



October 13, 2025

New Mexico Oil Conservation Division

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

**Re: Closure Request
JRU 76
Incident Number nAPP2519735457
Eddy County, New Mexico**

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared this *Closure Request* to document assessment, delineation, excavation, and soil sampling activities performed at the JRU 76 (Site). The purpose of the remedial activities was to assess for the presence or absence of impacts to soil following a release of crude oil, produced water, and natural gas resulting from a faulty wellhead. Based on confirmation soil sample analytical results, XTO is submitting this *Closure Request* for Incident Number nAPP2519735457.

SITE DESCRIPTION AND RELEASE SUMMARY

The release location was initially reported to the New Mexico Oil Conservation Division (NMOCD) in Unit A of Section 06, Township 23 South, Range 31 East, but after review of the release location coordinates and photographs provided by XTO, it was confirmed the release occurred in Unit E, Section 06, Township 23 South, Range 31 East in Eddy County, New Mexico (32.335517°, -103.824353°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On July 13, 2025, the packing on the wellhead stuffing box failed, resulting in the release of approximately 2 barrels (bbls) of crude oil and 3 bbls of produced water onto the surface of the pad and a light overspray to the northwest area of the pad and surrounding pasture following the dominant wind direction that day. Additionally, 195 thousand cubic feet (MCF) of natural gas was vented. No fluids were recovered. XTO reported the release to the NMOCD via a Notification of Release (NOR) and a Release Notification Form C-141 (C-141) on July 16, 2025. The release was assigned Incident Number nAPP2519735457.

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 and potential Site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be greater than 150 feet below ground surface (bgs) based on the nearest groundwater well data. On May 22, 2019, a monitoring well permitted by the New

Mexico Office of the State Engineer (NMOSE) as C-04325 was drilled approximately 0.16 miles west of the Site utilizing a sonic drilling ring. The well was drilled to a total depth of 150 feet bgs. A field geologist logged and described soils continuously. No saturated soil was encountered during drilling activities. The borehole was left open for 72 hours to allow for potential slow infill of groundwater. After this waiting period without observing groundwater, it was confirmed groundwater beneath the Site is greater than 150 feet bgs. The Well Log for soil boring C-04325 is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a riverine located approximately 4,322 feet southwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine.

The Site is potentially underlain by unstable geology. Per the New Mexico Oil and Gas Map, the Site is within medium potential karst designation area as defined by BLM. Southwest Geophysical Consulting, a BLM-approved third-party cave/karst contractor, conducted a desktop survey, aerial survey, and geophysical survey of the Site. In summary, no surface karst features within the 200-foot survey area surrounding the release extent were identified in the desktop or surface karst surveys. Results of the geophysical study indicated a well-layered geologic system is present beneath the Site with no anomalies in the data that would indicate air-filled subsurface voids or a pathway to groundwater, confirming the absence of karst below the Site. A copy of the karst survey is included in Appendix B.

Potential 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 mg/kg
- BTEX: 50 mg/kg
- TPH-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

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

ASSESSMENT AND DELINEATION ACTIVITIES

Between July 14 and August 8, 2025, Ensolum personnel conducted Site assessment and delineation activities to evaluate the release based on information provided on the C-141 and visual observations. Ensolum personnel identified the release extent, approximately 768 square feet, based on visual observations of stained soil. Ensolum personnel also identified the overspray area; an approximately 27,865 square-foot area in the northwest corner of the pad and pasture where high winds had carried a *de minimus* volume of fluid spray from the release. Ensolum personnel collected 13 delineation soil samples (SS01 through SS13) within and around the release extent and overspray area. The delineation soil samples were collected at ground surface to determine the presence or absence of impacted and/or waste-containing soil. In addition, potholes PH01 and PH02 were advanced via backhoe to a terminal depth of 4 feet bgs in the vicinity of SS01 and SS04, respectively, to assess the vertical extent of the release. Discrete soil samples were collected at depths ranging from ground surface to 4 feet bgs. All delineation soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated

photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. The release extent, overspray area, and delineation soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was collected during all assessment and delineation activities and is included in Appendix C. Field screening results and observations for all potholes advanced were logged on lithologic/soil sampling logs, which are included in Appendix D.

All 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, or Cardinal Laboratories (Cardinal) in Hobbs, 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 Method SM4500.

On October 2, 2025, Ensolum personnel returned to the Site to collect additional delineation soil samples. Soil samples SS14 through SS19 were collected at ground surface, within and around the release extent to further define the lateral extent of the release and overspray areas. The soil samples were field screened and handled in the same manner as described above and submitted to Cardinal for analysis of the COCs.

SURFACE SCRAPE, EXCAVATION, AND SOIL SAMPLING ACTIVITIES

Between August 8 and October 2, 2025, Ensolum personnel returned to the Site to oversee surface scraping and excavation activities based on delineation soil sample laboratory analytical results. The entirety of the surficial staining caused by the release was scraped utilizing heavy equipment. Following surface scraping activities, Ensolum personnel collected composite soil samples CS01 through CS102. Composite soil samples CS01 through CS55 were collected from the pad surface representing no more than 200 square feet. Composite soil samples CS56 through CS102 were collected from the pasture representing no more than 400 square feet based on a sampling variance approved by the NMOCD. Correspondence with the NMOCD for the variance is included in Appendix E. The 5-point composite soil samples were collected by placing five equivalent aliquots of soil into a resealable plastic bag and homogenizing the samples by thoroughly mixing. All soil samples were field screened for VOCs and chloride in the same manner as described above. The surface scrape extent and composite soil sample locations were mapped utilizing a handheld GPS unit and are presented on Figure 3.

Laboratory analytical results from composite soil samples CS01 through CS55, with the exception of CS14, CS36, and CS41, collected from within the release and overspray extents on the pad surface indicated all COC concentrations were in compliance with Site Closure Criteria. Laboratory analytical results from composite soil samples CS56 through CS102, collected from within the overspray extent in the pasture, indicated all COC concentrations were in compliance with Site Closure Criteria and reclamation requirements. Laboratory analytical results for composite soil samples CS14, CS36, and CS41 indicated TPH-GRO and TPH-DRO and/or total TPH concentrations exceeded Site Closure Criteria.

Impacted soil was excavated from the release extent as indicated by composite soil sample laboratory analytical results. Excavation activities were performed on the pad utilizing a backhoe and transport vehicles. To direct excavation activities, soil was field screened as described above. The excavation was completed to depths ranging from 1-foot to 2 feet bgs. Following the removal of impacted soil on the pad surface, six confirmation soil samples (FS01 through FS03, and SW01 through SW03) were

collected representing no more than 200 square feet from the floor and sidewalls of the excavation. The confirmation soil samples were collected in the same manner as described above. Confirmation soil sample FS01 was collected from the floor of the excavation from a depth of 1-foot bgs. Confirmation soil samples FS02 and FS03 were collected from the floor of the excavation from a depth of 2 feet bgs. Confirmation soil sample SW01 was collected from the sidewalls of the excavation at depths ranging from ground surface to 1-foot bgs and SW02 and SW03 were collected from the sidewalls of the excavation at depths ranging from ground surface to 2 feet bgs. The soil samples were transported under strict chain-of-custody procedures to Cardinal for analysis of the same COCs mentioned above. The excavation extents and confirmation soil sample locations were mapped utilizing a handheld GPS unit and are presented on Figure 4.

The final excavation extents, in total, measured approximately 599 square feet. An estimated 37 cubic yards of soil was removed during the excavation activities. The excavated soil was transported and properly disposed of at the Northern Delaware Basin Landfill facility. Waste manifests will be made available upon request.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for composite soil samples CS56 through CS102, collected from the overspray extent in the pasture indicated all COC concentrations within the pasture were compliant with the Closure Criteria and reclamation standards. Additionally, delineation soil samples SS06 and SS10 through SS13, collected from the pasture, indicated all COC concentrations were in compliance with reclamation standards, successfully defining the lateral extent of the overspray extent and confirming no impacted or waste-containing soil exists in the pasture area. Laboratory analytical results for delineation soil samples SS05, SS09, SS14, SS17, and SS19, along with composite soil samples CS01, CS39, CS40, CS47, CS51, CS52, CS56 through CS65, and CS99 through CS101, indicated all COC concentrations were in compliance with the Closure Criteria and reclamation requirement, successfully defining the lateral extent of the release within the pad boundary. Laboratory analytical results for confirmation floor samples FS01 through FS03, collected from the floor of the excavation at depths ranging between 1-foot and 2 feet bgs, along with delineation soil samples PH01 and PH01A, and PH02 and PH02A, collected at 3 feet bgs and 4 feet bgs surface respectively, indicated all COC concentrations were in compliance with Site Closure Criteria, successfully defining the vertical extent of the release.

Laboratory analytical results for all final excavation confirmation soil samples, floor and sidewall soil samples collected indicated that all COC concentrations were compliant with the Site Closure Criteria. Laboratory analytical results are summarized in Table 1, and the complete laboratory analytical reports are included in Appendix F.

CLOSURE REQUEST

Assessment, delineation, excavation, and soil sampling activities were conducted at the Site to address the July 13, 2025, release of crude oil, produced water, and natural gas. Laboratory analytical results for all final composite and confirmation soil samples indicated all COC concentrations were compliant with the Site Closure Criteria and/or reclamation requirements where applicable. Based on laboratory analytical results, no further remediation was required. The remaining overspray area in the pasture, outside the pad boundary is in compliance with the reclamation requirement. The excavation was backfilled with locally procured clean fill material, and the Site will be recontoured to match pre-existing Site conditions.

XTO Energy, Inc.
Closure Request
JRU 76



Depth to groundwater has been estimated to be greater than 100 feet bgs and no sensitive receptors were identified near the release extent. XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Number nAPP2519735457.

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

Sincerely,
Ensolum, LLC

A handwritten signature in black ink, appearing to read "J. Reich".

Jeremy Reich
Project Geologist

A handwritten signature in black ink, appearing to read "B. J. Belill".

Benjamin J. Belill
Senior Geologist

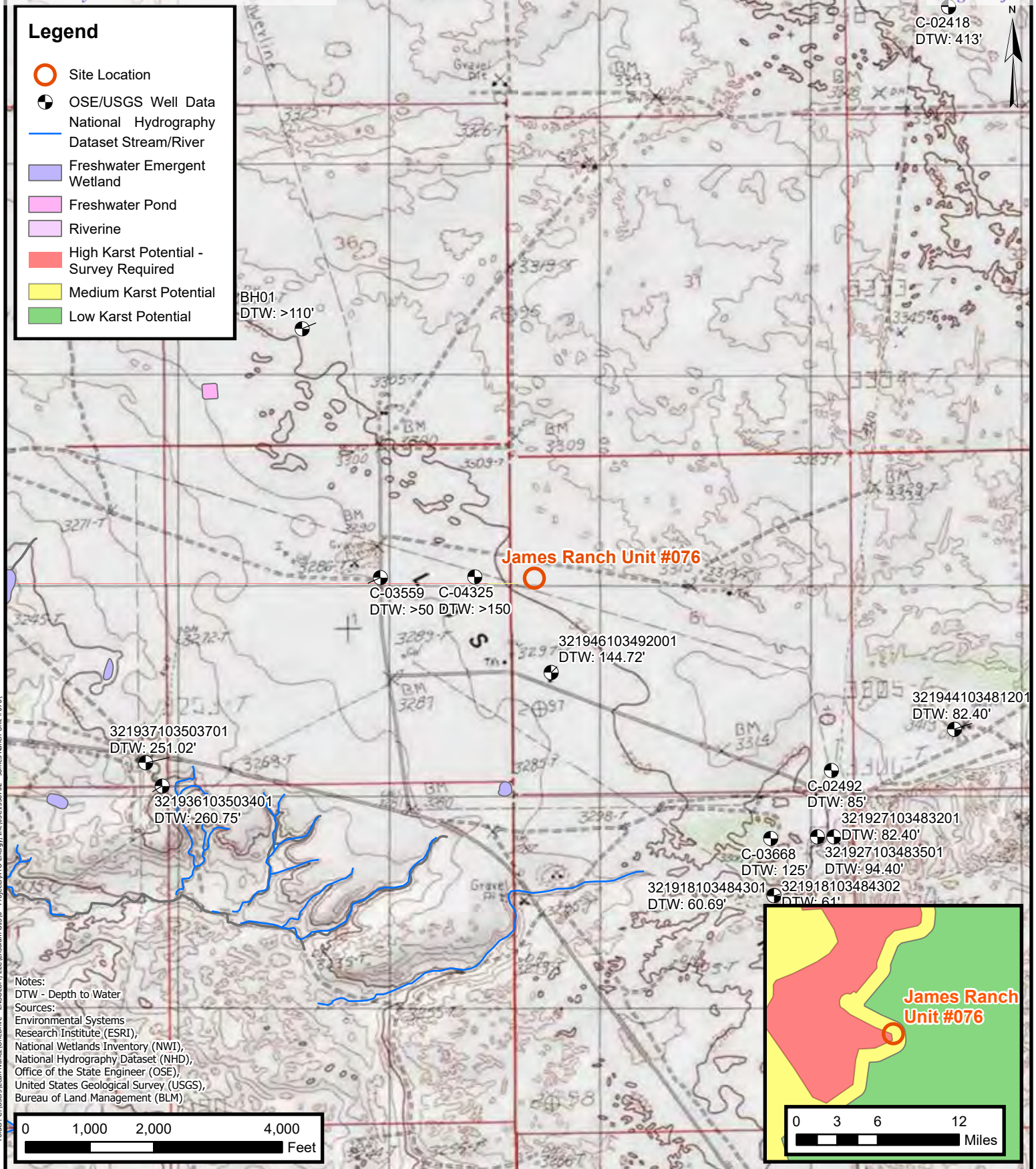
cc: Robert Woodall, XTO
Richard Kotzur, XTO
BLM

Appendices:

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Figure 3	Composite Soil Sample Locations
Figure 4	Confirmation Soil Sample Locations
Table 1	Soil Sample Analytical Results
Appendix A	Referenced Well Records
Appendix B	Karst Survey Results
Appendix C	Photographic Log
Appendix D	Lithologic / Soil Sampling Logs
Appendix E	NMOCD Correspondence
Appendix F	Laboratory Analytical Reports & Chain-of-Custody Documentation



FIGURES



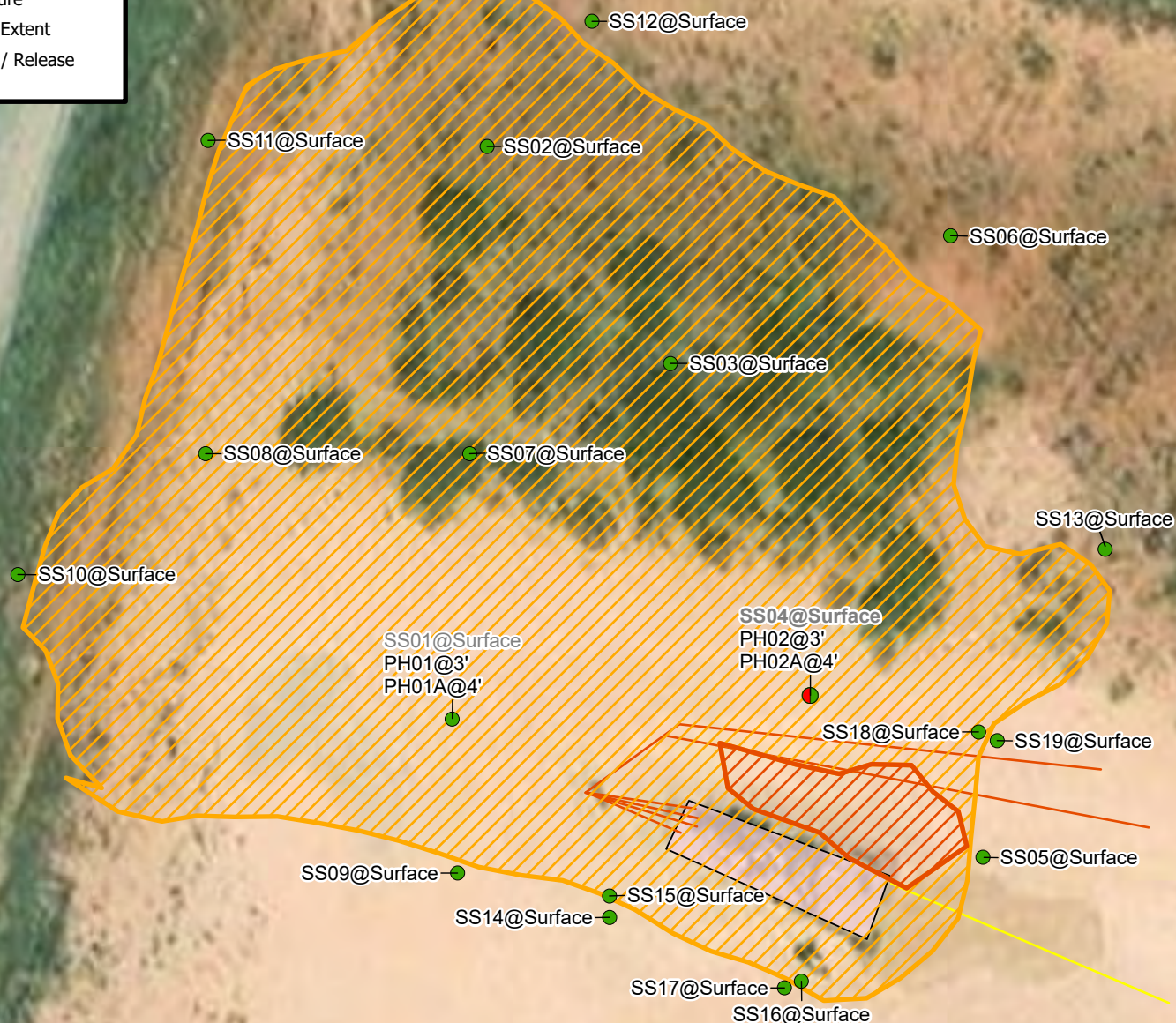
ENSOLUM
Environmental, Engineering and
Hydrogeologic Consultants

Site Receptor Map
XTO Energy, Inc
JRU 76
Incident Number: nAPP2519735457
Unit E, Section 06, T 23S, 31E
Eddy County, New Mexico

FIGURE
1

Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Delineation Soil Sample with Concentrations Previously Exceeding Closure Criteria
- Oil and Gas Utility Line
- Electric Line
- Infrastructure
- ▨ Overspray Extent
- ▨ Saturation / Release Extent



Notes:
 Sample ID @ Depth Below Ground Surface.
 Grey text indicates soil sample removed during excavation activities.
 Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation requirement where applicable.

0 17.5 35 70
 Feet

Sources: Environmental Systems Research Institute (ESRI)



Delineation Soil Sample Locations

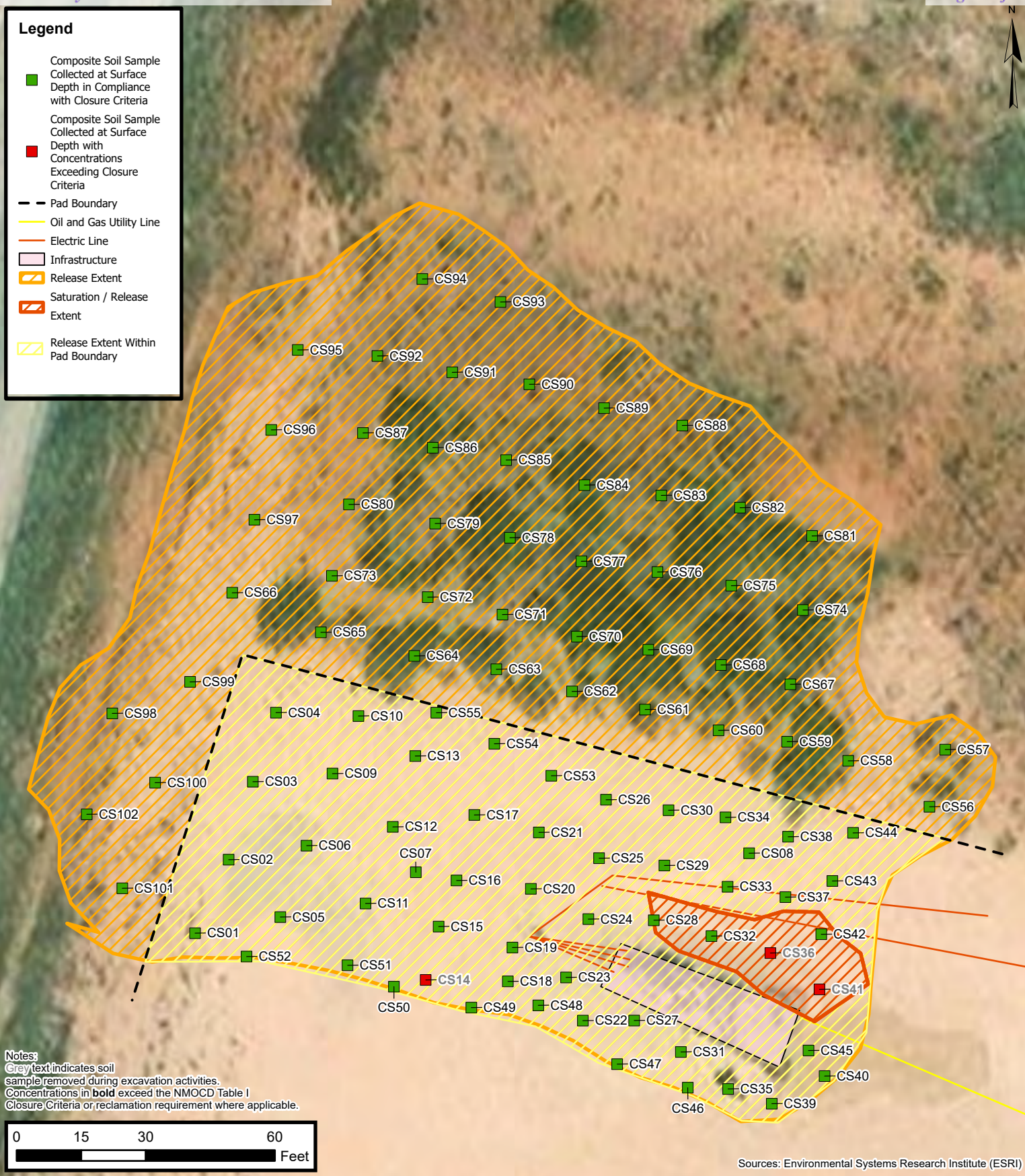
XTO Energy, Inc
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 Unit E, Section 06, T 23S, R 31E
 Eddy County, New Mexico

FIGURE
2

Legend

- Composite Soil Sample
Collected at Surface
Depth in Compliance
with Closure Criteria
- Composite Soil Sample
Collected at Surface
Depth with
Concentrations
Exceeding Closure
Criteria
- Pad Boundary
- Oil and Gas Utility Line
- Electric Line
- Infrastructure
- Release Extent
- Saturation / Release
Extent
- Release Extent Within
Pad Boundary

**Composite Soil Sample Locations**

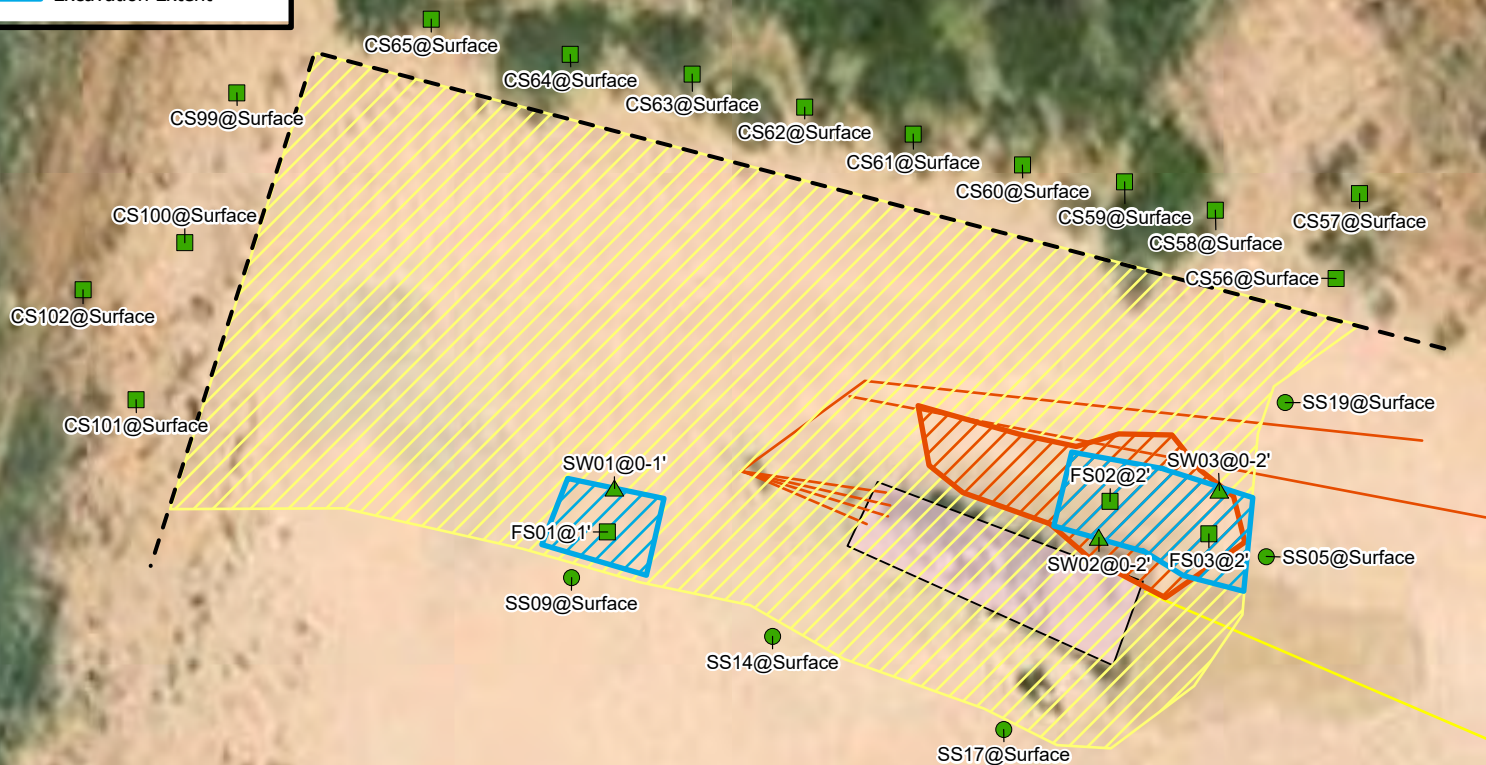
XTO Energy, Inc
 JRU 76

Incident Number: nAPP2519735457
 Unit E, Section 06, T 23S, R 31E
 Eddy County, New Mexico

FIGURE**3**

Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Composite Soil Sample in Compliance with Closure Criteria
- Excavation Floor Soil Sample in Compliance with Closure Criteria
- ▲ Excavation Sidwall Soil Sample in Compliance with Closure Criteria
- Pad Boundary
- Oil and Gas Utility Line
- Electric Line
- Infrastructure
- ▨ Saturation / Release Extent
- ▨ Release Extent Within Pad Boundary
- ▨ Excavation Extent



Notes:
Sample ID @ Depth Below Ground Surface.

