name: SS06	Date: 1/17/24, 5/1/24
	Site Name: Outrider CVB	
	Incident Number: NAPP2332134094	
	Job Number: 03C1558300	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: MS/TH	Method: Hand Auger
Coordinates: 32.186572, -103.675604	Hole Diameter: 4"	Total Depth: 7'

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. A 40% correction factor is included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	CCHE	(0-0.5') Caliche, tan
D	270	0.1	N	SS06	0.25		SM	(0.5-7') SILTY SAND, fine, red
D	<120	0.6	N		1	1		
D	<120	0.4	N		2	2		
D	<120	0.4	N		3	3		
D	<120	1.0	N	SS06	4	4		
						5		
						6		
D	<162	31.0	N	SS06	7	7	CCHE	(@7') Caliche, tan

Total Depth @ 7' bgs.

ENSOLUM

APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation

CARDINAL Laboratories

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

May 08, 2024

BEN BELILL

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: OUTRIDER CVB

Enclosed are the results of analyses for samples received by the laboratory on 05/02/24 14:28.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM, LLC
BEN BELILL
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	05/02/2024	Sampling Date:	05/01/2024
Reported:	05/08/2024	Sampling Type:	Soil
Project Name:	OUTRIDER CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558300	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.186189,-103.676425		

Sample ID: SS 01 7' (H242374-01)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/04/2024	ND	2.22	111	2.00	14.8	
Toluene*	<0.050	0.050	05/04/2024	ND	2.19	110	2.00	15.0	
Ethylbenzene*	<0.050	0.050	05/04/2024	ND	2.25	112	2.00	14.3	
Total Xylenes*	<0.150	0.150	05/04/2024	ND	6.71	112	6.00	13.8	
Total BTEX	<0.300	0.300	05/04/2024	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	05/07/2024	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	223	111	200	6.20	
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	206	103	200	8.97	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane *109 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *120 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM, LLC
BEN BELILL
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	05/02/2024	Sampling Date:	05/01/2024
Reported:	05/08/2024	Sampling Type:	Soil
Project Name:	OUTRIDER CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558300	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.186189,-103.676425		

Sample ID: SS 02 7' (H242374-02)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/04/2024	ND	2.22	111	2.00	14.8	
Toluene*	<0.050	0.050	05/04/2024	ND	2.19	110	2.00	15.0	
Ethylbenzene*	<0.050	0.050	05/04/2024	ND	2.25	112	2.00	14.3	
Total Xylenes*	<0.150	0.150	05/04/2024	ND	6.71	112	6.00	13.8	
Total BTEX	<0.300	0.300	05/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *109 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	05/07/2024	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	223	111	200	6.20	
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	206	103	200	8.97	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane *109 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *115 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM, LLC
BEN BELILL
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	05/02/2024	Sampling Date:	05/01/2024
Reported:	05/08/2024	Sampling Type:	Soil
Project Name:	OUTRIDER CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558300	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.186189,-103.676425		

Sample ID: SS 04 7' (H242374-03)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/04/2024	ND	2.22	111	2.00	14.8	
Toluene*	<0.050	0.050	05/04/2024	ND	2.19	110	2.00	15.0	
Ethylbenzene*	<0.050	0.050	05/04/2024	ND	2.25	112	2.00	14.3	
Total Xylenes*	<0.150	0.150	05/04/2024	ND	6.71	112	6.00	13.8	
Total BTEX	<0.300	0.300	05/04/2024	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	05/07/2024	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	223	111	200	6.20	
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	206	103	200	8.97	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane *90.4 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *96.1 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM, LLC
BEN BELILL
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	05/02/2024	Sampling Date:	05/01/2024
Reported:	05/08/2024	Sampling Type:	Soil
Project Name:	OUTRIDER CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558300	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.186189,-103.676425		

Sample ID: SS 05 7' (H242374-04)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/04/2024	ND	2.22	111	2.00	14.8	
Toluene*	<0.050	0.050	05/04/2024	ND	2.19	110	2.00	15.0	
Ethylbenzene*	<0.050	0.050	05/04/2024	ND	2.25	112	2.00	14.3	
Total Xylenes*	<0.150	0.150	05/04/2024	ND	6.71	112	6.00	13.8	
Total BTEX	<0.300	0.300	05/04/2024	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	05/07/2024	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	223	111	200	6.20	
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	206	103	200	8.97	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane *81.6 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *86.8 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM, LLC
BEN BELILL
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	05/02/2024	Sampling Date:	05/01/2024
Reported:	05/08/2024	Sampling Type:	Soil
Project Name:	OUTRIDER CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558300	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.186189,-103.676425		

Sample ID: SS 06 7' (H242374-05)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/04/2024	ND	2.06	103	2.00	1.84	
Toluene*	<0.050	0.050	05/04/2024	ND	2.12	106	2.00	2.30	
Ethylbenzene*	<0.050	0.050	05/04/2024	ND	2.12	106	2.00	2.66	
Total Xylenes*	<0.150	0.150	05/04/2024	ND	6.47	108	6.00	2.12	
Total BTEX	<0.300	0.300	05/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *105 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	05/07/2024	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	223	111	200	6.20	
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	206	103	200	8.97	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane *105 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *110 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC	**BILL TO**
Project Manager: Tracy Hillard	P.O. #:
Address: 601 N Marienfeld Street, Suite 400	Company: Amy Ruth
City: Midland State: TX Zip: 79701	Attn: XTO Energy
Phone #: 575-937-3906 Fax #:	Address: 3104 E Greene
Project #: 03C1558300 Project Owner: XTO	City: Carlsbad
Project Name: Outrider CVB	State: NM Zip: 88220
Project Location: 32.186189, -103.676425	Phone #: 432.661.0571
Sampler Name: Tracy Hillard	Fax #:

FOR LAB USE ONLY Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	TPH 8015	BTEX 8021	Chloride 4500
H247234	SS01	7	G	1			X					X		5-1-24	1015	X	X	X
2	SS02	7	G	1			|					|		|	1020	|	|	|
3	SS04	7	G	1			|					|		|	1025			
4	SS05	7	G	1			|					|		|	0950			
5	SS06	7	G	1			|					|		|	0945			

TH

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Relinquished By:	Date: 5/2/24 Time: 0700	Received By:	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By:	Date: 5/2/24 Time: 1428	Received By: apacheco	All Results are emailed. Please provide Email address: BBelill@ensolum.com, TMorrissey@ensolum.com, THillard@ensolum.com
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 2.6 Corrected Temp. °C	Sample Condition Cool Intact ☑ Yes ☑ Yes ☐ No ☐ No	CHECKED BY: (Initials) AP

REMARKS: nAPP2332134094 cost center: 1056151001

Turnaround Time: Standard ☑ Rush ☐ Thermometer ID #113 Correction Factor -0.5°C

Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No Observed Temp. °C Corrected Temp. °C

FORM-006 R 3.2 10/07/21

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

CARDINAL Laboratories

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

May 08, 2024

BEN BELILL

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: OUTRIDER CVB

Enclosed are the results of analyses for samples received by the laboratory on 05/02/24 14:28.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM, LLC
BEN BELILL
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	05/02/2024	Sampling Date:	05/01/2024
Reported:	05/08/2024	Sampling Type:	Soil
Project Name:	OUTRIDER CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558300	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.186189,-103.676425		

Sample ID: BH 02 7' (H242375-01)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/04/2024	ND	2.06	103	2.00	1.84	
Toluene*	<0.050	0.050	05/04/2024	ND	2.12	106	2.00	2.30	
Ethylbenzene*	<0.050	0.050	05/04/2024	ND	2.12	106	2.00	2.66	
Total Xylenes*	**0.310**	0.150	05/04/2024	ND	6.47	108	6.00	2.12	GC-NC1
Total BTEX	**0.310**	0.300	05/04/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID *118 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	05/07/2024	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**12.2**	10.0	05/03/2024	ND	223	111	200	6.20	
DRO >C10-C28*	**273**	10.0	05/03/2024	ND	206	103	200	8.97	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane *103 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *109 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

ENSOLUM, LLC
BEN BELILL
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	05/02/2024	Sampling Date:	05/01/2024
Reported:	05/08/2024	Sampling Type:	Soil
Project Name:	OUTRIDER CVB	Sampling Condition:	Cool & Intact
Project Number:	03C1558300	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.186189,-103.676425		

Sample ID: BH 02 8' (H242375-02)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/04/2024	ND	2.06	103	2.00	1.84	
Toluene*	<0.050	0.050	05/04/2024	ND	2.12	106	2.00	2.30	
Ethylbenzene*	<0.050	0.050	05/04/2024	ND	2.12	106	2.00	2.66	
Total Xylenes*	<0.150	0.150	05/04/2024	ND	6.47	108	6.00	2.12	
Total BTEX	<0.300	0.300	05/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *110 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	05/07/2024	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	223	111	200	6.20	
DRO >C10-C28*	**98.7**	10.0	05/03/2024	ND	206	103	200	8.97	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane *104 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *109 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC	**BILL TO**
Project Manager: Tracy Hillard	P.O. #:
Address: 601 N Marienfeld Street, Suite 400	Company: XTO Energy
City: Midland State: TX Zip: 79701	Attn: Amy Ruth
Phone #: 575-937-3906 Fax #:	Address: 3104 E Greene
Project #: 03C1558300 Project Owner: XTO	City: Carlsbad
Project Name: Outrider CNB	State: NM Zip: 88220
Project Location: 32.186189, -103.676425	Phone #: 432-661-0571
Sampler Name: Tracy Hillard	Fax #:

FOR LAB USE ONLY					MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST														
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	TPH 8015	BTEX 8021	Chloride 4500												
H247375												✓																		
2	BH02	7	G	1			X					X		5-1-24	1050	X	X	X												
	BH02	8	G	1			X					X		5-1-24	1100	X	X	X												
	~~BH02~~ TH																													

TH

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Relinquished By:	Date: 5/2/24 Time: 0700	Received By:	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By:	Date: 5/2/24 Time: 1428	Received By:	All Results are emailed. Please provide Email address: BBelill@ensolum.com, TMorrissey@ensolum.com, THillard@ensolum.com
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 2.4 Corrected Temp. °C	Sample Condition Cool Intact ☑ Yes ☑ Yes ☐ No ☐ No	CHECKED BY: (Initials)

REMARKS: nAPP2332134094
cost center: 1056151001

Turnaround Time: Standard ☑ Rush ☐
Thermometer ID ~~#113~~ 140
Correction Factor -0.5°C

Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No Intact ☐ Yes ☐ Nc Observed Temp. °C / Corrected Temp. °C

FORM-006 R 3.2 10/07/21

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

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Tacoma Morrissey
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 1/10/2024 12:48:37 PM

JOB DESCRIPTION

OUTRIDER CVB
03C1558300

JOB NUMBER

890-5894-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

my EOL

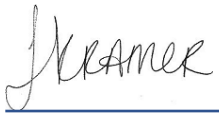
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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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1/10/2024 12:48:37 PM

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

Client: Ensolum
Project/Site: OUTRIDER CVB

Laboratory Job ID: 890-5894-1
SDG: 03C1558300

Table of Contents

Definitions/Glossary

Client: Ensolum Job ID: 890-5894-1
Project/Site: OUTRIDER CVB SDG: 03C1558300

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
*1	LCS/LCSD RPD exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
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: OUTRIDER CVB

Job ID: 890-5894-1

Job ID: 890-5894-1 Eurofins Carlsbad

Job Narrative
890-5894-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 1/4/2024 4:36 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 3.6°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: SS01 (890-5894-1), SS02 (890-5894-2), SS03 (890-5894-3), SS04 (890-5894-4), SS05 (890-5894-5) and SS06 (890-5894-6).

GC VOA
Method 8021B: The continuing calibration verification (CCV) associated with batch 880-70431 recovered under the lower control limit for Toluene and Ethylbenzene. The samples associated with this CCV were ran within 12 hours of passing CCV; therefore, the data have been reported.

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-70448 and analytical batch 880-70431 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was 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: The surrogate recovery for the blank associated with preparation batch 880-70479 and analytical batch 880-70426 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SS03 (890-5894-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-70479 and analytical batch 880-70426 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
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: OUTRIDER CVB

Job ID: 890-5894-1
SDG: 03C1558300

Client Sample ID: SS01

Date Collected: 01/04/24 11:05
Date Received: 01/04/24 16:36
Sample Depth: 0.25

Lab Sample ID: 890-5894-1
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		01/09/24 10:19	01/09/24 23:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/09/24 10:19	01/09/24 23:52	1
Ethylbenzene	<0.00200	U F1	0.00200		mg/Kg		01/09/24 10:19	01/09/24 23:52	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/09/24 10:19	01/09/24 23:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/09/24 10:19	01/09/24 23:52	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/09/24 10:19	01/09/24 23:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*01/09/24 10:19*	*01/09/24 23:52*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*01/09/24 10:19*	*01/09/24 23:52*	*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			01/09/24 23:52	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**360**		49.9		mg/Kg			01/09/24 20:43	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		01/09/24 16:14	01/09/24 20:43	1
Diesel Range Organics (Over C10-C28)	**360**		49.9		mg/Kg		01/09/24 16:14	01/09/24 20:43	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/09/24 16:14	01/09/24 20:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*70 - 130*	*01/09/24 16:14*	*01/09/24 20:43*	*1*
o-Terphenyl	*105*		*70 - 130*	*01/09/24 16:14*	*01/09/24 20:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**406**		4.95		mg/Kg			01/09/24 04:00	1

Client Sample ID: SS02

Date Collected: 01/04/24 11:10
Date Received: 01/04/24 16:36
Sample Depth: 0.25

Lab Sample ID: 890-5894-2
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		01/09/24 10:19	01/10/24 00:12	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/09/24 10:19	01/10/24 00:12	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/09/24 10:19	01/10/24 00:12	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/09/24 10:19	01/10/24 00:12	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/09/24 10:19	01/10/24 00:12	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/09/24 10:19	01/10/24 00:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*01/09/24 10:19*	*01/10/24 00:12*	*1*

Client Sample Results

Client: Ensolum
Project/Site: OUTRIDER CVB

Job ID: 890-5894-1
SDG: 03C1558300

Client Sample ID: SS02

Date Collected: 01/04/24 11:10
Date Received: 01/04/24 16:36
Sample Depth: 0.25

Lab Sample ID: 890-5894-2
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*118*		*70 - 130*	*01/09/24 10:19*	*01/10/24 00:12*	*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			01/10/24 00:12	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**301**		50.5	mg/Kg			01/09/24 21:47	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	<50.5	U *1	50.5	mg/Kg		01/09/24 16:14	01/09/24 21:47	1
Diesel Range Organics (Over C10-C28)	**301**		50.5	mg/Kg		01/09/24 16:14	01/09/24 21:47	1
OII Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		01/09/24 16:14	01/09/24 21:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*120*		*70 - 130*	*01/09/24 16:14*	*01/09/24 21:47*	*1*
o-Terphenyl	*109*		*70 - 130*	*01/09/24 16:14*	*01/09/24 21:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**251**		4.97	mg/Kg			01/09/24 04:14	1

Client Sample ID: SS03

Date Collected: 01/04/24 11:15
Date Received: 01/04/24 16:36
Sample Depth: 0.25

Lab Sample ID: 890-5894-3
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		01/09/24 10:19	01/10/24 00:33	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/09/24 10:19	01/10/24 00:33	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/09/24 10:19	01/10/24 00:33	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/09/24 10:19	01/10/24 00:33	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/09/24 10:19	01/10/24 00:33	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/09/24 10:19	01/10/24 00:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*01/09/24 10:19*	*01/10/24 00:33*	*1*
1,4-Difluorobenzene (Surr)	*118*		*70 - 130*	*01/09/24 10:19*	*01/10/24 00:33*	*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			01/10/24 00:33	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**51.1**		49.7	mg/Kg			01/09/24 22:08	1

Client Sample Results

Client: Ensolum
Project/Site: OUTRIDER CVB

Job ID: 890-5894-1
SDG: 03C1558300

Client Sample ID: SS03

Date Collected: 01/04/24 11:15
Date Received: 01/04/24 16:36
Sample Depth: 0.25

Lab Sample ID: 890-5894-3
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	<49.7	U *1	49.7		mg/Kg		01/09/24 16:14	01/09/24 22:08	1
Diesel Range Organics (Over C10-C28)	**51.1**		49.7		mg/Kg		01/09/24 16:14	01/09/24 22:08	1
OII Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/09/24 16:14	01/09/24 22:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*133*	*S1+*	*70 - 130*	*01/09/24 16:14*	*01/09/24 22:08*	*1*
o-Terphenyl	*119*		*70 - 130*	*01/09/24 16:14*	*01/09/24 22:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**205**		5.01		mg/Kg			01/09/24 04:21	1

Client Sample ID: SS04

Date Collected: 01/04/24 11:20
Date Received: 01/04/24 16:36
Sample Depth: 0.25

Lab Sample ID: 890-5894-4
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		01/09/24 10:19	01/10/24 00:53	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/09/24 10:19	01/10/24 00:53	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/09/24 10:19	01/10/24 00:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/09/24 10:19	01/10/24 00:53	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/09/24 10:19	01/10/24 00:53	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/09/24 10:19	01/10/24 00:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*01/09/24 10:19*	*01/10/24 00:53*	*1*
1,4-Difluorobenzene (Surr)	*118*		*70 - 130*	*01/09/24 10:19*	*01/10/24 00:53*	*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			01/10/24 00:53	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**372**		49.9		mg/Kg			01/09/24 22:29	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		01/09/24 16:14	01/09/24 22:29	1
Diesel Range Organics (Over C10-C28)	**372**		49.9		mg/Kg		01/09/24 16:14	01/09/24 22:29	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/09/24 16:14	01/09/24 22:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*117*		*70 - 130*	*01/09/24 16:14*	*01/09/24 22:29*	*1*
o-Terphenyl	*106*		*70 - 130*	*01/09/24 16:14*	*01/09/24 22:29*	*1*

Client Sample Results

Client: Ensolum
Project/Site: OUTRIDER CVB

Job ID: 890-5894-1
SDG: 03C1558300

Client Sample ID: SS04

Lab Sample ID: 890-5894-4
Matrix: Solid
Date Collected: 01/04/24 11:20
Date Received: 01/04/24 16:36
Sample Depth: 0.25

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**340**		4.95		mg/Kg			01/09/24 04:41	1

Client Sample ID: SS05

Lab Sample ID: 890-5894-5
Matrix: Solid
Date Collected: 01/04/24 11:25
Date Received: 01/04/24 16:36
Sample Depth: 0.25

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		01/09/24 10:19	01/10/24 01:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/09/24 10:19	01/10/24 01:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/09/24 10:19	01/10/24 01:14	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/09/24 10:19	01/10/24 01:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/09/24 10:19	01/10/24 01:14	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/09/24 10:19	01/10/24 01:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*01/09/24 10:19*	*01/10/24 01:14*	*1*
1,4-Difluorobenzene (Surr)	*118*		*70 - 130*	*01/09/24 10:19*	*01/10/24 01:14*	*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			01/10/24 01:14	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**342**		49.9		mg/Kg			01/09/24 22:50	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		01/09/24 16:14	01/09/24 22:50	1
Diesel Range Organics (Over C10-C28)	**342**		49.9		mg/Kg		01/09/24 16:14	01/09/24 22:50	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/09/24 16:14	01/09/24 22:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*112*		*70 - 130*	*01/09/24 16:14*	*01/09/24 22:50*	*1*
o-Terphenyl	*103*		*70 - 130*	*01/09/24 16:14*	*01/09/24 22:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**271**		4.96		mg/Kg			01/09/24 04:48	1

Client Sample Results

Client: Ensolum
Project/Site: OUTRIDER CVB

Job ID: 890-5894-1
SDG: 03C1558300

Client Sample ID: SS06

Date Collected: 01/04/24 11:30
Date Received: 01/04/24 16:36
Sample Depth: 0.25

Lab Sample ID: 890-5894-6

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		01/09/24 10:19	01/10/24 01:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/09/24 10:19	01/10/24 01:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/09/24 10:19	01/10/24 01:34	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		01/09/24 10:19	01/10/24 01:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/09/24 10:19	01/10/24 01:34	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/09/24 10:19	01/10/24 01:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*01/09/24 10:19*	*01/10/24 01:34*	*1*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*01/09/24 10:19*	*01/10/24 01:34*	*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			01/10/24 01:34	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**151**		49.6		mg/Kg			01/09/24 23:11	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	<49.6	U *1	49.6		mg/Kg		01/09/24 16:14	01/09/24 23:11	1
Diesel Range Organics (Over C10-C28)	**151**		49.6		mg/Kg		01/09/24 16:14	01/09/24 23:11	1
OII Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		01/09/24 16:14	01/09/24 23:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*127*		*70 - 130*	*01/09/24 16:14*	*01/09/24 23:11*	*1*
o-Terphenyl	*117*		*70 - 130*	*01/09/24 16:14*	*01/09/24 23:11*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**240**		5.04		mg/Kg			01/09/24 05:09	1

Surrogate Summary

Client: Ensolum
Project/Site: OUTRIDER CVB

Job ID: 890-5894-1
SDG: 03C1558300

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)
890-5894-1	SS01	87	108
890-5894-1 MS	SS01	104	101
890-5894-1 MSD	SS01	103	101
890-5894-2	SS02	106	118
890-5894-3	SS03	108	118
890-5894-4	SS04	106	118
890-5894-5	SS05	112	118
890-5894-6	SS06	107	114
LCS 880-70448/1-A	Lab Control Sample	108	111
LCSD 880-70448/2-A	Lab Control Sample Dup	103	109
MB 880-70439/5-A	Method Blank	111	128
MB 880-70448/5-A	Method Blank	119	130

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)
890-5894-1	SS01	115	105
890-5894-1 MS	SS01	130	104
890-5894-1 MSD	SS01	127	102
890-5894-2	SS02	120	109
890-5894-3	SS03	133 S1+	119
890-5894-4	SS04	117	106
890-5894-5	SS05	112	103
890-5894-6	SS06	127	117
LCS 880-70479/2-A	Lab Control Sample	87	91
LCSD 880-70479/3-A	Lab Control Sample Dup	85	88
MB 880-70479/1-A	Method Blank	155 S1+	158 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: OUTRIDER CVB

Job ID: 890-5894-1
SDG: 03C1558300

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-70439/5-A
Matrix: Solid
Analysis Batch: 70431

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 70439

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/09/24 08:57	01/09/24 11:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/09/24 08:57	01/09/24 11:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/09/24 08:57	01/09/24 11:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/09/24 08:57	01/09/24 11:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/09/24 08:57	01/09/24 11:47	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/09/24 08:57	01/09/24 11:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*01/09/24 08:57*	*01/09/24 11:47*	*1*
1,4-Difluorobenzene (Surr)	*128*		*70 - 130*	*01/09/24 08:57*	*01/09/24 11:47*	*1*

Lab Sample ID: MB 880-70448/5-A
Matrix: Solid
Analysis Batch: 70431

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 70448

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/09/24 10:19	01/09/24 23:23	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/09/24 10:19	01/09/24 23:23	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/09/24 10:19	01/09/24 23:23	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/09/24 10:19	01/09/24 23:23	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/09/24 10:19	01/09/24 23:23	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/09/24 10:19	01/09/24 23:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*01/09/24 10:19*	*01/09/24 23:23*	*1*
1,4-Difluorobenzene (Surr)	*130*		*70 - 130*	*01/09/24 10:19*	*01/09/24 23:23*	*1*

Lab Sample ID: LCS 880-70448/1-A
Matrix: Solid
Analysis Batch: 70431

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 70448

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1224		mg/Kg		122	70 - 130		
Toluene			0.100	0.1005		mg/Kg		101	70 - 130		
Ethylbenzene			0.100	0.1023		mg/Kg		102	70 - 130		
m-Xylene & p-Xylene			0.200	0.2532		mg/Kg		127	70 - 130		
o-Xylene			0.100	0.1302		mg/Kg		130	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*

Lab Sample ID: LCSD 880-70448/2-A
Matrix: Solid
Analysis Batch: 70431

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 70448

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1148		mg/Kg		115	70 - 130	6	35

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QC Sample Results

Client: Ensolum
Project/Site: OUTRIDER CVB

Job ID: 890-5894-1
SDG: 03C1558300

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

Lab Sample ID: LCSD 880-70448/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 70431 — **Prep Batch: 70448**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.09586		mg/Kg		96	70 - 130	5	35
Ethylbenzene			0.100	0.09844		mg/Kg		98	70 - 130	4	35
m-Xylene & p-Xylene			0.200	0.2325		mg/Kg		116	70 - 130	9	35
o-Xylene			0.100	0.1182		mg/Kg		118	70 - 130	10	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*

Lab Sample ID: 890-5894-1 MS — **Client Sample ID: SS01**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 70431 — **Prep Batch: 70448**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0996	0.09657		mg/Kg		97	70 - 130
Toluene	<0.00200	U	0.0996	0.08108		mg/Kg		81	70 - 130
Ethylbenzene	<0.00200	U F1	0.0996	0.07349		mg/Kg		74	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.199	0.1766		mg/Kg		89	70 - 130
o-Xylene	<0.00200	U	0.0996	0.09154		mg/Kg		92	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: 890-5894-1 MSD — **Client Sample ID: SS01**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 70431 — **Prep Batch: 70448**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0990	0.09535		mg/Kg		96	70 - 130	1	35
Toluene	<0.00200	U	0.0990	0.08015		mg/Kg		81	70 - 130	1	35
Ethylbenzene	<0.00200	U F1	0.0990	0.06807	F1	mg/Kg		69	70 - 130	8	35
m-Xylene & p-Xylene	<0.00399	U	0.198	0.1699		mg/Kg		86	70 - 130	4	35
o-Xylene	<0.00200	U	0.0990	0.09083		mg/Kg		92	70 - 130	1	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

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

Lab Sample ID: MB 880-70479/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 70426 — **Prep Batch: 70479**

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		01/09/24 16:14	01/09/24 19:40	1

QC Sample Results

Client: Ensolum
Project/Site: OUTRIDER CVB

Job ID: 890-5894-1
SDG: 03C1558300

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

Lab Sample ID: MB 880-70479/1-A
Matrix: Solid
Analysis Batch: 70426

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 70479

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/09/24 16:14	01/09/24 19:40	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/09/24 16:14	01/09/24 19:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*155*	*S1+*	*70 - 130*	*01/09/24 16:14*	*01/09/24 19:40*	*1*
o-Terphenyl	*158*	*S1+*	*70 - 130*	*01/09/24 16:14*	*01/09/24 19:40*	*1*

Lab Sample ID: LCS 880-70479/2-A
Matrix: Solid
Analysis Batch: 70426

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 70479

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	811.2		mg/Kg		81	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	928.8		mg/Kg		93	70 - 130		

Surrogate			*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane			*87*		*70 - 130*
o-Terphenyl			*91*		*70 - 130*

Lab Sample ID: LCSD 880-70479/3-A
Matrix: Solid
Analysis Batch: 70426

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 70479

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1128	*1	mg/Kg		113	70 - 130	33	20
Diesel Range Organics (Over C10-C28)			1000	1006		mg/Kg		101	70 - 130	8	20

Surrogate			*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane			*85*		*70 - 130*
o-Terphenyl			*88*		*70 - 130*

Lab Sample ID: 890-5894-1 MS
Matrix: Solid
Analysis Batch: 70426

Client Sample ID: SS01
Prep Type: Total/NA
Prep Batch: 70479

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 *1	1000	1253		mg/Kg		122	70 - 130		
Diesel Range Organics (Over C10-C28)	360		1000	1559		mg/Kg		120	70 - 130		

Surrogate			*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane			*130*		*70 - 130*
o-Terphenyl			*104*		*70 - 130*

QC Sample Results

Client: Ensolum
Project/Site: OUTRIDER CVB

Job ID: 890-5894-1
SDG: 03C1558300

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

Lab Sample ID: 890-5894-1 MSD
Matrix: Solid
Analysis Batch: 70426

Client Sample ID: SS01
Prep Type: Total/NA
Prep Batch: 70479

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 *1	1000	1276		mg/Kg		124	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	360		1000	1543		mg/Kg		118	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*127*		*70 - 130*
o-Terphenyl	*102*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-70372/1-A
Matrix: Solid
Analysis Batch: 70392

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			01/09/24 02:25	1

Lab Sample ID: LCS 880-70372/2-A
Matrix: Solid
Analysis Batch: 70392

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	273.8		mg/Kg		110	90 - 110		

Lab Sample ID: LCSD 880-70372/3-A
Matrix: Solid
Analysis Batch: 70392

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	274.4		mg/Kg		110	90 - 110	0	20

Lab Sample ID: 890-5894-3 MS
Matrix: Solid
Analysis Batch: 70392

Client Sample ID: SS03
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	205		251	452.3		mg/Kg		99	90 - 110		

Lab Sample ID: 890-5894-3 MSD
Matrix: Solid
Analysis Batch: 70392

Client Sample ID: SS03
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	205		251	451.6		mg/Kg		98	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: OUTRIDER CVB

Job ID: 890-5894-1
SDG: 03C1558300

GC VOA

Analysis Batch: 70431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5894-1	SS01	Total/NA	Solid	8021B	70448
890-5894-2	SS02	Total/NA	Solid	8021B	70448
890-5894-3	SS03	Total/NA	Solid	8021B	70448
890-5894-4	SS04	Total/NA	Solid	8021B	70448
890-5894-5	SS05	Total/NA	Solid	8021B	70448
890-5894-6	SS06	Total/NA	Solid	8021B	70448
MB 880-70439/5-A	Method Blank	Total/NA	Solid	8021B	70439
MB 880-70448/5-A	Method Blank	Total/NA	Solid	8021B	70448
LCS 880-70448/1-A	Lab Control Sample	Total/NA	Solid	8021B	70448
LCSD 880-70448/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	70448
890-5894-1 MS	SS01	Total/NA	Solid	8021B	70448
890-5894-1 MSD	SS01	Total/NA	Solid	8021B	70448

Prep Batch: 70439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-70439/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 70448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5894-1	SS01	Total/NA	Solid	5035	
890-5894-2	SS02	Total/NA	Solid	5035	
890-5894-3	SS03	Total/NA	Solid	5035	
890-5894-4	SS04	Total/NA	Solid	5035	
890-5894-5	SS05	Total/NA	Solid	5035	
890-5894-6	SS06	Total/NA	Solid	5035	
MB 880-70448/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-70448/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-70448/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-5894-1 MS	SS01	Total/NA	Solid	5035	
890-5894-1 MSD	SS01	Total/NA	Solid	5035	

Analysis Batch: 70550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5894-1	SS01	Total/NA	Solid	Total BTEX	
890-5894-2	SS02	Total/NA	Solid	Total BTEX	
890-5894-3	SS03	Total/NA	Solid	Total BTEX	
890-5894-4	SS04	Total/NA	Solid	Total BTEX	
890-5894-5	SS05	Total/NA	Solid	Total BTEX	
890-5894-6	SS06	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 70426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5894-1	SS01	Total/NA	Solid	8015B NM	70479
890-5894-2	SS02	Total/NA	Solid	8015B NM	70479
890-5894-3	SS03	Total/NA	Solid	8015B NM	70479
890-5894-4	SS04	Total/NA	Solid	8015B NM	70479
890-5894-5	SS05	Total/NA	Solid	8015B NM	70479
890-5894-6	SS06	Total/NA	Solid	8015B NM	70479
MB 880-70479/1-A	Method Blank	Total/NA	Solid	8015B NM	70479

QC Association Summary

Client: Ensolum
Project/Site: OUTRIDER CVB

Job ID: 890-5894-1
SDG: 03C1558300

GC Semi VOA (Continued)

Analysis Batch: 70426 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-70479/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	70479
LCSD 880-70479/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	70479
890-5894-1 MS	SS01	Total/NA	Solid	8015B NM	70479
890-5894-1 MSD	SS01	Total/NA	Solid	8015B NM	70479

Prep Batch: 70479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5894-1	SS01	Total/NA	Solid	8015NM Prep	
890-5894-2	SS02	Total/NA	Solid	8015NM Prep	
890-5894-3	SS03	Total/NA	Solid	8015NM Prep	
890-5894-4	SS04	Total/NA	Solid	8015NM Prep	
890-5894-5	SS05	Total/NA	Solid	8015NM Prep	
890-5894-6	SS06	Total/NA	Solid	8015NM Prep	
MB 880-70479/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-70479/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-70479/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5894-1 MS	SS01	Total/NA	Solid	8015NM Prep	
890-5894-1 MSD	SS01	Total/NA	Solid	8015NM Prep	

Analysis Batch: 70561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5894-1	SS01	Total/NA	Solid	8015 NM	
890-5894-2	SS02	Total/NA	Solid	8015 NM	
890-5894-3	SS03	Total/NA	Solid	8015 NM	
890-5894-4	SS04	Total/NA	Solid	8015 NM	
890-5894-5	SS05	Total/NA	Solid	8015 NM	
890-5894-6	SS06	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 70372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5894-1	SS01	Soluble	Solid	DI Leach	
890-5894-2	SS02	Soluble	Solid	DI Leach	
890-5894-3	SS03	Soluble	Solid	DI Leach	
890-5894-4	SS04	Soluble	Solid	DI Leach	
890-5894-5	SS05	Soluble	Solid	DI Leach	
890-5894-6	SS06	Soluble	Solid	DI Leach	
MB 880-70372/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-70372/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-70372/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5894-3 MS	SS03	Soluble	Solid	DI Leach	
890-5894-3 MSD	SS03	Soluble	Solid	DI Leach	

Analysis Batch: 70392

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5894-1	SS01	Soluble	Solid	300.0	70372
890-5894-2	SS02	Soluble	Solid	300.0	70372
890-5894-3	SS03	Soluble	Solid	300.0	70372
890-5894-4	SS04	Soluble	Solid	300.0	70372
890-5894-5	SS05	Soluble	Solid	300.0	70372

QC Association Summary

Client: Ensolum
Project/Site: OUTRIDER CVB

Job ID: 890-5894-1
SDG: 03C1558300

HPLC/IC (Continued)

Analysis Batch: 70392 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5894-6	SS06	Soluble	Solid	300.0	70372
MB 880-70372/1-A	Method Blank	Soluble	Solid	300.0	70372
LCS 880-70372/2-A	Lab Control Sample	Soluble	Solid	300.0	70372
LCSD 880-70372/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	70372
890-5894-3 MS	SS03	Soluble	Solid	300.0	70372
890-5894-3 MSD	SS03	Soluble	Solid	300.0	70372

Lab Chronicle

Client: Ensolum
Project/Site: OUTRIDER CVB

Job ID: 890-5894-1
SDG: 03C1558300

Client Sample ID: SS01
Date Collected: 01/04/24 11:05
Date Received: 01/04/24 16:36

Lab Sample ID: 890-5894-1
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	70448	01/09/24 10:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70431	01/09/24 23:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70550	01/09/24 23:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			70561	01/09/24 20:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	70479	01/09/24 16:14	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70426	01/09/24 20:43	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	70372	01/08/24 08:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	70392	01/09/24 04:00	CH	EET MID

Client Sample ID: SS02
Date Collected: 01/04/24 11:10
Date Received: 01/04/24 16:36

Lab Sample ID: 890-5894-2
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			4.98 g	5 mL	70448	01/09/24 10:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70431	01/10/24 00:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70550	01/10/24 00:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			70561	01/09/24 21:47	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	70479	01/09/24 16:14	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70426	01/09/24 21:47	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	70372	01/08/24 08:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	70392	01/09/24 04:14	CH	EET MID

Client Sample ID: SS03
Date Collected: 01/04/24 11:15
Date Received: 01/04/24 16:36

Lab Sample ID: 890-5894-3
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			5.02 g	5 mL	70448	01/09/24 10:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70431	01/10/24 00:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70550	01/10/24 00:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			70561	01/09/24 22:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	70479	01/09/24 16:14	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70426	01/09/24 22:08	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	70372	01/08/24 08:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	70392	01/09/24 04:21	CH	EET MID

Client Sample ID: SS04
Date Collected: 01/04/24 11:20
Date Received: 01/04/24 16:36

Lab Sample ID: 890-5894-4
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			5.03 g	5 mL	70448	01/09/24 10:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70431	01/10/24 00:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70550	01/10/24 00:53	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: OUTRIDER CVB

Job ID: 890-5894-1
SDG: 03C1558300

Client Sample ID: SS04

Lab Sample ID: 890-5894-4

Date Collected: 01/04/24 11:20
Matrix: Solid
Date Received: 01/04/24 16:36

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			70561	01/09/24 22:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	70479	01/09/24 16:14	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70426	01/09/24 22:29	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	70372	01/08/24 08:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	70392	01/09/24 04:41	CH	EET MID

Client Sample ID: SS05

Lab Sample ID: 890-5894-5

Date Collected: 01/04/24 11:25
Matrix: Solid
Date Received: 01/04/24 16:36

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	70448	01/09/24 10:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70431	01/10/24 01:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70550	01/10/24 01:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			70561	01/09/24 22:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	70479	01/09/24 16:14	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70426	01/09/24 22:50	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	70372	01/08/24 08:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	70392	01/09/24 04:48	CH	EET MID

Client Sample ID: SS06

Lab Sample ID: 890-5894-6

Date Collected: 01/04/24 11:30
Matrix: Solid
Date Received: 01/04/24 16:36

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	70448	01/09/24 10:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70431	01/10/24 01:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70550	01/10/24 01:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			70561	01/09/24 23:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	70479	01/09/24 16:14	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70426	01/09/24 23:11	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	70372	01/08/24 08:46	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	70392	01/09/24 05:09	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: OUTRIDER CVB

Job ID: 890-5894-1
SDG: 03C1558300

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	T104704400-23-26	06-30-24

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: OUTRIDER CVB

Job ID: 890-5894-1
SDG: 03C1558300

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: OUTRIDER CVB

Job ID: 890-5894-1
SDG: 03C1558300

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-5894-1	SS01	Solid	01/04/24 11:05	01/04/24 16:36	0.25
890-5894-2	SS02	Solid	01/04/24 11:10	01/04/24 16:36	0.25
890-5894-3	SS03	Solid	01/04/24 11:15	01/04/24 16:36	0.25
890-5894-4	SS04	Solid	01/04/24 11:20	01/04/24 16:36	0.25
890-5894-5	SS05	Solid	01/04/24 11:25	01/04/24 16:36	0.25
890-5894-6	SS06	Solid	01/04/24 11:30	01/04/24 16:36	0.25

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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
Little Rock, AR (501) 224-5060

Work Order No: _____

Page 1 of 1

Project Manager:	Tacoma Morrissey	Bill to: (if different)	Garrett Green
Company Name:	Ensolum	Company Name:	XTO Energy
Address:	3122 National Parks Hwy	Address:	3104 E. Green St.
City, State ZIP:	Carlsbad NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	337-257-8307	Email:	Garrett.Green@exxonmobile.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:	Outrider CVB	Turn Around	☑ Routine ☐ Rush
Project Number:	03C1558300	Due Date:	
Project Location:	32.18646, -103.67561	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Peter Van Patten		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	TNM007
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	1.8
Total Containers:		Corrected Temperature:	1.6

ANALYSIS REQUEST

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3
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

890-5894 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Parameters: TPH	BTEX	Chlorides	Sample Comments
SS01	Soil	1-4-24	1105	0.25	Comp	1	X	X	X	
SS02			1110			1	X	X	X	
SS03			1115			1	X	X	X	
SS04			1120			1	X	X	X	
SS05			1125			1	X	X	X	
SS06	↓	↓	1130	↓	↓	1	X	X	X	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr 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 Peter Van Patten		16:36 1/4	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-5894-1
SDG Number: 03C1558300

Login Number: 5894
List Number: 1
Creator: Lopez, Abraham

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	Did not receive all required containers.
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: 890-5894-1
SDG Number: 03C1558300

Login Number: 5894
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 01/08/24 08:34 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: Ben Belill
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 1/29/2024 5:04:55 PM

JOB DESCRIPTION

Outrider CVB
03C1558300

JOB NUMBER

890-5984-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

my EOL

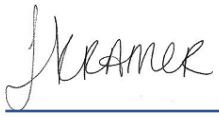
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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: Outrider CVB

Laboratory Job ID: 890-5984-1
SDG: 03C1558300

Table of Contents

Definitions/Glossary

Client: Ensolum
Project/Site: Outrider CVB

Job ID: 890-5984-1
SDG: 03C1558300

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
*1	LCS/LCSD RPD exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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: Outrider CVB

Job ID: 890-5984-1

Job ID: 890-5984-1 Eurofins Carlsbad

Job Narrative
890-5984-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The sample was received on 1/18/2024 9:44 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -0.6°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: BH02 (890-5984-1).