0 15 30 60
Feet

Sources: Environmental Systems Research Institute (ESRI)



Confirmation Soil Sample Locations

XTO Energy, Inc
JRU 76
Incident Number: nAPP2519735457
Unit E, Section 06, T 23S, R 31E
Eddy County, New Mexico

FIGURE

4



TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
JRU 76
XTO Energy, Inc
Eddy 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	07/29/2025	Surface	<0.050	<0.300	<10.0	140	29.9	170	170	992
PH01	08/07/2025	3	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	686
PH01A	08/07/2025	4	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	346
SS02	07/29/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS03	07/29/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS04	07/29/2025	Surface	<0.050	<0.300	<10.0	3,580	729	4,309	4,309	560
PH02	08/08/2025	3	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	959
PH02A	08/08/2025	4	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	869
SS05	07/29/2025	Surface	<0.050	<0.300	<10.0	19.7	<10.0	19.7	19.7	160
SS06	07/29/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SS07	07/29/2025	Surface	<0.050	<0.300	<10.0	49.1	12.2	61.3	61.3	16.0
SS08	07/29/2025	Surface	<0.050	<0.300	<10.0	34.9	<10.0	34.9	34.9	32.0
SS09	08/07/2025	Surface	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	106
SS10	08/07/2025	Surface	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	49.2
SS11	08/07/2025	Surface	<0.00202	<0.00403	<49.8	60.9	<49.8	60.9	60.9	<9.98
SS12	08/07/2025	Surface	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	<10.1
SS13	08/07/2025	Surface	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	<9.92
SS14	10/02/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SS15	10/02/2025	Surface	<0.050	<0.300	<10.0	179	119	179	298	256
SS16	10/02/2025	Surface	<0.050	<0.300	<10.0	95.1	32.4	95.1	128	1,120
SS17	10/02/2025	Surface	<0.050	<0.300	<10.0	22.1	<10.0	22.1	22.1	352
SS18	10/02/2025	Surface	<0.050	<0.300	<10.0	851	323	851	1,174	128
SS19	10/02/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
Composite Soil Samples										
CS01	08/08/2025	Surface	<0.00199	<0.00398	<49.8	58.3	<49.8	58.3	58.3	314
CS02	08/08/2025	Surface	<0.00202	<0.00404	<50.0	182	<50.0	182	182	504
CS03	08/08/2025	Surface	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	124
CS04	08/08/2025	Surface	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	78.4
CS05	08/08/2025	Surface	<0.00200	<0.00399	<50.0	89.5	<50.0	89.5	89.5	1,150
CS06	08/08/2025	Surface	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	1,190
CS07	08/08/2025	Surface	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	<49.8	1,280
CS08	08/08/2025	Surface	<0.00200	<0.00400	<50.0	227	<50.0	227	227	794



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
JRU 76
XTO Energy, Inc
Eddy 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
CS09	08/14/2025	Surface	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	587
CS10	08/14/2025	Surface	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	129
CS11	08/14/2025	Surface	<0.00198	<0.00397	<49.8	<49.8	<49.8	<49.8	<49.8	1,270
CS12	08/14/2025	Surface	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	1,640
CS13	08/14/2025	Surface	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	1,180
CS15	08/14/2025	Surface	<0.00200	<0.00399	<49.9	80.5	<49.9	80.5	80.5	1,500
CS16	08/14/2025	Surface	<0.00199	<0.00398	<49.8	101	<49.8	101	101	1,750
CS17	08/14/2025	Surface	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	<49.8	771
CS18	08/14/2025	Surface	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	896
CS19	08/14/2025	Surface	<0.00199	<0.00398	<50.0	83.0	<50.0	83.0	83.0	1,510
CS20	08/14/2025	Surface	<0.00201	<0.00402	<50.0	73.2	<50.0	73.2	73.2	366
CS21	08/15/2025	Surface	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	836
CS22	08/15/2025	Surface	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	1,650
CS23	08/15/2025	Surface	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	2,610
CS24	08/15/2025	Surface	<0.00201	<0.00402	<49.9	231	185	231	416	520
CS25	08/15/2025	Surface	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	839
CS26	08/15/2025	Surface	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	403
CS27	08/15/2025	Surface	<0.00199	<0.00398	<49.9	59.5	<49.5	59.5	59.5	1,390
CS28	08/15/2025	Surface	<0.00201	<0.00402	<49.9	103	<49.9	103	103	51.8
CS29	08/15/2025	Surface	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	844
CS30	08/15/2025	Surface	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	1,020
CS31	08/15/2025	Surface	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	<49.8	936
CS32	08/15/2025	Surface	<0.00199	<0.00398	<49.9	150	<49.9	150	150	29.9
CS33	08/15/2025	Surface	<0.00202	<0.00403	<49.8	67.2	<49.8	67.2	67.2	231
CS34	08/15/2025	Surface	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	878
CS35	08/15/2025	Surface	<0.00201	<0.00402	<49.9	141	<49.9	141	141	973
CS37	08/15/2025	Surface	<0.00202	<0.00404	<50.0	430	58.7	430	489	736
CS38	08/15/2025	Surface	<0.00200	<0.00400	<49.8	293	<49.8	293	293	219
CS39	08/15/2025	Surface	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	145
CS40	08/15/2025	Surface	<0.00199	<0.00398	<49.9	264	51.0	264	315	308
CS42	08/15/2025	Surface	<0.00198	<0.00397	<49.8	<49.8	57.7	57.7	57.7	916
CS43	08/15/2025	Surface	<0.00198	<0.00397	<49.8	<49.8	<49.8	<49.8	<49.8	1,170
CS44	08/15/2025	Surface	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	314



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
JRU 76
XTO Energy, Inc
Eddy 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
CS45	08/15/2025	Surface	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	<49.8	679
CS46	08/15/2025	Surface	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	1,370
CS47	08/15/2025	Surface	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	360
CS48	08/15/2025	Surface	<0.00200	<0.00399	<49.8	76.8	<49.8	76.8	76.8	1,180
CS49	08/15/2025	Surface	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	1,070
CS50	08/15/2025	Surface	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	1,170
CS51	08/15/2025	Surface	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	58.4
CS52	08/15/2025	Surface	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	150
CS53	08/15/2025	Surface	<0.00198	<0.00397	<49.8	<49.8	<49.8	<49.8	<49.8	226
CS54	08/15/2025	Surface	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	33.4
CS55	08/15/2025	Surface	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	201
CS56	08/15/2025	Surface	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	37.1
CS57	08/15/2025	Surface	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	358
CS58	08/14/2025	Surface	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	31.3
CS59	08/14/2025	Surface	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	168
CS60	08/14/2025	Surface	<0.00200	<0.00399	<49.8	52.6	<49.8	52.6	52.6	61.2
CS61	08/14/2025	Surface	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	66.4
CS62	08/14/2025	Surface	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	<49.8	34.7
CS63	08/14/2025	Surface	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	20.6
CS64	08/14/2025	Surface	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	16.5
CS65	08/14/2025	Surface	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	<49.8	35.2
CS66	08/14/2025	Surface	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	29.7
CS67	08/14/2025	Surface	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	38.6
CS68	08/14/2025	Surface	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	<10.1
CS69	08/14/2025	Surface	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	<49.8	<10.0
CS70	08/14/2025	Surface	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	<49.8	<10.1
CS71	08/14/2025	Surface	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	<9.98
CS72	08/14/2025	Surface	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	<9.98
CS73	08/14/2025	Surface	<0.00202	<0.00404	<49.9	<49.9	56.1	56.1	56.1	<10.1
CS74	08/14/2025	Surface	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	<49.8	<10.1



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
JRU 76
XTO Energy, Inc
Eddy 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
CS75	08/14/2025	Surface	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	<10.1
CS76	08/14/2025	Surface	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	<9.98
CS77	08/14/2025	Surface	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	<9.96
CS78	08/14/2025	Surface	<0.00202	<0.00403	<49.7	<49.7	<49.7	<49.7	<49.7	<10.0
CS79	08/14/2025	Surface	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	<10.1
CS80	08/14/2025	Surface	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	<10.0
CS81	08/14/2025	Surface	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	429
CS82	08/14/2025	Surface	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	76.4
CS83	08/14/2025	Surface	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	<10.1
CS84	08/14/2025	Surface	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	<10.1
CS85	08/14/2025	Surface	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	<10.1
CS86	08/14/2025	Surface	<0.00198	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	<9.94
CS87	08/14/2025	Surface	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	<49.8	<10.1
CS88	08/14/2025	Surface	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	<9.98
CS89	08/14/2025	Surface	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	<10.1
CS90	08/14/2025	Surface	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	<10.1
CS91	08/14/2025	Surface	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	<9.96
CS92	08/14/2025	Surface	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	<9.98
CS93	08/14/2025	Surface	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	<10.1
CS94	08/14/2025	Surface	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	<9.92
CS95	08/14/2025	Surface	<0.00198	<0.00397	<49.8	<49.8	<49.8	<49.8	<49.8	<10.0
CS96	08/14/2025	Surface	<0.00198	<0.00397	<49.8	<49.8	<49.8	<49.8	<49.8	21.4
CS97	8/14/2025	Surface	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	13.5
CS98	08/14/2025	Surface	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	10.7
CS99	08/18/2025	Surface	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	11.2
CS100	08/14/2025	Surface	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	52.1
CS101	08/14/2025	Surface	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	10.3
CS102	08/14/2025	Surface	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	<10.1
Confirmation Soil Samples										
CS14	08/14/2025	Surface	<0.00198	<0.00396	<49.9	3,400	69.3	3,400	3,469	1,620
FS01	08/25/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	576
CS36	08/15/2025	Surface	<0.00198	<0.00396	<50.0	2,550	432	2,550	2,982	2,280
FS02	08/25/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	688



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
JRU 76
XTO Energy, Inc
Eddy 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
CS41	08/15/2025	Surface	<0.00198	<0.00396	<50.0	1,270	63.8	1,270	1,334	1,300
FS03	10/02/2025	2	<0.050	<0.300	<10.0	227	42.9	227	270	1,880
SW01	08/25/2025	0-1	<0.050	<0.300	<10.0	49.9	10.4	49.9	60.3	960
SW02	08/25/2025	0-2	<0.050	<0.300	<10.0	11.5	<10.0	11.5	11.5	896
SW03	10/02/2025	0-2	<0.050	<0.300	<10.0	55.7	10.6	55.7	66.3	1,260

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



APPENDIX A

Well Record & Log



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 4		WELL TAG ID NO.		OSE FILE NO(S). C-04325			
	WELL OWNER NAME(S) XTO Energy, Inc				PHONE (OPTIONAL) 409-284-1802			
	WELL OWNER MAILING ADDRESS 6401 Holiday Hill Road				CITY Midland	STATE TX	ZIP 79707	
	WELL LOCATION (FROM GPS)	DEGREES 32	MINUTES 20	SECONDS 7.21	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
		LONGITUDE -103	49	39.70	W	* DATUM REQUIRED: WGS 84		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Unit H, Section 01, Township 23 South, Range 30 East, Eddy County, New Mexico								
2. DRILLING & CASING INFORMATION	LICENSE NO. WD-1664		NAME OF LICENSED DRILLER Shawn Cain			NAME OF WELL DRILLING COMPANY Cascade Drilling LP		
	DRILLING STARTED 5/22/2019		DRILLING ENDED 06/04/2019		DEPTH OF COMPLETED WELL (FT) 150	BORE HOLE DEPTH (FT) 150	DEPTH WATER FIRST ENCOUNTERED (FT) N/A	
	COMPLETED WELL IS: ☐ ARTESIAN ☒ DRY HOLE ☐ SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A		
	DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:							
	DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☒ OTHER – SPECIFY: Sonic							
	DEPTH (feet bgl)		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)
	FROM	TO						
	0	150	6.15	N/A (Open Hole)	N/A	N/A	N/A	N/A
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.

POD NO.

TRN NO.

LOCATION

WELL TAG ID NO.

PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		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)
	FROM	TO				
	0	4	4	Silty Sand, dry, brown-red, poorly graded, fine-medium grain	Y ✓ N	
	4	9	5	Caliche with Sand, dry, light brown-tan, some red sand	Y ✓ N	
	9	11	2	Sand with Caliche, dry, light brown-brown, fine-medium grain, poorly graded	Y ✓ N	
	11	18	7	Silty Sand, dry, red-brown, some fine silt, poorly graded	Y ✓ N	
	18	36	18	Silt, dry, brown-red, non plastic	Y ✓ N	
	36	150	114	Silty Clay, dry, red-brown, low plasticity	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	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:					TOTAL ESTIMATED WELL YIELD (gpm):	
☐ PUMP ☐ AIR LIFT ☐ BAILER ☒ OTHER – SPECIFY: N/A					0.00	

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: Soil Boring was advanced for the purpose of delineating impacts to soil and investigating depth to groundwater at the JRU 10 Battery site. Soil boring was dry upon completion. Borehole backfilled with hydrated bentonite from 150' bgs to ground surface.	
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:	

6. SIGNATURE
BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.
_____ SIGNATURE OF DRILLER / PRINT SIGNEE NAME _____ DATE

FOR OSE INTERNAL USE

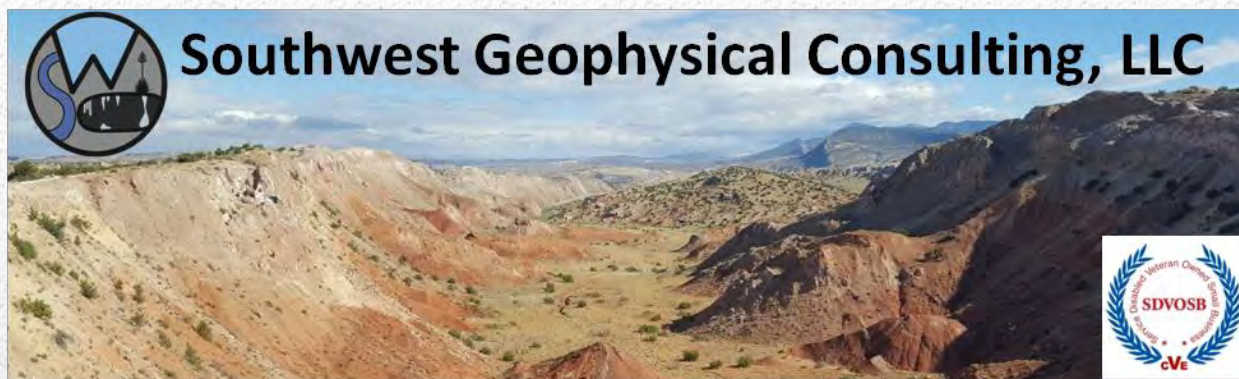
WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2



APPENDIX B

Karst Survey Results



Environmental Karst Study Report

James Ranch Unit 76

Eddy County, New Mexico

Prepared For:
Ensolum, LLC
3122 National Parks Highway
Carlsbad, NM 88220

Within 200 feet of the spill delineation boundary:

- ☒ Negative ☐ Positive for surface karst
- ☒ Stable ☐ Unstable Ground
- ☐ Karst Monitor Recommended

September 26, 2025

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MMXXV

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1.0 INTRODUCTION

This report was commissioned by Ensolum, LLC (hereinafter referred to as "the client"), on August 13, 2025, for the purpose of conducting an environmental karst study within an area encompassing the James Ranch Unit 76 release site (hereinafter termed "JR76") centered at N 32.335517° W 103.824353°.

1.1 Goals of this Study

The goals of this study are to conduct a surface karst inventory and provide the client with the location and description of any surface karst features located within 200 feet (61 meters) of the spill delineation boundary (as defined by 19.15.29.12 NMAC^[1]), and to determine whether stable ground exists (as defined by 19.15.2 NMAC Definitions^[2]) within the 200 feet of spill delineation boundary of the James Ranch Unit 76 release as provided by the client via e-mail (**XTO James Ranch Unit 76.kmz**) on August 13, 2025, using electrical resistivity imaging^[3].

1.2 Summary of Findings

- **No surface karst features exist within 200 feet (61 meters) of the spill delineation boundary.**
- **No anomalies consistent with subsurface air- or water-filled voids were found within the JR76 geophysical survey area, indicating the zone beneath the geophysical survey is not subject to collapse.**
- **Well-layered stratigraphy is interpreted to exist beneath the area where the geophysical survey was conducted, indicating stable ground within the 200-foot survey boundary.**

1.3 Affected Environment

The proposed JR76 project is located in evaporite karst terrain, a landform that is characterized by underground drainage through solutionally enlarged conduits. Evaporite karst terrain may contain sinkholes, sinking streams, caves, and springs. Sinkholes leading to underground drainages and voids are common. These karst features, as well as occasional fissures and discontinuities in the bedrock, provide the primary sources for rapid recharge of the groundwater aquifers of the region. Karst may develop by hypogene processes involving dissolution by upwelling fluids from depth independent of recharge from the overlying or immediately adjacent surface. Hypogene karst systems may not be connected to the surface and can remain undiscovered unless encountered during drilling or excavation.

Karst features are delicate resources that are often of geological, hydrological, biological, and archeological importance, and should be protected. The four primary concerns that need to be considered in these types of terrain are environmental issues, worker safety, equipment damage, and infrastructure integrity.

The Bureau of Land Management (BLM) categorizes all areas within the Carlsbad Field Office (CFO) zone of responsibility as having either low, medium, high, or critical cave potential based on geology, occurrence of known caves, density of karst features, and potential impacts to freshwater aquifers^[1]. These designations are also recognized by the New Mexico State Land Office (NMSLO). This project occurs within a **MEDIUM** karst occurrence zone (MKOZ)^[5] (**Figure 1**).



Figure 1: Karst occurrence zone overview. Background image credit: Google Earth. Image date: April 2, 2023. Image datum: WGS-84.

A medium karst occurrence zone is defined as an area in known soluble rock types that may have a shallow insoluble overburden. These areas may contain isolated karst features such as caves and sinkholes. Groundwater recharge may not be wholly dependent on karst features, but the karst features still provide the most rapid aquifer recharge in response to surface runoff^[4].

Due to the rapidity with which evaporite karst develops, each location within a BLM-CFO designated karst occurrence zone must be assessed on an individual basis to determine the existence of surface karst features and the possibility of sub-surface karst development each time a release occurs.

1.4 Limitations of Report

This report should be read in full. No responsibility is accepted for the use of any part of this report in any other context or for any other purpose or by third parties. This report does not purport to give legal advice. Legal advice can only be given by qualified legal practitioners.

This report has been prepared for the use of Ensolum, LLC, in accordance with generally accepted consulting practices. Every effort has been made to ensure the information in this report is accurate as of the time of its writing. This report has not been prepared for use by parties other than the client, their contracting party, and their respective consulting advisors. It may not contain sufficient information for the purposes of other parties or for other uses.

This report was prepared upon completion of the associated fieldwork using a standard template prepared by Southwest Geophysical Consulting and is based on information collected prior to fieldwork, conditions encountered on-site, and data collected during the fieldwork and reviewed at the time of preparation. Southwest Geophysical Consulting disclaims responsibility for any changes that might have occurred at the site after this time. The interpreted results, locations, and depths noted in this report (if applicable) should be taken as an interpretation only and no decision should be based solely on this information. Physical verification of aerial imagery analysis results should be conducted in the field prior to using this information for remediation planning. Physical verification of geophysical results using geotechnical methods should be conducted.

To the best of our knowledge, the information contained in this report is accurate at the date of issue. Due to the nature of karst terrain, the information in this report shall not be used beyond two years past the date of the field work provided in section **2.3 Description of Survey**. Large weather events can shorten this time period as areas subject to karst development can rapidly form new features subsequent to these events.

2.0 LOCATION AND DESCRIPTION OF STUDY AREA

2.1 Description of Site

The site is located 39.0 kilometers (24.3 miles) southeast of Carlsbad, New Mexico, north of the Jal Highway and east of Wipp Road. The pad is located within the NW $\frac{1}{4}$ section of section 6, NM T23S R31E^[6] (**Figure 1** and **Figure 2**). The region has rolling terrain with karstification occurring in the gypsite soils and underlying gypsum and dolomite bedrock^[7] (see section **2.2 Local Geology Summary** for further information). The climate in this area of southeast New Mexico is semi-arid with an average annual precipitation of approximately 13 inches, of which about two-thirds falls as rain during summer thunderstorms from June to October. Summers are hot and sunny while winters are generally mild, with an average maximum temperature of 96°F in July and an average minimum temperature of 28°F in January^[8]. This area is within the Chihuahuan Desert Thornscrub as defined by the Southwestern Regional ReGAP Vegetation map^[9] and the vegetation consists mostly of areas of blue grama, nine-awned pappus grass, burro grass and low scrub including yucca. The survey area is located within an MKOZ^[5] (**Figure 1**) and within BLM-CFO managed lands^[10] (**Figure 2**).



Figure 2: Land ownership and PLSS overview. Background image credit: Google Earth. Image date: April 2, 2023. Image datum: WGS-84.

2.2 Local Geology Summary

The site for the JR76 survey is located at an elevation of 1,007 meters (3,304 feet), $\pm$ 2 meters (6.6 feet). This region is entirely underlain by the Permian Rustler Formation (Pru). The area is mantled by thin gypsiferous soils (gypsite), Quaternary alluvial piedmont (Qp) and eolian deposits (Qe)^[11] up to 5 meters in depth (**Figure 3**).

The Rustler Formation is an evaporite facies composed mainly of thin siltstones and sandstones interbedded with claystones, dolomite, and gypsum, and contains both karst-forming strata (the Forty-niner and Tamarisk members) and two shallow aquifers (the Magenta and Culebra Dolomite members)^[12].