GC VOA
Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-71524 and 880-71624 and analytical batch 880-71730 was outside the control limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: BH02 (890-5984-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-71730 recovered above the upper control limit for m-Xylene & p-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-71730/33).

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 RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-71251 and analytical batch 880-71655 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28).

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-71655 recovered below the lower control limit for Gasoline Range Organics (GRO)-C6-C10, Diesel Range Organics (Over C10-C28) and Total TPH. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-71655/47).

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: Outrider CVB

Job ID: 890-5984-1
SDG: 03C1558300

Client Sample ID: BH02

Date Collected: 01/17/24 13:00
Date Received: 01/18/24 09:44
Sample Depth: 5.0'

Lab Sample ID: 890-5984-1

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		01/25/24 16:48	01/28/24 18:37	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/25/24 16:48	01/28/24 18:37	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/25/24 16:48	01/28/24 18:37	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		01/25/24 16:48	01/28/24 18:37	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/25/24 16:48	01/28/24 18:37	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		01/25/24 16:48	01/28/24 18:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*	*01/25/24 16:48*	*01/28/24 18:37*	*1*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*01/25/24 16:48*	*01/28/24 19:18*	*1*
1,4-Difluorobenzene (Surr)	*64*	*S1-*	*70 - 130*	*01/25/24 16:48*	*01/28/24 18:37*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*01/25/24 16:48*	*01/28/24 19:18*	*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			01/28/24 18:37	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**263**		49.7		mg/Kg			01/27/24 03:27	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	<49.7	U	49.7		mg/Kg		01/19/24 17:02	01/27/24 03:27	1
Diesel Range Organics (Over C10-C28)	**263**	***1**	49.7		mg/Kg		01/19/24 17:02	01/27/24 03:27	1
OII Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/19/24 17:02	01/27/24 03:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*01/19/24 17:02*	*01/27/24 03:27*	*1*
o-Terphenyl	*103*		*70 - 130*	*01/19/24 17:02*	*01/27/24 03:27*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11.2**		4.98		mg/Kg			01/22/24 16:57	1

Surrogate Summary

Client: Ensolum
Project/Site: Outrider CVB

Job ID: 890-5984-1
SDG: 03C1558300

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)
880-38339-A-1-D MS	Matrix Spike	115	99
880-38339-A-1-E MSD	Matrix Spike Duplicate	116	104
890-5984-1	BH02	79	64 S1-
890-5984-1	BH02	113	91
LCS 880-71624/1-A	Lab Control Sample	115	108
LCSD 880-71624/2-A	Lab Control Sample Dup	123	82
MB 880-71524/5-A	Method Blank	72	67 S1-
MB 880-71624/5-A	Method Blank	70	68 S1-

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)
890-5982-A-1-C MS	Matrix Spike	88	89
890-5982-A-1-D MSD	Matrix Spike Duplicate	91	91
890-5984-1	BH02	90	103
LCS 880-71251/2-A	Lab Control Sample	81	103
LCSD 880-71251/3-A	Lab Control Sample Dup	88	108
MB 880-71251/1-A	Method Blank	98	119

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Outrider CVB

Job ID: 890-5984-1
SDG: 03C1558300

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-71524/5-A
Matrix: Solid
Analysis Batch: 71730

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71524

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/24/24 14:50	01/28/24 01:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/24/24 14:50	01/28/24 01:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/24/24 14:50	01/28/24 01:24	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/24/24 14:50	01/28/24 01:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/24/24 14:50	01/28/24 01:24	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/24/24 14:50	01/28/24 01:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*72*		*70 - 130*	*01/24/24 14:50*	*01/28/24 01:24*	*1*
1,4-Difluorobenzene (Surr)	*67*	*S1-*	*70 - 130*	*01/24/24 14:50*	*01/28/24 01:24*	*1*

Lab Sample ID: MB 880-71624/5-A
Matrix: Solid
Analysis Batch: 71730

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71624

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/25/24 16:48	01/28/24 12:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/25/24 16:48	01/28/24 12:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/25/24 16:48	01/28/24 12:01	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/25/24 16:48	01/28/24 12:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/25/24 16:48	01/28/24 12:01	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/25/24 16:48	01/28/24 12:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*70*		*70 - 130*	*01/25/24 16:48*	*01/28/24 12:01*	*1*
1,4-Difluorobenzene (Surr)	*68*	*S1-*	*70 - 130*	*01/25/24 16:48*	*01/28/24 12:01*	*1*

Lab Sample ID: LCS 880-71624/1-A
Matrix: Solid
Analysis Batch: 71730

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 71624

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1162		mg/Kg		116	70 - 130		
Toluene			0.100	0.1127		mg/Kg		113	70 - 130		
Ethylbenzene			0.100	0.1227		mg/Kg		123	70 - 130		
m-Xylene & p-Xylene			0.200	0.2607		mg/Kg		130	70 - 130		
o-Xylene			0.100	0.1272		mg/Kg		127	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

Lab Sample ID: LCSD 880-71624/2-A
Matrix: Solid
Analysis Batch: 71730

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 71624

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09387		mg/Kg		94	70 - 130	21	35

QC Sample Results

Client: Ensolum
Project/Site: Outrider CVB

Job ID: 890-5984-1
SDG: 03C1558300

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

Lab Sample ID: LCSD 880-71624/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 71730 — **Prep Batch: 71624**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.1031		mg/Kg		103	70 - 130	9	35
Ethylbenzene			0.100	0.1215		mg/Kg		122	70 - 130	1	35
m-Xylene & p-Xylene			0.200	0.2536		mg/Kg		127	70 - 130	3	35
o-Xylene			0.100	0.1240		mg/Kg		124	70 - 130	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*

Lab Sample ID: 880-38339-A-1-D MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 71730 — **Prep Batch: 71624**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.1040		mg/Kg		104	70 - 130
Toluene	<0.00199	U	0.0996	0.1058		mg/Kg		106	70 - 130
Ethylbenzene	<0.00199	U	0.0996	0.1130		mg/Kg		113	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.2374		mg/Kg		119	70 - 130
o-Xylene	<0.00199	U	0.0996	0.1164		mg/Kg		116	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: 880-38339-A-1-E MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 71730 — **Prep Batch: 71624**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0990	0.09986		mg/Kg		101	70 - 130	4	35
Toluene	<0.00199	U	0.0990	0.1040		mg/Kg		105	70 - 130	2	35
Ethylbenzene	<0.00199	U	0.0990	0.1169		mg/Kg		118	70 - 130	3	35
m-Xylene & p-Xylene	<0.00398	U	0.198	0.2444		mg/Kg		123	70 - 130	3	35
o-Xylene	<0.00199	U	0.0990	0.1194		mg/Kg		120	70 - 130	3	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

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

Lab Sample ID: MB 880-71251/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 71655 — **Prep Batch: 71251**

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		01/19/24 17:02	01/26/24 18:52	1

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
Project/Site: Outrider CVB

Job ID: 890-5984-1
SDG: 03C1558300

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

Lab Sample ID: MB 880-71251/1-A
Matrix: Solid
Analysis Batch: 71655

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71251

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/19/24 17:02	01/26/24 18:52	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/19/24 17:02	01/26/24 18:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*01/19/24 17:02*	*01/26/24 18:52*	*1*
o-Terphenyl	*119*		*70 - 130*	*01/19/24 17:02*	*01/26/24 18:52*	*1*

Lab Sample ID: LCS 880-71251/2-A
Matrix: Solid
Analysis Batch: 71655

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 71251

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	897.3		mg/Kg		90	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	864.5		mg/Kg		86	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*81*		*70 - 130*
o-Terphenyl	*103*		*70 - 130*

Lab Sample ID: LCSD 880-71251/3-A
Matrix: Solid
Analysis Batch: 71655

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 71251

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1085		mg/Kg		108	70 - 130	19	20
Diesel Range Organics (Over C10-C28)			1000	1149	*1	mg/Kg		115	70 - 130	28	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*88*		*70 - 130*
o-Terphenyl	*108*		*70 - 130*

Lab Sample ID: 890-5982-A-1-C MS
Matrix: Solid
Analysis Batch: 71655

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 71251

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	997	816.2		mg/Kg		79	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.1	U *1	997	998.9		mg/Kg		97	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*88*		*70 - 130*
o-Terphenyl	*89*		*70 - 130*

QC Sample Results

Client: Ensolum
Project/Site: Outrider CVB

Job ID: 890-5984-1
SDG: 03C1558300

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

Lab Sample ID: 890-5982-A-1-D MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 71655 — **Prep Batch: 71251**

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	<50.1	U	997	883.0		mg/Kg		86	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	<50.1	U *1	997	1046		mg/Kg		102	70 - 130	5	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*91*		*70 - 130*
o-Terphenyl	*91*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-71220/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 71365

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			01/22/24 16:11	1

Lab Sample ID: LCS 880-71220/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 71365

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	242.3		mg/Kg		97	90 - 110		

Lab Sample ID: LCSD 880-71220/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 71365

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	243.9		mg/Kg		98	90 - 110	1	20

Lab Sample ID: 890-5982-A-14-B MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 71365

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	48.4		248	296.3		mg/Kg		100	90 - 110		

Lab Sample ID: 890-5982-A-14-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 71365

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	48.4		248	296.6		mg/Kg		100	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: Outrider CVB

Job ID: 890-5984-1
SDG: 03C1558300

GC VOA

Prep Batch: 71524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-71524/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 71624

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5984-1	BH02	Total/NA	Solid	5035	
890-5984-1	BH02	Total/NA	Solid	5035	
MB 880-71624/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-71624/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-71624/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-38339-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
880-38339-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 71730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5984-1	BH02	Total/NA	Solid	8021B	71624
890-5984-1	BH02	Total/NA	Solid	8021B	71624
MB 880-71524/5-A	Method Blank	Total/NA	Solid	8021B	71524
MB 880-71624/5-A	Method Blank	Total/NA	Solid	8021B	71624
LCS 880-71624/1-A	Lab Control Sample	Total/NA	Solid	8021B	71624
LCSD 880-71624/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	71624
880-38339-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	71624
880-38339-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	71624

Analysis Batch: 71804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5984-1	BH02	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 71251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5984-1	BH02	Total/NA	Solid	8015NM Prep	
MB 880-71251/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-71251/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-71251/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5982-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-5982-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 71655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5984-1	BH02	Total/NA	Solid	8015B NM	71251
MB 880-71251/1-A	Method Blank	Total/NA	Solid	8015B NM	71251
LCS 880-71251/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	71251
LCSD 880-71251/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	71251
890-5982-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	71251
890-5982-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	71251

Analysis Batch: 71889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5984-1	BH02	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum
Project/Site: Outrider CVB

Job ID: 890-5984-1
SDG: 03C1558300

HPLC/IC

Leach Batch: 71220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5984-1	BH02	Soluble	Solid	DI Leach	
MB 880-71220/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-71220/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-71220/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5982-A-14-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-5982-A-14-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 71365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5984-1	BH02	Soluble	Solid	300.0	71220
MB 880-71220/1-A	Method Blank	Soluble	Solid	300.0	71220
LCS 880-71220/2-A	Lab Control Sample	Soluble	Solid	300.0	71220
LCSD 880-71220/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	71220
890-5982-A-14-B MS	Matrix Spike	Soluble	Solid	300.0	71220
890-5982-A-14-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	71220

Lab Chronicle

Client: Ensolum
Project/Site: Outrider CVB

Job ID: 890-5984-1
SDG: 03C1558300

Client Sample ID: BH02

Date Collected: 01/17/24 13:00
Date Received: 01/18/24 09:44

Lab Sample ID: 890-5984-1

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			4.96 g	5 mL	71624	01/25/24 16:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71730	01/28/24 18:37	MNR	EET MID
Total/NA	Prep	5035			4.99 g	5 mL	71624	01/25/24 16:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71730	01/28/24 19:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71804	01/28/24 18:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			71889	01/27/24 03:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	71251	01/19/24 17:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71655	01/27/24 03:27	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	71220	01/19/24 14:41	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71365	01/22/24 16:57	SMC	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: Outrider CVB

Job ID: 890-5984-1
SDG: 03C1558300

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	T104704400-23-26	06-30-24

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: Outrider CVB

Job ID: 890-5984-1
SDG: 03C1558300

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: Outrider CVB

Job ID: 890-5984-1
SDG: 03C1558300

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-5984-1	BH02	Solid	01/17/24 13:00	01/18/24 09:44	5.0'

Loc: 890
5984

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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 5984

890-5984 Chain of Custody

Project Manager:	Bell Bell	Bill to: (if different)	Carrie Green
Company Name:	Ensolum, LLC	Company Name:	XTO Energy
Address:	3122 National Parks Hwy	Address:	3104 E Green St
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	989-654-0852	Email:	tbell@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:	Cutrider CVP	Turn Around	☑ Routine ☐ Rush
Project Number:	C3C155830C		
Project Location:	32.1864, -103.67561	Due Date:	
Sampler's Name:	Mario Sarkis	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#005
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	-0.8
Total Containers:		Corrected Temperature:	-0.6

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: BTEX	TPH	Chlorides
BH02	S	1/17/23	13:00	5.0'	G	1		✓	✓	✓

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 Comments
CC: 1056151001
Incident #:
NAPP2332139094

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		Meaks	1/18/24 07:30	Meaks	Sams	1/18 8:12
3				4		
5				6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-5984-1
SDG Number: 03C1558300

Login Number: 5984
List Number: 1
Creator: Lopez, Abraham

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: 890-5984-1
SDG Number: 03C1558300

Login Number: 5984
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 01/19/24 03:48 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	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 2/1/2024 10:19:15 AM

JOB DESCRIPTION

Outrider CVB
03C1558300

JOB NUMBER

890-5985-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

my EOL

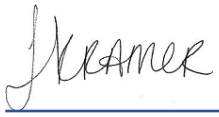
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

Authorization



Generated
2/1/2024 10:19:15 AM

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

Client: Ensolum
Project/Site: Outrider CVB

Laboratory Job ID: 890-5985-1
SDG: 03C1558300

Table of Contents

Definitions/Glossary

Client: Ensolum
Project/Site: Outrider CVB

Job ID: 890-5985-1
SDG: 03C1558300

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
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, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum
Project: Outrider CVB

Job ID: 890-5985-1

Job ID: 890-5985-1 Eurofins Carlsbad

Job Narrative
890-5985-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 1/18/2024 8:12 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 -0.6°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: BH 01 (890-5985-1), BH 02 (890-5985-2), BH 03 (890-5985-3), BH 01 (890-5985-4), BH 02 (890-5985-5), BH 02 (890-5985-6), BH 01 (890-5985-7), BH 03 (890-5985-8), BH 03 (890-5985-9), SS 04 (890-5985-10), SS 04 (890-5985-11), SS 02 (890-5985-12), SS 02 (890-5985-13), SS 01 (890-5985-14), SS 01 (890-5985-15), SS 06 (890-5985-16), SS 08 (890-5985-17), SS 07 (890-5985-18), SS 11 (890-5985-19), SS 10 (890-5985-20), SS 09 (890-5985-21) and SS 05 (890-5985-22).

GC VOA
Method 8021B: Surrogate recovery for the following sample was outside control limits: SS 08 (890-5985-17). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-71524 and 880-71624 and analytical batch 880-71730 was outside the control limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-71518 and analytical batch 880-71762 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: SS 07 (890-5985-18), SS 11 (890-5985-19), SS 10 (890-5985-20) and SS 05 (890-5985-22). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-71730 recovered above the upper control limit for m-Xylene & p-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-71730/33).

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-71518 and analytical batch 880-71762 was outside the upper control limits.

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-71631 and analytical batch 880-71765 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: BH 02 (890-5985-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-71629 and analytical batch 880-71762 was outside the upper control limits.

Method 8021B: The following sample was diluted due to the nature of the sample matrix: BH 02 (890-5985-2). Elevated reporting

Case Narrative

Client: Ensolum Job ID: 890-5985-1
Project: Outrider CVB

Job ID: 890-5985-1 (Continued) Eurofins Carlsbad

limits (RLs) are provided.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-71534 and 880-71631 and analytical batch 880-71765 was outside the upper control limits.

Method 8021B: The laboratory control sample duplicate (LCSD) for preparation batch 880-71631 and analytical batch 880-71765 recovered outside control limits for the following analytes: m-Xylene & p-Xylene. Since only an acceptable LCS is required per the method, the data has been qualified and reported.

Method 8021B: The laboratory control sample (LCS) for preparation batch 880-71537 and analytical batch 880-71915 recovered outside control limits for the following analytes: m-Xylene & p-Xylene. Since only an acceptable LCS or LCSD is required per the method, the LCSD shows recovery for the batch therefore the data has been qualified and reported.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-71537 and analytical batch 880-71915 was outside the control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: BH 01 (890-5985-4), BH 02 (890-5985-5), SS 04 (890-5985-10), SS 02 (890-5985-13), SS 01 (890-5985-14) and SS 01 (890-5985-15). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-71537 and analytical batch 880-71915 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample duplicate (LCSD) recovery was 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: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-71251 and analytical batch 880-71655 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28).

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-71655 recovered below the lower control limit for Gasoline Range Organics (GRO)-C6-C10, Diesel Range Organics (Over C10-C28) and Total TPH. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-71655/47).

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: BH 02 (890-5985-2) and BH 02 (890-5985-6). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: BH 02 (890-5985-2). 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.

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: Outrider CVB

Job ID: 890-5985-1
SDG: 03C1558300

Client Sample ID: BH 01

Lab Sample ID: 890-5985-1
Matrix: Solid
Date Collected: 01/16/24 13:50
Date Received: 01/18/24 08:12
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		01/24/24 14:18	01/28/24 17:57	1
Toluene	<0.00199	U F1	0.00199		mg/Kg		01/24/24 14:18	01/28/24 17:57	1
Ethylbenzene	<0.00199	U F1	0.00199		mg/Kg		01/24/24 14:18	01/28/24 17:57	1
m-Xylene & p-Xylene	<0.00398	U F1	0.00398		mg/Kg		01/24/24 14:18	01/28/24 17:57	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/24/24 14:18	01/28/24 17:57	1
Xylenes, Total	<0.00398	U F1	0.00398		mg/Kg		01/24/24 14:18	01/28/24 17:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*01/24/24 14:18*	*01/28/24 17:57*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*01/24/24 14:18*	*01/28/24 17:57*	*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			01/28/24 17:57	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**126**		50.5		mg/Kg			01/27/24 11:22	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	<50.5	U	50.5		mg/Kg		01/19/24 17:05	01/27/24 11:22	1
Diesel Range Organics (Over C10-C28)	**126**		50.5		mg/Kg		01/19/24 17:05	01/27/24 11:22	1
OII Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		01/19/24 17:05	01/27/24 11:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*01/19/24 17:05*	*01/27/24 11:22*	*1*
o-Terphenyl	*114*		*70 - 130*	*01/19/24 17:05*	*01/27/24 11:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4290**		49.9		mg/Kg			01/22/24 17:13	10

Client Sample ID: BH 02

Lab Sample ID: 890-5985-2
Matrix: Solid
Date Collected: 01/16/24 14:30
Date Received: 01/18/24 08:12
Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0398	U	0.0398		mg/Kg		01/25/24 17:53	01/29/24 13:31	20
Toluene	**0.634**		0.0398		mg/Kg		01/25/24 17:53	01/29/24 13:31	20
Ethylbenzene	**0.986**		0.0398		mg/Kg		01/25/24 17:53	01/29/24 13:31	20
m-Xylene & p-Xylene	**3.74**		0.0795		mg/Kg		01/25/24 17:53	01/29/24 13:31	20
o-Xylene	**7.42**		0.0398		mg/Kg		01/25/24 17:53	01/29/24 13:31	20
Xylenes, Total	**11.2**		0.0795		mg/Kg		01/25/24 17:53	01/29/24 13:31	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*01/25/24 17:53*	*01/29/24 13:31*	*20*

Client Sample Results

Client: Ensolum
Project/Site: Outrider CVB

Job ID: 890-5985-1
SDG: 03C1558300

Client Sample ID: BH 02

Date Collected: 01/16/24 14:30
Date Received: 01/18/24 08:12
Sample Depth: 0.5'

Lab Sample ID: 890-5985-2
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*52*	*S1-*	*70 - 130*	*01/25/24 17:53*	*01/29/24 13:31*	*20*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**12.8**		0.0795	mg/Kg			01/29/24 13:31	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**10700**		251	mg/Kg			01/28/24 06:53	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	**1950**		50.2	mg/Kg		01/19/24 17:05	01/27/24 12:29	1
Diesel Range Organics (Over C10-C28)	**8750**		251	mg/Kg		01/19/24 17:05	01/28/24 06:53	5
OII Range Organics (Over C28-C36)	<50.2	U	50.2	mg/Kg		01/19/24 17:05	01/27/24 12:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*177*	*S1+*	*70 - 130*	*01/19/24 17:05*	*01/27/24 12:29*	*1*
o-Terphenyl	*166*	*S1+*	*70 - 130*	*01/19/24 17:05*	*01/27/24 12:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**313**		4.97	mg/Kg			01/22/24 17:18	1

Client Sample ID: BH 03

Date Collected: 01/16/24 15:00
Date Received: 01/18/24 08:12
Sample Depth: 0.5'

Lab Sample ID: 890-5985-3
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		01/24/24 14:18	01/28/24 18:38	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/24/24 14:18	01/28/24 18:38	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/24/24 14:18	01/28/24 18:38	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		01/24/24 14:18	01/28/24 18:38	1
o-Xylene	**0.00385**		0.00200	mg/Kg		01/24/24 14:18	01/28/24 18:38	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		01/24/24 14:18	01/28/24 18:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*01/24/24 14:18*	*01/28/24 18:38*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*01/24/24 14:18*	*01/28/24 18:38*	*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			01/28/24 18:38	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**295**		50.4	mg/Kg			01/27/24 12:52	1

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Client Sample Results

Client: Ensolum
Project/Site: Outrider CVB

Job ID: 890-5985-1
SDG: 03C1558300

Client Sample ID: BH 03

Lab Sample ID: 890-5985-3
Matrix: Solid
Date Collected: 01/16/24 15:00
Date Received: 01/18/24 08:12
Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	54.0		50.4		mg/Kg		01/19/24 17:05	01/27/24 12:52	1
Diesel Range Organics (Over C10-C28)	241		50.4		mg/Kg		01/19/24 17:05	01/27/24 12:52	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		01/19/24 17:05	01/27/24 12:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*01/19/24 17:05*	*01/27/24 12:52*	*1*
o-Terphenyl	*110*		*70 - 130*	*01/19/24 17:05*	*01/27/24 12:52*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7990		49.6		mg/Kg			01/22/24 17:23	10

Client Sample ID: BH 01

Lab Sample ID: 890-5985-4
Matrix: Solid
Date Collected: 01/17/24 09:06
Date Received: 01/18/24 08:12
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		01/24/24 15:35	01/30/24 13:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/24/24 15:35	01/30/24 13:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/24/24 15:35	01/30/24 13:52	1
m-Xylene & p-Xylene	<0.00401	U *+	0.00401		mg/Kg		01/24/24 15:35	01/30/24 13:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/24/24 15:35	01/30/24 13:52	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/24/24 15:35	01/30/24 13:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*01/24/24 15:35*	*01/30/24 13:52*	*1*
1,4-Difluorobenzene (Surr)	*69*	*S1-*	*70 - 130*	*01/24/24 15:35*	*01/30/24 13:52*	*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			01/30/24 13:52	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			01/27/24 13:15	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	<50.5	U	50.5		mg/Kg		01/19/24 17:05	01/27/24 13:15	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		01/19/24 17:05	01/27/24 13:15	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		01/19/24 17:05	01/27/24 13:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*01/19/24 17:05*	*01/27/24 13:15*	*1*
o-Terphenyl	*100*		*70 - 130*	*01/19/24 17:05*	*01/27/24 13:15*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Outrider CVB

Job ID: 890-5985-1
SDG: 03C1558300

Client Sample ID: BH 01

Lab Sample ID: 890-5985-4
Matrix: Solid
Date Collected: 01/17/24 09:06
Date Received: 01/18/24 08:12
Sample Depth: 4'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	41.7		5.01		mg/Kg			01/22/24 17:28	1

Client Sample ID: BH 02

Lab Sample ID: 890-5985-5
Matrix: Solid
Date Collected: 01/17/24 09:08
Date Received: 01/18/24 08:12
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		01/24/24 15:35	01/30/24 14:13	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/24/24 15:35	01/30/24 14:13	1
Ethylbenzene	0.00221		0.00199		mg/Kg		01/24/24 15:35	01/30/24 14:13	1
m-Xylene & p-Xylene	0.00862	*+	0.00398		mg/Kg		01/24/24 15:35	01/30/24 14:13	1
o-Xylene	0.0219		0.00199		mg/Kg		01/24/24 15:35	01/30/24 14:13	1
Xylenes, Total	0.0305		0.00398		mg/Kg		01/24/24 15:35	01/30/24 14:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*134*	*S1+*	*70 - 130*	*01/24/24 15:35*	*01/30/24 14:13*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*01/24/24 15:35*	*01/30/24 14:13*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0327		0.00398		mg/Kg			01/30/24 14:13	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	840		49.7		mg/Kg			01/27/24 13:38	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	74.8		49.7		mg/Kg		01/19/24 17:05	01/27/24 13:38	1
Diesel Range Organics (Over C10-C28)	765		49.7		mg/Kg		01/19/24 17:05	01/27/24 13:38	1
OII Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/19/24 17:05	01/27/24 13:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*01/19/24 17:05*	*01/27/24 13:38*	*1*
o-Terphenyl	*88*		*70 - 130*	*01/19/24 17:05*	*01/27/24 13:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	44.5		5.04		mg/Kg			01/22/24 17:33	1

Client Sample Results

Client: Ensolum
Project/Site: Outrider CVB

Job ID: 890-5985-1
SDG: 03C1558300

Client Sample ID: BH 02

Lab Sample ID: 890-5985-6
Matrix: Solid
Date Collected: 01/17/24 16:30
Date Received: 01/18/24 08:12
Sample Depth: 7'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.211		0.0994		mg/Kg		01/24/24 15:35	01/30/24 18:44	50
Toluene	19.5		0.0994		mg/Kg		01/24/24 15:35	01/30/24 18:44	50
Ethylbenzene	11.4		0.0994		mg/Kg		01/24/24 15:35	01/30/24 18:44	50
m-Xylene & p-Xylene	64.6		1.99		mg/Kg		01/31/24 10:35	01/31/24 18:38	500
o-Xylene	19.4		0.996		mg/Kg		01/31/24 10:35	01/31/24 18:38	500
Xylenes, Total	84.0		1.99		mg/Kg		01/31/24 10:35	01/31/24 18:38	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*01/24/24 15:35*	*01/30/24 18:44*	*50*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*01/24/24 15:35*	*01/30/24 18:44*	*50*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	115		1.99		mg/Kg			01/31/24 18:38	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	6050		49.8		mg/Kg			01/27/24 14:00	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	1770		49.8		mg/Kg		01/19/24 17:05	01/27/24 14:00	1
Diesel Range Organics (Over C10-C28)	4280		49.8		mg/Kg		01/19/24 17:05	01/27/24 14:00	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/19/24 17:05	01/27/24 14:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*139*	*S1+*	*70 - 130*	*01/19/24 17:05*	*01/27/24 14:00*	*1*
o-Terphenyl	*106*		*70 - 130*	*01/19/24 17:05*	*01/27/24 14:00*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.5		5.05		mg/Kg			01/22/24 17:38	1

Client Sample ID: BH 01

Lab Sample ID: 890-5985-7
Matrix: Solid
Date Collected: 01/17/24 16:10
Date Received: 01/18/24 08:12
Sample Depth: 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		01/24/24 15:35	01/30/24 15:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/24/24 15:35	01/30/24 15:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/24/24 15:35	01/30/24 15:40	1
m-Xylene & p-Xylene	<0.00399	U *+	0.00399		mg/Kg		01/24/24 15:35	01/30/24 15:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/24/24 15:35	01/30/24 15:40	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/24/24 15:35	01/30/24 15:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*	*01/24/24 15:35*	*01/30/24 15:40*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Outrider CVB

Job ID: 890-5985-1
SDG: 03C1558300

Client Sample ID: BH 01

Lab Sample ID: 890-5985-7
Matrix: Solid
Date Collected: 01/17/24 16:10
Date Received: 01/18/24 08:12
Sample Depth: 5'

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*01/24/24 15:35*	*01/30/24 15:40*	*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			01/30/24 15:40	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**95.3**		50.0	mg/Kg			01/27/24 14:23	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		01/19/24 17:05	01/27/24 14:23	1
Diesel Range Organics (Over C10-C28)	**95.3**		50.0	mg/Kg		01/19/24 17:05	01/27/24 14:23	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/19/24 17:05	01/27/24 14:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*01/19/24 17:05*	*01/27/24 14:23*	*1*
o-Terphenyl	*107*		*70 - 130*	*01/19/24 17:05*	*01/27/24 14:23*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**14.6**		5.00	mg/Kg			01/22/24 17:54	1

Client Sample ID: BH 03

Lab Sample ID: 890-5985-8
Matrix: Solid
Date Collected: 01/17/24 09:17
Date Received: 01/18/24 08:12
Sample Depth: 1'

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		01/24/24 15:35	01/30/24 16:00	1
Toluene	<0.00201	U	0.00201	mg/Kg		01/24/24 15:35	01/30/24 16:00	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		01/24/24 15:35	01/30/24 16:00	1
m-Xylene & p-Xylene	<0.00402	U *+	0.00402	mg/Kg		01/24/24 15:35	01/30/24 16:00	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		01/24/24 15:35	01/30/24 16:00	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		01/24/24 15:35	01/30/24 16:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*01/24/24 15:35*	*01/30/24 16:00*	*1*
1,4-Difluorobenzene (Surr)	*75*		*70 - 130*	*01/24/24 15:35*	*01/30/24 16:00*	*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			01/30/24 16:00	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg			01/27/24 14:45	1

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Client Sample Results

Client: Ensolum
Project/Site: Outrider CVB

Job ID: 890-5985-1
SDG: 03C1558300

Client Sample ID: BH 03

Lab Sample ID: 890-5985-8
Matrix: Solid
Date Collected: 01/17/24 09:17
Date Received: 01/18/24 08:12
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	<50.1	U	50.1		mg/Kg		01/19/24 17:05	01/27/24 14:45	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		01/19/24 17:05	01/27/24 14:45	1
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		01/19/24 17:05	01/27/24 14:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*80*		*70 - 130*	*01/19/24 17:05*	*01/27/24 14:45*	*1*
o-Terphenyl	*87*		*70 - 130*	*01/19/24 17:05*	*01/27/24 14:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**418**		5.01		mg/Kg			01/22/24 17:59	1

Client Sample ID: BH 03

Lab Sample ID: 890-5985-9
Matrix: Solid
Date Collected: 01/17/24 09:23
Date Received: 01/18/24 08:12
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		01/24/24 15:35	01/30/24 16:21	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/24/24 15:35	01/30/24 16:21	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/24/24 15:35	01/30/24 16:21	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398		mg/Kg		01/24/24 15:35	01/30/24 16:21	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/24/24 15:35	01/30/24 16:21	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/24/24 15:35	01/30/24 16:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*01/24/24 15:35*	*01/30/24 16:21*	*1*
1,4-Difluorobenzene (Surr)	*70*		*70 - 130*	*01/24/24 15:35*	*01/30/24 16:21*	*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			01/30/24 16:21	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			01/27/24 15:06	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	<50.4	U	50.4		mg/Kg		01/19/24 17:05	01/27/24 15:06	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		01/19/24 17:05	01/27/24 15:06	1
OII Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		01/19/24 17:05	01/27/24 15:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*01/19/24 17:05*	*01/27/24 15:06*	*1*
o-Terphenyl	*94*		*70 - 130*	*01/19/24 17:05*	*01/27/24 15:06*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Outrider CVB

Job ID: 890-5985-1
SDG: 03C1558300

Client Sample ID: BH 03

Lab Sample ID: 890-5985-9
Matrix: Solid
Date Collected: 01/17/24 09:23
Date Received: 01/18/24 08:12
Sample Depth: 4'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	109		4.97		mg/Kg			01/22/24 18:14	1

Client Sample ID: SS 04

Lab Sample ID: 890-5985-10
Matrix: Solid
Date Collected: 01/17/24 09:31
Date Received: 01/18/24 08:12
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		01/24/24 15:35	01/30/24 16:41	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/24/24 15:35	01/30/24 16:41	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/24/24 15:35	01/30/24 16:41	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398		mg/Kg		01/24/24 15:35	01/30/24 16:41	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/24/24 15:35	01/30/24 16:41	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/24/24 15:35	01/30/24 16:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*01/24/24 15:35*	*01/30/24 16:41*	*1*
1,4-Difluorobenzene (Surr)	*63*	*S1-*	*70 - 130*	*01/24/24 15:35*	*01/30/24 16:41*	*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			01/30/24 16:41	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/27/24 15:28	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		01/19/24 17:05	01/27/24 15:28	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/19/24 17:05	01/27/24 15:28	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/19/24 17:05	01/27/24 15:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*01/19/24 17:05*	*01/27/24 15:28*	*1*
o-Terphenyl	*108*		*70 - 130*	*01/19/24 17:05*	*01/27/24 15:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.08		4.95		mg/Kg			01/22/24 18:20	1

Client Sample Results

Client: Ensolum
Project/Site: Outrider CVB

Job ID: 890-5985-1
SDG: 03C1558300

Client Sample ID: SS 04

Date Collected: 01/17/24 13:10
Date Received: 01/18/24 08:12
Sample Depth: 5'

Lab Sample ID: 890-5985-11
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		01/24/24 15:35	01/30/24 17:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/24/24 15:35	01/30/24 17:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/24/24 15:35	01/30/24 17:02	1
m-Xylene & p-Xylene	<0.00399	U *+	0.00399		mg/Kg		01/24/24 15:35	01/30/24 17:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/24/24 15:35	01/30/24 17:02	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/24/24 15:35	01/30/24 17:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*	*01/24/24 15:35*	*01/30/24 17:02*	*1*
1,4-Difluorobenzene (Surr)	*71*		*70 - 130*	*01/24/24 15:35*	*01/30/24 17:02*	*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			01/30/24 17:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			01/27/24 16:30	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	<49.6	U	49.6		mg/Kg		01/19/24 17:05	01/27/24 16:30	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		01/19/24 17:05	01/27/24 16:30	1
OII Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		01/19/24 17:05	01/27/24 16:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*01/19/24 17:05*	*01/27/24 16:30*	*1*
o-Terphenyl	*91*		*70 - 130*	*01/19/24 17:05*	*01/27/24 16:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11.6**		5.04		mg/Kg			01/22/24 18:25	1

Client Sample ID: SS 02

Date Collected: 01/17/24 09:40
Date Received: 01/18/24 08:12
Sample Depth: 1'

Lab Sample ID: 890-5985-12
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		01/24/24 15:35	01/30/24 17:22	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/24/24 15:35	01/30/24 17:22	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/24/24 15:35	01/30/24 17:22	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398		mg/Kg		01/24/24 15:35	01/30/24 17:22	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/24/24 15:35	01/30/24 17:22	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/24/24 15:35	01/30/24 17:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*	*01/24/24 15:35*	*01/30/24 17:22*	*1*

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Client Sample Results

Client: Ensolum
Project/Site: Outrider CVB

Job ID: 890-5985-1
SDG: 03C1558300

Client Sample ID: SS 02

Lab Sample ID: 890-5985-12
Matrix: Solid
Date Collected: 01/17/24 09:40
Date Received: 01/18/24 08:12
Sample Depth: 1'

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*01/24/24 15:35*	*01/30/24 17:22*	*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			01/30/24 17:22	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			01/27/24 16:51	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		01/19/24 17:05	01/27/24 16:51	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		01/19/24 17:05	01/27/24 16:51	1
OII Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		01/19/24 17:05	01/27/24 16:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*01/19/24 17:05*	*01/27/24 16:51*	*1*
o-Terphenyl	*84*		*70 - 130*	*01/19/24 17:05*	*01/27/24 16:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.01**		5.03	mg/Kg			01/22/24 18:30	1

Client Sample ID: SS 02

Lab Sample ID: 890-5985-13
Matrix: Solid
Date Collected: 01/17/24 09:46
Date Received: 01/18/24 08:12
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		01/24/24 15:35	01/30/24 17:43	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/24/24 15:35	01/30/24 17:43	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/24/24 15:35	01/30/24 17:43	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398	mg/Kg		01/24/24 15:35	01/30/24 17:43	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/24/24 15:35	01/30/24 17:43	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/24/24 15:35	01/30/24 17:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*01/24/24 15:35*	*01/30/24 17:43*	*1*
1,4-Difluorobenzene (Surr)	*67*	*S1-*	*70 - 130*	*01/24/24 15:35*	*01/30/24 17:43*	*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			01/30/24 17:43	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			01/27/24 17:13	1

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Client Sample Results

Client: Ensolum
Project/Site: Outrider CVB

Job ID: 890-5985-1
SDG: 03C1558300

Client Sample ID: SS 02

Lab Sample ID: 890-5985-13
Matrix: Solid
Date Collected: 01/17/24 09:46
Date Received: 01/18/24 08:12
Sample Depth: 4'

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		01/19/24 17:05	01/27/24 17:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/19/24 17:05	01/27/24 17:13	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/19/24 17:05	01/27/24 17:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*01/19/24 17:05*	*01/27/24 17:13*	*1*
o-Terphenyl	*94*		*70 - 130*	*01/19/24 17:05*	*01/27/24 17:13*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**12.2**		4.96		mg/Kg			01/22/24 18:35	1

Client Sample ID: SS 01

Lab Sample ID: 890-5985-14
Matrix: Solid
Date Collected: 01/17/24 10:38
Date Received: 01/18/24 08:12
Sample Depth: 2'

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		01/24/24 15:35	01/30/24 18:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/24/24 15:35	01/30/24 18:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/24/24 15:35	01/30/24 18:03	1
m-Xylene & p-Xylene	<0.00399	U *+	0.00399		mg/Kg		01/24/24 15:35	01/30/24 18:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/24/24 15:35	01/30/24 18:03	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/24/24 15:35	01/30/24 18:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*01/24/24 15:35*	*01/30/24 18:03*	*1*
1,4-Difluorobenzene (Surr)	*63*	*S1-*	*70 - 130*	*01/24/24 15:35*	*01/30/24 18:03*	*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			01/30/24 18:03	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			01/27/24 17:34	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	<50.3	U	50.3		mg/Kg		01/19/24 17:05	01/27/24 17:34	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		01/19/24 17:05	01/27/24 17:34	1
OII Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		01/19/24 17:05	01/27/24 17:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*01/19/24 17:05*	*01/27/24 17:34*	*1*
o-Terphenyl	*101*		*70 - 130*	*01/19/24 17:05*	*01/27/24 17:34*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Outrider CVB

Job ID: 890-5985-1
SDG: 03C1558300

Client Sample ID: SS 01

Lab Sample ID: 890-5985-14
Matrix: Solid
Date Collected: 01/17/24 10:38
Date Received: 01/18/24 08:12
Sample Depth: 2'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.37		4.95		mg/Kg			01/22/24 18:40	1