Figure 3: Geology overview. Geology map credit: The Digital Geologic Map of New Mexico in ARC/INFO Format. Background image credit: Google Earth. Image date: April 2, 2023. Image datum: WGS-84.

The Pru overlies the Permian Salado Formation (Psl – not shown), a layer of extremely soluble halite which can readily dissolve to create caves, sinkholes, and other karst features; however, due to its extremely soluble nature, only non-soluble silt and sand remain from the dissolution of this layer at the surface^[12]. The Rustler Formation may be subject to collapse if a void has developed beneath it in the Salado Formation^[13].

The survey area is covered by the easily accessible Geologic Map of New Mexico (2003) at 1:500,000 scale^[14] and the Digital Geologic Map of New Mexico in ARC/INFO Format^[11].

2.3 Description of Survey

2.3.1 Surface Karst Survey

Southwest Geophysical Consulting, in partnership with SWCA Environmental Consultants, provides surface karst surveys using small, uncrewed aerial systems (sUAS) that are flown by qualified, FAA licensed drone pilots and that meet the stringent Bureau of Land Management – Carlsbad Field Office requirements for both pedestrian and aerial karst surveys.

The surface karst survey includes a desk study prior to the flight which allows us to provide client feedback in the event of any previously known karst features in the area. The desk study is performed out to 305 meters (1,000 feet) from the spill delineation boundary per New Mexico Oil Conservation Division guidance ^[1] (**Figure 4**). The study was performed using satellite and aerial imagery from Google Earth Pro dated April 2, 2023 (please note features less than one meter in diameter are generally not visible using this method); the Southwest Geophysical Cave and Karst Database dated September 10, 2025^[15]; the Los Medanos, NM, 1:24,000 quad, 1985, USGS topographic map; and the latest lidar imagery from CalTopo.com. Please note that we use older topographic maps because newer maps have had caves removed from them. These searches and queries returned no results within the survey boundary.

Surface karst surveys are conducted by sUAS at low elevation within 200 meters of the spill delineation boundary^[4] (**Figure 4**) following a preplanned raster pattern flightpath designed for the purpose of generating at least 75% imagery overlap. The collected high-resolution, georeferenced imagery is stitched together to develop orthomosaic imagery which is further developed into a digital elevation model (DEM); the DEM is then processed into a local relief model (LRM) (**Figure 6**). This LRM is color coded to enhance differences in elevation of as little as five centimeters. The orthoimagery, DEM, and LRM are uploaded to a server where they are analyzed by an experienced karst geologist. Finally, the data is reviewed by a senior karst geologist for quality assurance and downloaded into a table for inclusion in a written report^[16].



Figure 4: Surface survey overview. Background image credit: Google Earth. Image date: April 2, 2023. Datum: WGS-84.

The resolution of the orthoimagery is clear enough that features as small as 10 centimeters can be positively identified in most circumstances. Occasionally there are ambiguous features identified during an aerial survey that will need to be checked in the field if they are impacted by the proposed remediation efforts. Specifically, it is difficult to tell the difference between solution tubes, abandoned uncased well bores, and some burrows in drone imagery. If an ambiguous feature is located during imagery analysis, it is marked with a yellow dot in **Figure 6**. If a feature of any likelihood is subsequently verified in the field prior to publication of the report, the dot will be changed to a red triangle if confirmed as a karst feature or deleted if not.

The imagery for this study was collected via aerial survey by Pat Lagodney of SWCA on August 27, 2025. Surface karst features may have developed after this date and will not be noted in this report. Imagery analysis was completed by Britt Bommer of Southwest Geophysical Consulting on September 15, 2025.

2.3.2 Geophysical Survey

For this survey, a Guideline Geo Terrameter LS 2 and a 28-electrode array of 40-centimeter-long electrodes were used to image the subsurface. This survey consisted of two resistivity lines in a dipole-dipole configuration. Line JR7601 is laid out east to west, while line JR7602 is laid out south to north. Due to space constraints, JR7601 consisted of only 24 electrodes while JR7602 consisted of all 28 electrodes. Both lines contained an electrode spacing of 5 meters resulting in a 105-meter-long array for JR7601 and a 135-meter-long array for JR7602 (**Figure 5, Table 1**). A preconfigured protocol file was used to run the data collection (DipoleDipole2x14). This electrode configuration provided a depth of investigation of 25 meters (82 feet) for JR7601 and 27 meters (89 feet) for JR7602 and a resolution of 2.5 to 3.0 meters (8.2 to 9.8 feet) within the first 5 to 8 meters (16 to 26 feet) from the surface. A Leica GS18 GPS was used to record electrode locations and elevations.



Figure 5: Geophysical survey overview. Two survey lines were conducted with 24 electrodes (JR7601) and 28 electrodes (JR7602), each at 5-meter spacing (yellow dots denoted with blue numbers). Background image credit: Google Earth. Image date: April 2, 2023. Image datum: WGS-84.

Table 1 provides basic line data. Detailed information including electrode number, location in latitude/longitude (decimal degree format), and elevation in meters can be found in the accompanying data files.

Table 1: Survey Line Data Table. The .kmz file contains all the points for the survey line listed in the file name. These data are available in the accompanying files JR76_ERI_Points.xlsx and ENS-021-20250813_JR76_Data_Files.kmz.

File Name:	Completed By:	Date:
JR7601.kmz	Garrett Jorgensen Olague – Senior Field Geologist Britt Bommer – Field Geologist Aaron Beirl – Field Geologist Ryan Palmer – GIS Specialist	9/9/2025
JR7602.kmz		

EarthImager™ 2D software was used to download and process the data and to provide the model used to make our interpretations. The design of the survey and the orientation of each of the lines provides the information necessary to make the determination of “stable” or “unstable” ground at this site.

A typical starting model was used for the data processing due to the two-layer model of the geology in the area; specifically, generally high-resistivity gypsum and dolomite at the surface and low-resistivity saturated gypsum and dolomite bedrock at depth. The starting model used was “average apparent resistivity” and a default inversion setting of “surface,” with a minimum apparent resistivity set to 0.1 Ohm-meters (Ohm-m or Ω -m) and a max apparent resistivity set to 100,000 Ω -m (**Table 2**).

Table 2: Software Information and Settings

Software Name:	EarthImager™ 2D
Version:	2.4.4.649
Starting Model:	Average Apparent Resistivity
Default Inversion Settings:	Surface
Changes to Default Inversion Settings:	Max Apparent Resistivity = 100 k Ω -m Min Apparent Resistivity = 0.1 Ω -m

Note: Raw data files (.dat files for EarthImager™ 2D) and processed data (.trn files, terrain files for surface correction in EarthImager™ 2D and .out files, the processed .dat files) are available upon request.

All field work, including setup, stow, and travel, was completed by Garrett Jorgensen Olague, Britt Bommer, Aaron Beirl, and Ryan Palmer on September 9, 2025.

3.0 RESULTS

3.1 Surface Karst Survey

The desk study and surface karst survey showed no surface karst features within 305 meters (1,000 feet)^[1] of the pad boundary (Figure 6).

No springs exist within the 305-meter (1,000-foot)^[1] survey boundary (Figure 6).

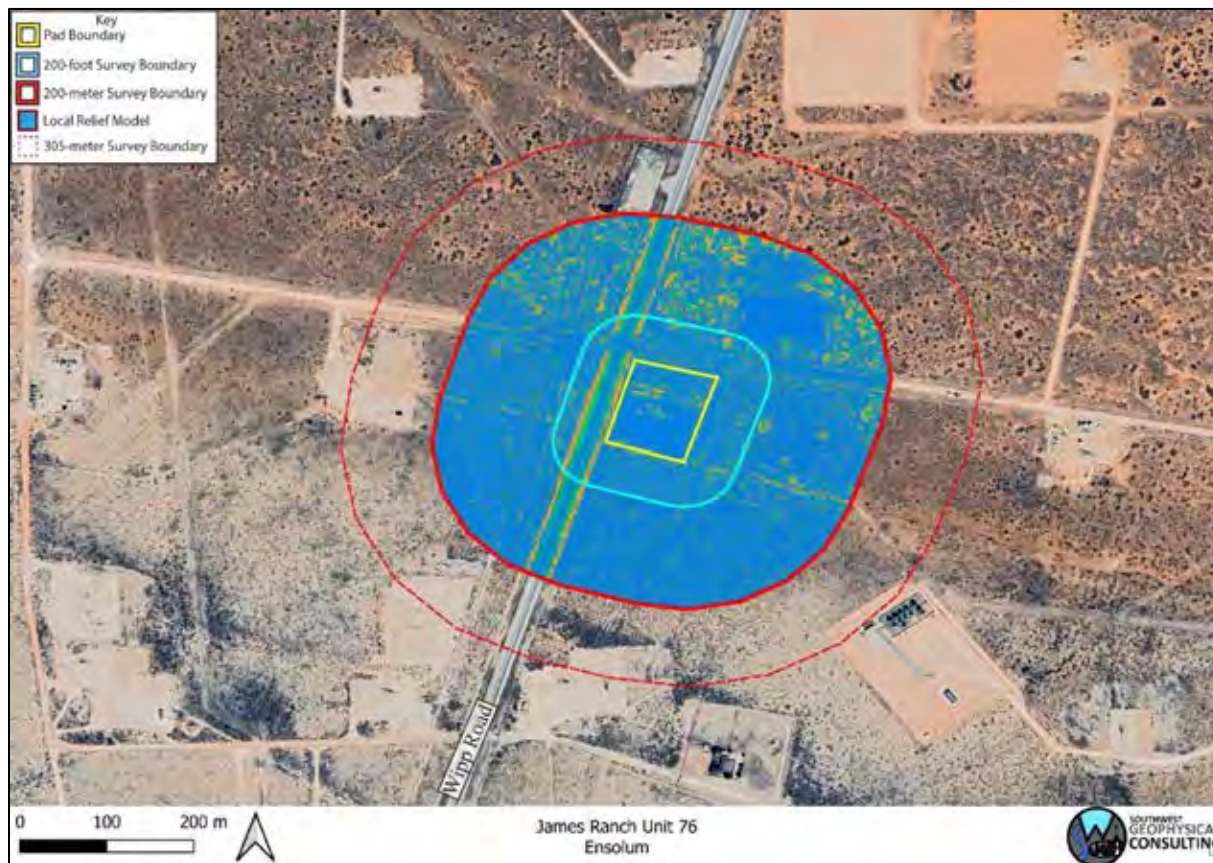


Figure 6: Surface karst survey results. Background image credit: Google Earth. Image date: April 2, 2023. Image datum: WGS-84.

3.2 Geophysical Survey

Electrical resistivity tomography forms images of the subsurface by causing a current to flow through the rock and soil and then measuring the resistance of these materials as the current flows through them. This measurement is taken many times and the resulting data, once processed, is used to produce a model of the subsurface (**Figure 7**). This model is produced using "non-unique" solutions, which means that there are many models and interpretations which will satisfy the data. Using experience and knowledge of the local geology, a high-confidence model can be established and used to develop an accurate understanding of what lies below the surface. This survey was conducted with the express purpose of locating subsurface voids and does not purport to find paleokarst (old, non-active karst features that have been filled in with sand and sediment) or nascent karst features below the resolution limit of the survey.

The results of this study indicate a well-layered geologic system with resistivities between 4.0 and 470 Ohm-m with occasional areas up to 2,301 Ohm-m (**Figure 7**). Please keep in mind when viewing the 2D inverted resistivity sections that color maps can be widely different for each view. Always check the color map located on the right side of the image when viewing the 2D images to ensure you understand the range of resistivities presented. Distances along the top and depths along the left side are in meters. The color map along the right side is in Ohm-m. Due to the nature of the survey, shallower zones have higher resolution between electrodes than deeper zones; therefore, small features at depth will not be visible.

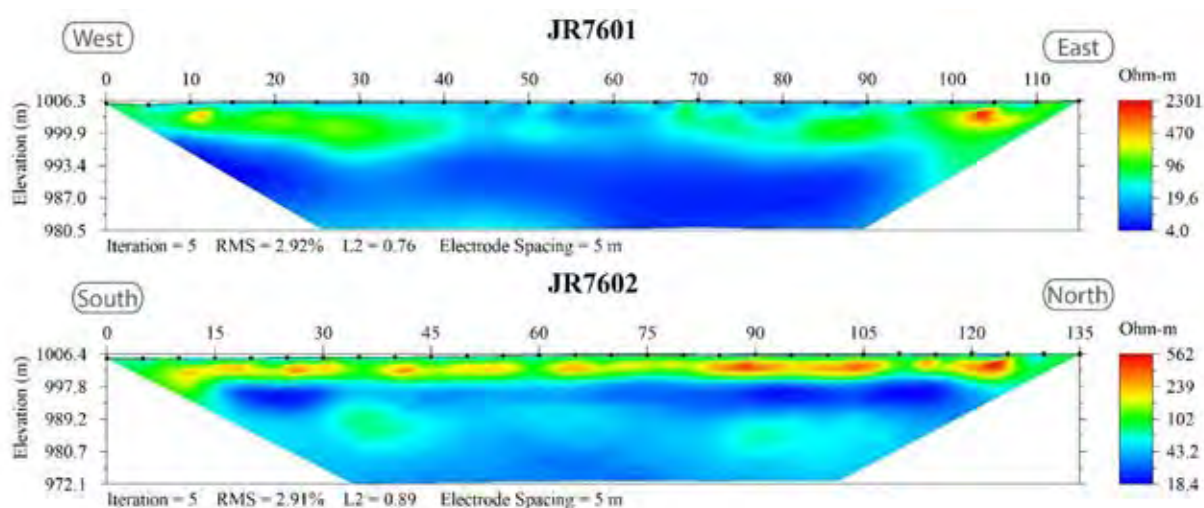


Figure 7: 2D inverted resistivity section. Reds and oranges indicate higher resistivity values. Yellows and greens are medium-resistivity values. Blues are low-resistivity values. Please note that the color scale is relative.

4.0 DISCUSSION

No surface karst features and no anomalies consistent with air-filled subsurface voids are found within the JR76 survey area. However, small solutionally enlarged voids or fractures at or near the resolution limit of the survey (2.5 – 3.0 meters) may be present. Areas of higher resistivity (reds, yellows, and greens) near the surface are interpreted as dry gypsite soils and gypsum or dolomite bedrock of the Rustler Formation^[17] (**Figure 7** and **Figure 8**). Very low-resistivity areas between 4.0 – 15 Ohm-m may either a layer of either clays and halite lenses or moist or saturated layers within the Rustler Formation (**Figure 7**).

Please remember that these are interpretations made from knowledge of the local subsurface materials and experience. **They remain interpretations until verified by geotechnical methods.** Employing a BLM-CFO approved karst monitor on site during any drilling and/or remediation activities that require excavation below four feet in depth should be considered.

Fracture sets within the subsurface can act as hydrologic pathways to the water table. Rapid dissolution of gypsum can occur along these pathways creating solution-enlarged fractures, and in some cases, voids within months to years. For this reason, this survey is valid only for this remediation event.



Figure 8: Data overlay. Colored trapezoids are the 2D inverted resistivity lines. Background image credit: Google Earth. Image date: April 2, 2023.

Within karst terrains like the project site, small air- or sediment-filled voids and/or brecciated zones and solutionally enlarged fractures that are below the resolution limit of the survey (2.5–3.0 meters) may exist; these may be encountered during excavation, and if so, should be evaluated by a karst specialist prior to continued work.

5.0 SUMMARY

- **The JR76 survey contains no surface karst features within 200 feet (61 meters) of the spill delineation boundary.**
- **No shallow anomalies interpreted as large voids or related karst features that would present a danger to equipment operators are located within the geophysical survey area.**
- Intercepting a void during remediation is unlikely, but still possible. Small voids or solutionally enlarged fractures below the resolution limit of the survey may be encountered.
- **Well-layered stratigraphy is interpreted to exist beneath the geophysical survey lines indicating stable ground in the area of the subsurface investigation.**
- When conducting any remediation activities in this area, employing a BLM-CFO approved karst monitor on site should be considered.

6.0 DISCLOSURE STATEMENT

Karst occurrence zones are prone to rapid karst formation and warrant careful planning and engineering to mitigate karst-forming processes that could be accelerated by removal of surface cover or the vibrations associated with heavy equipment used in the remediation process.

Mitigation measures for any karst features revealed during excavation shall be approved by the Bureau of Land Management – Carlsbad Field Office and follow the Natural Resources Conservation Service Conservation Practice Standard for Karst Sinkhole Treatment, Code 527, or the Bureau of Land Management Cave and Karst Management Handbook, H-8380-1.

Vigilance during remediation activities is paramount. If voids are encountered during excavation, contact the Bureau of Land Management Karst Division at (575) 234-5972, the New Mexico State Land Office Surface Resources Division at (505) 827-5768, or a BLM-CFO approved karst contractor and request an on-site investigation from a karst expert if one is not already on site. A karst consultant can generally be available in Eddy County within five hours.

Approved karst monitors should have karst feature identification training, at least two years of supervised experience identifying karst features, wilderness first aid training, SRT training, confined space training, gas monitor training, and a minimum of SPAR cave rescue training through NCRC. They should have with them the proper gear and be prepared both physically and mentally to enter a collapse feature within minutes to perform a rescue if needed. Monitoring services with qualified karst monitors, as well as cave surveys and geophysical surveys, are available from Southwest Geophysical Consulting.

Under no circumstances should an untrained, inexperienced person enter a cave, pit, sinkhole, or collapse feature. All field employees of Southwest Geophysical Consulting have extensive caving experience and the ability to determine whether entry into a karst feature is safe or presents a hazard. In the event it is necessary to enter a karst feature, Southwest Geophysical Consulting can provide these services on request.

Cave and karst resource inventory reports, karst feature investigations, and geophysical reports (along with the associated data files) commissioned at the request of the land manager should be submitted to BLM-CFO at blm_nm_karst@blm.gov.

Cave and karst resource inventory reports for the NMSLO should be submitted to the respective project manager.

Environmental karst reports should be submitted to the appropriate project manager at the New Mexico Oil Conservation Division.

7.0 REFERENCES

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- 16 Whitehead, W., Bandy, M. & Decker, D. Protocol for Using UAV Photography for Rapid Assessment of Karst Features in Southeast New Mexico. *Proceedings of the 2022 Cave and Karst Management Symposium* (2022).
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8.0 GLOSSARY OF TERMS

AGI	Advanced Geosciences Inc.
BLM-CFO	Bureau of Land Management - Carlsbad Field Office
brecciated	Fractured rock caused by faulting or collapse.
caprock-collapse sinkhole	Collapse of roof-spanning rock into a cave or void.
cave	Natural opening at the surface large enough for a person to enter.
cover-collapse sinkhole	Collapse of roof-spanning soil or clay ground cover into a subsurface void.
ERI	Electrical Resistivity Imaging
GPS	Global Positioning System
grike	A solutionally enlarged, vertical, or sub-vertical joint or fracture.
(H)	High confidence modifier for a PKF. This is typically reserved for a feature that is definitely karst but has not been confirmed in the field.
HKOZ	High Karst Occurrence Zone
karst	A landscape containing solutional features such as caves, sinkholes, swallets, and springs.
(L)	Low confidence modifier for a PKF. This is typically a feature that cannot be ruled out as karst but is most likely NOT karst related. This modifier may also be used for pseudokarst features.
(M)	Medium confidence modifier for PKF. This is an ambiguous feature that can't be positively identified as karst without a field visit (e.g., burrows, abandoned unlined wells, solution tubes, pseudokarst).
MKOZ	Medium Karst Occurrence Zone
NCRC	National Cave Rescue Commission
NKF	Non-karst feature. Used for features originally identified as PKF that have been subsequently identified in the field as non-karst related. This term may also be used for pseudokarst features.
NMSLO	New Mexico State Land Office
Ohm-m	Ohm-meter, a unit of measurement for resistivity. Sometimes abbreviated Ω -m.
paleokarst	Previously formed karst features that have been filled in by erosion and/or deposition of minerals.
Pat	Permian Artesia Group
Pc	Permian Capitan Formation
Pcs	Permian Castile Formation
Pdl	Permian Dewey Lake Formation
PKF	Possible karst feature. This term is reserved for features identified in satellite or aerial imagery that have NOT been visited in the

	field. Further modifiers include (H) for high confidence, (M) for medium confidence, and (L) for low confidence. These confidence levels are based on field experience.
PLSS	Public Land Survey System
Pqg	Permian Queen/Greyburg Formation
Pru	Permian Rustler Formation
pseudokarst	Karst-like features (sinkholes, conduits, voids etc.) that are not formed by dissolution. These types of features include soil piping, lava tubes, and some cover-collapse and suffosion sinkholes.
Psl	Permian Salado Formation
Psr	Permian Seven Rivers Formation
Pt	Permian Tansill Formation
Py	Permian Yates Formation
Qal	Quaternary alluvium
Qe	Quaternary eolian deposits
Qp	Quaternary piedmont deposits
Qpl	Quaternary playa lake deposits
RKF	Recognized karst feature. This term is reserved for karst features that have been physically verified in the field.
SPAR	Small Party Assisted Rescue
sUAS	Small, uncrewed aerial system
suffosion sinkhole	Raveling of soil into a pre-existing void or fracture.
swallet	A natural opening in the surface, too small for a person, that drains water to an aquifer. Some are "open," meaning a void can be seen below; some are "closed," meaning they are full of sediment.
SWG	Southwest Geophysical Consulting, LLC
UTM	Universal Transverse Mercator (projected coordinates)
(V)	Field verified modifier for a RKF. This indicates that the feature has been visited by a qualified karst professional in the field and fully identified
WGS	World Geodetic System (geographic coordinates)

9.0 ATTESTATION

David D. Decker, PhD, PG, CPG

Chief Executive Officer, Principal Geologist

Southwest Geophysical Consulting, LLC

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Albuquerque, NM 87114

dave@swgeophys.com

(505) 585-2550

CERTIFICATE OF AUTHOR

I, David D. Decker, a Licensed Professional Geologist and a Certified Professional Geologist, do certify that:

- I am currently employed as a consulting geologist in the specialty of caves and karst with an office address of 5117 Fairfax Dr. NW, Albuquerque, NM, USA, 87114.
- I graduated with a Master of Science in Applied Physics with a specialization in Sensor Systems from the Naval Post Graduate School in Monterey, California, in 2003, and a Doctor of Philosophy in Earth and Planetary Sciences from the University of New Mexico, Albuquerque, New Mexico, in 2018.
- I am a Licensed Professional Geologist in the State of Texas, USA (PG-15242) and have been since 2021. I am a Certified Professional Geologist through the American Institute of Professional Geologists (CPG-12123) and have been since 2021.
- I have been employed as a geologist continuously since 2016. I was previously employed as a Fire Controlman, Naval Flight Officer, and Aerospace Engineering Duty Officer in the U.S. Navy and operated, maintained, and installed various sensor systems including magnetic, electromagnetic, radar, communications, and acoustic systems in various capacities from 1986 through 2010.
- I have been involved in various aspects of cave and karst studies continuously since 1985, including exploration, mapping, and scientific studies.
- I have read the definition of “qualified karst professional” set out in the ASTM Standard Practice for Preliminary Karst Terrain Assessment for Site Development (ASTM E-1527). I meet the definition of “qualified professional” for the purposes of this standard.
- I am responsible for the content, compilation, and editing of all sections of report number ENS-021-20250813 entitled, “Environmental Karst Study Report, James Ranch Unit 76, Eddy County, New Mexico.” I or a duly authorized and qualified representative of Southwest Geophysical Consulting, LLC, have personally visited this site and/or reviewed the aerial imagery on the date or dates mentioned in section **2.3 Description of Survey**.

- I have no prior involvement nor monetary interest in the described property or project, save for my fee for conducting this investigation and providing the report.

Dated in Albuquerque, New Mexico, September 30, 2025.