Client Sample ID: SS 01

Lab Sample ID: 890-5985-15
Matrix: Solid
Date Collected: 01/17/24 10:42
Date Received: 01/18/24 08:12
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		01/24/24 15:35	01/30/24 18:24	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/24/24 15:35	01/30/24 18:24	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/24/24 15:35	01/30/24 18:24	1
m-Xylene & p-Xylene	<0.00402	U *+	0.00402		mg/Kg		01/24/24 15:35	01/30/24 18:24	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/24/24 15:35	01/30/24 18:24	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/24/24 15:35	01/30/24 18:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*01/24/24 15:35*	*01/30/24 18:24*	*1*
1,4-Difluorobenzene (Surr)	*69*	*S1-*	*70 - 130*	*01/24/24 15:35*	*01/30/24 18:24*	*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			01/30/24 18:24	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			01/27/24 17:55	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	<50.4	U	50.4		mg/Kg		01/19/24 17:05	01/27/24 17:55	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		01/19/24 17:05	01/27/24 17:55	1
OII Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		01/19/24 17:05	01/27/24 17:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*01/19/24 17:05*	*01/27/24 17:55*	*1*
o-Terphenyl	*109*		*70 - 130*	*01/19/24 17:05*	*01/27/24 17:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.41		4.96		mg/Kg			01/22/24 18:45	1

Client Sample Results

Client: Ensolum
Project/Site: Outrider CVB

Job ID: 890-5985-1
SDG: 03C1558300

Client Sample ID: SS 06

Lab Sample ID: 890-5985-16
Matrix: Solid
Date Collected: 01/17/24 11:02
Date Received: 01/18/24 08:12
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		01/25/24 16:48	01/28/24 15:07	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/25/24 16:48	01/28/24 15:07	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/25/24 16:48	01/28/24 15:07	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/25/24 16:48	01/28/24 15:07	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/25/24 16:48	01/28/24 15:07	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/25/24 16:48	01/28/24 15:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*01/25/24 16:48*	*01/28/24 15:07*	*1*
1,4-Difluorobenzene (Surr)	*75*		*70 - 130*	*01/25/24 16:48*	*01/28/24 15:07*	*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			01/28/24 15:07	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			01/27/24 18:17	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	<50.3	U	50.3		mg/Kg		01/19/24 17:05	01/27/24 18:17	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		01/19/24 17:05	01/27/24 18:17	1
OII Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		01/19/24 17:05	01/27/24 18:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*01/19/24 17:05*	*01/27/24 18:17*	*1*
o-Terphenyl	*93*		*70 - 130*	*01/19/24 17:05*	*01/27/24 18:17*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.79**		5.05		mg/Kg			01/24/24 12:32	1

Client Sample ID: SS 08

Lab Sample ID: 890-5985-17
Matrix: Solid
Date Collected: 01/17/24 09:47
Date Received: 01/18/24 08:12
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		01/25/24 16:48	01/28/24 15:28	1
Toluene	**0.00273**		0.00200		mg/Kg		01/25/24 16:48	01/28/24 15:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/25/24 16:48	01/28/24 15:28	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/25/24 16:48	01/28/24 15:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/25/24 16:48	01/28/24 15:28	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/25/24 16:48	01/28/24 15:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*	*01/25/24 16:48*	*01/28/24 15:28*	*1*

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Client Sample Results

Client: Ensolum
Project/Site: Outrider CVB

Job ID: 890-5985-1
SDG: 03C1558300

Client Sample ID: SS 08

Lab Sample ID: 890-5985-17
Matrix: Solid
Date Collected: 01/17/24 09:47
Date Received: 01/18/24 08:12
Sample Depth: 0.5'

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*61*	*S1-*	*70 - 130*	*01/25/24 16:48*	*01/28/24 15:28*	*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			01/28/24 15:28	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6	mg/Kg			01/27/24 18:38	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	<49.6	U	49.6	mg/Kg		01/19/24 17:05	01/27/24 18:38	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6	mg/Kg		01/19/24 17:05	01/27/24 18:38	1
OII Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		01/19/24 17:05	01/27/24 18:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*01/19/24 17:05*	*01/27/24 18:38*	*1*
o-Terphenyl	*91*		*70 - 130*	*01/19/24 17:05*	*01/27/24 18:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**80.9**		5.02	mg/Kg			01/24/24 15:33	1

Client Sample ID: SS 07

Lab Sample ID: 890-5985-18
Matrix: Solid
Date Collected: 01/17/24 10:02
Date Received: 01/18/24 08:12
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		01/25/24 16:48	01/28/24 17:16	1
Toluene	**0.00336**		0.00201	mg/Kg		01/25/24 16:48	01/28/24 17:16	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		01/25/24 16:48	01/28/24 17:16	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		01/25/24 16:48	01/28/24 17:16	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		01/25/24 16:48	01/28/24 17:16	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		01/25/24 16:48	01/28/24 17:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*	*01/25/24 16:48*	*01/28/24 17:16*	*1*
1,4-Difluorobenzene (Surr)	*63*	*S1-*	*70 - 130*	*01/25/24 16:48*	*01/28/24 17:16*	*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			01/28/24 17:16	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6	mg/Kg			01/27/24 18:59	1

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Client Sample Results

Client: Ensolum
Project/Site: Outrider CVB

Job ID: 890-5985-1
SDG: 03C1558300

Client Sample ID: SS 07

Lab Sample ID: 890-5985-18
Matrix: Solid
Date Collected: 01/17/24 10:02
Date Received: 01/18/24 08:12
Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		01/19/24 17:05	01/27/24 18:59	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		01/19/24 17:05	01/27/24 18:59	1
OII Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		01/19/24 17:05	01/27/24 18:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*01/19/24 17:05*	*01/27/24 18:59*	*1*
o-Terphenyl	*93*		*70 - 130*	*01/19/24 17:05*	*01/27/24 18:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**142**		25.2		mg/Kg			01/24/24 12:52	5

Client Sample ID: SS 11

Lab Sample ID: 890-5985-19
Matrix: Solid
Date Collected: 01/17/24 10:53
Date Received: 01/18/24 08:12
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		01/25/24 16:48	01/28/24 17:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/25/24 16:48	01/28/24 17:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/25/24 16:48	01/28/24 17:36	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		01/25/24 16:48	01/28/24 17:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/25/24 16:48	01/28/24 17:36	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/25/24 16:48	01/28/24 17:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*	*01/25/24 16:48*	*01/28/24 17:36*	*1*
1,4-Difluorobenzene (Surr)	*66*	*S1-*	*70 - 130*	*01/25/24 16:48*	*01/28/24 17:36*	*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			01/28/24 17:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			01/27/24 19:21	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	<50.5	U	50.5		mg/Kg		01/19/24 17:05	01/27/24 19:21	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		01/19/24 17:05	01/27/24 19:21	1
OII Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		01/19/24 17:05	01/27/24 19:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*01/19/24 17:05*	*01/27/24 19:21*	*1*
o-Terphenyl	*98*		*70 - 130*	*01/19/24 17:05*	*01/27/24 19:21*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Outrider CVB

Job ID: 890-5985-1
SDG: 03C1558300

Client Sample ID: SS 11

Lab Sample ID: 890-5985-19
Matrix: Solid
Date Collected: 01/17/24 10:53
Date Received: 01/18/24 08:12
Sample Depth: 0.5'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	194		24.9		mg/Kg			01/24/24 12:58	5

Client Sample ID: SS 10

Lab Sample ID: 890-5985-20
Matrix: Solid
Date Collected: 01/17/24 13:14
Date Received: 01/18/24 08:12
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		01/25/24 16:48	01/28/24 17:57	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/25/24 16:48	01/28/24 17:57	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/25/24 16:48	01/28/24 17:57	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/25/24 16:48	01/28/24 17:57	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/25/24 16:48	01/28/24 17:57	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/25/24 16:48	01/28/24 17:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*	*01/25/24 16:48*	*01/28/24 17:57*	*1*
1,4-Difluorobenzene (Surr)	*63*	*S1-*	*70 - 130*	*01/25/24 16:48*	*01/28/24 17:57*	*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			01/28/24 17:57	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			01/27/24 19:43	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		01/19/24 17:05	01/27/24 19:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/19/24 17:05	01/27/24 19:43	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/19/24 17:05	01/27/24 19:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*01/19/24 17:05*	*01/27/24 19:43*	*1*
o-Terphenyl	*88*		*70 - 130*	*01/19/24 17:05*	*01/27/24 19:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	92.1		4.98		mg/Kg			01/24/24 15:38	1

Client Sample Results

Client: Ensolum
Project/Site: Outrider CVB

Job ID: 890-5985-1
SDG: 03C1558300

Client Sample ID: SS 09

Lab Sample ID: 890-5985-21
Matrix: Solid
Date Collected: 01/17/24 13:45
Date Received: 01/18/24 08:12
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 F1	0.00201		mg/Kg		01/25/24 17:57	01/30/24 01:49	1
Toluene	<0.00201	U F1	0.00201		mg/Kg		01/25/24 17:57	01/30/24 01:49	1
Ethylbenzene	<0.00201	U F1	0.00201		mg/Kg		01/25/24 17:57	01/30/24 01:49	1
m-Xylene & p-Xylene	<0.00402	U *+	0.00402		mg/Kg		01/25/24 17:57	01/30/24 01:49	1
o-Xylene	<0.00201	U F1	0.00201		mg/Kg		01/25/24 17:57	01/30/24 01:49	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/25/24 17:57	01/30/24 01:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*01/25/24 17:57*	*01/30/24 01:49*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*01/25/24 17:57*	*01/30/24 01:49*	*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			01/30/24 01:49	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			01/27/24 03:49	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	<49.7	U	49.7		mg/Kg		01/19/24 17:02	01/27/24 03:49	1
Diesel Range Organics (Over C10-C28)	<49.7	U *1	49.7		mg/Kg		01/19/24 17:02	01/27/24 03:49	1
OII Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/19/24 17:02	01/27/24 03:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*01/19/24 17:02*	*01/27/24 03:49*	*1*
o-Terphenyl	*98*		*70 - 130*	*01/19/24 17:02*	*01/27/24 03:49*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**69.8**		4.99		mg/Kg			01/24/24 13:18	1

Client Sample ID: SS 05

Lab Sample ID: 890-5985-22
Matrix: Solid
Date Collected: 01/17/24 13:18
Date Received: 01/18/24 08:12
Sample Depth: 4'

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		01/25/24 16:48	01/28/24 18:17	1
Toluene	**0.00540**		0.00198		mg/Kg		01/25/24 16:48	01/28/24 18:17	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/25/24 16:48	01/28/24 18:17	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		01/25/24 16:48	01/28/24 18:17	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/25/24 16:48	01/28/24 18:17	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		01/25/24 16:48	01/28/24 18:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*01/25/24 16:48*	*01/28/24 18:17*	*1*

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Outrider CVB

Job ID: 890-5985-1
SDG: 03C1558300

Client Sample ID: SS 05

Date Collected: 01/17/24 13:18
Date Received: 01/18/24 08:12
Sample Depth: 4'

Lab Sample ID: 890-5985-22

Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*64*	*S1-*	*70 - 130*	*01/25/24 16:48*	*01/28/24 18:17*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00540**		0.00396	mg/Kg			01/28/24 18:17	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			01/27/24 04:10	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		01/19/24 17:02	01/27/24 04:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0	mg/Kg		01/19/24 17:02	01/27/24 04:10	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/19/24 17:02	01/27/24 04:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*01/19/24 17:02*	*01/27/24 04:10*	*1*
o-Terphenyl	*129*		*70 - 130*	*01/19/24 17:02*	*01/27/24 04:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11.5**		4.99	mg/Kg			01/24/24 13:23	1

Surrogate Summary

Client: Ensolum
Project/Site: Outrider CVB

Job ID: 890-5985-1
SDG: 03C1558300

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)
880-38205-A-4-D MS	Matrix Spike	110	93
880-38205-A-4-E MSD	Matrix Spike Duplicate	111	97
880-38339-A-1-D MS	Matrix Spike	115	99
880-38339-A-1-E MSD	Matrix Spike Duplicate	116	104
890-5981-A-1-E MS	Matrix Spike	109	104
890-5981-A-1-F MSD	Matrix Spike Duplicate	115	104
890-5985-1	BH 01	89	100
890-5985-1 MS	BH 01	108	98
890-5985-1 MSD	BH 01	114	107
890-5985-2	BH 02	89	52 S1-
890-5985-3	BH 03	99	87
890-5985-4	BH 01	95	69 S1-
890-5985-5	BH 02	134 S1+	90
890-5985-6	BH 02	90	96
890-5985-7	BH 01	83	78
890-5985-8	BH 03	89	75
890-5985-9	BH 03	90	70
890-5985-10	SS 04	86	63 S1-
890-5985-11	SS 04	85	71
890-5985-12	SS 02	84	83
890-5985-13	SS 02	89	67 S1-
890-5985-14	SS 01	93	63 S1-
890-5985-15	SS 01	92	69 S1-
890-5985-16	SS 06	86	75
890-5985-17	SS 08	83	61 S1-
890-5985-18	SS 07	84	63 S1-
890-5985-19	SS 11	83	66 S1-
890-5985-20	SS 10	82	63 S1-
890-5985-21	SS 09	99	107
890-5985-21 MS	SS 09	125	123
890-5985-21 MSD	SS 09	95	88
890-5985-22	SS 05	86	64 S1-
LCS 880-71518/1-A	Lab Control Sample	105	101
LCS 880-71537/1-A	Lab Control Sample	111	102
LCS 880-71624/1-A	Lab Control Sample	115	108
LCS 880-71629/1-A	Lab Control Sample	96	90
LCS 880-71631/1-A	Lab Control Sample	108	98
LCS 880-72014/1-A	Lab Control Sample	105	95
LCSD 880-71518/2-A	Lab Control Sample Dup	111	98
LCSD 880-71537/2-A	Lab Control Sample Dup	109	101
LCSD 880-71624/2-A	Lab Control Sample Dup	123	82
LCSD 880-71629/2-A	Lab Control Sample Dup	99	101
LCSD 880-71631/2-A	Lab Control Sample Dup	119	86
LCSD 880-72014/2-A	Lab Control Sample Dup	101	95
MB 880-71518/5-A	Method Blank	130	132 S1+
MB 880-71524/5-A	Method Blank	72	67 S1-
MB 880-71534/5-A	Method Blank	59 S1-	104
MB 880-71537/5-A	Method Blank	67 S1-	88
MB 880-71624/5-A	Method Blank	70	68 S1-

Surrogate Summary

Client: Ensolum Job ID: 890-5985-1
Project/Site: Outrider CVB SDG: 03C1558300

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

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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) BFB1 (70-130)	DFBZ1 (70-130)
MB 880-71629/5-A	Method Blank	117	132 S1+
MB 880-71631/5-A	Method Blank	51 S1-	104
MB 880-72014/5-A	Method Blank	116	115

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**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) 1CO1 (70-130)	OTPH1 (70-130)
890-5982-A-1-C MS	Matrix Spike	88	89
890-5982-A-1-D MSD	Matrix Spike Duplicate	91	91
890-5985-1	BH 01	106	114
890-5985-1 MS	BH 01	100	95
890-5985-1 MSD	BH 01	101	96
890-5985-2	BH 02	177 S1+	166 S1+
890-5985-3	BH 03	101	110
890-5985-4	BH 01	89	100
890-5985-5	BH 02	84	88
890-5985-6	BH 02	139 S1+	106
890-5985-7	BH 01	95	107
890-5985-8	BH 03	80	87
890-5985-9	BH 03	86	94
890-5985-10	SS 04	97	108
890-5985-11	SS 04	85	91
890-5985-12	SS 02	81	84
890-5985-13	SS 02	88	94
890-5985-14	SS 01	98	101
890-5985-15	SS 01	100	109
890-5985-16	SS 06	87	93
890-5985-17	SS 08	84	91
890-5985-18	SS 07	87	93
890-5985-19	SS 11	92	98
890-5985-20	SS 10	82	88
890-5985-21	SS 09	87	98
890-5985-22	SS 05	108	129
LCS 880-71251/2-A	Lab Control Sample	81	103
LCS 880-71252/2-A	Lab Control Sample	82	95
LCSD 880-71251/3-A	Lab Control Sample Dup	88	108
LCSD 880-71252/3-A	Lab Control Sample Dup	81	90
MB 880-71251/1-A	Method Blank	98	119
MB 880-71252/1-A	Method Blank	105	123

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Outrider CVB

Job ID: 890-5985-1
SDG: 03C1558300

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-71518/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 71762 — **Prep Batch: 71518**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/24/24 14:18	01/28/24 17:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/24/24 14:18	01/28/24 17:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/24/24 14:18	01/28/24 17:28	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/24/24 14:18	01/28/24 17:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/24/24 14:18	01/28/24 17:28	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/24/24 14:18	01/28/24 17:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*130*		*70 - 130*	*01/24/24 14:18*	*01/28/24 17:28*	*1*
1,4-Difluorobenzene (Surr)	*132*	*S1+*	*70 - 130*	*01/24/24 14:18*	*01/28/24 17:28*	*1*

Lab Sample ID: LCS 880-71518/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 71762 — **Prep Batch: 71518**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09202		mg/Kg		92	70 - 130		
Toluene			0.100	0.08218		mg/Kg		82	70 - 130		
Ethylbenzene			0.100	0.08502		mg/Kg		85	70 - 130		
m-Xylene & p-Xylene			0.200	0.1692		mg/Kg		85	70 - 130		
o-Xylene			0.100	0.08738		mg/Kg		87	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 880-71518/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 71762 — **Prep Batch: 71518**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09900		mg/Kg		99	70 - 130	7	35
Toluene			0.100	0.08352		mg/Kg		84	70 - 130	2	35
Ethylbenzene			0.100	0.09734		mg/Kg		97	70 - 130	14	35
m-Xylene & p-Xylene			0.200	0.1942		mg/Kg		97	70 - 130	14	35
o-Xylene			0.100	0.1001		mg/Kg		100	70 - 130	14	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: 890-5985-1 MS — **Client Sample ID: BH 01**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 71762 — **Prep Batch: 71518**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00199	U	0.0996	0.08502		mg/Kg		85	70 - 130		
Toluene	<0.00199	U F1	0.0996	0.03703	F1	mg/Kg		37	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: Outrider CVB

Job ID: 890-5985-1
SDG: 03C1558300

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

Lab Sample ID: 890-5985-1 MS
Matrix: Solid
Analysis Batch: 71762

Client Sample ID: BH 01
Prep Type: Total/NA
Prep Batch: 71518

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U F1	0.0996	0.04714	F1	mg/Kg		47	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1	0.199	0.008289	F1	mg/Kg		4	70 - 130
o-Xylene	<0.00199	U	0.0996	0.07619		mg/Kg		76	70 - 130

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

Lab Sample ID: 890-5985-1 MSD
Matrix: Solid
Analysis Batch: 71762

Client Sample ID: BH 01
Prep Type: Total/NA
Prep Batch: 71518

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0990	0.09096		mg/Kg		92	70 - 130	7	35
Toluene	<0.00199	U F1	0.0990	0.04689	F1	mg/Kg		47	70 - 130	23	35
Ethylbenzene	<0.00199	U F1	0.0990	0.04753	F1	mg/Kg		48	70 - 130	1	35
m-Xylene & p-Xylene	<0.00398	U F1	0.198	0.007162	F1	mg/Kg		4	70 - 130	15	35
o-Xylene	<0.00199	U	0.0990	0.08386		mg/Kg		84	70 - 130	10	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: MB 880-71524/5-A
Matrix: Solid
Analysis Batch: 71730

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71524

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/24/24 14:50	01/28/24 01:24	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/24/24 14:50	01/28/24 01:24	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/24/24 14:50	01/28/24 01:24	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/24/24 14:50	01/28/24 01:24	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/24/24 14:50	01/28/24 01:24	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/24/24 14:50	01/28/24 01:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*72*		*70 - 130*	*01/24/24 14:50*	*01/28/24 01:24*	*1*
1,4-Difluorobenzene (Surr)	*67*	*S1-*	*70 - 130*	*01/24/24 14:50*	*01/28/24 01:24*	*1*

Lab Sample ID: MB 880-71534/5-A
Matrix: Solid
Analysis Batch: 71765

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71534

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/24/24 15:28	01/29/24 11:45	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/24/24 15:28	01/29/24 11:45	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/24/24 15:28	01/29/24 11:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/24/24 15:28	01/29/24 11:45	1

QC Sample Results

Client: Ensolum
Project/Site: Outrider CVB

Job ID: 890-5985-1
SDG: 03C1558300

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

Lab Sample ID: MB 880-71534/5-A
Matrix: Solid
Analysis Batch: 71765

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71534

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/24/24 15:28	01/29/24 11:45	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/24/24 15:28	01/29/24 11:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*59*	*S1-*	*70 - 130*	*01/24/24 15:28*	*01/29/24 11:45*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*01/24/24 15:28*	*01/29/24 11:45*	*1*

Lab Sample ID: MB 880-71537/5-A
Matrix: Solid
Analysis Batch: 71915

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71537

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/24/24 15:35	01/30/24 10:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/24/24 15:35	01/30/24 10:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/24/24 15:35	01/30/24 10:46	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/24/24 15:35	01/30/24 10:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/24/24 15:35	01/30/24 10:46	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/24/24 15:35	01/30/24 10:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*67*	*S1-*	*70 - 130*	*01/24/24 15:35*	*01/30/24 10:46*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*01/24/24 15:35*	*01/30/24 10:46*	*1*

Lab Sample ID: LCS 880-71537/1-A
Matrix: Solid
Analysis Batch: 71915

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 71537

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1118		mg/Kg		112	70 - 130		
Toluene			0.100	0.1124		mg/Kg		112	70 - 130		
Ethylbenzene			0.100	0.1262		mg/Kg		126	70 - 130		
m-Xylene & p-Xylene			0.200	0.2642	*+	mg/Kg		132	70 - 130		
o-Xylene			0.100	0.1256		mg/Kg		126	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 880-71537/2-A
Matrix: Solid
Analysis Batch: 71915

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 71537

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1041		mg/Kg		104	70 - 130	7	35
Toluene			0.100	0.1056		mg/Kg		106	70 - 130	6	35
Ethylbenzene			0.100	0.1153		mg/Kg		115	70 - 130	9	35
m-Xylene & p-Xylene			0.200	0.2440		mg/Kg		122	70 - 130	8	35
o-Xylene			0.100	0.1157		mg/Kg		116	70 - 130	8	35

QC Sample Results

Client: Ensolum
Project/Site: Outrider CVB

Job ID: 890-5985-1
SDG: 03C1558300

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

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

Lab Sample ID: 890-5981-A-1-E MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 71915 — **Prep Batch: 71537**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.09687		mg/Kg		97	70 - 130
Toluene	<0.00199	U	0.0996	0.09463		mg/Kg		94	70 - 130
Ethylbenzene	<0.00199	U	0.0996	0.1029		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1 *+	0.199	0.2163		mg/Kg		109	70 - 130
o-Xylene	<0.00199	U	0.0996	0.1044		mg/Kg		105	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 890-5981-A-1-F MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 71915 — **Prep Batch: 71537**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0990	0.1214		mg/Kg		123	70 - 130	22	35
Toluene	<0.00199	U	0.0990	0.1155		mg/Kg		116	70 - 130	20	35
Ethylbenzene	<0.00199	U	0.0990	0.1272		mg/Kg		128	70 - 130	21	35
m-Xylene & p-Xylene	<0.00398	U F1 *+	0.198	0.2662	F1	mg/Kg		134	70 - 130	21	35
o-Xylene	<0.00199	U	0.0990	0.1272		mg/Kg		128	70 - 130	20	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: MB 880-71624/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 71730 — **Prep Batch: 71624**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/25/24 16:48	01/28/24 12:01	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/25/24 16:48	01/28/24 12:01	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/25/24 16:48	01/28/24 12:01	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/25/24 16:48	01/28/24 12:01	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/25/24 16:48	01/28/24 12:01	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/25/24 16:48	01/28/24 12:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	70		70 - 130	01/25/24 16:48	01/28/24 12:01	1
1,4-Difluorobenzene (Surr)	68	S1-	70 - 130	01/25/24 16:48	01/28/24 12:01	1

QC Sample Results

Client: Ensolum
Project/Site: Outrider CVB

Job ID: 890-5985-1
SDG: 03C1558300

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

Lab Sample ID: LCS 880-71624/1-A
Matrix: Solid
Analysis Batch: 71730

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 71624

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1162		mg/Kg		116	70 - 130		
Toluene			0.100	0.1127		mg/Kg		113	70 - 130		
Ethylbenzene			0.100	0.1227		mg/Kg		123	70 - 130		
m-Xylene & p-Xylene			0.200	0.2607		mg/Kg		130	70 - 130		
o-Xylene			0.100	0.1272		mg/Kg		127	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

Lab Sample ID: LCSD 880-71624/2-A
Matrix: Solid
Analysis Batch: 71730

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 71624

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09387		mg/Kg		94	70 - 130	21	35
Toluene			0.100	0.1031		mg/Kg		103	70 - 130	9	35
Ethylbenzene			0.100	0.1215		mg/Kg		122	70 - 130	1	35
m-Xylene & p-Xylene			0.200	0.2536		mg/Kg		127	70 - 130	3	35
o-Xylene			0.100	0.1240		mg/Kg		124	70 - 130	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*

Lab Sample ID: 880-38339-A-1-D MS
Matrix: Solid
Analysis Batch: 71730

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 71624

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00199	U	0.0996	0.1040		mg/Kg		104	70 - 130		
Toluene	<0.00199	U	0.0996	0.1058		mg/Kg		106	70 - 130		
Ethylbenzene	<0.00199	U	0.0996	0.1130		mg/Kg		113	70 - 130		
m-Xylene & p-Xylene	<0.00398	U	0.199	0.2374		mg/Kg		119	70 - 130		
o-Xylene	<0.00199	U	0.0996	0.1164		mg/Kg		116	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: 880-38339-A-1-E MSD
Matrix: Solid
Analysis Batch: 71730

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 71624

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0990	0.09986		mg/Kg		101	70 - 130	4	35
Toluene	<0.00199	U	0.0990	0.1040		mg/Kg		105	70 - 130	2	35
Ethylbenzene	<0.00199	U	0.0990	0.1169		mg/Kg		118	70 - 130	3	35

QC Sample Results

Client: Ensolum
Project/Site: Outrider CVB

Job ID: 890-5985-1
SDG: 03C1558300

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

Lab Sample ID: 880-38339-A-1-E MSD
Matrix: Solid
Analysis Batch: 71730

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 71624

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene	<0.00398	U	0.198	0.2444		mg/Kg		123	70 - 130	3	35
o-Xylene	<0.00199	U	0.0990	0.1194		mg/Kg		120	70 - 130	3	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: MB 880-71629/5-A
Matrix: Solid
Analysis Batch: 71762

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71629

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/25/24 17:53	01/29/24 05:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/25/24 17:53	01/29/24 05:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/25/24 17:53	01/29/24 05:04	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/25/24 17:53	01/29/24 05:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/25/24 17:53	01/29/24 05:04	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/25/24 17:53	01/29/24 05:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*01/25/24 17:53*	*01/29/24 05:04*	*1*
1,4-Difluorobenzene (Surr)	*132*	*S1+*	*70 - 130*	*01/25/24 17:53*	*01/29/24 05:04*	*1*

Lab Sample ID: LCS 880-71629/1-A
Matrix: Solid
Analysis Batch: 71762

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 71629

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08742		mg/Kg		87	70 - 130		
Toluene			0.100	0.08856		mg/Kg		89	70 - 130		
Ethylbenzene			0.100	0.08928		mg/Kg		89	70 - 130		
m-Xylene & p-Xylene			0.200	0.1698		mg/Kg		85	70 - 130		
o-Xylene			0.100	0.08422		mg/Kg		84	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*

Lab Sample ID: LCSD 880-71629/2-A
Matrix: Solid
Analysis Batch: 71762

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 71629

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08672		mg/Kg		87	70 - 130	1	35
Toluene			0.100	0.07950		mg/Kg		79	70 - 130	11	35
Ethylbenzene			0.100	0.08451		mg/Kg		85	70 - 130	5	35
m-Xylene & p-Xylene			0.200	0.1645		mg/Kg		82	70 - 130	3	35
o-Xylene			0.100	0.08226		mg/Kg		82	70 - 130	2	35

QC Sample Results

Client: Ensolum
Project/Site: Outrider CVB

Job ID: 890-5985-1
SDG: 03C1558300

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

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

Lab Sample ID: MB 880-71631/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 71765 — **Prep Batch: 71631**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/25/24 17:57	01/30/24 01:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/25/24 17:57	01/30/24 01:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/25/24 17:57	01/30/24 01:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/25/24 17:57	01/30/24 01:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/25/24 17:57	01/30/24 01:23	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/25/24 17:57	01/30/24 01:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	51	S1-	70 - 130	01/25/24 17:57	01/30/24 01:23	1
1,4-Difluorobenzene (Surr)	104		70 - 130	01/25/24 17:57	01/30/24 01:23	1

Lab Sample ID: LCS 880-71631/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 71765 — **Prep Batch: 71631**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.07668		mg/Kg		77	70 - 130		
Toluene			0.100	0.07757		mg/Kg		78	70 - 130		
Ethylbenzene			0.100	0.09609		mg/Kg		96	70 - 130		
m-Xylene & p-Xylene			0.200	0.2014		mg/Kg		101	70 - 130		
o-Xylene			0.100	0.09712		mg/Kg		97	70 - 130		

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

Lab Sample ID: LCSD 880-71631/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 71765 — **Prep Batch: 71631**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1022		mg/Kg		102	70 - 130	28	35
Toluene			0.100	0.09911		mg/Kg		99	70 - 130	24	35
Ethylbenzene			0.100	0.09579		mg/Kg		96	70 - 130	0	35
m-Xylene & p-Xylene			0.200	0.2690	*+	mg/Kg		134	70 - 130	29	35
o-Xylene			0.100	0.1194		mg/Kg		119	70 - 130	21	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	86		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Outrider CVB

Job ID: 890-5985-1
SDG: 03C1558300

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

Lab Sample ID: 890-5985-21 MS — **Client Sample ID: SS 09**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 71765 — **Prep Batch: 71631**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U F1	0.0996	0.05890	F1	mg/Kg		58	70 - 130
Toluene	<0.00201	U F1	0.0996	0.08444		mg/Kg		84	70 - 130
Ethylbenzene	<0.00201	U F1	0.0996	0.06648	F1	mg/Kg		67	70 - 130
m-Xylene & p-Xylene	<0.00402	U *+	0.199	0.1548		mg/Kg		78	70 - 130
o-Xylene	<0.00201	U F1	0.0996	0.07441		mg/Kg		74	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*
1,4-Difluorobenzene (Surr)	*123*		*70 - 130*

Lab Sample ID: 890-5985-21 MSD — **Client Sample ID: SS 09**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 71765 — **Prep Batch: 71631**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U F1	0.0990	0.05135	F1	mg/Kg		51	70 - 130	14	35
Toluene	<0.00201	U F1	0.0990	0.06206	F1	mg/Kg		62	70 - 130	31	35
Ethylbenzene	<0.00201	U F1	0.0990	0.05619	F1	mg/Kg		57	70 - 130	17	35
m-Xylene & p-Xylene	<0.00402	U *+	0.198	0.1392		mg/Kg		70	70 - 130	11	35
o-Xylene	<0.00201	U F1	0.0990	0.06913	F1	mg/Kg		69	70 - 130	7	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*

Lab Sample ID: MB 880-72014/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 72043 — **Prep Batch: 72014**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/31/24 10:35	01/31/24 16:19	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/31/24 10:35	01/31/24 16:19	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/31/24 10:35	01/31/24 16:19	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/31/24 10:35	01/31/24 16:19	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/31/24 10:35	01/31/24 16:19	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/31/24 10:35	01/31/24 16:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*01/31/24 10:35*	*01/31/24 16:19*	*1*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*	*01/31/24 10:35*	*01/31/24 16:19*	*1*

Lab Sample ID: LCS 880-72014/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 72043 — **Prep Batch: 72014**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09749		mg/Kg		97	70 - 130
Toluene	0.100	0.09598		mg/Kg		96	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Outrider CVB

Job ID: 890-5985-1
SDG: 03C1558300

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

Lab Sample ID: LCS 880-72014/1-A
Matrix: Solid
Analysis Batch: 72043

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 72014

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Ethylbenzene			0.100	0.1117		mg/Kg		112	70 - 130		
m-Xylene & p-Xylene			0.200	0.1980		mg/Kg		99	70 - 130		
o-Xylene			0.100	0.09492		mg/Kg		95	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: LCSD 880-72014/2-A
Matrix: Solid
Analysis Batch: 72043

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 72014

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09833		mg/Kg		98	70 - 130	1	35
Toluene			0.100	0.09527		mg/Kg		95	70 - 130	1	35
Ethylbenzene			0.100	0.1000		mg/Kg		100	70 - 130	11	35
m-Xylene & p-Xylene			0.200	0.1672		mg/Kg		84	70 - 130	17	35
o-Xylene			0.100	0.09387		mg/Kg		94	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: 880-38205-A-4-D MS
Matrix: Solid
Analysis Batch: 72043

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 72014

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.0996	0.09831		mg/Kg		99	70 - 130		
Toluene	<0.00200	U	0.0996	0.09972		mg/Kg		100	70 - 130		
Ethylbenzene	<0.00200	U	0.0996	0.1176		mg/Kg		118	70 - 130		
m-Xylene & p-Xylene	<0.00401	U	0.199	0.2151		mg/Kg		108	70 - 130		
o-Xylene	<0.00200	U	0.0996	0.1036		mg/Kg		104	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*

Lab Sample ID: 880-38205-A-4-E MSD
Matrix: Solid
Analysis Batch: 72043

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 72014

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0990	0.1034		mg/Kg		104	70 - 130	5	35
Toluene	<0.00200	U	0.0990	0.09835		mg/Kg		99	70 - 130	1	35
Ethylbenzene	<0.00200	U	0.0990	0.1134		mg/Kg		115	70 - 130	4	35
m-Xylene & p-Xylene	<0.00401	U	0.198	0.2040		mg/Kg		103	70 - 130	5	35
o-Xylene	<0.00200	U	0.0990	0.1092		mg/Kg		110	70 - 130	5	35

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QC Sample Results

Client: Ensolum
Project/Site: Outrider CVB

Job ID: 890-5985-1
SDG: 03C1558300

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

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

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

Lab Sample ID: MB 880-71251/1-A
Matrix: Solid
Analysis Batch: 71655

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71251

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		01/19/24 17:02	01/26/24 18:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/19/24 17:02	01/26/24 18:52	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/19/24 17:02	01/26/24 18:52	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	01/19/24 17:02	01/26/24 18:52	1
o-Terphenyl	119		70 - 130	01/19/24 17:02	01/26/24 18:52	1

Lab Sample ID: LCS 880-71251/2-A
Matrix: Solid
Analysis Batch: 71655

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 71251

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	897.3		mg/Kg		90	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	864.5		mg/Kg		86	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	81		70 - 130
o-Terphenyl	103		70 - 130

Lab Sample ID: LCSD 880-71251/3-A
Matrix: Solid
Analysis Batch: 71655

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 71251

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1085		mg/Kg		108	70 - 130	19	20
Diesel Range Organics (Over C10-C28)			1000	1149	*1	mg/Kg		115	70 - 130	28	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	88		70 - 130
o-Terphenyl	108		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Outrider CVB

Job ID: 890-5985-1
SDG: 03C1558300

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

Lab Sample ID: 890-5982-A-1-C MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 71655 — **Prep Batch: 71251**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	997	816.2		mg/Kg		79	70 - 130
Diesel Range Organics (Over C10-C28)	<50.1	U *1	997	998.9		mg/Kg		97	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*88*		*70 - 130*
o-Terphenyl	*89*		*70 - 130*

Lab Sample ID: 890-5982-A-1-D MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 71655 — **Prep Batch: 71251**

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	<50.1	U	997	883.0		mg/Kg		86	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	<50.1	U *1	997	1046		mg/Kg		102	70 - 130	5	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*91*		*70 - 130*
o-Terphenyl	*91*		*70 - 130*

Lab Sample ID: MB 880-71252/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 71722 — **Prep Batch: 71252**

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		01/19/24 17:05	01/27/24 08:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/19/24 17:05	01/27/24 08:21	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/19/24 17:05	01/27/24 08:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*01/19/24 17:05*	*01/27/24 08:21*	*1*
o-Terphenyl	*123*		*70 - 130*	*01/19/24 17:05*	*01/27/24 08:21*	*1*

Lab Sample ID: LCS 880-71252/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 71722 — **Prep Batch: 71252**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	843.4		mg/Kg		84	70 - 130
Diesel Range Organics (Over C10-C28)	1000	836.3		mg/Kg		84	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Outrider CVB

Job ID: 890-5985-1
SDG: 03C1558300

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

Lab Sample ID: LCS 880-71252/2-A
Matrix: Solid
Analysis Batch: 71722

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 71252

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	82		70 - 130
o-Terphenyl	95		70 - 130

Lab Sample ID: LCSD 880-71252/3-A
Matrix: Solid
Analysis Batch: 71722

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 71252

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	882.9		mg/Kg		88	70 - 130	5	20
Diesel Range Organics (Over C10-C28)			1000	849.0		mg/Kg		85	70 - 130	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	81		70 - 130
o-Terphenyl	90		70 - 130

Lab Sample ID: 890-5985-1 MS
Matrix: Solid
Analysis Batch: 71722

Client Sample ID: BH 01
Prep Type: Total/NA
Prep Batch: 71252

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	997	845.7		mg/Kg		81	70 - 130
Diesel Range Organics (Over C10-C28)	126		997	959.5		mg/Kg		84	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	95		70 - 130

Lab Sample ID: 890-5985-1 MSD
Matrix: Solid
Analysis Batch: 71722

Client Sample ID: BH 01
Prep Type: Total/NA
Prep Batch: 71252

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	<50.5	U	997	895.5		mg/Kg		86	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	126		997	970.0		mg/Kg		85	70 - 130	1	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	101		70 - 130
o-Terphenyl	96		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Outrider CVB

Job ID: 890-5985-1
SDG: 03C1558300

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-71220/1-A
Matrix: Solid
Analysis Batch: 71365

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			01/22/24 16:11	1

Lab Sample ID: LCS 880-71220/2-A
Matrix: Solid
Analysis Batch: 71365

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	242.3		mg/Kg		97	90 - 110		

Lab Sample ID: LCSD 880-71220/3-A
Matrix: Solid
Analysis Batch: 71365

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	243.9		mg/Kg		98	90 - 110	1	20

Lab Sample ID: 890-5985-6 MS
Matrix: Solid
Analysis Batch: 71365

Client Sample ID: BH 02
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	18.5		253	286.1		mg/Kg		106	90 - 110		

Lab Sample ID: 890-5985-6 MSD
Matrix: Solid
Analysis Batch: 71365

Client Sample ID: BH 02
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	18.5		253	286.4		mg/Kg		106	90 - 110	0	20

Lab Sample ID: MB 880-71226/1-A
Matrix: Solid
Analysis Batch: 71387

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			01/24/24 12:16	1

Lab Sample ID: LCS 880-71226/2-A
Matrix: Solid
Analysis Batch: 71387

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	238.3		mg/Kg		95	90 - 110		

Lab Sample ID: LCSD 880-71226/3-A
Matrix: Solid
Analysis Batch: 71387

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	241.1		mg/Kg		96	90 - 110	1	20

QC Sample Results

Client: Ensolum
Project/Site: Outrider CVB

Job ID: 890-5985-1
SDG: 03C1558300

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-5985-16 MS
Matrix: Solid
Analysis Batch: 71387

Client Sample ID: SS 06
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	6.79		253	244.5		mg/Kg		94	90 - 110		

Lab Sample ID: 890-5985-16 MSD
Matrix: Solid
Analysis Batch: 71387

Client Sample ID: SS 06
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	6.79		253	246.9		mg/Kg		95	90 - 110	1	20

QC Association Summary

Client: Ensolum
Project/Site: Outrider CVB

Job ID: 890-5985-1
SDG: 03C1558300

GC VOA

Prep Batch: 71518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5985-1	BH 01	Total/NA	Solid	5035	
890-5985-3	BH 03	Total/NA	Solid	5035	
MB 880-71518/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-71518/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-71518/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-5985-1 MS	BH 01	Total/NA	Solid	5035	
890-5985-1 MSD	BH 01	Total/NA	Solid	5035	