David D. Decker
PhD, CPG-12123





APPENDIX C

Photographic Log



Photographic Log
 XTO Energy, Inc.
 JRJ 76
 Eddy County, New Mexico



Photograph: 1 Date: 7/14/2025
 Description: Initial assessment, surface staining on the pad surface near the wellhead
 View: Northwest



Photograph: 2 Date: 7/14/2025
 Description: Saturated release area on pad surface
 View: Northwest



Photograph: 3 Date: 7/14/2025
 Description: Initial assessment, overspray extent in the pasture
 View: Southwest



Photograph: 4 Date: 7/14/2025
 Description: Overspray extent in the pasture
 View: Northwest



Photographic Log
XTO Energy, Inc.
JRU 76
Eddy County, New Mexico



Photograph: 5 Date: 7/29/2025
Description: Delineation activities near SS01
View: Southeast



Photograph: 6 Date: 8/7/2025
Description: Additional delineation activities near SS01/PH01
View: North



Photograph: 7 Date: 8/8/2025
Description: Delineation activities near SS04/PH02
View: Southeast



Photograph: 8 Date: 8/14/2022
Description: Surface scraping along pad boundary near CS04, CS03, CS10, CS55, CS09
View: Southeast



Photographic Log
XTO Energy, Inc.
JRU 76
Eddy County, New Mexico



Photograph: 9 Date: 8/8/2025
Description: Surface scraping activities on pad near CS49, CS18, CS19, CS50, CS15
View: North



Photograph: 10 Date: 8/14/2025
Description: Composite sampling activities in the pasture near CS89
View: South



Photograph: 11 Date: 8/15/2025
Description: Composite soil sampling activities near CS38, CS33, CS34
View: Southwest



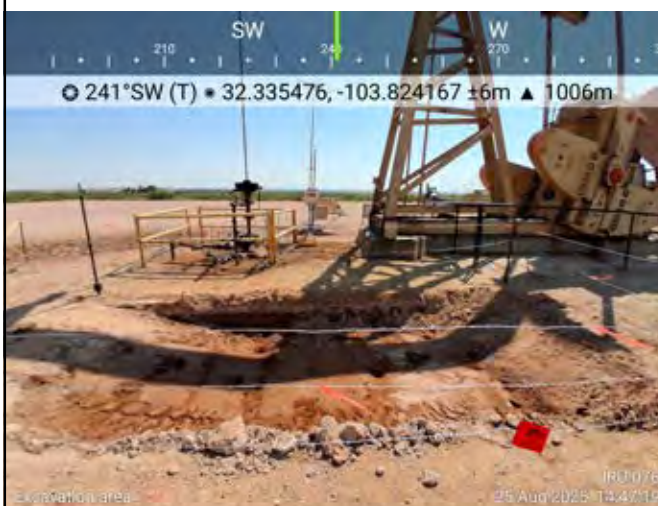
Photograph: 12 Date: 8/25/2025
Description: Excavation activities near FS01 and SW01
View: Northeast



Photographic Log
XTO Energy, Inc.
JRU 76
Eddy County, New Mexico



Photograph: 13 Date: 8/25/2025
Description: Excavation activities near FS02 and SW02
View: West



Photograph: 14 Date: 8/25/2025
Description: Excavation activities near FS02 and SW02
View: Southwest



Photograph: 15 Date: 9/9/2024
Description: Karst survey activities
View: West



Photograph: 16 Date: 10/2/2025
Description: Excavation activities near FS03 and SW03
View: East



APPENDIX D

Lithologic / Soil Sampling Logs

								Sample Name: SS01 / PH01		Date: 08-07-2025					
								Site Name: JRU 76							
								Incident Number: nAPP2519735457							
								Job Number: 03C1558702							
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Trevor Wargo		Method: Trackhoe					
Coordinates: 32.335633, -103.824679								Hole Diameter: 3ft		Total Depth: 4ft					
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 for chlorides is included.															
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions							
Dry	2385	1.1	N	SS01	0.5	0	CALICHE	(0-0.5') CALICHE. Light brown. Uniform. Fine. No odor, no staining.							
Dry	789	0.3	N	PH01	1	1	SC	(0.5-3') CLAYEY SAND. Red-Brown. Poorly sorted. No odor, no staining.							
Dry	856	0.0	N	PH01A	2	2									
Dry	856	0.1	N	PH01B	3	3									
Dry	453	0.1	N	PH01C	4	4	CALICHE	(3-4') CALICHE. White. Poorly sorted. No odor, no staining.							
Total Depth @ 4 Feet															

 ENSOLUM		Sample Name: SS04 / PH02		Date: 08-08-2025				
		Site Name: JRU 76						
		Incident Number: nAPP2519735457						
		Job Number: 03C1558702						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.3356398, -103.8243773				Hole Diameter: 3ft				
				Method: Trackhoe				
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 for chlorides is included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
Dry	3.7	593	N	SS04	0.5	0	CALICHE	(0-0.5) CALICHE. Light brown. Uniform. Fine. No odor, no staining.
Dry	1108	0.4	N	PH02	1	1		
Dry	1108	0.3	N	PH02A	2	2	SC	(0.5-3') CLAYEY SAND. Red-Brown. Poorly sorted. No odor, no staining.
Dry	1198	0.3	N	PH02B	3	3		
Dry	515	0.2	N	PH02C	4	4	CALICHE	(3-4') CALICHE. White. Poorly sorted. No odor, no staining.
Total Depth @ 4 Feet								



APPENDIX E

NMNMOCDCorrespondence

From: [Rodgers, Scott, EMNRD](#)
To: [Woodall, Robert D](#)
Cc: [Tacoma Morrissey](#); [Tracy Hillard](#); [Joey Pinson](#); [Jeremy Reich](#); [Ben Belill](#)
Subject: RE: [EXTERNAL] Sampling Variance Request - JRU #076
Date: Thursday, October 9, 2025 11:02:28 AM
Attachments: [image008.png](#)
[image009.png](#)
[image010.png](#)
[image011.png](#)
[image012.png](#)

Some people who received this message don't often get email from scott.rodgers@emnrd.nm.gov. [Learn why this is important](#)

[**EXTERNAL EMAIL**]

Good morning Mr. Woodall,

The alternative confirmation sampling plan taking confirmation samples of no more than 400 square feet is approved. The acceptance of this alternative sampling plan 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; or if the location fails to revegetate properly. In addition, OCD approval does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations. If the applicable land managing agency does not agree and requires a more stringent sampling plan, the more stringent requirements must be met regardless of OCD's approval.

Thank you,
Scott

Scott Rodgers • Environmental Specialist – Adv.
Environmental Bureau
EMNRD - Oil Conservation Division
5200 Oakland NE, Suite B | Albuquerque, NM 87113
505.469.1830 | scott.rodgers@emnrd.nm.gov
<http://www.emnrd.nm.gov/oce>



From: Woodall, Robert D <robert.d.woodall@exxonmobil.com>
Sent: Wednesday, October 8, 2025 8:39 AM
To: Rodgers, Scott, EMNRD <Scott.Rodgers@emnrd.nm.gov>
Cc: Tacoma Morrissey <tmorrissey@ensolum.com>; Tracy Hillard <thillard@ensolum.com>; Joey Pinson <jpinson@ensolum.com>; Jeremy Reich <jreich@ensolum.com>; bbelill@ensolum.com

Subject: [EXTERNAL] Sampling Variance Request - JRU #076

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Scott:

Based on your August 5, 2025 response from the requested sampling variance for a release at the James Ranch Unit #076 Site (Incident Number nAPP2519735457), a karst survey was conducted by Southwest Geophysical Consulting on September 26, 2025, and confirmed that the JRU #76 Site does not contain any surface karst features within 200 feet of the spill delineation boundary and that no shallow anomalies, large voids, or karst features that would present danger to equipment were located within the area surveyed. The full karst survey report is attached.

With the additional data provided will you please consider approval of a variance of the sampling frequency from the required 200 square feet to 400 square feet in the overspray area?

Appendices:

Figure 1	Site Receptor Map
Figure 2	Sample Grid – 200 sq ft
Figure 3	Variance Sample Grid – 200 & 400 sq ft
Appendix A	NMOCD Correspondence
Appendix B	Karst Survey Report
Appendix C	Well Report and Log (pending drillers signature)

Please let me know what you think and let me know if you have any questions or need more information.

R. Dale Woodall

Project Manager

ExxonMobil Environmental and Property Solutions Company

3104 E. Greene St.

Carlsbad, NM 88220

Cell Phone: 575-988-4374

Robert.D.Woodall@exxonmobil.com

From: Ben Belill <bbelill@ensolum.com>

Sent: Wednesday, October 8, 2025 8:26 AM

To: Woodall, Robert D <robert.d.woodall@exxonmobil.com>

Cc: Tacoma Morrissey <tmorrissey@ensolum.com>; Tracy Hillard <thillard@ensolum.com>; Joey Pinson <jpinson@ensolum.com>; Jeremy Reich <jreich@ensolum.com>

Subject: RE: [EXTERNAL] Fwd: Sampling Variance Request - JRU #076

Good morning Dale, we'd like to get this confirmation sampling variance confirmed before we send the report over to OCD next week. Could you reply to Scott Rodgers' August 5, 2025 email with the appendices attached and what I have in blue below? Let us know if you have any questions.

Thanks,

Good morning Mr. Rodgers,

Based on your August 5, 2025 response from the requested sampling variance for a release at the James Ranch Unit #076 Site (Incident Number nAPP2519735457), a karst survey was conducted by Southwest Geophysical Consulting on September 26, 2025, and confirmed that the JRU #76 Site does not contain any surface karst features within 200 feet of the spill delineation boundary and that no shallow anomalies, large voids, or karst features that would present danger to equipment were located within the area surveyed. The full karst survey report is attached.

With the additional data provided will you please consider approval of a variance of the sampling frequency from the required 200 square feet to 400 square feet in the overspray area?

Appendices:

Figure 1	Site Receptor Map
Figure 2	Sample Grid – 200 sq ft
Figure 3	Variance Sample Grid – 200 & 400 sq ft
Appendix A	NMOCD Correspondence
Appendix B	Karst Survey Report
Appendix C	Well Report and Log (pending drillers signature)

Thanks,



Benjamin Belill

Senior Geologist

989-854-0852

Ensolum, LLC

in f 

From: Woodall, Robert D <robert.d.woodall@exxonmobil.com>

Sent: Tuesday, August 5, 2025 8:06 PM

To: Ben Belill <bbelill@ensolum.com>; Tacoma Morrissey <tmorrissey@ensolum.com>; Tracy Hillard

<thillard@ensolum.com>; Brown, Colton S <colton.s.brown@exxonmobil.com>; Dirkx, Kaylan <kaylan.dirkx@exxonmobil.com>; Ruth, Amy <amy.ruth@exxonmobil.com>; McAfee, Ashley A <ashley.a.mcafee@exxonmobil.com>

Subject: Fwd: [EXTERNAL] Fwd: Sampling Variance Request - JRU #076

[**EXTERNAL EMAIL**]

R. Dale Woodall
Water Coordinator

EXXONMOBIL Upstream Company
3104 E Greene Street
Carlsbad, NM 88240
Cell Phone: 575-988-4374
Robert.D.Woodall@exxonmobil.com

Begin forwarded message:

From: "Rodgers, Scott, EMNRD" <Scott.Rodgers@emnrd.nm.gov>
Date: August 5, 2025 at 3:38:39 PM MDT
To: "Woodall, Robert D" <robert.d.woodall@exxonmobil.com>
Subject: RE: [EXTERNAL] Fwd: Sampling Variance Request - JRU #076

Good afternoon Mr. Woodall,

The sampling variance request for incident nAPP2519735457 is denied due to the medium karst designation. The OCD considers Medium/High/Critical Karst areas as an "Unstable area" pursuant to 19.15.2.7.U.(6) and as such cannot be considered for a sampling variance request. OCD Karst determination is based on available data, such as BLM's online mapping tool.

The operator may choose to have karst surveys performed, by a BLM approved karst/cave contractor, in order to determine if karst features are present at the site. A desktop survey, aerial/pedestrian survey, AND a geophysical survey must be performed. If no karst features are located during any of the surveys AND the geophysical survey shows no other indications of unstable ground, the closure criteria can be based on Table I Closure criteria found in 19.15.29 NMAC and sampling variances may be considered. Sites located on BLM or State Land Office

(SLO) owned surface will need surface owner approval.

Thank you,
Scott

Scott Rodgers • Environmental Specialist – Adv.
Environmental Bureau
EMNRD - Oil Conservation Division
5200 Oakland NE, Suite B | Albuquerque, NM 87113
505.469.1830 | scott.rodgers@emnrd.nm.gov
<http://www.emnrd.nm.gov/ocd>



From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Monday, August 4, 2025 7:07 AM
To: Rodgers, Scott, EMNRD <Scott.Rodgers@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: FW: [EXTERNAL] Fwd: Sampling Variance Request - JRU #076

From: Woodall, Robert D <robert.d.woodall@exxonmobil.com>
Sent: Friday, August 1, 2025 5:53 PM
To: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Enviro, OCD, EMNRD <OCD.Enviro20@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Subject: [EXTERNAL] Fwd: Sampling Variance Request - JRU #076

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Please find the attachments for this request at the following link:
[James Ranch Unit #076_Sampling Variance Packet.pdf](#)

Good Afternoon,

XTO is requesting a variance request for frequency of confirmation

soil sampling for a release at the at the James Ranch Unit #076 Site (Incident Number nAPP2519735457). Please see the attached Site Receptor Map (Figure 1) and supporting documentation for your review and consideration of a sampling frequency variance at the subject Site. On July 13, 2025, a blow out occurred at the Site releasing crude oil (2 BBL), produced water (3 BBL), and natural gas (195 Mcf). It was reported and assigned Incident Number nAPP2519735457. The release resulted in a saturated area impacted by pooled fluids on the pad (approximately 770 square feet) and an area of overspray (approximately 29,390 square feet).

Groundwater well MW-01 authorized under well permit C-4325 POD 4 was advanced to 150 feet bgs on May 19, 2019, and is within a 0.5-mile radius of the site. The well was dry following a 72-hour period; therefore, groundwater was confirmed to be greater than 100 feet bgs. Additionally, groundwater well USGS321946103492001 is within a 0.5-mile radius of the site and reported a depth to water of approximately 145 feet bgs in 1959. In 2013, it was re-gauged and reported dry. The well was installed at a depth of 180 feet bgs; therefore, groundwater is confirmed to be greater than 100 feet bgs.

The Site is in a medium karst potential area, but is not within concernable proximity to any significant watercourses, lakes, wetlands, public drinking wells, municipal dwellings, or within the 100-ft floodplain. In order to be protective of the vegetation in the overspray area XTO requests a variance for sampling frequency of confirmation soil samples impacted by overspray outside of the initial release area and in the pasture. XTO proposes to collect five-point composite samples at a sampling frequency of every 400 square feet within the overspray area to assess for the presence or absence of impacts to soil in the overspray area. Since the overspray impacted area is approximately 29,390 square feet, the proposed sampling frequency is estimated to reduce the total number of confirmation soil samples from 147 samples to approximately 74 samples (Figures 2 and 3), thus minimizing disturbance of the vegetation. The 5-point composite samples will be collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. The confirmation soil samples will be submitted to a New Mexico approved laboratory for analysis of the following contaminants of concern (COC): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA

Method 8015M/D; and chloride following Standard Method SM4500.

Please see the attached figures with results of the desktop Site Characterization. There are no sensitive receptors at the Site, the Site is not within a 100-year floodplain, or in an area with a high-karst designation. The Site is located in a medium potential karst designation so confirmation samples would still be collected at the standard of one per 200 square feet in any area requiring excavation to ensure impacts are removed (Figure 3). Also attached is the well record and permit for MW-01 for the nearest depth to groundwater gauging source deeper than 100 feet bgs and located within 0.5 miles of the Site. The groundwater well was gauged and reported as dry in 2019.

Two figures showing the difference between the 200 square foot sampling grid(Figure 2) and the requested 400 square foot sampling variance (Figure 3) are appended to this request. The quantity of anticipated samples, 74, will be sufficient to determine the presence or absence of residual contaminants while minimizing vegetation disturbance.

Confirmation soil samples will be collected on pad, and in any areas requiring excavation, at the 200 square foot sampling frequency as the Site is in a medium karst potential designated area. As such, we believe the sampling variance poses no additional risk to fresh water, public health, and the environment.

With the additional data provided will you please consider approval of a variance of the sampling frequency from the required 200 square feet to 400 square feet in the overspray area?

R. Dale Woodall
Water Coordinator

EXXONMOBIL Upstream Company
3104 E Greene Street
Carlsbad, NM 88240
Cell Phone: 575-988-4374
Robert.D.Woodall@exxonmobil.com

Begin forwarded message:

From: Ashley Holmes <aholmes@ensolum.com>
Date: August 1, 2025 at 2:31:49 PM MDT
To: "Woodall, Robert D" <robert.d.woodall@exxonmobil.com>
Cc: Tacoma Morrissey <tmorrissey@ensolum.com>, "Mcafee, Ashley A" <ashley.a.mcafee@exxonmobil.com>, Ben Belill <bbelill@ensolum.com>, Tracy Hillard <thillard@ensolum.com>, "Brown, Colton S" <colton.s.brown@exxonmobil.com>
Subject: Sampling Variance Request - JRU #076

Please find the attachments for this request at the following link:
[James Ranch Unit #076_Sampling Variance Packet.pdf](#)

Good Afternoon,

XTO is requesting a variance request for frequency of confirmation soil sampling for a release at the at the James Ranch Unit #076 Site (Incident Number nAPP2519735457). Please see the attached Site Receptor Map (Figure 1) and supporting documentation for your review and consideration of a sampling frequency variance at the subject Site. On July 13, 2025, a blow out occurred at the Site releasing crude oil (2 BBL), produced water (3 BBL), and natural gas (195 Mcf). It was reported and assigned Incident Number nAPP2519735457. The release resulted in a saturated area impacted by pooled fluids on the pad (approximately 770 square feet) and an area of overspray (approximately 29,390 square feet).

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The Site is in a medium karst potential area, but is not within concernable proximity to any significant watercourses, lakes,

wetlands, public drinking wells, municipal dwellings, or within the 100-ft floodplain. In order to be protective of the vegetation in the overspray area XTO requests a variance for sampling frequency of confirmation soil samples impacted by overspray outside of the initial release area and in the pasture. XTO proposes to collect five-point composite samples at a sampling frequency of every 400 square feet within the overspray area to assess for the presence or absence of impacts to soil in the overspray area. Since the overspray impacted area is approximately 29,390 square feet, the proposed sampling frequency is estimated to reduce the total number of confirmation soil samples from 147 samples to approximately 74 samples (Figures 2 and 3), thus minimizing disturbance of the vegetation. The 5-point composite samples will be collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. The confirmation soil samples will be submitted to a New Mexico approved laboratory for analysis of the following contaminants of concern (COC): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standard Method SM4500.

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Confirmation soil samples will be collected on pad, and in any areas requiring excavation, at the 200 square foot sampling frequency as the Site is in a medium karst potential designated area. As such, we

believe the sampling variance poses no additional risk to fresh water, public health, and the environment.

With the additional data provided will you please consider approval of a variance of the sampling frequency from the required 200 square feet to 400 square feet in the overspray area?

Thank you,
Ashley



Ashley Holmes, PG

Senior Geologist

713-817-1947

[Ensolum, LLC](#)





APPENDIX F

Laboratory Analytical Reports & Chain-of-Custody Documentation

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

August 11, 2025

ASHLEY HOLMES
ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND, TX 79705

RE: JRU 76 - SPILL

Enclosed are the results of analyses for samples received by the laboratory on 07/31/25 13:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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



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

Analytical Results For:ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705Project: JRU 76 - SPILL
Project Number: 03C1558702
Project Manager: ASHLEY HOLMES
Fax To:Reported:
11-Aug-25 08:34

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01 0.5'	H254661-01	Soil	29-Jul-25 09:29	31-Jul-25 13:40
SS02 0.5'	H254661-02	Soil	29-Jul-25 09:31	31-Jul-25 13:40
SS03 0.5'	H254661-03	Soil	29-Jul-25 09:52	31-Jul-25 13:40
SS04 0.5'	H254661-04	Soil	29-Jul-25 09:56	31-Jul-25 13:40
SS05 0.5'	H254661-05	Soil	29-Jul-25 11:11	31-Jul-25 13:40
SS06 0.5'	H254661-06	Soil	29-Jul-25 10:43	31-Jul-25 13:40
SS07 0.5'	H254661-07	Soil	29-Jul-25 11:14	31-Jul-25 13:40
SS08 0.5'	H254661-08	Soil	29-Jul-25 11:37	31-Jul-25 13:40

08/11/25 - Client changed the depths on all samples (see COC). This is the revised report and will replace the one sent on 08/06/25.

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705

Project: JRU 76 - SPILL
Project Number: 03C1558702
Project Manager: ASHLEY HOLMES
Fax To:

Reported:
11-Aug-25 08:34

SS01 0.5'
H254661-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	992		16.0	mg/kg	4	5080409	AC	04-Aug-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5073130	JH	04-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5073130	JH	04-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5073130	JH	04-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5073130	JH	04-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5073130	JH	04-Aug-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134 5073130 JH 04-Aug-25 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5073139	MS	04-Aug-25	8015B	
DRO >C10-C28*	140		10.0	mg/kg	1	5073139	MS	04-Aug-25	8015B	
EXT DRO >C28-C36	29.9		10.0	mg/kg	1	5073139	MS	04-Aug-25	8015B	

Surrogate: 1-Chlorooctane 86.7 % 44.4-145 5073139 MS 04-Aug-25 8015B

Surrogate: 1-Chlorooctadecane 94.2 % 40.6-153 5073139 MS 04-Aug-25 8015B

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705

Project: JRU 76 - SPILL
Project Number: 03C1558702
Project Manager: ASHLEY HOLMES
Fax To:

Reported:
11-Aug-25 08:34

SS02 0.5'
H254661-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	5080409	AC	04-Aug-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5073130	JH	04-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5073130	JH	04-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5073130	JH	04-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5073130	JH	04-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5073130	JH	04-Aug-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			112 %	71.5-134		5073130	JH	04-Aug-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5073139	MS	04-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5073139	MS	04-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5073139	MS	04-Aug-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			93.0 %	44.4-145		5073139	MS	04-Aug-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			94.4 %	40.6-153		5073139	MS	04-Aug-25	8015B	
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Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705

Project: JRU 76 - SPILL
Project Number: 03C1558702
Project Manager: ASHLEY HOLMES
Fax To:

Reported:
11-Aug-25 08:34

SS03 0.5'
H254661-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories**Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	5080409	AC	04-Aug-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5073133	JH	04-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5073133	JH	04-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5073133	JH	04-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5073133	JH	04-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5073133	JH	04-Aug-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			103 %	71.5-134		5073133	JH	04-Aug-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5073139	MS	04-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5073139	MS	04-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5073139	MS	04-Aug-25	8015B	

Surrogate: 1-Chlorooctane			94.4 %	44.4-145		5073139	MS	04-Aug-25	8015B	
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Surrogate: 1-Chlorooctadecane			96.1 %	40.6-153		5073139	MS	04-Aug-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705

Project: JRU 76 - SPILL
Project Number: 03C1558702
Project Manager: ASHLEY HOLMES
Fax To:

Reported:
11-Aug-25 08:34

SS04 0.5'
H254661-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	560		16.0	mg/kg	4	5080409	AC	04-Aug-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5073133	JH	04-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5073133	JH	04-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5073133	JH	04-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5073133	JH	04-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5073133	JH	04-Aug-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			103 %	71.5-134		5073133	JH	04-Aug-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5073139	MS	04-Aug-25	8015B	
DRO >C10-C28*	3580		10.0	mg/kg	1	5073139	MS	04-Aug-25	8015B	
EXT DRO >C28-C36	729		10.0	mg/kg	1	5073139	MS	04-Aug-25	8015B	

Surrogate: 1-Chlorooctane			83.0 %	44.4-145		5073139	MS	04-Aug-25	8015B	
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Surrogate: 1-Chlorooctadecane			125 %	40.6-153		5073139	MS	04-Aug-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705

Project: JRU 76 - SPILL
Project Number: 03C1558702
Project Manager: ASHLEY HOLMES
Fax To:

Reported:
11-Aug-25 08:34

SS05 0.5'
H254661-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	160		16.0	mg/kg	4	5080409	AC	04-Aug-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5073133	JH	04-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5073133	JH	04-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5073133	JH	04-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5073133	JH	04-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5073133	JH	04-Aug-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			103 %	71.5-134		5073133	JH	04-Aug-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5073139	MS	05-Aug-25	8015B	
DRO >C10-C28*	19.7		10.0	mg/kg	1	5073139	MS	05-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5073139	MS	05-Aug-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			96.1 %	44.4-145		5073139	MS	05-Aug-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			99.0 %	40.6-153		5073139	MS	05-Aug-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705

Project: JRU 76 - SPILL
Project Number: 03C1558702
Project Manager: ASHLEY HOLMES
Fax To:

Reported:
11-Aug-25 08:34

SS06 0.5'
H254661-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	64.0		16.0	mg/kg	4	5080409	AC	04-Aug-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5073133	JH	04-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5073133	JH	04-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5073133	JH	04-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5073133	JH	04-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5073133	JH	04-Aug-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			102 %	71.5-134		5073133	JH	04-Aug-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5073139	MS	04-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5073139	MS	04-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5073139	MS	04-Aug-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			83.7 %	44.4-145		5073139	MS	04-Aug-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			86.3 %	40.6-153		5073139	MS	04-Aug-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705

Project: JRU 76 - SPILL
Project Number: 03C1558702
Project Manager: ASHLEY HOLMES
Fax To:

Reported:
11-Aug-25 08:34

SS07 0.5'
H254661-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	16.0		16.0	mg/kg	4	5080409	AC	04-Aug-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5073133	JH	04-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5073133	JH	04-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5073133	JH	04-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5073133	JH	04-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5073133	JH	04-Aug-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			102 %	71.5-134		5073133	JH	04-Aug-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5073139	MS	04-Aug-25	8015B	
DRO >C10-C28*	49.1		10.0	mg/kg	1	5073139	MS	04-Aug-25	8015B	
EXT DRO >C28-C36	12.2		10.0	mg/kg	1	5073139	MS	04-Aug-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			74.7 %	44.4-145		5073139	MS	04-Aug-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			78.3 %	40.6-153		5073139	MS	04-Aug-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705

Project: JRU 76 - SPILL
Project Number: 03C1558702
Project Manager: ASHLEY HOLMES
Fax To:

Reported:
11-Aug-25 08:34

SS08 0.5'
H254661-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	5080409	AC	04-Aug-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5073133	JH	04-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5073133	JH	04-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5073133	JH	04-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5073133	JH	04-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5073133	JH	04-Aug-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			99.8 %		71.5-134	5073133	JH	04-Aug-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5073139	MS	04-Aug-25	8015B	
DRO >C10-C28*	34.9		10.0	mg/kg	1	5073139	MS	04-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5073139	MS	04-Aug-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			69.0 %		44.4-145	5073139	MS	04-Aug-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			72.1 %		40.6-153	5073139	MS	04-Aug-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705

Project: JRU 76 - SPILL
Project Number: 03C1558702
Project Manager: ASHLEY HOLMES
Fax To:

Reported:
11-Aug-25 08:34

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5080409 - 1:4 DI Water										
Blank (5080409-BLK1)										
					Prepared & Analyzed: 04-Aug-25					
Chloride	ND	16.0	mg/kg							
LCS (5080409-BS1)										
					Prepared & Analyzed: 04-Aug-25					
Chloride	480	16.0	mg/kg	400		120	80-120			
LCS Dup (5080409-BSD1)										
					Prepared & Analyzed: 04-Aug-25					
Chloride	480	16.0	mg/kg	400		120	80-120	0.00	20	

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Analytical Results For:

ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705

Project: JRJ 76 - SPILL
Project Number: 03C1558702
Project Manager: ASHLEY HOLMES
Fax To:

Reported:
11-Aug-25 08:34

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5073130 - Volatiles**Blank (5073130-BLK1)**

Prepared: 31-Jul-25 Analyzed: 04-Aug-25

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0557		mg/kg	0.0500		111	71.5-134			

LCS (5073130-BS1)

Prepared: 31-Jul-25 Analyzed: 04-Aug-25

Benzene	1.79	0.050	mg/kg	2.00		89.5	76.3-129			
Toluene	1.85	0.050	mg/kg	2.00		92.6	84.1-129			
Ethylbenzene	1.86	0.050	mg/kg	2.00		92.9	80.1-133			
m,p-Xylene	3.74	0.100	mg/kg	4.00		93.4	81.4-134			
o-Xylene	1.86	0.050	mg/kg	2.00		93.0	81.4-133			
Total Xylenes	5.60	0.150	mg/kg	6.00		93.3	81.5-134			
Surrogate: 4-Bromofluorobenzene (PID)	0.0493		mg/kg	0.0500		98.5	71.5-134			

LCS Dup (5073130-BSD1)

Prepared: 31-Jul-25 Analyzed: 04-Aug-25

Benzene	1.68	0.050	mg/kg	2.00		84.0	76.3-129	6.38	15.8	
Toluene	1.79	0.050	mg/kg	2.00		89.5	84.1-129	3.39	15.9	
Ethylbenzene	1.83	0.050	mg/kg	2.00		91.4	80.1-133	1.69	16	
m,p-Xylene	3.71	0.100	mg/kg	4.00		92.9	81.4-134	0.600	16.2	
o-Xylene	1.83	0.050	mg/kg	2.00		91.5	81.4-133	1.61	16.7	
Total Xylenes	5.54	0.150	mg/kg	6.00		92.4	81.5-134	0.933	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0508		mg/kg	0.0500		102	71.5-134			

Batch 5073133 - Volatiles**Blank (5073133-BLK1)**

Prepared: 31-Jul-25 Analyzed: 04-Aug-25

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705

Project: JRU 76 - SPILL
Project Number: 03C1558702
Project Manager: ASHLEY HOLMES
Fax To:

Reported:
11-Aug-25 08:34

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5073133 - Volatiles**Blank (5073133-BLK1)**

Prepared: 31-Jul-25 Analyzed: 04-Aug-25

Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0514		mg/kg	0.0500		103	71.5-134			

LCS (5073133-BS1)

Prepared: 31-Jul-25 Analyzed: 04-Aug-25

Benzene	1.75	0.050	mg/kg	2.00		87.5	76.3-129			
Toluene	1.81	0.050	mg/kg	2.00		90.6	84.1-129			
Ethylbenzene	1.84	0.050	mg/kg	2.00		92.2	80.1-133			
m,p-Xylene	3.76	0.100	mg/kg	4.00		94.1	81.4-134			
o-Xylene	1.86	0.050	mg/kg	2.00		93.2	81.4-133			
Total Xylenes	5.63	0.150	mg/kg	6.00		93.8	81.5-134			
Surrogate: 4-Bromofluorobenzene (PID)	0.0495		mg/kg	0.0500		98.9	71.5-134			

LCS Dup (5073133-BS1)

Prepared: 31-Jul-25 Analyzed: 04-Aug-25

Benzene	1.70	0.050	mg/kg	2.00		84.9	76.3-129	3.03	15.8	
Toluene	1.77	0.050	mg/kg	2.00		88.6	84.1-129	2.16	15.9	
Ethylbenzene	1.83	0.050	mg/kg	2.00		91.5	80.1-133	0.797	16	
m,p-Xylene	3.73	0.100	mg/kg	4.00		93.4	81.4-134	0.724	16.2	
o-Xylene	1.86	0.050	mg/kg	2.00		92.9	81.4-133	0.317	16.7	
Total Xylenes	5.59	0.150	mg/kg	6.00		93.2	81.5-134	0.589	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0499		mg/kg	0.0500		99.8	71.5-134			

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705

Project: JRU 76 - SPILL
Project Number: 03C1558702
Project Manager: ASHLEY HOLMES
Fax To:

Reported:
11-Aug-25 08:34

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	----------------	-----	--------------	-------

Batch 5073139 - General Prep - Organics**Blank (5073139-BLK1)**

Prepared: 31-Jul-25 Analyzed: 04-Aug-25

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	42.1		mg/kg	50.0		84.3	44.4-145		
Surrogate: 1-Chlorooctadecane	41.0		mg/kg	50.0		82.1	40.6-153		

LCS (5073139-BS1)

Prepared: 31-Jul-25 Analyzed: 04-Aug-25

GRO C6-C10	186	10.0	mg/kg	200		92.9	81.5-123		
DRO >C10-C28	204	10.0	mg/kg	200		102	77.7-122		
Total TPH C6-C28	390	10.0	mg/kg	400		97.5	80.9-121		
Surrogate: 1-Chlorooctane	48.0		mg/kg	50.0		96.1	44.4-145		
Surrogate: 1-Chlorooctadecane	48.1		mg/kg	50.0		96.2	40.6-153		

LCS Dup (5073139-BSD1)

Prepared: 31-Jul-25 Analyzed: 04-Aug-25

GRO C6-C10	175	10.0	mg/kg	200		87.6	81.5-123	5.93	13
DRO >C10-C28	190	10.0	mg/kg	200		94.9	77.7-122	7.38	15.6
Total TPH C6-C28	365	10.0	mg/kg	400		91.2	80.9-121	6.69	18.5
Surrogate: 1-Chlorooctane	45.4		mg/kg	50.0		90.8	44.4-145		
Surrogate: 1-Chlorooctadecane	45.2		mg/kg	50.0		90.5	40.6-153		

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Celey D. Keene, Lab Director/Quality Manager

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

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC

Project Manager: Ashley Holmes

Address: 601 N Marlenfeld Street, Suite 400

City: Midland

State: TX Zip: 79701

Phone #: (713) 817-1147 Fax #:

Project #: 03C1558702 Project Owner: XTO Energy

Project Name: JRU 76 - SPILLS

Project Location: 32.335517, -103.824353

Sampler Name: Trevor Wargo

BILL TO

ANALYSIS REQUEST

P.O. #:

Company: XTO Energy, Inc

Attn: Colton Brown

Address: 3104 E Greene St

City: Carlsbad

State: NM Zip: 88220

Phone #:

Fax #:

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

Depth (feet)

Has4461

SSO 1

0.5

(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

Relinquished By:

Date: 7/31/25

Received By:

Verbal Result: ☐ Yes ☐ No

Add'l Phone #:

All Results are emailed. Please provide Email address:

4H Holmes@ensolum.com

8/8/25

Relinquished By:

Date: 7/31/25

Received By:

Verbal Result: ☐ Yes ☐ No

Add'l Phone #:

All Results are emailed. Please provide Email address:

4H Holmes@ensolum.com

8/8/25

Delivered By: (Circle One)

O.....T.....C.....

Sample Condition

CHECKED BY:

Turnaround Time:

Standard

☒

Bacteria (only)

☐

Cool Intact

☐

Sample Condition

Observed Temp. °C

Corrected Temp. °C

Sampler - UPS - Bus - Other:

Corrected Temp. °C

Cool Intact

CHECKED BY:

Turnaround Time:

Standard

☒

Bacteria (only)

☐

Cool Intact

☐

Sample Condition

Observed Temp. °C

Corrected Temp. °C

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



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

August 28, 2025

ASHLEY HOLMES

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: JRU 76 - SPILL

Enclosed are the results of analyses for samples received by the laboratory on 08/26/25 14:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 ASHLEY HOLMES
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 08/26/2025
 Reported: 08/28/2025
 Project Name: JRU 76 - SPILL
 Project Number: 03C1558702
 Project Location: XTO 32.335517-103.824353

Sampling Date: 08/25/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 01 1 (H255299-01)

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	08/27/2025	ND	1.95	97.5	2.00	3.22	
Toluene*	<0.050	0.050	08/27/2025	ND	2.02	101	2.00	4.03	
Ethylbenzene*	<0.050	0.050	08/27/2025	ND	2.03	101	2.00	4.39	
Total Xylenes*	<0.150	0.150	08/27/2025	ND	6.02	100	6.00	4.77	
Total BTEX	<0.300	0.300	08/27/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	576	16.0	08/27/2025	ND	432	108	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	08/27/2025	ND	207	103	200	0.0628	
DRO >C10-C28*	<10.0	10.0	08/27/2025	ND	208	104	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	08/27/2025	ND					

Surrogate: 1-Chlorooctane 102 % 44.4-145

Surrogate: 1-Chlorooctadecane 104 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 ASHLEY HOLMES
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 08/26/2025
 Reported: 08/28/2025
 Project Name: JRU 76 - SPILL
 Project Number: 03C1558702
 Project Location: XTO 32.335517-103.824353

Sampling Date: 08/25/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 01 0-1 (H255299-02)

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	08/27/2025	ND	1.95	97.5	2.00	3.22		
Toluene*	<0.050	0.050	08/27/2025	ND	2.02	101	2.00	4.03		
Ethylbenzene*	<0.050	0.050	08/27/2025	ND	2.03	101	2.00	4.39		
Total Xylenes*	<0.150	0.150	08/27/2025	ND	6.02	100	6.00	4.77		
Total BTEx	<0.300	0.300	08/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	08/27/2025	ND	432	108	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	08/27/2025	ND	207	103	200	0.0628	
DRO >C10-C28*	49.9	10.0	08/27/2025	ND	208	104	200	1.80	
EXT DRO >C28-C36	10.4	10.0	08/27/2025	ND					

Surrogate: 1-Chlorooctane 97.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 98.9 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 ASHLEY HOLMES
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 08/26/2025
 Reported: 08/28/2025
 Project Name: JRU 76 - SPILL
 Project Number: 03C1558702
 Project Location: XTO 32.335517-103.824353

Sampling Date: 08/25/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 02 2 (H255299-03)

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	08/27/2025	ND	1.95	97.5	2.00	3.22		
Toluene*	<0.050	0.050	08/27/2025	ND	2.02	101	2.00	4.03		
Ethylbenzene*	<0.050	0.050	08/27/2025	ND	2.03	101	2.00	4.39		
Total Xylenes*	<0.150	0.150	08/27/2025	ND	6.02	100	6.00	4.77		
Total BTEx	<0.300	0.300	08/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	08/27/2025	ND	432	108	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	08/27/2025	ND	207	103	200	0.0628	
DRO >C10-C28*	<10.0	10.0	08/27/2025	ND	208	104	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	08/27/2025	ND					

Surrogate: 1-Chlorooctane 107 % 44.4-145

Surrogate: 1-Chlorooctadecane 107 % 40.6-153

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 ASHLEY HOLMES
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 08/26/2025
 Reported: 08/28/2025
 Project Name: JRU 76 - SPILL
 Project Number: 03C1558702
 Project Location: XTO 32.335517-103.824353

Sampling Date: 08/25/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 02 0-2 (H255299-04)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/27/2025	ND	1.95	97.5	2.00	3.22		
Toluene*	<0.050	0.050	08/27/2025	ND	2.02	101	2.00	4.03		
Ethylbenzene*	<0.050	0.050	08/27/2025	ND	2.03	101	2.00	4.39		
Total Xylenes*	<0.150	0.150	08/27/2025	ND	6.02	100	6.00	4.77		
Total BTX	<0.300	0.300	08/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	896	16.0	08/27/2025	ND	432	108	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	08/27/2025	ND	207	103	200	0.0628	
DRO >C10-C28*	11.5	10.0	08/27/2025	ND	208	104	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	08/27/2025	ND					

Surrogate: 1-Chlorooctane 97.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 99.4 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

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

Celey D. Keene, Lab Director/Quality Manager



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

October 03, 2025

JEREMY REICH

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: JRU #076

Enclosed are the results of analyses for samples received by the laboratory on 10/02/25 11:39.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Mike Snyder", is written over a light blue horizontal line.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	10/02/2025	Sampling Date:	10/02/2025
Reported:	10/03/2025	Sampling Type:	Soil
Project Name:	JRU #076	Sampling Condition:	Cool & Intact
Project Number:	03C1558702	Sample Received By:	Tamara Oldaker
Project Location:	32.335517, -103.824353		

Sample ID: FS 03 2' (H256165-01)

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	10/02/2025	ND	1.89	94.3	2.00	9.43		
Toluene*	<0.050	0.050	10/02/2025	ND	1.77	88.5	2.00	7.14		
Ethylbenzene*	<0.050	0.050	10/02/2025	ND	1.84	92.1	2.00	3.79		
Total Xylenes*	<0.150	0.150	10/02/2025	ND	5.60	93.3	6.00	3.82		
Total BTEx	<0.300	0.300	10/02/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1880	16.0	10/02/2025	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2025	ND	222	111	200	7.59	
DRO >C10-C28*	227	10.0	10/02/2025	ND	222	111	200	2.14	
EXT DRO >C28-C36	42.9	10.0	10/02/2025	ND					

Surrogate: 1-Chlorooctane 90.3 % 52.4-130

Surrogate: 1-Chlorooctadecane 93.0 % 39.9-141

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	10/02/2025	Sampling Date:	10/02/2025
Reported:	10/03/2025	Sampling Type:	Soil
Project Name:	JRU #076	Sampling Condition:	Cool & Intact
Project Number:	03C1558702	Sample Received By:	Tamara Oldaker
Project Location:	32.335517, -103.824353		

Sample ID: SW 03 0-2' (H256165-02)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/02/2025	ND	1.89	94.3	2.00	9.43		
Toluene*	<0.050	0.050	10/02/2025	ND	1.77	88.5	2.00	7.14		
Ethylbenzene*	<0.050	0.050	10/02/2025	ND	1.84	92.1	2.00	3.79		
Total Xylenes*	<0.150	0.150	10/02/2025	ND	5.60	93.3	6.00	3.82		
Total BTX	<0.300	0.300	10/02/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.5 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1260	16.0	10/02/2025	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2025	ND	220	110	200	2.44	
DRO >C10-C28*	55.7	10.0	10/02/2025	ND	211	106	200	1.05	
EXT DRO >C28-C36	10.6	10.0	10/02/2025	ND					

Surrogate: 1-Chlorooctane 109 % 52.4-130

Surrogate: 1-Chlorooctadecane 107 % 39.9-141

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "Mike Snyder", is written over a light blue horizontal line.

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 5 of 5



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

October 06, 2025

JEREMY REICH

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: JRU 76 - SPILL

Enclosed are the results of analyses for samples received by the laboratory on 10/03/25 11:43.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
JEREMY REICH
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received: 10/03/2025
Reported: 10/06/2025
Project Name: JRU 76 - SPILL
Project Number: 03C1558702
Project Location: XTO 32.335517-103.824353

Sampling Date: 10/02/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SS14 SURFACE (H256187-01)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/03/2025	ND	1.66	83.2	2.00	7.62		
Toluene*	<0.050	0.050	10/03/2025	ND	1.70	85.0	2.00	7.43		
Ethylbenzene*	<0.050	0.050	10/03/2025	ND	1.68	83.9	2.00	8.24		
Total Xylenes*	<0.150	0.150	10/03/2025	ND	4.91	81.8	6.00	8.28		
Total BTX	<0.300	0.300	10/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.6 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	10/06/2025	ND	432	108	400	0.00		

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	10/03/2025	ND	221	111	200	3.67	
DRO >C10-C28*	<10.0	10.0	10/03/2025	ND	220	110	200	1.77	
EXT DRO >C28-C36	<10.0	10.0	10/03/2025	ND					

Surrogate: 1-Chlorooctane 81.5 % 52.4-130

Surrogate: 1-Chlorooctadecane 80.2 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 JEREMY REICH
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 10/03/2025
 Reported: 10/06/2025
 Project Name: JRU 76 - SPILL
 Project Number: 03C1558702
 Project Location: XTO 32.335517-103.824353

Sampling Date: 10/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SS15 SURFACE (H256187-02)

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	10/03/2025	ND	1.66	83.2	2.00	7.62		
Toluene*	<0.050	0.050	10/03/2025	ND	1.70	85.0	2.00	7.43		
Ethylbenzene*	<0.050	0.050	10/03/2025	ND	1.68	83.9	2.00	8.24		
Total Xylenes*	<0.150	0.150	10/03/2025	ND	4.91	81.8	6.00	8.28		
Total BTEX	<0.300	0.300	10/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.7 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	10/06/2025	ND	432	108	400	0.00	

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	10/03/2025	ND	221	111	200	3.67	
DRO >C10-C28*	179	10.0	10/03/2025	ND	220	110	200	1.77	
EXT DRO >C28-C36	119	10.0	10/03/2025	ND					

Surrogate: 1-Chlorooctane 79.0 % 52.4-130

Surrogate: 1-Chlorooctadecane 77.2 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 JEREMY REICH
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 10/03/2025
 Reported: 10/06/2025
 Project Name: JRU 76 - SPILL
 Project Number: 03C1558702
 Project Location: XTO 32.335517-103.824353

Sampling Date: 10/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SS16 SURFACE (H256187-03)

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	10/03/2025	ND	1.66	83.2	2.00	7.62		
Toluene*	<0.050	0.050	10/03/2025	ND	1.70	85.0	2.00	7.43		
Ethylbenzene*	<0.050	0.050	10/03/2025	ND	1.68	83.9	2.00	8.24		
Total Xylenes*	<0.150	0.150	10/03/2025	ND	4.91	81.8	6.00	8.28		
Total BTEX	<0.300	0.300	10/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.1 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1120	16.0	10/06/2025	ND	432	108	400	0.00		

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	10/03/2025	ND	221	111	200	3.67	
DRO >C10-C28*	95.1	10.0	10/03/2025	ND	220	110	200	1.77	
EXT DRO >C28-C36	32.4	10.0	10/03/2025	ND					

Surrogate: 1-Chlorooctane 78.9 % 52.4-130

Surrogate: 1-Chlorooctadecane 78.5 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 JEREMY REICH
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 10/03/2025
 Reported: 10/06/2025
 Project Name: JRU 76 - SPILL
 Project Number: 03C1558702
 Project Location: XTO 32.335517-103.824353

Sampling Date: 10/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SS17 SURFACE (H256187-04)

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	10/03/2025	ND	1.66	83.2	2.00	7.62		
Toluene*	<0.050	0.050	10/03/2025	ND	1.70	85.0	2.00	7.43		
Ethylbenzene*	<0.050	0.050	10/03/2025	ND	1.68	83.9	2.00	8.24		
Total Xylenes*	<0.150	0.150	10/03/2025	ND	4.91	81.8	6.00	8.28		
Total BTEX	<0.300	0.300	10/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.8 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	10/06/2025	ND	432	108	400	0.00		

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	10/03/2025	ND	221	111	200	3.67	
DRO >C10-C28*	22.1	10.0	10/03/2025	ND	220	110	200	1.77	
EXT DRO >C28-C36	<10.0	10.0	10/03/2025	ND					

Surrogate: 1-Chlorooctane 75.4 % 52.4-130

Surrogate: 1-Chlorooctadecane 73.0 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
JEREMY REICH
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received: 10/03/2025
Reported: 10/06/2025
Project Name: JRU 76 - SPILL
Project Number: 03C1558702
Project Location: XTO 32.335517-103.824353

Sampling Date: 10/02/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SS18 SURFACE (H256187-05)

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	10/03/2025	ND	1.66	83.2	2.00	7.62		
Toluene*	<0.050	0.050	10/03/2025	ND	1.70	85.0	2.00	7.43		
Ethylbenzene*	<0.050	0.050	10/03/2025	ND	1.68	83.9	2.00	8.24		
Total Xylenes*	<0.150	0.150	10/03/2025	ND	4.91	81.8	6.00	8.28		
Total BTEX	<0.300	0.300	10/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.2 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	10/06/2025	ND	432	108	400	0.00	

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	10/03/2025	ND	221	111	200	3.67	
DRO >C10-C28*	851	10.0	10/03/2025	ND	220	110	200	1.77	
EXT DRO >C28-C36	323	10.0	10/03/2025	ND					

Surrogate: 1-Chlorooctane 70.5 % 52.4-130

Surrogate: 1-Chlorooctadecane 87.8 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 JEREMY REICH
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 10/03/2025
 Reported: 10/06/2025
 Project Name: JRU 76 - SPILL
 Project Number: 03C1558702
 Project Location: XTO 32.335517-103.824353

Sampling Date: 10/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SS19 SURFACE (H256187-06)

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	10/03/2025	ND	1.66	83.2	2.00	7.62		
Toluene*	<0.050	0.050	10/03/2025	ND	1.70	85.0	2.00	7.43		
Ethylbenzene*	<0.050	0.050	10/03/2025	ND	1.68	83.9	2.00	8.24		
Total Xylenes*	<0.150	0.150	10/03/2025	ND	4.91	81.8	6.00	8.28		
Total BTEX	<0.300	0.300	10/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.4 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	10/06/2025	ND	432	108	400	0.00		

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	10/04/2025	ND	191	95.7	200	2.77	
DRO >C10-C28*	<10.0	10.0	10/04/2025	ND	215	107	200	4.29	
EXT DRO >C28-C36	<10.0	10.0	10/04/2025	ND					

Surrogate: 1-Chlorooctane 83.0 % 52.4-130

Surrogate: 1-Chlorooctadecane 80.6 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a light blue horizontal line.