Prep Batch: 71524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-71524/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 71534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-71534/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 71537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5985-4	BH 01	Total/NA	Solid	5035	
890-5985-5	BH 02	Total/NA	Solid	5035	
890-5985-6	BH 02	Total/NA	Solid	5035	
890-5985-7	BH 01	Total/NA	Solid	5035	
890-5985-8	BH 03	Total/NA	Solid	5035	
890-5985-9	BH 03	Total/NA	Solid	5035	
890-5985-10	SS 04	Total/NA	Solid	5035	
890-5985-11	SS 04	Total/NA	Solid	5035	
890-5985-12	SS 02	Total/NA	Solid	5035	
890-5985-13	SS 02	Total/NA	Solid	5035	
890-5985-14	SS 01	Total/NA	Solid	5035	
890-5985-15	SS 01	Total/NA	Solid	5035	
MB 880-71537/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-71537/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-71537/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-5981-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
890-5981-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 71624

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5985-16	SS 06	Total/NA	Solid	5035	
890-5985-17	SS 08	Total/NA	Solid	5035	
890-5985-18	SS 07	Total/NA	Solid	5035	
890-5985-19	SS 11	Total/NA	Solid	5035	
890-5985-20	SS 10	Total/NA	Solid	5035	
890-5985-22	SS 05	Total/NA	Solid	5035	
MB 880-71624/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-71624/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-71624/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-38339-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
880-38339-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

QC Association Summary

Client: Ensolum
Project/Site: Outrider CVB

Job ID: 890-5985-1
SDG: 03C1558300

GC VOA

Prep Batch: 71629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5985-2	BH 02	Total/NA	Solid	5035	
MB 880-71629/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-71629/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-71629/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 71631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5985-21	SS 09	Total/NA	Solid	5035	
MB 880-71631/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-71631/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-71631/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-5985-21 MS	SS 09	Total/NA	Solid	5035	
890-5985-21 MSD	SS 09	Total/NA	Solid	5035	

Analysis Batch: 71730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5985-16	SS 06	Total/NA	Solid	8021B	71624
890-5985-17	SS 08	Total/NA	Solid	8021B	71624
890-5985-18	SS 07	Total/NA	Solid	8021B	71624
890-5985-19	SS 11	Total/NA	Solid	8021B	71624
890-5985-20	SS 10	Total/NA	Solid	8021B	71624
890-5985-22	SS 05	Total/NA	Solid	8021B	71624
MB 880-71524/5-A	Method Blank	Total/NA	Solid	8021B	71524
MB 880-71624/5-A	Method Blank	Total/NA	Solid	8021B	71624
LCS 880-71624/1-A	Lab Control Sample	Total/NA	Solid	8021B	71624
LCSD 880-71624/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	71624
880-38339-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	71624
880-38339-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	71624

Analysis Batch: 71762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5985-1	BH 01	Total/NA	Solid	8021B	71518
890-5985-2	BH 02	Total/NA	Solid	8021B	71629
890-5985-3	BH 03	Total/NA	Solid	8021B	71518
MB 880-71518/5-A	Method Blank	Total/NA	Solid	8021B	71518
MB 880-71629/5-A	Method Blank	Total/NA	Solid	8021B	71629
LCS 880-71518/1-A	Lab Control Sample	Total/NA	Solid	8021B	71518
LCS 880-71629/1-A	Lab Control Sample	Total/NA	Solid	8021B	71629
LCSD 880-71518/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	71518
LCSD 880-71629/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	71629
890-5985-1 MS	BH 01	Total/NA	Solid	8021B	71518
890-5985-1 MSD	BH 01	Total/NA	Solid	8021B	71518

Analysis Batch: 71765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5985-21	SS 09	Total/NA	Solid	8021B	71631
MB 880-71534/5-A	Method Blank	Total/NA	Solid	8021B	71534
MB 880-71631/5-A	Method Blank	Total/NA	Solid	8021B	71631
LCS 880-71631/1-A	Lab Control Sample	Total/NA	Solid	8021B	71631
LCSD 880-71631/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	71631
890-5985-21 MS	SS 09	Total/NA	Solid	8021B	71631

QC Association Summary

Client: Ensolum
Project/Site: Outrider CVB

Job ID: 890-5985-1
SDG: 03C1558300

GC VOA (Continued)

Analysis Batch: 71765 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5985-21 MSD	SS 09	Total/NA	Solid	8021B	71631

Analysis Batch: 71803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5985-1	BH 01	Total/NA	Solid	Total BTEX	
890-5985-2	BH 02	Total/NA	Solid	Total BTEX	
890-5985-3	BH 03	Total/NA	Solid	Total BTEX	
890-5985-4	BH 01	Total/NA	Solid	Total BTEX	
890-5985-5	BH 02	Total/NA	Solid	Total BTEX	
890-5985-6	BH 02	Total/NA	Solid	Total BTEX	
890-5985-7	BH 01	Total/NA	Solid	Total BTEX	
890-5985-8	BH 03	Total/NA	Solid	Total BTEX	
890-5985-9	BH 03	Total/NA	Solid	Total BTEX	
890-5985-10	SS 04	Total/NA	Solid	Total BTEX	
890-5985-11	SS 04	Total/NA	Solid	Total BTEX	
890-5985-12	SS 02	Total/NA	Solid	Total BTEX	
890-5985-13	SS 02	Total/NA	Solid	Total BTEX	
890-5985-14	SS 01	Total/NA	Solid	Total BTEX	
890-5985-15	SS 01	Total/NA	Solid	Total BTEX	
890-5985-16	SS 06	Total/NA	Solid	Total BTEX	
890-5985-17	SS 08	Total/NA	Solid	Total BTEX	
890-5985-18	SS 07	Total/NA	Solid	Total BTEX	
890-5985-19	SS 11	Total/NA	Solid	Total BTEX	
890-5985-20	SS 10	Total/NA	Solid	Total BTEX	
890-5985-21	SS 09	Total/NA	Solid	Total BTEX	
890-5985-22	SS 05	Total/NA	Solid	Total BTEX	

Analysis Batch: 71915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5985-4	BH 01	Total/NA	Solid	8021B	71537
890-5985-5	BH 02	Total/NA	Solid	8021B	71537
890-5985-6	BH 02	Total/NA	Solid	8021B	71537
890-5985-7	BH 01	Total/NA	Solid	8021B	71537
890-5985-8	BH 03	Total/NA	Solid	8021B	71537
890-5985-9	BH 03	Total/NA	Solid	8021B	71537
890-5985-10	SS 04	Total/NA	Solid	8021B	71537
890-5985-11	SS 04	Total/NA	Solid	8021B	71537
890-5985-12	SS 02	Total/NA	Solid	8021B	71537
890-5985-13	SS 02	Total/NA	Solid	8021B	71537
890-5985-14	SS 01	Total/NA	Solid	8021B	71537
890-5985-15	SS 01	Total/NA	Solid	8021B	71537
MB 880-71537/5-A	Method Blank	Total/NA	Solid	8021B	71537
LCS 880-71537/1-A	Lab Control Sample	Total/NA	Solid	8021B	71537
LCSD 880-71537/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	71537
890-5981-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	71537
890-5981-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	71537

Prep Batch: 72014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5985-6	BH 02	Total/NA	Solid	5035	
MB 880-72014/5-A	Method Blank	Total/NA	Solid	5035	

QC Association Summary

Client: Ensolum
Project/Site: Outrider CVB

Job ID: 890-5985-1
SDG: 03C1558300

GC VOA (Continued)

Prep Batch: 72014 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-72014/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-72014/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-38205-A-4-D MS	Matrix Spike	Total/NA	Solid	5035	
880-38205-A-4-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 72043

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5985-6	BH 02	Total/NA	Solid	8021B	72014
MB 880-72014/5-A	Method Blank	Total/NA	Solid	8021B	72014
LCS 880-72014/1-A	Lab Control Sample	Total/NA	Solid	8021B	72014
LCSD 880-72014/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	72014
880-38205-A-4-D MS	Matrix Spike	Total/NA	Solid	8021B	72014
880-38205-A-4-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	72014

GC Semi VOA

Prep Batch: 71251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5985-21	SS 09	Total/NA	Solid	8015NM Prep	
890-5985-22	SS 05	Total/NA	Solid	8015NM Prep	
MB 880-71251/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-71251/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-71251/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5982-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-5982-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 71252

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5985-1	BH 01	Total/NA	Solid	8015NM Prep	
890-5985-2	BH 02	Total/NA	Solid	8015NM Prep	
890-5985-3	BH 03	Total/NA	Solid	8015NM Prep	
890-5985-4	BH 01	Total/NA	Solid	8015NM Prep	
890-5985-5	BH 02	Total/NA	Solid	8015NM Prep	
890-5985-6	BH 02	Total/NA	Solid	8015NM Prep	
890-5985-7	BH 01	Total/NA	Solid	8015NM Prep	
890-5985-8	BH 03	Total/NA	Solid	8015NM Prep	
890-5985-9	BH 03	Total/NA	Solid	8015NM Prep	
890-5985-10	SS 04	Total/NA	Solid	8015NM Prep	
890-5985-11	SS 04	Total/NA	Solid	8015NM Prep	
890-5985-12	SS 02	Total/NA	Solid	8015NM Prep	
890-5985-13	SS 02	Total/NA	Solid	8015NM Prep	
890-5985-14	SS 01	Total/NA	Solid	8015NM Prep	
890-5985-15	SS 01	Total/NA	Solid	8015NM Prep	
890-5985-16	SS 06	Total/NA	Solid	8015NM Prep	
890-5985-17	SS 08	Total/NA	Solid	8015NM Prep	
890-5985-18	SS 07	Total/NA	Solid	8015NM Prep	
890-5985-19	SS 11	Total/NA	Solid	8015NM Prep	
890-5985-20	SS 10	Total/NA	Solid	8015NM Prep	
MB 880-71252/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-71252/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-71252/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum
Project/Site: Outrider CVB

Job ID: 890-5985-1
SDG: 03C1558300

GC Semi VOA (Continued)

Prep Batch: 71252 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5985-1 MS	BH 01	Total/NA	Solid	8015NM Prep	
890-5985-1 MSD	BH 01	Total/NA	Solid	8015NM Prep	

Analysis Batch: 71655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5985-21	SS 09	Total/NA	Solid	8015B NM	71251
890-5985-22	SS 05	Total/NA	Solid	8015B NM	71251
MB 880-71251/1-A	Method Blank	Total/NA	Solid	8015B NM	71251
LCS 880-71251/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	71251
LCSD 880-71251/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	71251
890-5982-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	71251
890-5982-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	71251

Analysis Batch: 71722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5985-1	BH 01	Total/NA	Solid	8015B NM	71252
890-5985-2	BH 02	Total/NA	Solid	8015B NM	71252
890-5985-2	BH 02	Total/NA	Solid	8015B NM	71252
890-5985-3	BH 03	Total/NA	Solid	8015B NM	71252
890-5985-4	BH 01	Total/NA	Solid	8015B NM	71252
890-5985-5	BH 02	Total/NA	Solid	8015B NM	71252
890-5985-6	BH 02	Total/NA	Solid	8015B NM	71252
890-5985-7	BH 01	Total/NA	Solid	8015B NM	71252
890-5985-8	BH 03	Total/NA	Solid	8015B NM	71252
890-5985-9	BH 03	Total/NA	Solid	8015B NM	71252
890-5985-10	SS 04	Total/NA	Solid	8015B NM	71252
890-5985-11	SS 04	Total/NA	Solid	8015B NM	71252
890-5985-12	SS 02	Total/NA	Solid	8015B NM	71252
890-5985-13	SS 02	Total/NA	Solid	8015B NM	71252
890-5985-14	SS 01	Total/NA	Solid	8015B NM	71252
890-5985-15	SS 01	Total/NA	Solid	8015B NM	71252
890-5985-16	SS 06	Total/NA	Solid	8015B NM	71252
890-5985-17	SS 08	Total/NA	Solid	8015B NM	71252
890-5985-18	SS 07	Total/NA	Solid	8015B NM	71252
890-5985-19	SS 11	Total/NA	Solid	8015B NM	71252
890-5985-20	SS 10	Total/NA	Solid	8015B NM	71252
MB 880-71252/1-A	Method Blank	Total/NA	Solid	8015B NM	71252
LCS 880-71252/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	71252
LCSD 880-71252/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	71252
890-5985-1 MS	BH 01	Total/NA	Solid	8015B NM	71252
890-5985-1 MSD	BH 01	Total/NA	Solid	8015B NM	71252

Analysis Batch: 71890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5985-1	BH 01	Total/NA	Solid	8015 NM	
890-5985-2	BH 02	Total/NA	Solid	8015 NM	
890-5985-3	BH 03	Total/NA	Solid	8015 NM	
890-5985-4	BH 01	Total/NA	Solid	8015 NM	
890-5985-5	BH 02	Total/NA	Solid	8015 NM	
890-5985-6	BH 02	Total/NA	Solid	8015 NM	
890-5985-7	BH 01	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum
Project/Site: Outrider CVB

Job ID: 890-5985-1
SDG: 03C1558300

GC Semi VOA (Continued)

Analysis Batch: 71890 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5985-8	BH 03	Total/NA	Solid	8015 NM	
890-5985-9	BH 03	Total/NA	Solid	8015 NM	
890-5985-10	SS 04	Total/NA	Solid	8015 NM	
890-5985-11	SS 04	Total/NA	Solid	8015 NM	
890-5985-12	SS 02	Total/NA	Solid	8015 NM	
890-5985-13	SS 02	Total/NA	Solid	8015 NM	
890-5985-14	SS 01	Total/NA	Solid	8015 NM	
890-5985-15	SS 01	Total/NA	Solid	8015 NM	
890-5985-16	SS 06	Total/NA	Solid	8015 NM	
890-5985-17	SS 08	Total/NA	Solid	8015 NM	
890-5985-18	SS 07	Total/NA	Solid	8015 NM	
890-5985-19	SS 11	Total/NA	Solid	8015 NM	
890-5985-20	SS 10	Total/NA	Solid	8015 NM	
890-5985-21	SS 09	Total/NA	Solid	8015 NM	
890-5985-22	SS 05	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 71220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5985-1	BH 01	Soluble	Solid	DI Leach	
890-5985-2	BH 02	Soluble	Solid	DI Leach	
890-5985-3	BH 03	Soluble	Solid	DI Leach	
890-5985-4	BH 01	Soluble	Solid	DI Leach	
890-5985-5	BH 02	Soluble	Solid	DI Leach	
890-5985-6	BH 02	Soluble	Solid	DI Leach	
890-5985-7	BH 01	Soluble	Solid	DI Leach	
890-5985-8	BH 03	Soluble	Solid	DI Leach	
890-5985-9	BH 03	Soluble	Solid	DI Leach	
890-5985-10	SS 04	Soluble	Solid	DI Leach	
890-5985-11	SS 04	Soluble	Solid	DI Leach	
890-5985-12	SS 02	Soluble	Solid	DI Leach	
890-5985-13	SS 02	Soluble	Solid	DI Leach	
890-5985-14	SS 01	Soluble	Solid	DI Leach	
890-5985-15	SS 01	Soluble	Solid	DI Leach	
MB 880-71220/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-71220/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-71220/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5985-6 MS	BH 02	Soluble	Solid	DI Leach	
890-5985-6 MSD	BH 02	Soluble	Solid	DI Leach	

Leach Batch: 71226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5985-16	SS 06	Soluble	Solid	DI Leach	
890-5985-17	SS 08	Soluble	Solid	DI Leach	
890-5985-18	SS 07	Soluble	Solid	DI Leach	
890-5985-19	SS 11	Soluble	Solid	DI Leach	
890-5985-20	SS 10	Soluble	Solid	DI Leach	
890-5985-21	SS 09	Soluble	Solid	DI Leach	
890-5985-22	SS 05	Soluble	Solid	DI Leach	
MB 880-71226/1-A	Method Blank	Soluble	Solid	DI Leach	

QC Association Summary

Client: Ensolum
Project/Site: Outrider CVB

Job ID: 890-5985-1
SDG: 03C1558300

HPLC/IC (Continued)

Leach Batch: 71226 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-71226/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-71226/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5985-16 MS	SS 06	Soluble	Solid	DI Leach	
890-5985-16 MSD	SS 06	Soluble	Solid	DI Leach	

Analysis Batch: 71365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5985-1	BH 01	Soluble	Solid	300.0	71220
890-5985-2	BH 02	Soluble	Solid	300.0	71220
890-5985-3	BH 03	Soluble	Solid	300.0	71220
890-5985-4	BH 01	Soluble	Solid	300.0	71220
890-5985-5	BH 02	Soluble	Solid	300.0	71220
890-5985-6	BH 02	Soluble	Solid	300.0	71220
890-5985-7	BH 01	Soluble	Solid	300.0	71220
890-5985-8	BH 03	Soluble	Solid	300.0	71220
890-5985-9	BH 03	Soluble	Solid	300.0	71220
890-5985-10	SS 04	Soluble	Solid	300.0	71220
890-5985-11	SS 04	Soluble	Solid	300.0	71220
890-5985-12	SS 02	Soluble	Solid	300.0	71220
890-5985-13	SS 02	Soluble	Solid	300.0	71220
890-5985-14	SS 01	Soluble	Solid	300.0	71220
890-5985-15	SS 01	Soluble	Solid	300.0	71220
MB 880-71220/1-A	Method Blank	Soluble	Solid	300.0	71220
LCS 880-71220/2-A	Lab Control Sample	Soluble	Solid	300.0	71220
LCSD 880-71220/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	71220
890-5985-6 MS	BH 02	Soluble	Solid	300.0	71220
890-5985-6 MSD	BH 02	Soluble	Solid	300.0	71220

Analysis Batch: 71387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5985-16	SS 06	Soluble	Solid	300.0	71226
890-5985-17	SS 08	Soluble	Solid	300.0	71226
890-5985-18	SS 07	Soluble	Solid	300.0	71226
890-5985-19	SS 11	Soluble	Solid	300.0	71226
890-5985-20	SS 10	Soluble	Solid	300.0	71226
890-5985-21	SS 09	Soluble	Solid	300.0	71226
890-5985-22	SS 05	Soluble	Solid	300.0	71226
MB 880-71226/1-A	Method Blank	Soluble	Solid	300.0	71226
LCS 880-71226/2-A	Lab Control Sample	Soluble	Solid	300.0	71226
LCSD 880-71226/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	71226
890-5985-16 MS	SS 06	Soluble	Solid	300.0	71226
890-5985-16 MSD	SS 06	Soluble	Solid	300.0	71226

Lab Chronicle

Client: Ensolum
Project/Site: Outrider CVB

Job ID: 890-5985-1
SDG: 03C1558300

Client Sample ID: BH 01

Date Collected: 01/16/24 13:50
Date Received: 01/18/24 08:12

Lab Sample ID: 890-5985-1
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			5.03 g	5 mL	71518	01/24/24 14:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71762	01/28/24 17:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71803	01/28/24 17:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			71890	01/27/24 11:22	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	71252	01/19/24 17:05	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71722	01/27/24 11:22	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	71220	01/19/24 14:41	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	71365	01/22/24 17:13	SMC	EET MID

Client Sample ID: BH 02

Date Collected: 01/16/24 14:30
Date Received: 01/18/24 08:12

Lab Sample ID: 890-5985-2
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	71629	01/25/24 17:53	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	71762	01/29/24 13:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71803	01/29/24 13:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			71890	01/28/24 06:53	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	71252	01/19/24 17:05	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71722	01/27/24 12:29	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	71252	01/19/24 17:05	TKC	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	71722	01/28/24 06:53	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	71220	01/19/24 14:41	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71365	01/22/24 17:18	SMC	EET MID

Client Sample ID: BH 03

Date Collected: 01/16/24 15:00
Date Received: 01/18/24 08:12

Lab Sample ID: 890-5985-3
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	71518	01/24/24 14:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71762	01/28/24 18:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71803	01/28/24 18:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			71890	01/27/24 12:52	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	71252	01/19/24 17:05	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71722	01/27/24 12:52	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	71220	01/19/24 14:41	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	71365	01/22/24 17:23	SMC	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Outrider CVB

Job ID: 890-5985-1
SDG: 03C1558300

Client Sample ID: BH 01

Date Collected: 01/17/24 09:06
Date Received: 01/18/24 08:12

Lab Sample ID: 890-5985-4
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			4.99 g	5 mL	71537	01/24/24 15:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71915	01/30/24 13:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71803	01/30/24 13:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			71890	01/27/24 13:15	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	71252	01/19/24 17:05	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71722	01/27/24 13:15	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	71220	01/19/24 14:41	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71365	01/22/24 17:28	SMC	EET MID