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC

Project Manager: Jeremy Reich

Address: 601 N Marientfield Street, Suite 400

City: Midland

State: TX Zip: 79701

Phone #: (432) 296-0627

Fax #:

Project #: 03C1558702

Project Owner: XTO Energy

Project Name: JRU #076

- SPILLS

Project Location: 32.335517, -103.824353

Sampler Name: Trevor Wargo

BILL TO

P.O. #:

Company: XTO Energy, Inc

Attn:

Date: Woodall

Address: 3104 E Greene St

City: Carlsbad

State: NM Zip: 88220

Phone #:

Fax #:

ANALYSIS REQUEST

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX				DATE	TIME	ANALYSIS REQUEST			
					GROUNDWATER	WASTEWATER	SOIL	OIL			TPH 8015	BTEX 8021	Chloride 4500	
10/13/25	SS14	Surface		1					10/13/25	14:06				
	SS15			1					14:21					
	SS16			1					14:51					
	SS17			1					14:41					
	SS18			1					14:53					
	SS19			1					15:06					

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Relinquished By:

Date: 10/13/25

Received By:

Verbal Result: ☐ Yes ☒ No Add'l Phone #:

Relinquished By:

Date: 10/13/25

Received By:

All Results are emailed. Please provide Email address: JReich@ensolum.com
BReich@ensolum.com, TMoresey@ensolum.com, TThillier@ensolum.com, KThomson@ensolum.com, twargo@ensolum.com

REMARKS: Incident Number: NAPP2519735457

Cost Center: 1137051001

GFCM: 48605000

Turnaround Time: Standard

24h

Thermometer ID: 1137051001

Corrected Temp: 3.4

Corrected Temp: 3.4

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Corrected Temp: 3.4



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Ashley Holmes
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 8/12/2025 4:38:36 PM

JOB DESCRIPTION

JRU 076
03C1558702

JOB NUMBER

890-8607-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220



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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8/12/2025 4:38:36 PM

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

Client: Ensolum
Project/Site: JRU 076

Laboratory Job ID: 890-8607-1
SDG: 03C1558702

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Definitions/Glossary

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8607-1
SDG: 03C1558702

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
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: JRU 076

Job ID: 890-8607-1

Job ID: 890-8607-1

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Job Narrative 890-8607-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 8/8/2025 4:54 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 6.0°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: PH 01 (890-8607-1) and PH 01A (890-8607-2).

GC VOA

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

Diesel Range Organics

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-116429 and analytical batch 880-116451 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: PH 01 (890-8607-1). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (880-60970-A-34-B MDLV). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8607-1
SDG: 03C1558702

Client Sample ID: PH 01

Lab Sample ID: 890-8607-1

Date Collected: 08/07/25 13:53

Matrix: Solid

Date Received: 08/08/25 16:54

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		08/11/25 11:39	08/12/25 05:40	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/11/25 11:39	08/12/25 05:40	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/11/25 11:39	08/12/25 05:40	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		08/11/25 11:39	08/12/25 05:40	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/11/25 11:39	08/12/25 05:40	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		08/11/25 11:39	08/12/25 05:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	08/11/25 11:39	08/12/25 05:40	1
1,4-Difluorobenzene (Surr)	88		70 - 130	08/11/25 11:39	08/12/25 05:40	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			08/12/25 05:40	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			08/12/25 09:30	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	<50.0	U	50.0	mg/Kg		08/12/25 07:43	08/12/25 09:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/12/25 07:43	08/12/25 09:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/12/25 07:43	08/12/25 09:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130	08/12/25 07:43	08/12/25 09:30	1
o-Terphenyl	61	S1-	70 - 130	08/12/25 07:43	08/12/25 09:30	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	686		9.90	mg/Kg			08/12/25 09:50	1

Client Sample ID: PH 01A

Lab Sample ID: 890-8607-2

Date Collected: 08/07/25 14:07

Matrix: Solid

Date Received: 08/08/25 16:54

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		08/11/25 11:39	08/12/25 06:00	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/11/25 11:39	08/12/25 06:00	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/11/25 11:39	08/12/25 06:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/11/25 11:39	08/12/25 06:00	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/11/25 11:39	08/12/25 06:00	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/11/25 11:39	08/12/25 06:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	08/11/25 11:39	08/12/25 06:00	1
1,4-Difluorobenzene (Surr)	93		70 - 130	08/11/25 11:39	08/12/25 06:00	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8607-1
SDG: 03C1558702

Client Sample ID: PH 01A

Lab Sample ID: 890-8607-2

Date Collected: 08/07/25 14:07

Matrix: Solid

Date Received: 08/08/25 16:54

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			08/12/25 06:00	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			08/12/25 10:16	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/12/25 07:43	08/12/25 10:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/12/25 07:43	08/12/25 10:16	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/12/25 07:43	08/12/25 10:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130	08/12/25 07:43	08/12/25 10:16	1
o-Terphenyl	74		70 - 130	08/12/25 07:43	08/12/25 10:16	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	346		10.1	mg/Kg			08/12/25 09:56	1

Surrogate Summary

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8607-1
SDG: 03C1558702

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)
880-61318-A-1-C MS	Matrix Spike	110	95
880-61318-A-1-D MSD	Matrix Spike Duplicate	117	92
890-8607-1	PH 01	114	88
890-8607-2	PH 01A	115	93
LCS 880-116346/1-A	Lab Control Sample	115	92
LCSD 880-116346/2-A	Lab Control Sample Dup	115	96
MB 880-116320/5-A	Method Blank	113	82
MB 880-116346/5-A	Method Blank	108	88
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-8607-1	PH 01	73	61 S1-
890-8607-1 MS	PH 01	83	76
890-8607-1 MSD	PH 01	101	79
890-8607-2	PH 01A	88	74
LCS 880-116429/2-A	Lab Control Sample	121	124
LCSD 880-116429/3-A	Lab Control Sample Dup	121	124
MB 880-116429/1-A	Method Blank	134 S1+	127
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8607-1
SDG: 03C1558702

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-116320/5-A

Matrix: Solid

Analysis Batch: 116315

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 116320

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/11/25 09:15	08/11/25 11:39	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/11/25 09:15	08/11/25 11:39	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/11/25 09:15	08/11/25 11:39	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/11/25 09:15	08/11/25 11:39	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/11/25 09:15	08/11/25 11:39	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/11/25 09:15	08/11/25 11:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	08/11/25 09:15	08/11/25 11:39	1
1,4-Difluorobenzene (Surr)	82		70 - 130	08/11/25 09:15	08/11/25 11:39	1

Lab Sample ID: MB 880-116346/5-A

Matrix: Solid

Analysis Batch: 116315

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 116346

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/11/25 11:39	08/11/25 22:37	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/11/25 11:39	08/11/25 22:37	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/11/25 11:39	08/11/25 22:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/11/25 11:39	08/11/25 22:37	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/11/25 11:39	08/11/25 22:37	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/11/25 11:39	08/11/25 22:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	08/11/25 11:39	08/11/25 22:37	1
1,4-Difluorobenzene (Surr)	88		70 - 130	08/11/25 11:39	08/11/25 22:37	1

Lab Sample ID: LCS 880-116346/1-A

Matrix: Solid

Analysis Batch: 116315

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 116346

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1058		mg/Kg		106	70 - 130
Toluene	0.100	0.09668		mg/Kg		97	70 - 130
Ethylbenzene	0.100	0.1094		mg/Kg		109	70 - 130
m-Xylene & p-Xylene	0.200	0.2127		mg/Kg		106	70 - 130
o-Xylene	0.100	0.1067		mg/Kg		107	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: LCSD 880-116346/2-A

Matrix: Solid

Analysis Batch: 116315

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 116346

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1040		mg/Kg		104	70 - 130	2	35

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QC Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8607-1
SDG: 03C1558702

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

Lab Sample ID: LCSD 880-116346/2-A

Matrix: Solid

Analysis Batch: 116315

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 116346

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.09885		mg/Kg		99	70 - 130	2	35
Ethylbenzene	0.100	0.1127		mg/Kg		113	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2202		mg/Kg		110	70 - 130	3	35
o-Xylene	0.100	0.1109		mg/Kg		111	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 880-61318-A-1-C MS

Matrix: Solid

Analysis Batch: 116315

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 116346

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.09576		mg/Kg		96	70 - 130
Toluene	<0.00200	U	0.100	0.08498		mg/Kg		85	70 - 130
Ethylbenzene	<0.00200	U	0.100	0.09536		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1838		mg/Kg		92	70 - 130
o-Xylene	<0.00200	U	0.100	0.09141		mg/Kg		91	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 880-61318-A-1-D MSD

Matrix: Solid

Analysis Batch: 116315

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 116346

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.08732		mg/Kg		87	70 - 130	9	35
Toluene	<0.00200	U	0.100	0.07994		mg/Kg		80	70 - 130	6	35
Ethylbenzene	<0.00200	U	0.100	0.08838		mg/Kg		88	70 - 130	8	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1713		mg/Kg		86	70 - 130	7	35
o-Xylene	<0.00200	U	0.100	0.08386		mg/Kg		84	70 - 130	9	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

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

Lab Sample ID: MB 880-116429/1-A

Matrix: Solid

Analysis Batch: 116451

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 116429

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		08/12/25 07:43	08/12/25 04:36	1

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8607-1
SDG: 03C1558702

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

Lab Sample ID: MB 880-116429/1-A

Matrix: Solid

Analysis Batch: 116451

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 116429

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		08/12/25 07:43	08/12/25 04:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/12/25 07:43	08/12/25 04:36	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	134	S1+	70 - 130			08/12/25 07:43	08/12/25 04:36	1
o-Terphenyl	127		70 - 130			08/12/25 07:43	08/12/25 04:36	1

Lab Sample ID: LCS 880-116429/2-A

Matrix: Solid

Analysis Batch: 116451

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 116429

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1096		mg/Kg		110	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1028		mg/Kg		103	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	121		70 - 130				
o-Terphenyl	124		70 - 130				

Lab Sample ID: LCSD 880-116429/3-A

Matrix: Solid

Analysis Batch: 116451

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 116429

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1109		mg/Kg		111	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	1030		mg/Kg		103	70 - 130	0	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	121		70 - 130						
o-Terphenyl	124		70 - 130						

Lab Sample ID: 890-8607-1 MS

Matrix: Solid

Analysis Batch: 116451

Client Sample ID: PH 01

Prep Type: Total/NA

Prep Batch: 116429

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	996	831.9		mg/Kg		84	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	996	749.5		mg/Kg		73	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	83		70 - 130						
o-Terphenyl	76		70 - 130						

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8607-1
SDG: 03C1558702

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

Lab Sample ID: 890-8607-1 MSD

Matrix: Solid

Analysis Batch: 116451

Client Sample ID: PH 01

Prep Type: Total/NA

Prep Batch: 116429

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	996	844.4		mg/Kg		85	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.0	U	996	749.9		mg/Kg		73	70 - 130	0	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	101		70 - 130								
o-Terphenyl	79		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-116440/1-A

Matrix: Solid

Analysis Batch: 116454

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0	mg/Kg			08/12/25 09:07	1

Lab Sample ID: LCS 880-116440/2-A

Matrix: Solid

Analysis Batch: 116454

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	233.1		mg/Kg		93	90 - 110

Lab Sample ID: LCSD 880-116440/3-A

Matrix: Solid

Analysis Batch: 116454

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	228.4		mg/Kg		91	90 - 110	2	20

Lab Sample ID: 880-61303-A-6-B MS

Matrix: Solid

Analysis Batch: 116454

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1050		253	1283	4	mg/Kg		92	90 - 110

Lab Sample ID: 880-61303-A-6-C MSD

Matrix: Solid

Analysis Batch: 116454

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1050		253	1279	4	mg/Kg		91	90 - 110	0	20

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QC Association Summary

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8607-1
SDG: 03C1558702

GC VOA

Analysis Batch: 116315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8607-1	PH 01	Total/NA	Solid	8021B	116346
890-8607-2	PH 01A	Total/NA	Solid	8021B	116346
MB 880-116320/5-A	Method Blank	Total/NA	Solid	8021B	116320
MB 880-116346/5-A	Method Blank	Total/NA	Solid	8021B	116346
LCS 880-116346/1-A	Lab Control Sample	Total/NA	Solid	8021B	116346
LCSD 880-116346/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	116346
880-61318-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	116346
880-61318-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	116346

Prep Batch: 116320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-116320/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 116346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8607-1	PH 01	Total/NA	Solid	5035	
890-8607-2	PH 01A	Total/NA	Solid	5035	
MB 880-116346/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-116346/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-116346/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-61318-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
880-61318-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 116477

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8607-1	PH 01	Total/NA	Solid	Total BTEX	
890-8607-2	PH 01A	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 116429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8607-1	PH 01	Total/NA	Solid	8015NM Prep	
890-8607-2	PH 01A	Total/NA	Solid	8015NM Prep	
MB 880-116429/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-116429/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-116429/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8607-1 MS	PH 01	Total/NA	Solid	8015NM Prep	
890-8607-1 MSD	PH 01	Total/NA	Solid	8015NM Prep	

Analysis Batch: 116451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8607-1	PH 01	Total/NA	Solid	8015B NM	116429
890-8607-2	PH 01A	Total/NA	Solid	8015B NM	116429
MB 880-116429/1-A	Method Blank	Total/NA	Solid	8015B NM	116429
LCS 880-116429/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	116429
LCSD 880-116429/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	116429
890-8607-1 MS	PH 01	Total/NA	Solid	8015B NM	116429
890-8607-1 MSD	PH 01	Total/NA	Solid	8015B NM	116429

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QC Association Summary

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8607-1
SDG: 03C1558702

GC Semi VOA

Analysis Batch: 116548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8607-1	PH 01	Total/NA	Solid	8015 NM	
890-8607-2	PH 01A	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 116440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8607-1	PH 01	Soluble	Solid	DI Leach	
890-8607-2	PH 01A	Soluble	Solid	DI Leach	
MB 880-116440/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-116440/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-116440/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-61303-A-6-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-61303-A-6-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 116454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8607-1	PH 01	Soluble	Solid	300.0	116440
890-8607-2	PH 01A	Soluble	Solid	300.0	116440
MB 880-116440/1-A	Method Blank	Soluble	Solid	300.0	116440
LCS 880-116440/2-A	Lab Control Sample	Soluble	Solid	300.0	116440
LCSD 880-116440/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	116440
880-61303-A-6-B MS	Matrix Spike	Soluble	Solid	300.0	116440
880-61303-A-6-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	116440

Lab Chronicle

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8607-1
SDG: 03C1558702

Client Sample ID: PH 01
Date Collected: 08/07/25 13:53
Date Received: 08/08/25 16:54

Lab Sample ID: 890-8607-1
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	116346	08/11/25 11:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116315	08/12/25 05:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116477	08/12/25 05:40	SA	EET MID
Total/NA	Analysis	8015 NM		1			116548	08/12/25 09:30	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	116429	08/12/25 07:43	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116451	08/12/25 09:30	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	116440	08/12/25 08:19	SI	EET MID
Soluble	Analysis	300.0		1			116454	08/12/25 09:50	CS	EET MID

Client Sample ID: PH 01A
Date Collected: 08/07/25 14:07
Date Received: 08/08/25 16:54

Lab Sample ID: 890-8607-2
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			5.00 g	5 mL	116346	08/11/25 11:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116315	08/12/25 06:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116477	08/12/25 06:00	SA	EET MID
Total/NA	Analysis	8015 NM		1			116548	08/12/25 10:16	SA	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	116429	08/12/25 07:43	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116451	08/12/25 10:16	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	116440	08/12/25 08:19	SI	EET MID
Soluble	Analysis	300.0		1			116454	08/12/25 09:56	CS	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: JRU 076

Job ID: 890-8607-1
SDG: 03C1558702

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	06-30-26
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: JRU 076

Job ID: 890-8607-1
SDG: 03C1558702

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: JRU 076

Job ID: 890-8607-1
SDG: 03C1558702

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
890-8607-1	PH 01	Solid	08/07/25 13:53	08/08/25 16:54	New Mexico
890-8607-2	PH 01A	Solid	08/07/25 14:07	08/08/25 16:54	New Mexico

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Environment Testing

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 505-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Chain of Custody

Work Order No:

Page 1 of 1
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Project Manager:	ASHLEY ADAMS	Bill to: (if different)	ATO Energy, Inc.
Company Name:	Enscum	Company Name:	4
Address:	3122 National Parks Hwy	Address:	3104 E Greenc St.
City, State ZIP:	Carlsbad NM 88220	City, State ZIP:	Carlsbad NM 88220
Phone:	(433) 817-1947	Email:	ADAMS@ENSUM.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:		IRU 346		Turn Around																							
Project Number:		83C1558702		☐ Routine ☒ Rush		Pres. Code																					
Project Location:		323651710382453		Due Date:		6/8/12																					
Sample's Name:		T2001 20430		TAT starts the day received by the lab, if received by 4:30pm																							
PO #:																											
SAMPLE RECEIPT		Temp Blank:		Yes ☒ No ☐		(Yes) No																					
Samples Received Inact:		Yes ☐ No ☒		Thermometer ID:		(A9007)																					
Cooler Custody Seals:		Yes ☐ No ☒		Correction Factor:		-0.2																					
Sample Custody Seals:		Yes ☐ No ☒		Temperature Reading:		6.2																					
Total Containers:				Corrected Temperature:		6.0																					
				Parameters																							
Barcode 4560																											
H 805																											
2x 5021																											
																											
890-8607 Chain of Custody																											
<table border="1"> <thead> <tr> <th colspan="2">Preservative Codes</th> </tr> </thead> <tbody> <tr> <td>None: NO</td> <td>DI Water: H₂O</td> </tr> <tr> <td>Cool: Cool</td> <td>MeOH: Me</td> </tr> <tr> <td>HCL: HC</td> <td>HNO₃: HN</td> </tr> <tr> <td>H₂SO₄: H₂</td> <td>NaOH: Na</td> </tr> <tr> <td>H₃PO₄: HP</td> <td></td> </tr> <tr> <td>NaHSO₄: NABIS</td> <td></td> </tr> <tr> <td>Na₂S₂O₈: HASO₈</td> <td></td> </tr> <tr> <td>Zn Acetate+NaOH: Zn</td> <td></td> </tr> <tr> <td>NaOH+Ascorbic Acid: SAPC</td> <td></td> </tr> </tbody> </table>								Preservative Codes		None: NO	DI Water: H ₂ O	Cool: Cool	MeOH: Me	HCL: HC	HNO ₃ : HN	H ₂ SO ₄ : H ₂	NaOH: Na	H ₃ PO ₄ : HP		NaHSO ₄ : NABIS		Na ₂ S ₂ O ₈ : HASO ₈		Zn Acetate+NaOH: Zn		NaOH+Ascorbic Acid: SAPC	
Preservative Codes																											
None: NO	DI Water: H ₂ O																										
Cool: Cool	MeOH: Me																										
HCL: HC	HNO ₃ : HN																										
H ₂ SO ₄ : H ₂	NaOH: Na																										
H ₃ PO ₄ : HP																											
NaHSO ₄ : NABIS																											
Na ₂ S ₂ O ₈ : HASO ₈																											
Zn Acetate+NaOH: Zn																											
NaOH+Ascorbic Acid: SAPC																											

[illegible]

Circle Method(s) and Metal(s) to be analyzed	Total 200.7 / 6010	200.9 / 6020:
8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zr		
TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U		Hg: 163.1 / 245.1 / 747.0 / 747.1

Notice: Signature of this document relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xeno. Its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xeno 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 Xeno. A minimum charge of \$55.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xeno, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>James Wang</i>	<i>James Wang</i>	8/8/16	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.1

INCIDENT # NAPP2519735457
COST CENTER: 1137051001
GFCN: 48605000

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8607-1

SDG Number: 03C1558702

Login Number: 8607

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: 890-8607-1

SDG Number: 03C1558702

Login Number: 8607

List Number: 2

Creator: Rios, Minerva

List Source: Eurofins Midland

List Creation: 08/11/25 09:30 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	



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Ashley Holmes
Ensolum

601 N. Marienfeld St.
Suite 400

Midland, Texas 79701

Generated 8/12/2025 7:18:24 PM

JOB DESCRIPTION

JRU 076
03C1558702

JOB NUMBER

890-8609-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220



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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8/12/2025 7:18:24 PM

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

Client: Ensolum
Project/Site: JRU 076

Laboratory Job ID: 890-8609-1
SDG: 03C1558702

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Definitions/Glossary

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8609-1
SDG: 03C1558702

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
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: JRU 076

Job ID: 890-8609-1

Job ID: 890-8609-1

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Job Narrative 890-8609-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 8/8/2025 4:54 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 6.0°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: PH 02 (890-8609-1) and PH 02A (890-8609-2).

GC VOA

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

Diesel Range Organics

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-116429 and analytical batch 880-116451 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (880-60970-A-34-B MDLV). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8609-1
SDG: 03C1558702

Client Sample ID: PH 02

Lab Sample ID: 890-8609-1

Date Collected: 08/08/25 10:24

Matrix: Solid

Date Received: 08/08/25 16:54

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		08/11/25 12:12	08/12/25 18:50	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/11/25 12:12	08/12/25 18:50	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/11/25 12:12	08/12/25 18:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/11/25 12:12	08/12/25 18:50	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/11/25 12:12	08/12/25 18:50	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/11/25 12:12	08/12/25 18:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	08/11/25 12:12	08/12/25 18:50	1
1,4-Difluorobenzene (Surr)	95		70 - 130	08/11/25 12:12	08/12/25 18:50	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			08/12/25 18:50	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			08/12/25 11:02	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		08/12/25 07:43	08/12/25 11:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/12/25 07:43	08/12/25 11:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/12/25 07:43	08/12/25 11:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	08/12/25 07:43	08/12/25 11:02	1
o-Terphenyl	77		70 - 130	08/12/25 07:43	08/12/25 11:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	959		10.1	mg/Kg			08/12/25 10:24	1

Client Sample ID: PH 02A

Lab Sample ID: 890-8609-2

Date Collected: 08/08/25 10:38

Matrix: Solid

Date Received: 08/08/25 16:54

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		08/11/25 12:12	08/12/25 19:11	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/11/25 12:12	08/12/25 19:11	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/11/25 12:12	08/12/25 19:11	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/11/25 12:12	08/12/25 19:11	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/11/25 12:12	08/12/25 19:11	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/11/25 12:12	08/12/25 19:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	08/11/25 12:12	08/12/25 19:11	1
1,4-Difluorobenzene (Surr)	91		70 - 130	08/11/25 12:12	08/12/25 19:11	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8609-1
SDG: 03C1558702

Client Sample ID: PH 02A

Lab Sample ID: 890-8609-2

Date Collected: 08/08/25 10:38

Matrix: Solid

Date Received: 08/08/25 16:54

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			08/12/25 19:11	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			08/12/25 11:18	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		08/12/25 07:43	08/12/25 11:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/12/25 07:43	08/12/25 11:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/12/25 07:43	08/12/25 11:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130	08/12/25 07:43	08/12/25 11:18	1
o-Terphenyl	71		70 - 130	08/12/25 07:43	08/12/25 11:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	869		9.98	mg/Kg			08/12/25 10:30	1

Surrogate Summary

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8609-1
SDG: 03C1558702

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)
880-61320-A-1-B MS	Matrix Spike	111	95
880-61320-A-1-C MSD	Matrix Spike Duplicate	111	93
890-8609-1	PH 02	108	95
890-8609-2	PH 02A	109	91
LCS 880-116368/1-A	Lab Control Sample	113	91
LCSD 880-116368/2-A	Lab Control Sample Dup	110	92
MB 880-116368/5-A	Method Blank	107	91
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-8607-A-1-C MS	Matrix Spike	83	76
890-8607-A-1-D MSD	Matrix Spike Duplicate	101	79
890-8609-1	PH 02	89	77
890-8609-2	PH 02A	78	71
LCS 880-116429/2-A	Lab Control Sample	121	124
LCSD 880-116429/3-A	Lab Control Sample Dup	121	124
MB 880-116429/1-A	Method Blank	134 S1+	127
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8609-1
SDG: 03C1558702

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-116368/5-A

Matrix: Solid

Analysis Batch: 116441

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 116368

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/11/25 12:12	08/12/25 11:26	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/11/25 12:12	08/12/25 11:26	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/11/25 12:12	08/12/25 11:26	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/11/25 12:12	08/12/25 11:26	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/11/25 12:12	08/12/25 11:26	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/11/25 12:12	08/12/25 11:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	08/11/25 12:12	08/12/25 11:26	1
1,4-Difluorobenzene (Surr)	91		70 - 130	08/11/25 12:12	08/12/25 11:26	1

Lab Sample ID: LCS 880-116368/1-A

Matrix: Solid

Analysis Batch: 116441

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 116368

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09665		mg/Kg		97	70 - 130
Toluene	0.100	0.09577		mg/Kg		96	70 - 130
Ethylbenzene	0.100	0.1100		mg/Kg		110	70 - 130
m-Xylene & p-Xylene	0.200	0.2157		mg/Kg		108	70 - 130
o-Xylene	0.100	0.1064		mg/Kg		106	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: LCSD 880-116368/2-A

Matrix: Solid

Analysis Batch: 116441

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 116368

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1014		mg/Kg		101	70 - 130	5	35
Toluene	0.100	0.09630		mg/Kg		96	70 - 130	1	35
Ethylbenzene	0.100	0.1099		mg/Kg		110	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.2138		mg/Kg		107	70 - 130	1	35
o-Xylene	0.100	0.1065		mg/Kg		106	70 - 130	0	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: 880-61320-A-1-B MS

Matrix: Solid

Analysis Batch: 116441

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 116368

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.09630		mg/Kg		96	70 - 130
Toluene	<0.00200	U	0.100	0.08928		mg/Kg		89	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8609-1
SDG: 03C1558702

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

Lab Sample ID: 880-61320-A-1-B MS

Matrix: Solid

Analysis Batch: 116441

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 116368

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.09947		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1935		mg/Kg		97	70 - 130
o-Xylene	<0.00200	U	0.100	0.09677		mg/Kg		97	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 880-61320-A-1-C MSD

Matrix: Solid

Analysis Batch: 116441

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 116368

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.09345		mg/Kg		93	70 - 130	3	35
Toluene	<0.00200	U	0.100	0.08986		mg/Kg		90	70 - 130	1	35
Ethylbenzene	<0.00200	U	0.100	0.09950		mg/Kg		99	70 - 130	0	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1940		mg/Kg		97	70 - 130	0	35
o-Xylene	<0.00200	U	0.100	0.09591		mg/Kg		96	70 - 130	1	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

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

Lab Sample ID: MB 880-116429/1-A

Matrix: Solid

Analysis Batch: 116451

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 116429

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		08/12/25 07:43	08/12/25 04:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/12/25 07:43	08/12/25 04:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/12/25 07:43	08/12/25 04:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	134	S1+	70 - 130	08/12/25 07:43	08/12/25 04:36	1
o-Terphenyl	127		70 - 130	08/12/25 07:43	08/12/25 04:36	1

Lab Sample ID: LCS 880-116429/2-A

Matrix: Solid

Analysis Batch: 116451

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 116429

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1096		mg/Kg		110	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1028		mg/Kg		103	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8609-1
SDG: 03C1558702

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

Lab Sample ID: LCS 880-116429/2-A

Matrix: Solid

Analysis Batch: 116451

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 116429

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	121		70 - 130
o-Terphenyl	124		70 - 130

Lab Sample ID: LCSD 880-116429/3-A

Matrix: Solid

Analysis Batch: 116451

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 116429

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1109		mg/Kg		111	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	1030		mg/Kg		103	70 - 130	0	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	121		70 - 130
o-Terphenyl	124		70 - 130

Lab Sample ID: 890-8607-A-1-C MS

Matrix: Solid

Analysis Batch: 116451

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 116429

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	996	831.9		mg/Kg		84	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	996	749.5		mg/Kg		73	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	83		70 - 130
o-Terphenyl	76		70 - 130

Lab Sample ID: 890-8607-A-1-D MSD

Matrix: Solid

Analysis Batch: 116451

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 116429

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	996	844.4		mg/Kg		85	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.0	U	996	749.9		mg/Kg		73	70 - 130	0	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	101		70 - 130
o-Terphenyl	79		70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8609-1
SDG: 03C1558702

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-116440/1-A

Matrix: Solid

Analysis Batch: 116454

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0	mg/Kg			08/12/25 09:07	1

Lab Sample ID: LCS 880-116440/2-A

Matrix: Solid

Analysis Batch: 116454

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	233.1		mg/Kg		93	90 - 110

Lab Sample ID: LCSD 880-116440/3-A

Matrix: Solid

Analysis Batch: 116454

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	228.4		mg/Kg		91	90 - 110	2	20

Lab Sample ID: 880-61303-A-6-B MS

Matrix: Solid

Analysis Batch: 116454

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1050		253	1283	4	mg/Kg		92	90 - 110

Lab Sample ID: 880-61303-A-6-C MSD

Matrix: Solid

Analysis Batch: 116454

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1050		253	1279	4	mg/Kg		91	90 - 110	0	20

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QC Association Summary

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8609-1
SDG: 03C1558702

GC VOA

Prep Batch: 116368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8609-1	PH 02	Total/NA	Solid	5035	
890-8609-2	PH 02A	Total/NA	Solid	5035	
MB 880-116368/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-116368/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-116368/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-61320-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-61320-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 116441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8609-1	PH 02	Total/NA	Solid	8021B	116368
890-8609-2	PH 02A	Total/NA	Solid	8021B	116368
MB 880-116368/5-A	Method Blank	Total/NA	Solid	8021B	116368
LCS 880-116368/1-A	Lab Control Sample	Total/NA	Solid	8021B	116368
LCSD 880-116368/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	116368
880-61320-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	116368
880-61320-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	116368

Analysis Batch: 116561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8609-1	PH 02	Total/NA	Solid	Total BTEX	
890-8609-2	PH 02A	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 116429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8609-1	PH 02	Total/NA	Solid	8015NM Prep	
890-8609-2	PH 02A	Total/NA	Solid	8015NM Prep	
MB 880-116429/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-116429/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-116429/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8607-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-8607-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 116451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8609-1	PH 02	Total/NA	Solid	8015B NM	116429
890-8609-2	PH 02A	Total/NA	Solid	8015B NM	116429
MB 880-116429/1-A	Method Blank	Total/NA	Solid	8015B NM	116429
LCS 880-116429/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	116429
LCSD 880-116429/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	116429
890-8607-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	116429
890-8607-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	116429

Analysis Batch: 116550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8609-1	PH 02	Total/NA	Solid	8015 NM	
890-8609-2	PH 02A	Total/NA	Solid	8015 NM	

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8609-1
SDG: 03C1558702

HPLC/IC

Leach Batch: 116440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8609-1	PH 02	Soluble	Solid	DI Leach	
890-8609-2	PH 02A	Soluble	Solid	DI Leach	
MB 880-116440/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-116440/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-116440/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-61303-A-6-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-61303-A-6-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 116454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8609-1	PH 02	Soluble	Solid	300.0	116440
890-8609-2	PH 02A	Soluble	Solid	300.0	116440
MB 880-116440/1-A	Method Blank	Soluble	Solid	300.0	116440
LCS 880-116440/2-A	Lab Control Sample	Soluble	Solid	300.0	116440
LCSD 880-116440/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	116440
880-61303-A-6-B MS	Matrix Spike	Soluble	Solid	300.0	116440
880-61303-A-6-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	116440

Lab Chronicle

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8609-1
SDG: 03C1558702

Client Sample ID: PH 02
Date Collected: 08/08/25 10:24
Date Received: 08/08/25 16:54

Lab Sample ID: 890-8609-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	116368	08/11/25 12:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116441	08/12/25 18:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116561	08/12/25 18:50	AJ	EET MID
Total/NA	Analysis	8015 NM		1			116550	08/12/25 11:02	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	116429	08/12/25 07:43	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116451	08/12/25 11:02	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	116440	08/12/25 08:19	SI	EET MID
Soluble	Analysis	300.0		1			116454	08/12/25 10:24	CS	EET MID

Client Sample ID: PH 02A
Date Collected: 08/08/25 10:38
Date Received: 08/08/25 16:54

Lab Sample ID: 890-8609-2
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			5.00 g	5 mL	116368	08/11/25 12:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116441	08/12/25 19:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116561	08/12/25 19:11	AJ	EET MID
Total/NA	Analysis	8015 NM		1			116550	08/12/25 11:18	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	116429	08/12/25 07:43	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116451	08/12/25 11:18	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	116440	08/12/25 08:19	SI	EET MID
Soluble	Analysis	300.0		1			116454	08/12/25 10:30	CS	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: JRU 076

Job ID: 890-8609-1
SDG: 03C1558702

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	06-30-26
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: JRU 076

Job ID: 890-8609-1
SDG: 03C1558702

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: JRU 076

Job ID: 890-8609-1
SDG: 03C1558702

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
890-8609-1	PH 02	Solid	08/08/25 10:24	08/08/25 16:54	New Mexico
890-8609-2	PH 02A	Solid	08/08/25 10:38	08/08/25 16:54	New Mexico

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Environment Testing

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

Chain of Custody

Work Order No:

Page 1 of 1
www.xenco.com

Project Manager:	M. Sherry Holmes	Bill to: (if different)	
Company Name:	Ensolum	Company Name:	XTO Energy, Inc
Address:	3122 National Parks Hwy	Address:	401 North 3164 E Greentree St Carlsbad, NM 88220
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	(713) 817-1947	Email:	AHolmes@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:



890-8609 Chain of Custody

Samples Received intact:	☒ Yes ☐ No	Thermometer ID:	
Cooler Custody Seals:	Yes ☐ No ☒ N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes ☐ No ☒ M/A	Temperature Reading:	6.2
Total Containers:		Corrected Temperature:	6.0
PH 8.0 TEX 8 chloride			
Na₂S₂O₈-MMSO₂ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC			

[illegible]

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

Notice: Signature of this document without reimbursement of samples constitutes a valid purchase order from client company to Eurofins Xerco. Its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xerco 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 Xerco. A minimum charge of \$35.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xerco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>[Signature]</i>	2 <i>[Signature]</i>	8/8/16
3	4	
5	6	

Incident number: AAP 2519735457
cost center: 1137051001
GF CMI 48605000

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8609-1

SDG Number: 03C1558702

Login Number: 8609

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: 890-8609-1

SDG Number: 03C1558702

Login Number: 8609

List Number: 2

Creator: Rios, Minerva

List Source: Eurofins Midland

List Creation: 08/11/25 09:31 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	



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Ashley Holmes
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 8/12/2025 7:13:26 PM

JOB DESCRIPTION

JRU 076
03C1558702

JOB NUMBER

890-8610-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220



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
8/12/2025 7:13:26 PM

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

Client: Ensolum
Project/Site: JRU 076

Laboratory Job ID: 890-8610-1
SDG: 03C1558702

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Definitions/Glossary

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8610-1
SDG: 03C1558702

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
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: JRU 076

Job ID: 890-8610-1

Job ID: 890-8610-1

Eurofins Carlsbad

Job Narrative 890-8610-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 8/8/2025 4:54 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 6.0°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS 09 (890-8610-1), SS 10 (890-8610-2), SS 11 (890-8610-3), SS 12 (890-8610-4) and SS 13 (890-8610-5).

GC VOA

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

Diesel Range Organics

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-116429 and analytical batch 880-116451 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SS 13 (890-8610-5) and (890-8607-A-1-B). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (880-60970-A-34-B MDLV). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8610-1
SDG: 03C1558702

Client Sample ID: SS 09

Lab Sample ID: 890-8610-1

Date Collected: 08/07/25 11:13

Matrix: Solid

Date Received: 08/08/25 16:54

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		08/12/25 10:00	08/12/25 18:23	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/12/25 10:00	08/12/25 18:23	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/12/25 10:00	08/12/25 18:23	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/12/25 10:00	08/12/25 18:23	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/12/25 10:00	08/12/25 18:23	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/12/25 10:00	08/12/25 18:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	08/12/25 10:00	08/12/25 18:23	1
1,4-Difluorobenzene (Surr)	96		70 - 130	08/12/25 10:00	08/12/25 18:23	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			08/12/25 18:23	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			08/12/25 11:33	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/12/25 07:43	08/12/25 11:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/12/25 07:43	08/12/25 11:33	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/12/25 07:43	08/12/25 11:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130	08/12/25 07:43	08/12/25 11:33	1
o-Terphenyl	77		70 - 130	08/12/25 07:43	08/12/25 11:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	106		10.1	mg/Kg			08/12/25 10:35	1

Client Sample ID: SS 10

Lab Sample ID: 890-8610-2

Date Collected: 08/07/25 11:16

Matrix: Solid

Date Received: 08/08/25 16:54

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		08/12/25 10:00	08/12/25 18:44	1
Toluene	<0.00202	U	0.00202	mg/Kg		08/12/25 10:00	08/12/25 18:44	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		08/12/25 10:00	08/12/25 18:44	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		08/12/25 10:00	08/12/25 18:44	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		08/12/25 10:00	08/12/25 18:44	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		08/12/25 10:00	08/12/25 18:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	08/12/25 10:00	08/12/25 18:44	1
1,4-Difluorobenzene (Surr)	95		70 - 130	08/12/25 10:00	08/12/25 18:44	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8610-1
SDG: 03C1558702

Client Sample ID: SS 10

Lab Sample ID: 890-8610-2

Date Collected: 08/07/25 11:16

Matrix: Solid

Date Received: 08/08/25 16:54

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			08/12/25 18:44	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			08/12/25 11:48	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		08/12/25 07:43	08/12/25 11:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/12/25 07:43	08/12/25 11:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/12/25 07:43	08/12/25 11:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130			08/12/25 07:43	08/12/25 11:48	1
o-Terphenyl	73		70 - 130			08/12/25 07:43	08/12/25 11:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	49.2		10.1	mg/Kg			08/12/25 10:41	1

Client Sample ID: SS 11

Lab Sample ID: 890-8610-3

Date Collected: 08/07/25 12:35

Matrix: Solid

Date Received: 08/08/25 16:54

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		08/12/25 10:00	08/12/25 19:04	1
Toluene	<0.00202	U	0.00202	mg/Kg		08/12/25 10:00	08/12/25 19:04	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		08/12/25 10:00	08/12/25 19:04	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		08/12/25 10:00	08/12/25 19:04	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		08/12/25 10:00	08/12/25 19:04	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		08/12/25 10:00	08/12/25 19:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			08/12/25 10:00	08/12/25 19:04	1
1,4-Difluorobenzene (Surr)	96		70 - 130			08/12/25 10:00	08/12/25 19:04	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			08/12/25 19:04	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	60.9		49.8	mg/Kg			08/12/25 12:04	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		08/12/25 07:43	08/12/25 12:04	1
Diesel Range Organics (Over C10-C28)	60.9		49.8	mg/Kg		08/12/25 07:43	08/12/25 12:04	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8610-1
SDG: 03C1558702

Client Sample ID: SS 11

Lab Sample ID: 890-8610-3

Date Collected: 08/07/25 12:35

Matrix: Solid

Date Received: 08/08/25 16:54

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/12/25 07:43	08/12/25 12:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130			08/12/25 07:43	08/12/25 12:04	1
o-Terphenyl	74		70 - 130			08/12/25 07:43	08/12/25 12:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.98	U	9.98	mg/Kg			08/12/25 10:47	1

Client Sample ID: SS 12

Lab Sample ID: 890-8610-4

Date Collected: 08/07/25 12:38

Matrix: Solid

Date Received: 08/08/25 16:54

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		08/12/25 10:00	08/12/25 19:24	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/12/25 10:00	08/12/25 19:24	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/12/25 10:00	08/12/25 19:24	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/12/25 10:00	08/12/25 19:24	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/12/25 10:00	08/12/25 19:24	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/12/25 10:00	08/12/25 19:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130			08/12/25 10:00	08/12/25 19:24	1
1,4-Difluorobenzene (Surr)	96		70 - 130			08/12/25 10:00	08/12/25 19:24	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			08/12/25 19:24	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			08/12/25 12:19	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		08/12/25 07:43	08/12/25 12:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/12/25 07:43	08/12/25 12:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/12/25 07:43	08/12/25 12:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130			08/12/25 07:43	08/12/25 12:19	1
o-Terphenyl	70		70 - 130			08/12/25 07:43	08/12/25 12:19	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.1	U	10.1	mg/Kg			08/12/25 10:52	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8610-1
SDG: 03C1558702

Client Sample ID: SS 13

Lab Sample ID: 890-8610-5

Date Collected: 08/07/25 13:21

Matrix: Solid

Date Received: 08/08/25 16:54

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		08/12/25 10:00	08/12/25 19:45	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/12/25 10:00	08/12/25 19:45	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/12/25 10:00	08/12/25 19:45	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		08/12/25 10:00	08/12/25 19:45	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/12/25 10:00	08/12/25 19:45	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		08/12/25 10:00	08/12/25 19:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	08/12/25 10:00	08/12/25 19:45	1
1,4-Difluorobenzene (Surr)	95		70 - 130	08/12/25 10:00	08/12/25 19:45	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			08/12/25 19:45	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			08/12/25 12:50	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	<49.8	U	49.8	mg/Kg		08/12/25 07:43	08/12/25 12:50	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/12/25 07:43	08/12/25 12:50	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/12/25 07:43	08/12/25 12:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130	08/12/25 07:43	08/12/25 12:50	1
o-Terphenyl	64	S1-	70 - 130	08/12/25 07:43	08/12/25 12:50	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.92	U	9.92	mg/Kg			08/12/25 11:09	1

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Surrogate Summary

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8610-1
SDG: 03C1558702

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-8610-1	SS 09	106	96
890-8610-2	SS 10	104	95
890-8610-3	SS 11	105	96
890-8610-4	SS 12	104	96
890-8610-5	SS 13	105	95
890-8615-A-1-B MS	Matrix Spike	103	101
890-8615-A-1-C MSD	Matrix Spike Duplicate	105	99
LCS 880-116460/1-A	Lab Control Sample	101	101
LCSD 880-116460/2-A	Lab Control Sample Dup	103	99
MB 880-116460/5-A	Method Blank	105	91
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-8607-A-1-C MS	Matrix Spike	83	76
890-8607-A-1-D MSD	Matrix Spike Duplicate	101	79
890-8610-1	SS 09	91	77
890-8610-2	SS 10	92	73
890-8610-3	SS 11	92	74
890-8610-4	SS 12	89	70
890-8610-5	SS 13	78	64 S1-
LCS 880-116429/2-A	Lab Control Sample	121	124
LCSD 880-116429/3-A	Lab Control Sample Dup	121	124
MB 880-116429/1-A	Method Blank	134 S1+	127
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8610-1
SDG: 03C1558702

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-116460/5-A

Matrix: Solid

Analysis Batch: 116439

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 116460

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/12/25 10:00	08/12/25 12:23	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/12/25 10:00	08/12/25 12:23	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/12/25 10:00	08/12/25 12:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/12/25 10:00	08/12/25 12:23	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/12/25 10:00	08/12/25 12:23	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/12/25 10:00	08/12/25 12:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	08/12/25 10:00	08/12/25 12:23	1
1,4-Difluorobenzene (Surr)	91		70 - 130	08/12/25 10:00	08/12/25 12:23	1

Lab Sample ID: LCS 880-116460/1-A

Matrix: Solid

Analysis Batch: 116439

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 116460

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08765		mg/Kg		88	70 - 130
Toluene	0.100	0.08528		mg/Kg		85	70 - 130
Ethylbenzene	0.100	0.08916		mg/Kg		89	70 - 130
m-Xylene & p-Xylene	0.200	0.1774		mg/Kg		89	70 - 130
o-Xylene	0.100	0.07338		mg/Kg		73	70 - 130

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

Lab Sample ID: LCSD 880-116460/2-A

Matrix: Solid

Analysis Batch: 116439

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 116460

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09355		mg/Kg		94	70 - 130	7	35
Toluene	0.100	0.09082		mg/Kg		91	70 - 130	6	35
Ethylbenzene	0.100	0.09523		mg/Kg		95	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.1901		mg/Kg		95	70 - 130	7	35
o-Xylene	0.100	0.07806		mg/Kg		78	70 - 130	6	35

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

Lab Sample ID: 890-8615-A-1-B MS

Matrix: Solid

Analysis Batch: 116439

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 116460

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.08807		mg/Kg		88	70 - 130
Toluene	<0.00200	U	0.100	0.08626		mg/Kg		86	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8610-1
SDG: 03C1558702

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

Lab Sample ID: 890-8615-A-1-B MS

Matrix: Solid

Analysis Batch: 116439

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 116460

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.09033		mg/Kg		90	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1795		mg/Kg		90	70 - 130
o-Xylene	<0.00200	U	0.100	0.07403		mg/Kg		74	70 - 130

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

Lab Sample ID: 890-8615-A-1-C MSD

Matrix: Solid

Analysis Batch: 116439

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 116460

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.08346		mg/Kg		83	70 - 130	5	35
Toluene	<0.00200	U	0.100	0.08193		mg/Kg		82	70 - 130	5	35
Ethylbenzene	<0.00200	U	0.100	0.08636		mg/Kg		86	70 - 130	4	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1723		mg/Kg		86	70 - 130	4	35
o-Xylene	<0.00200	U	0.100	0.07113		mg/Kg		71	70 - 130	4	35

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

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

Lab Sample ID: MB 880-116429/1-A

Matrix: Solid

Analysis Batch: 116451

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 116429

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		08/12/25 07:43	08/12/25 04:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/12/25 07:43	08/12/25 04:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/12/25 07:43	08/12/25 04:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	134	S1+	70 - 130	08/12/25 07:43	08/12/25 04:36	1
o-Terphenyl	127		70 - 130	08/12/25 07:43	08/12/25 04:36	1

Lab Sample ID: LCS 880-116429/2-A

Matrix: Solid

Analysis Batch: 116451

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 116429

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1096		mg/Kg		110	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1028		mg/Kg		103	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8610-1
SDG: 03C1558702

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

Lab Sample ID: LCS 880-116429/2-A

Matrix: Solid

Analysis Batch: 116451

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 116429

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	121		70 - 130
o-Terphenyl	124		70 - 130

Lab Sample ID: LCSD 880-116429/3-A

Matrix: Solid

Analysis Batch: 116451

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 116429

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1109		mg/Kg		111	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	1030		mg/Kg		103	70 - 130	0	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	121		70 - 130
o-Terphenyl	124		70 - 130

Lab Sample ID: 890-8607-A-1-C MS

Matrix: Solid

Analysis Batch: 116451

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 116429

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	996	831.9		mg/Kg		84	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	996	749.5		mg/Kg		73	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	83		70 - 130
o-Terphenyl	76		70 - 130

Lab Sample ID: 890-8607-A-1-D MSD

Matrix: Solid

Analysis Batch: 116451

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 116429

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	996	844.4		mg/Kg		85	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.0	U	996	749.9		mg/Kg		73	70 - 130	0	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	101		70 - 130
o-Terphenyl	79		70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8610-1
SDG: 03C1558702

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-116440/1-A

Matrix: Solid

Analysis Batch: 116454

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0	mg/Kg			08/12/25 09:07	1

Lab Sample ID: LCS 880-116440/2-A

Matrix: Solid

Analysis Batch: 116454

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	233.1		mg/Kg		93	90 - 110

Lab Sample ID: LCSD 880-116440/3-A

Matrix: Solid

Analysis Batch: 116454

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	228.4		mg/Kg		91	90 - 110	2	20

Lab Sample ID: 890-8610-4 MS

Matrix: Solid

Analysis Batch: 116454

Client Sample ID: SS 12

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	<10.1	U	252	240.4		mg/Kg		92	90 - 110

Lab Sample ID: 890-8610-4 MSD

Matrix: Solid

Analysis Batch: 116454

Client Sample ID: SS 12

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	<10.1	U	252	239.9		mg/Kg		92	90 - 110	0	20

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8610-1
SDG: 03C1558702

GC VOA

Analysis Batch: 116439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8610-1	SS 09	Total/NA	Solid	8021B	116460
890-8610-2	SS 10	Total/NA	Solid	8021B	116460
890-8610-3	SS 11	Total/NA	Solid	8021B	116460
890-8610-4	SS 12	Total/NA	Solid	8021B	116460
890-8610-5	SS 13	Total/NA	Solid	8021B	116460
MB 880-116460/5-A	Method Blank	Total/NA	Solid	8021B	116460
LCS 880-116460/1-A	Lab Control Sample	Total/NA	Solid	8021B	116460
LCSD 880-116460/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	116460
890-8615-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	116460
890-8615-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	116460

Prep Batch: 116460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8610-1	SS 09	Total/NA	Solid	5035	
890-8610-2	SS 10	Total/NA	Solid	5035	
890-8610-3	SS 11	Total/NA	Solid	5035	
890-8610-4	SS 12	Total/NA	Solid	5035	
890-8610-5	SS 13	Total/NA	Solid	5035	
MB 880-116460/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-116460/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-116460/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8615-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
890-8615-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 116563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8610-1	SS 09	Total/NA	Solid	Total BTEX	
890-8610-2	SS 10	Total/NA	Solid	Total BTEX	
890-8610-3	SS 11	Total/NA	Solid	Total BTEX	
890-8610-4	SS 12	Total/NA	Solid	Total BTEX	
890-8610-5	SS 13	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 116429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8610-1	SS 09	Total/NA	Solid	8015NM Prep	
890-8610-2	SS 10	Total/NA	Solid	8015NM Prep	
890-8610-3	SS 11	Total/NA	Solid	8015NM Prep	
890-8610-4	SS 12	Total/NA	Solid	8015NM Prep	
890-8610-5	SS 13	Total/NA	Solid	8015NM Prep	
MB 880-116429/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-116429/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-116429/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8607-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-8607-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 116451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8610-1	SS 09	Total/NA	Solid	8015B NM	116429
890-8610-2	SS 10	Total/NA	Solid	8015B NM	116429