Client Sample ID: BH 02

Date Collected: 01/17/24 09:08
Date Received: 01/18/24 08:12

Lab Sample ID: 890-5985-5
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			5.02 g	5 mL	71537	01/24/24 15:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71915	01/30/24 14:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71803	01/30/24 14:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			71890	01/27/24 13:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	71252	01/19/24 17:05	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71722	01/27/24 13:38	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	71220	01/19/24 14:41	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71365	01/22/24 17:33	SMC	EET MID

Client Sample ID: BH 02

Date Collected: 01/17/24 16:30
Date Received: 01/18/24 08:12

Lab Sample ID: 890-5985-6
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			5.02 g	5 mL	72014	01/31/24 10:35	MNR	EET MID
Total/NA	Analysis	8021B		500	5 mL	5 mL	72043	01/31/24 18:38	MNR	EET MID
Total/NA	Prep	5035			5.03 g	5 mL	71537	01/24/24 15:35	MNR	EET MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	71915	01/30/24 18:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71803	01/31/24 18:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			71890	01/27/24 14:00	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	71252	01/19/24 17:05	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71722	01/27/24 14:00	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	71220	01/19/24 14:41	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71365	01/22/24 17:38	SMC	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Outrider CVB

Job ID: 890-5985-1
SDG: 03C1558300

Client Sample ID: BH 01

Lab Sample ID: 890-5985-7

Date Collected: 01/17/24 16:10
Matrix: Solid
Date Received: 01/18/24 08:12

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	71537	01/24/24 15:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71915	01/30/24 15:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71803	01/30/24 15:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			71890	01/27/24 14:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	71252	01/19/24 17:05	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71722	01/27/24 14:23	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	71220	01/19/24 14:41	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71365	01/22/24 17:54	SMC	EET MID

Client Sample ID: BH 03

Lab Sample ID: 890-5985-8

Date Collected: 01/17/24 09:17
Matrix: Solid
Date Received: 01/18/24 08:12

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	71537	01/24/24 15:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71915	01/30/24 16:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71803	01/30/24 16:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			71890	01/27/24 14:45	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	71252	01/19/24 17:05	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71722	01/27/24 14:45	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	71220	01/19/24 14:41	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71365	01/22/24 17:59	SMC	EET MID

Client Sample ID: BH 03

Lab Sample ID: 890-5985-9

Date Collected: 01/17/24 09:23
Matrix: Solid
Date Received: 01/18/24 08:12

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	71537	01/24/24 15:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71915	01/30/24 16:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71803	01/30/24 16:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			71890	01/27/24 15:06	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	71252	01/19/24 17:05	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71722	01/27/24 15:06	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	71220	01/19/24 14:41	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71365	01/22/24 18:14	SMC	EET MID

Client Sample ID: SS 04

Lab Sample ID: 890-5985-10

Date Collected: 01/17/24 09:31
Matrix: Solid
Date Received: 01/18/24 08:12

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	71537	01/24/24 15:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71915	01/30/24 16:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71803	01/30/24 16:41	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Outrider CVB

Job ID: 890-5985-1
SDG: 03C1558300

Client Sample ID: SS 04
Date Collected: 01/17/24 09:31
Date Received: 01/18/24 08:12

Lab Sample ID: 890-5985-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			71890	01/27/24 15:28	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	71252	01/19/24 17:05	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71722	01/27/24 15:28	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	71220	01/19/24 14:41	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71365	01/22/24 18:20	SMC	EET MID

Client Sample ID: SS 04
Date Collected: 01/17/24 13:10
Date Received: 01/18/24 08:12

Lab Sample ID: 890-5985-11
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	71537	01/24/24 15:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71915	01/30/24 17:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71803	01/30/24 17:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			71890	01/27/24 16:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	71252	01/19/24 17:05	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71722	01/27/24 16:30	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	71220	01/19/24 14:41	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71365	01/22/24 18:25	SMC	EET MID

Client Sample ID: SS 02
Date Collected: 01/17/24 09:40
Date Received: 01/18/24 08:12

Lab Sample ID: 890-5985-12
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			5.02 g	5 mL	71537	01/24/24 15:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71915	01/30/24 17:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71803	01/30/24 17:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			71890	01/27/24 16:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	71252	01/19/24 17:05	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71722	01/27/24 16:51	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	71220	01/19/24 14:41	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71365	01/22/24 18:30	SMC	EET MID

Client Sample ID: SS 02
Date Collected: 01/17/24 09:46
Date Received: 01/18/24 08:12

Lab Sample ID: 890-5985-13
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			5.03 g	5 mL	71537	01/24/24 15:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71915	01/30/24 17:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71803	01/30/24 17:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			71890	01/27/24 17:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	71252	01/19/24 17:05	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71722	01/27/24 17:13	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Outrider CVB

Job ID: 890-5985-1
SDG: 03C1558300

Client Sample ID: SS 02
Date Collected: 01/17/24 09:46
Date Received: 01/18/24 08:12

Lab Sample ID: 890-5985-13
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			5.04 g	50 mL	71220	01/19/24 14:41	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71365	01/22/24 18:35	SMC	EET MID

Client Sample ID: SS 01
Date Collected: 01/17/24 10:38
Date Received: 01/18/24 08:12

Lab Sample ID: 890-5985-14
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			5.01 g	5 mL	71537	01/24/24 15:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71915	01/30/24 18:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71803	01/30/24 18:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			71890	01/27/24 17:34	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	71252	01/19/24 17:05	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71722	01/27/24 17:34	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	71220	01/19/24 14:41	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71365	01/22/24 18:40	SMC	EET MID

Client Sample ID: SS 01
Date Collected: 01/17/24 10:42
Date Received: 01/18/24 08:12

Lab Sample ID: 890-5985-15
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			4.98 g	5 mL	71537	01/24/24 15:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71915	01/30/24 18:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71803	01/30/24 18:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			71890	01/27/24 17:55	SM	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	71252	01/19/24 17:05	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71722	01/27/24 17:55	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	71220	01/19/24 14:41	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71365	01/22/24 18:45	SMC	EET MID

Client Sample ID: SS 06
Date Collected: 01/17/24 11:02
Date Received: 01/18/24 08:12

Lab Sample ID: 890-5985-16
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	71624	01/25/24 16:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71730	01/28/24 15:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71803	01/28/24 15:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			71890	01/27/24 18:17	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	71252	01/19/24 17:05	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71722	01/27/24 18:17	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	71226	01/19/24 14:44	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71387	01/24/24 12:32	SMC	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Outrider CVB

Job ID: 890-5985-1
SDG: 03C1558300

Client Sample ID: SS 08

Date Collected: 01/17/24 09:47
Date Received: 01/18/24 08:12

Lab Sample ID: 890-5985-17
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	71624	01/25/24 16:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71730	01/28/24 15:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71803	01/28/24 15:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			71890	01/27/24 18:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	71252	01/19/24 17:05	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71722	01/27/24 18:38	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	71226	01/19/24 14:44	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71387	01/24/24 15:33	SMC	EET MID

Client Sample ID: SS 07

Date Collected: 01/17/24 10:02
Date Received: 01/18/24 08:12

Lab Sample ID: 890-5985-18
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	71624	01/25/24 16:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71730	01/28/24 17:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71803	01/28/24 17:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			71890	01/27/24 18:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	71252	01/19/24 17:05	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71722	01/27/24 18:59	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	71226	01/19/24 14:44	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	71387	01/24/24 12:52	SMC	EET MID

Client Sample ID: SS 11

Date Collected: 01/17/24 10:53
Date Received: 01/18/24 08:12

Lab Sample ID: 890-5985-19
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	71624	01/25/24 16:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71730	01/28/24 17:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71803	01/28/24 17:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			71890	01/27/24 19:21	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	71252	01/19/24 17:05	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71722	01/27/24 19:21	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	71226	01/19/24 14:44	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	71387	01/24/24 12:58	SMC	EET MID

Client Sample ID: SS 10

Date Collected: 01/17/24 13:14
Date Received: 01/18/24 08:12

Lab Sample ID: 890-5985-20
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	71624	01/25/24 16:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71730	01/28/24 17:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71803	01/28/24 17:57	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Outrider CVB

Job ID: 890-5985-1
SDG: 03C1558300

Client Sample ID: SS 10

Lab Sample ID: 890-5985-20

Date Collected: 01/17/24 13:14
Matrix: Solid
Date Received: 01/18/24 08:12

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			71890	01/27/24 19:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	71252	01/19/24 17:05	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71722	01/27/24 19:43	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	71226	01/19/24 14:44	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71387	01/24/24 15:38	SMC	EET MID

Client Sample ID: SS 09

Lab Sample ID: 890-5985-21

Date Collected: 01/17/24 13:45
Matrix: Solid
Date Received: 01/18/24 08:12

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	71631	01/25/24 17:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71765	01/30/24 01:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71803	01/30/24 01:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			71890	01/27/24 03:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	71251	01/19/24 17:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71655	01/27/24 03:49	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	71226	01/19/24 14:44	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71387	01/24/24 13:18	SMC	EET MID

Client Sample ID: SS 05

Lab Sample ID: 890-5985-22

Date Collected: 01/17/24 13:18
Matrix: Solid
Date Received: 01/18/24 08:12

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	71624	01/25/24 16:48	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71730	01/28/24 18:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71803	01/28/24 18:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			71890	01/27/24 04:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	71251	01/19/24 17:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71655	01/27/24 04:10	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	71226	01/19/24 14:44	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71387	01/24/24 13:23	SMC	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: Outrider CVB

Job ID: 890-5985-1
SDG: 03C1558300

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	T104704400-23-26	06-30-24

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: Outrider CVB

Job ID: 890-5985-1
SDG: 03C1558300

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: Outrider CVB

Job ID: 890-5985-1
SDG: 03C1558300

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-5985-1	BH 01	Solid	01/16/24 13:50	01/18/24 08:12	0.5'
890-5985-2	BH 02	Solid	01/16/24 14:30	01/18/24 08:12	0.5'
890-5985-3	BH 03	Solid	01/16/24 15:00	01/18/24 08:12	0.5'
890-5985-4	BH 01	Solid	01/17/24 09:06	01/18/24 08:12	4'
890-5985-5	BH 02	Solid	01/17/24 09:08	01/18/24 08:12	1'
890-5985-6	BH 02	Solid	01/17/24 16:30	01/18/24 08:12	7'
890-5985-7	BH 01	Solid	01/17/24 16:10	01/18/24 08:12	5'
890-5985-8	BH 03	Solid	01/17/24 09:17	01/18/24 08:12	1'
890-5985-9	BH 03	Solid	01/17/24 09:23	01/18/24 08:12	4'
890-5985-10	SS 04	Solid	01/17/24 09:31	01/18/24 08:12	4'
890-5985-11	SS 04	Solid	01/17/24 13:10	01/18/24 08:12	5'
890-5985-12	SS 02	Solid	01/17/24 09:40	01/18/24 08:12	1'
890-5985-13	SS 02	Solid	01/17/24 09:46	01/18/24 08:12	4'
890-5985-14	SS 01	Solid	01/17/24 10:38	01/18/24 08:12	2'
890-5985-15	SS 01	Solid	01/17/24 10:42	01/18/24 08:12	4'
890-5985-16	SS 06	Solid	01/17/24 11:02	01/18/24 08:12	4'
890-5985-17	SS 08	Solid	01/17/24 09:47	01/18/24 08:12	0.5'
890-5985-18	SS 07	Solid	01/17/24 10:02	01/18/24 08:12	0.5'
890-5985-19	SS 11	Solid	01/17/24 10:53	01/18/24 08:12	0.5'
890-5985-20	SS 10	Solid	01/17/24 13:14	01/18/24 08:12	0.5'
890-5985-21	SS 09	Solid	01/17/24 13:45	01/18/24 08:12	0.5'
890-5985-22	SS 05	Solid	01/17/24 13:18	01/18/24 08:12	4'

Loc: 890
5985

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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

890-5985 Chain of Custody

www.xenco.com Page 1 of 3

Project Manager:	Ben Belill	Bill to: (if different)	Carrie Green
Company Name:	Ensolum, LLC	Company Name:	XTO Energy
Address:	3122 National Parks Hwy	Address:	3104 E Green St
City, State ZIP:	Carlsbad, NM, 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	989-854-0852 Email:	bbelill@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:	Outrider CVB	Turn Around	
Project Number:	03C1558300	☑ Routine ☐ Rush	
Project Location:	32.18646, -103.67561	Due Date:	
Sampler's Name:	Mario Sarkis	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:	TM005
Cooler Custody Seals:	Yes No N/A	Correction Factor:	0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	0.8
Total Containers:		Corrected Temperature:	0.6

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	BTEX	TPH	Chlorides	5985	Sample Comments
BH01	S	1/16/24	13:50	0.5'	G	1	✓	✓	✓		Cost Center
BH02	S	1/16/24	14:30	0.5'	G	1	✓	✓	✓		1056151001
BH03	S	1/16/24	15:00	0.5'	G	1	✓	✓	✓		Incident #
BH01	S	1/17/24	09:06	4.0'	G	1	✓	✓	✓		nAPP2332134094
BH02	S	1/17/24	09:08	1.0'	G	1	✓	✓	✓		
BH02	S	1/17/24	16:30	7.0'	G	1	✓	✓	✓		
BH01	S	1/17/24	16:10	5.0'	G	1	✓	✓	✓		
BH03	S	1/17/24	09:17	1.0'	G	1	✓	✓	✓		
BH03	S	1/17/24	09:23	4.0'	G	1	✓	✓	✓		
SS04	S	1/17/24	09:31	4.0'	G	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			1/18/24 07:50	2		8/2
3				4		
5				6		

Revised Date: 08/25/2020 Rev. 2020.2

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Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 2 of 3

Project Manager:	Ben Belill	Bill to: (if different)	Garret Green
Company Name:	Ensolum, LLC	Company Name:	XTO Energy
Address:	3122 National Parks Hwy	Address:	3104 E Green St
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	989-554-0852	Email:	bbelill@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:	Outrider CVB	Turn Around	
Project Number:	03C155830	☑ Routine ☐ Rush	
Project Location:	32.18646, -103.67561	Due Date:	
Sampler's Name:	Mario Sarkis	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:	TM002
Cooler Custody Seals:	Yes No N/A	Correction Factor:	0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	0.8
Total Containers:		Corrected Temperature:	0.6

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	Parameters: BTEX	TPH	Chlorides	Sample Comments
SS04	S	1/17/24	13:10	5.0'	G	1	✓	✓	✓	Cost Center
SS02	S	1/17/24	09:40	1.0'	G	1	✓	✓	✓	1056151001
SS02	S	1/17/24	09:46	4.0'	G	1	✓	✓	✓	Incident #
SS01	S	1/17/24	10:38	2.0'	G	1	✓	✓	✓	nAPP2332134094
SS01	S	1/17/24	10:42	4.0'	G	1	✓	✓	✓	
SS06	S	1/17/24	11:02	4.0'	G	1	✓	✓	✓	
SS08	S	1/17/24	09:47	0.5'	G	1	✓	✓	✓	
SS07	S	1/17/24	10:02	0.5'	G	1	✓	✓	✓	
SS11	S	1/17/24	10:53	0.5'	G	1	✓	✓	✓	
SS10	S	1/17/24	13:14	0.5'	G	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

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

Revised Date: 08/25/2020 Rev. 2020.2

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Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

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Project Manager:	Bell Bellill	Bill to: (if different)	Garret Green
Company Name:	ENSOLUM, LLC	Company Name:	XTO Energy
Address:	3122 National Parks Hwy	Address:	3104 E Green St
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	989-854-0852 Email:		

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:	Outrider CVB	Turn Around	
Project Number:	03C1558300	☑ Routine ☐ Rush	
Project Location:	32.1864, -103.6761	Due Date:	
Sampler's Name:	Mario Sarkis	TAT starts the day received by the lab, if received by 4:30pm	
P.O.#:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	TWN00
Cooler Custody Seals:	Yes No N/A	Correction Factor:	0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	0.8
Total Containers:		Corrected Temperature:	-0.6

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: BTEX	TPH	Chlorides
SSC9	S	1/17/24	13:45	0.5'	G	1		✓	✓	✓
SSC5	S	1/17/24	13:18	4.0'	G	1		✓	✓	✓

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 Comments

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		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-5985-1
SDG Number: 03C1558300

Login Number: 5985
List Number: 1
Creator: Bruns, Shannon

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: 890-5985-1
SDG Number: 03C1558300

Login Number: 5985
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 01/19/24 03:48 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	

District I
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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

QUESTIONS

Action 371062

QUESTIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 371062
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2332134094**
Incident Name	**NAPP2332134094 OUTRIDER CVB @ 0**
Incident Type	**Oil Release**
Incident Status	**Deferral Request Received**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	OUTRIDER CVB
Date Release Discovered	11/09/2023
Surface Owner	Federal

Incident Details	
Please answer all the questions in this group.	
Incident Type	Oil Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Exploratory Well | Pump | Crude Oil | Released: 20 BBL | Recovered: 20 BBL | Lost: 0 BBL.
Produced Water Released (bbls) Details	*Not answered.*
Is the concentration of chloride in the produced water >10,000 mg/l	*Not answered.*
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	*Not answered.*

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State of New Mexico
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QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 371062
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	**No, according to supplied volumes this does not appear to be a "gas only" report.**
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	**No**
Reasons why this would be considered a submission for a notification of a major release	*Unavailable.*
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

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	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*
Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	

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.

I hereby agree and sign off to the above statement	Name: Alan Romero Title: Regulatory Analyst Email: alan.romero1@exxonmobil.com Date: 08/06/2024

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

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 371062
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). 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 in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between ½ and 1 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1000 (ft.) and ½ (mi.)
Any other fresh water well or spring	Between 1000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	7990
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	10700
GRO+DRO (EPA SW-846 Method 8015M)	10700
BTEX (EPA SW-846 Method 8021B or 8260B)	115
Benzene (EPA SW-846 Method 8021B or 8260B)	0.2
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
On what estimated date will the remediation commence	01/04/2024
On what date will (or did) the final sampling or liner inspection occur	05/01/2024
On what date will (or was) the remediation complete(d)	05/01/2024
What is the estimated surface area (in square feet) that will be reclaimed	280
What is the estimated volume (in cubic yards) that will be reclaimed	10.5
What is the estimated surface area (in square feet) that will be remediated	90
What is the estimated volume (in cubic yards) that will be remediated	20
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 371062
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for **off-site** disposal	HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510]
OR which OCD approved well (API) will be used for **off-site** disposal	*Not answered.*
OR is the **off-site** disposal site, to be used, out-of-state	*Not answered.*
OR is the **off-site** disposal site, to be used, an NMED facility	*Not answered.*
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	*Not answered.*
(In Situ) Soil Vapor Extraction	*Not answered.*
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	*Not answered.*
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	*Not answered.*
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	*Not answered.*
Ground Water Abatement pursuant to 19.15.30 NMAC	*Not answered.*
OTHER (Non-listed remedial process)	*Not answered.*
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
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.	
I hereby agree and sign off to the above statement	Name: Alan Romero Title: Regulatory Analyst Email: alan.romero1@exxonmobil.com Date: 08/06/2024
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
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QUESTIONS (continued)

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QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	**Yes**
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	Equipment - Surface production piping, electrical lines, lined containment, LACT unit, separators
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	90
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	20
Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.	
Enter the facility ID (f#) on which this deferral should be granted	OUTRIDER 28 FEDERAL CVB [fAPP2320729912]
Enter the well API (30-) on which this deferral should be granted	*Not answered.*
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
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.	
I hereby agree and sign off to the above statement	Name: Alan Romero Title: Regulatory Analyst Email: alan.romero1@exxonmobil.com Date: 08/06/2024

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QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**304182**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**01/17/2024**
What was the (estimated) number of samples that were to be gathered	**20**
What was the sampling surface area in square feet	**4000**

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	No

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CONDITIONS

Action 371062

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CONDITIONS

Created By	Condition	Condition Date
nvelez	Deferral is approved. Remediation Due date will be left open until the site has been plugged and abandoned or a major facility deconstruction takes place.	9/11/2024