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QC Association Summary

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8610-1
SDG: 03C1558702

GC Semi VOA (Continued)

Analysis Batch: 116451 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8610-3	SS 11	Total/NA	Solid	8015B NM	116429
890-8610-4	SS 12	Total/NA	Solid	8015B NM	116429
890-8610-5	SS 13	Total/NA	Solid	8015B NM	116429
MB 880-116429/1-A	Method Blank	Total/NA	Solid	8015B NM	116429
LCS 880-116429/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	116429
LCSD 880-116429/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	116429
890-8607-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	116429
890-8607-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	116429

Analysis Batch: 116551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8610-1	SS 09	Total/NA	Solid	8015 NM	
890-8610-2	SS 10	Total/NA	Solid	8015 NM	
890-8610-3	SS 11	Total/NA	Solid	8015 NM	
890-8610-4	SS 12	Total/NA	Solid	8015 NM	
890-8610-5	SS 13	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 116440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8610-1	SS 09	Soluble	Solid	DI Leach	
890-8610-2	SS 10	Soluble	Solid	DI Leach	
890-8610-3	SS 11	Soluble	Solid	DI Leach	
890-8610-4	SS 12	Soluble	Solid	DI Leach	
890-8610-5	SS 13	Soluble	Solid	DI Leach	
MB 880-116440/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-116440/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-116440/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-8610-4 MS	SS 12	Soluble	Solid	DI Leach	
890-8610-4 MSD	SS 12	Soluble	Solid	DI Leach	

Analysis Batch: 116454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8610-1	SS 09	Soluble	Solid	300.0	116440
890-8610-2	SS 10	Soluble	Solid	300.0	116440
890-8610-3	SS 11	Soluble	Solid	300.0	116440
890-8610-4	SS 12	Soluble	Solid	300.0	116440
890-8610-5	SS 13	Soluble	Solid	300.0	116440
MB 880-116440/1-A	Method Blank	Soluble	Solid	300.0	116440
LCS 880-116440/2-A	Lab Control Sample	Soluble	Solid	300.0	116440
LCSD 880-116440/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	116440
890-8610-4 MS	SS 12	Soluble	Solid	300.0	116440
890-8610-4 MSD	SS 12	Soluble	Solid	300.0	116440

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Lab Chronicle

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8610-1
SDG: 03C1558702

Client Sample ID: SS 09
Date Collected: 08/07/25 11:13
Date Received: 08/08/25 16:54

Lab Sample ID: 890-8610-1
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	116460	08/12/25 10:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116439	08/12/25 18:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116563	08/12/25 18:23	AJ	EET MID
Total/NA	Analysis	8015 NM		1			116551	08/12/25 11:33	SA	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	116429	08/12/25 07:43	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116451	08/12/25 11:33	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	116440	08/12/25 08:19	SI	EET MID
Soluble	Analysis	300.0		1			116454	08/12/25 10:35	CS	EET MID

Client Sample ID: SS 10
Date Collected: 08/07/25 11:16
Date Received: 08/08/25 16:54

Lab Sample ID: 890-8610-2
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			4.95 g	5 mL	116460	08/12/25 10:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116439	08/12/25 18:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116563	08/12/25 18:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			116551	08/12/25 11:48	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	116429	08/12/25 07:43	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116451	08/12/25 11:48	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	116440	08/12/25 08:19	SI	EET MID
Soluble	Analysis	300.0		1			116454	08/12/25 10:41	CS	EET MID

Client Sample ID: SS 11
Date Collected: 08/07/25 12:35
Date Received: 08/08/25 16:54

Lab Sample ID: 890-8610-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	116460	08/12/25 10:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116439	08/12/25 19:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116563	08/12/25 19:04	AJ	EET MID
Total/NA	Analysis	8015 NM		1			116551	08/12/25 12:04	SA	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	116429	08/12/25 07:43	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116451	08/12/25 12:04	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	116440	08/12/25 08:19	SI	EET MID
Soluble	Analysis	300.0		1			116454	08/12/25 10:47	CS	EET MID

Client Sample ID: SS 12
Date Collected: 08/07/25 12:38
Date Received: 08/08/25 16:54

Lab Sample ID: 890-8610-4
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	116460	08/12/25 10:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116439	08/12/25 19:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116563	08/12/25 19:24	AJ	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8610-1
SDG: 03C1558702

Client Sample ID: SS 12

Lab Sample ID: 890-8610-4

Date Collected: 08/07/25 12:38

Matrix: Solid

Date Received: 08/08/25 16:54

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			116551	08/12/25 12:19	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	116429	08/12/25 07:43	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116451	08/12/25 12:19	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	116440	08/12/25 08:19	SI	EET MID
Soluble	Analysis	300.0		1			116454	08/12/25 10:52	CS	EET MID

Client Sample ID: SS 13

Lab Sample ID: 890-8610-5

Date Collected: 08/07/25 13:21

Matrix: Solid

Date Received: 08/08/25 16:54

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	116460	08/12/25 10:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116439	08/12/25 19:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116563	08/12/25 19:45	AJ	EET MID
Total/NA	Analysis	8015 NM		1			116551	08/12/25 12:50	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	116429	08/12/25 07:43	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116451	08/12/25 12:50	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	116440	08/12/25 08:19	SI	EET MID
Soluble	Analysis	300.0		1			116454	08/12/25 11:09	CS	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: JRU 076

Job ID: 890-8610-1
SDG: 03C1558702

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	06-30-26
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: JRU 076

Job ID: 890-8610-1
SDG: 03C1558702

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: JRU 076

Job ID: 890-8610-1
SDG: 03C1558702

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
890-8610-1	SS 09	Solid	08/07/25 11:13	08/08/25 16:54	New Mexico
890-8610-2	SS 10	Solid	08/07/25 11:16	08/08/25 16:54	New Mexico
890-8610-3	SS 11	Solid	08/07/25 12:35	08/08/25 16:54	New Mexico
890-8610-4	SS 12	Solid	08/07/25 12:38	08/08/25 16:54	New Mexico
890-8610-5	SS 13	Solid	08/07/25 13:21	08/08/25 16:54	New Mexico

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Environment Testing
Xenco

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

Chain of Custody

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	Anthony Holmes	Bill to: (if different)	XTO Energy Inc.
Company Name:	Ensolum	Company Name:	
Address:	3122 National Parks Hwy	Address:	3124 E Garfield St.
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	(408) 16-1947	Email:	AHolmes@ensolum.com

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

Project Name:	TCU 0304	Turn Around	☐ Routine ☒ Rush 48	Pres. Code	
---------------	----------	-------------	--	------------	--

Project Number:	830158702	Due Date:	10/13/25
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Project Location:	3122 National Parks Hwy
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Sample's Name:	TCU 0304	TAT starts the day received by the lab, if received by 4:30pm
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PO #:		Temp Blank:	Yes ☒ No ☐	Wet Ice:	Yes ☐ No ☒
-------	--	-------------	---	----------	---

COOLER RECEIPT	Yes ☒ No ☐	Thermometer ID:	74000
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Sample Custody Seals:	Yes ☐ No ☒	Temperature Reading:	6.2
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Total Containers:	Corrected Temperature:	Parameters	
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890-8610 Chain of Custody



Preservative Codes
None: NO DI Water: H₂O
Cool: Cool MeOH: Me
HCL: HC HNO₃: HN
H₂SO₄: H₂ NaOH: Na
H₃PO₄: HP
NaHSO₄: NABIS
Na₂S₂O₅: NaSO₅
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grav/Comp	# of Cont	Sample Comments																	
SS09	Soil	08/07/25	11:13	0.15	G	1	TPH 8015																	
SS10			11:15			1	BTEX 8021																	
SS11			12:35			1	Chloride 4500																	
SS12			12:38			1																		
SS13			13:21			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 SiO₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed: TCLP / SPLP 6010: 8RCRA SD As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1. <i>Anthony Holmes</i>	<i>Anthony Holmes</i>	8/16/25			
3.					
5.					

Revised Date: 08/23/2020 Rev: 20202

Incident #: APP 2519735454
Cost Center: 1132051061
GFCN: 4860566N

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8610-1

SDG Number: 03C1558702

Login Number: 8610

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: 890-8610-1

SDG Number: 03C1558702

Login Number: 8610

List Number: 2

Creator: Rios, Minerva

List Source: Eurofins Midland

List Creation: 08/11/25 09:32 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	



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Ashley Holmes
Ensolum

601 N. Marienfeld St.
Suite 400

Midland, Texas 79701

Generated 8/12/2025 5:34:34 PM

JOB DESCRIPTION

JRU 076
03C1558702

JOB NUMBER

890-8612-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220



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
8/12/2025 5:34:34 PM

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

Client: Ensolum
Project/Site: JRU 076

Laboratory Job ID: 890-8612-1
SDG: 03C1558702

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Definitions/Glossary

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8612-1
SDG: 03C1558702

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
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: JRU 076

Job ID: 890-8612-1

Job ID: 890-8612-1

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Job Narrative 890-8612-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 8/8/2025 4:54 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 6.0°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: CS 01 (890-8612-1), CS 02 (890-8612-2), CS 03 (890-8612-3), CS 04 (890-8612-4), CS 05 (890-8612-5), CS 06 (890-8612-6), CS 07 (890-8612-7) and CS 08 (890-8612-8).

GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-116314 recovered under the lower control limit for o-Xylene. The samples associated with this CCV were ran within 12 hours of passing CCV; therefore, the data have been reported.
(CCV 880-116314/51)

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-116360 and analytical batch 880-116314 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Diesel Range Organics

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

HPLC/IC

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

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8612-1
SDG: 03C1558702

Client Sample ID: CS 01

Lab Sample ID: 890-8612-1

Date Collected: 08/08/25 12:27

Matrix: Solid

Date Received: 08/08/25 16:54

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		08/11/25 11:54	08/12/25 06:05	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/11/25 11:54	08/12/25 06:05	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/11/25 11:54	08/12/25 06:05	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/11/25 11:54	08/12/25 06:05	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/11/25 11:54	08/12/25 06:05	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/11/25 11:54	08/12/25 06:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	08/11/25 11:54	08/12/25 06:05	1
1,4-Difluorobenzene (Surr)	94		70 - 130	08/11/25 11:54	08/12/25 06:05	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			08/12/25 06:05	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	58.3		49.8	mg/Kg			08/12/25 11:02	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		08/12/25 07:43	08/12/25 11:02	1
Diesel Range Organics (Over C10-C28)	58.3		49.8	mg/Kg		08/12/25 07:43	08/12/25 11:02	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/12/25 07:43	08/12/25 11:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130	08/12/25 07:43	08/12/25 11:02	1
o-Terphenyl	77		70 - 130	08/12/25 07:43	08/12/25 11:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	314		9.92	mg/Kg			08/12/25 11:55	1

Client Sample ID: CS 02

Lab Sample ID: 890-8612-2

Date Collected: 08/08/25 12:32

Matrix: Solid

Date Received: 08/08/25 16:54

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		08/11/25 11:54	08/12/25 06:25	1
Toluene	<0.00202	U	0.00202	mg/Kg		08/11/25 11:54	08/12/25 06:25	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		08/11/25 11:54	08/12/25 06:25	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		08/11/25 11:54	08/12/25 06:25	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		08/11/25 11:54	08/12/25 06:25	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		08/11/25 11:54	08/12/25 06:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	08/11/25 11:54	08/12/25 06:25	1
1,4-Difluorobenzene (Surr)	95		70 - 130	08/11/25 11:54	08/12/25 06:25	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8612-1
SDG: 03C1558702

Client Sample ID: CS 02

Lab Sample ID: 890-8612-2

Date Collected: 08/08/25 12:32

Matrix: Solid

Date Received: 08/08/25 16:54

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			08/12/25 06:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	182		50.0	mg/Kg			08/12/25 11:18	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		08/12/25 07:43	08/12/25 11:18	1
Diesel Range Organics (Over C10-C28)	182		50.0	mg/Kg		08/12/25 07:43	08/12/25 11:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/12/25 07:43	08/12/25 11:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130			08/12/25 07:43	08/12/25 11:18	1
o-Terphenyl	77		70 - 130			08/12/25 07:43	08/12/25 11:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	504		9.94	mg/Kg			08/12/25 12:00	1

Client Sample ID: CS 03

Lab Sample ID: 890-8612-3

Date Collected: 08/08/25 12:57

Matrix: Solid

Date Received: 08/08/25 16:54

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		08/11/25 11:54	08/12/25 06:46	1
Toluene	<0.00202	U	0.00202	mg/Kg		08/11/25 11:54	08/12/25 06:46	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		08/11/25 11:54	08/12/25 06:46	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		08/11/25 11:54	08/12/25 06:46	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		08/11/25 11:54	08/12/25 06:46	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		08/11/25 11:54	08/12/25 06:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			08/11/25 11:54	08/12/25 06:46	1
1,4-Difluorobenzene (Surr)	94		70 - 130			08/11/25 11:54	08/12/25 06:46	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			08/12/25 06:46	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			08/12/25 11:33	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/12/25 07:43	08/12/25 11:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/12/25 07:43	08/12/25 11:33	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8612-1
SDG: 03C1558702

Client Sample ID: CS 03

Lab Sample ID: 890-8612-3

Date Collected: 08/08/25 12:57

Matrix: Solid

Date Received: 08/08/25 16:54

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/12/25 07:43	08/12/25 11:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130			08/12/25 07:43	08/12/25 11:33	1
o-Terphenyl	75		70 - 130			08/12/25 07:43	08/12/25 11:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	124		10.1	mg/Kg			08/12/25 12:06	1

Client Sample ID: CS 04

Lab Sample ID: 890-8612-4

Date Collected: 08/08/25 13:00

Matrix: Solid

Date Received: 08/08/25 16:54

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		08/11/25 11:54	08/12/25 07:06	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/11/25 11:54	08/12/25 07:06	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/11/25 11:54	08/12/25 07:06	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/11/25 11:54	08/12/25 07:06	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/11/25 11:54	08/12/25 07:06	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/11/25 11:54	08/12/25 07:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			08/11/25 11:54	08/12/25 07:06	1
1,4-Difluorobenzene (Surr)	94		70 - 130			08/11/25 11:54	08/12/25 07:06	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			08/12/25 07:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			08/12/25 11:48	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/12/25 07:43	08/12/25 11:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/12/25 07:43	08/12/25 11:48	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/12/25 07:43	08/12/25 11:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130			08/12/25 07:43	08/12/25 11:48	1
o-Terphenyl	74		70 - 130			08/12/25 07:43	08/12/25 11:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	78.4		9.98	mg/Kg			08/12/25 13:53	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8612-1
SDG: 03C1558702

Client Sample ID: CS 05

Lab Sample ID: 890-8612-5

Date Collected: 08/08/25 13:54

Matrix: Solid

Date Received: 08/08/25 16:54

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		08/11/25 11:54	08/12/25 07:27	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/11/25 11:54	08/12/25 07:27	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/11/25 11:54	08/12/25 07:27	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		08/11/25 11:54	08/12/25 07:27	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/11/25 11:54	08/12/25 07:27	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		08/11/25 11:54	08/12/25 07:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	08/11/25 11:54	08/12/25 07:27	1
1,4-Difluorobenzene (Surr)	96		70 - 130	08/11/25 11:54	08/12/25 07:27	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			08/12/25 07:27	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	89.5		50.0	mg/Kg			08/12/25 12:04	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		08/12/25 07:43	08/12/25 12:04	1
Diesel Range Organics (Over C10-C28)	89.5		50.0	mg/Kg		08/12/25 07:43	08/12/25 12:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/12/25 07:43	08/12/25 12:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130	08/12/25 07:43	08/12/25 12:04	1
o-Terphenyl	76		70 - 130	08/12/25 07:43	08/12/25 12:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1150		50.5	mg/Kg			08/12/25 14:01	5

Client Sample ID: CS 06

Lab Sample ID: 890-8612-6

Date Collected: 08/08/25 13:57

Matrix: Solid

Date Received: 08/08/25 16:54

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		08/11/25 11:54	08/12/25 07:47	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/11/25 11:54	08/12/25 07:47	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/11/25 11:54	08/12/25 07:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/11/25 11:54	08/12/25 07:47	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/11/25 11:54	08/12/25 07:47	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/11/25 11:54	08/12/25 07:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	08/11/25 11:54	08/12/25 07:47	1
1,4-Difluorobenzene (Surr)	93		70 - 130	08/11/25 11:54	08/12/25 07:47	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8612-1
SDG: 03C1558702

Client Sample ID: CS 06

Lab Sample ID: 890-8612-6

Date Collected: 08/08/25 13:57

Matrix: Solid

Date Received: 08/08/25 16:54

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			08/12/25 07:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			08/12/25 12:19	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		08/12/25 07:43	08/12/25 12:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/12/25 07:43	08/12/25 12:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/12/25 07:43	08/12/25 12:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130			08/12/25 07:43	08/12/25 12:19	1
o-Terphenyl	76		70 - 130			08/12/25 07:43	08/12/25 12:19	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1190		50.3	mg/Kg			08/12/25 14:08	5

Client Sample ID: CS 07

Lab Sample ID: 890-8612-7

Date Collected: 08/08/25 14:39

Matrix: Solid

Date Received: 08/08/25 16:54

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		08/11/25 11:54	08/12/25 08:08	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/11/25 11:54	08/12/25 08:08	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/11/25 11:54	08/12/25 08:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/11/25 11:54	08/12/25 08:08	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/11/25 11:54	08/12/25 08:08	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/11/25 11:54	08/12/25 08:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			08/11/25 11:54	08/12/25 08:08	1
1,4-Difluorobenzene (Surr)	96		70 - 130			08/11/25 11:54	08/12/25 08:08	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			08/12/25 08:08	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			08/12/25 12:50	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	<49.8	U	49.8	mg/Kg		08/12/25 07:43	08/12/25 12:50	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/12/25 07:43	08/12/25 12:50	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8612-1
SDG: 03C1558702

Client Sample ID: CS 07

Lab Sample ID: 890-8612-7

Date Collected: 08/08/25 14:39

Matrix: Solid

Date Received: 08/08/25 16:54

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/12/25 07:43	08/12/25 12:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130			08/12/25 07:43	08/12/25 12:50	1
o-Terphenyl	75		70 - 130			08/12/25 07:43	08/12/25 12:50	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1280		49.9	mg/Kg			08/12/25 14:16	5

Client Sample ID: CS 08

Lab Sample ID: 890-8612-8

Date Collected: 08/08/25 14:42

Matrix: Solid

Date Received: 08/08/25 16:54

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		08/11/25 11:54	08/12/25 08:28	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/11/25 11:54	08/12/25 08:28	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/11/25 11:54	08/12/25 08:28	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/11/25 11:54	08/12/25 08:28	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/11/25 11:54	08/12/25 08:28	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/11/25 11:54	08/12/25 08:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			08/11/25 11:54	08/12/25 08:28	1
1,4-Difluorobenzene (Surr)	96		70 - 130			08/11/25 11:54	08/12/25 08:28	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			08/12/25 08:28	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	227		50.0	mg/Kg			08/12/25 13:06	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	<50.0	U	50.0	mg/Kg		08/12/25 07:43	08/12/25 13:06	1
Diesel Range Organics (Over C10-C28)	227		50.0	mg/Kg		08/12/25 07:43	08/12/25 13:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/12/25 07:43	08/12/25 13:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130			08/12/25 07:43	08/12/25 13:06	1
o-Terphenyl	80		70 - 130			08/12/25 07:43	08/12/25 13:06	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	794		10.1	mg/Kg			08/12/25 14:52	1

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Surrogate Summary

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8612-1
SDG: 03C1558702

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)
880-60970-A-24-A MB	Method Blank	107	94
880-61317-A-1-C MS	Matrix Spike	105	98
880-61317-A-1-D MSD	Matrix Spike Duplicate	104	99
890-8612-1	CS 01	104	94
890-8612-2	CS 02	105	95
890-8612-3	CS 03	102	94
890-8612-4	CS 04	108	94
890-8612-5	CS 05	102	96
890-8612-6	CS 06	105	93
890-8612-7	CS 07	108	96
890-8612-8	CS 08	102	96
LCS 880-116360/1-A	Lab Control Sample	99	99
LCSD 880-116360/2-A	Lab Control Sample Dup	99	100
MB 880-116360/5-A	Method Blank	102	94
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-8611-A-2-C MS	Matrix Spike	94	82
890-8611-A-2-D MSD	Matrix Spike Duplicate	94	82
890-8612-1	CS 01	80	77
890-8612-2	CS 02	78	77
890-8612-3	CS 03	79	75
890-8612-4	CS 04	77	74
890-8612-5	CS 05	78	76
890-8612-6	CS 06	79	76
890-8612-7	CS 07	77	75
890-8612-8	CS 08	76	80
LCS 880-116428/2-A	Lab Control Sample	107	117
LCSD 880-116428/3-A	Lab Control Sample Dup	106	117
MB 880-116428/1-A	Method Blank	116	118
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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QC Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8612-1
SDG: 03C1558702

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: 880-60970-A-24-A MB

Matrix: Solid

Analysis Batch: 116314

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 116280

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/08/25 17:00	08/11/25 20:48	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/08/25 17:00	08/11/25 20:48	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/08/25 17:00	08/11/25 20:48	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/08/25 17:00	08/11/25 20:48	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/08/25 17:00	08/11/25 20:48	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/08/25 17:00	08/11/25 20:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	08/08/25 17:00	08/11/25 20:48	1
1,4-Difluorobenzene (Surr)	94		70 - 130	08/08/25 17:00	08/11/25 20:48	1

Lab Sample ID: MB 880-116360/5-A

Matrix: Solid

Analysis Batch: 116314

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 116360

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/11/25 11:54	08/12/25 00:24	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/11/25 11:54	08/12/25 00:24	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/11/25 11:54	08/12/25 00:24	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/11/25 11:54	08/12/25 00:24	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/11/25 11:54	08/12/25 00:24	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/11/25 11:54	08/12/25 00:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	08/11/25 11:54	08/12/25 00:24	1
1,4-Difluorobenzene (Surr)	94		70 - 130	08/11/25 11:54	08/12/25 00:24	1

Lab Sample ID: LCS 880-116360/1-A

Matrix: Solid

Analysis Batch: 116314

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 116360

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08633		mg/Kg		86	70 - 130
Toluene	0.100	0.08328		mg/Kg		83	70 - 130
Ethylbenzene	0.100	0.08660		mg/Kg		87	70 - 130
m-Xylene & p-Xylene	0.200	0.1722		mg/Kg		86	70 - 130
o-Xylene	0.100	0.07216		mg/Kg		72	70 - 130

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

Lab Sample ID: LCSD 880-116360/2-A

Matrix: Solid

Analysis Batch: 116314

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 116360

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08937		mg/Kg		89	70 - 130	3	35

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QC Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8612-1
SDG: 03C1558702

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

Lab Sample ID: LCSD 880-116360/2-A

Matrix: Solid

Analysis Batch: 116314

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 116360

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.08588		mg/Kg		86	70 - 130	3	35
Ethylbenzene	0.100	0.08893		mg/Kg		89	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.1760		mg/Kg		88	70 - 130	2	35
o-Xylene	0.100	0.07318		mg/Kg		73	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 880-61317-A-1-C MS

Matrix: Solid

Analysis Batch: 116314

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 116360

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.08232		mg/Kg		82	70 - 130
Toluene	<0.00200	U	0.100	0.07940		mg/Kg		79	70 - 130
Ethylbenzene	<0.00200	U	0.100	0.08388		mg/Kg		84	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1675		mg/Kg		84	70 - 130
o-Xylene	<0.00200	U F1	0.100	0.06897	F1	mg/Kg		69	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 880-61317-A-1-D MSD

Matrix: Solid

Analysis Batch: 116314

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 116360

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.07334		mg/Kg		73	70 - 130	12	35
Toluene	<0.00200	U	0.100	0.07038		mg/Kg		70	70 - 130	12	35
Ethylbenzene	<0.00200	U	0.100	0.07499		mg/Kg		75	70 - 130	11	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1487		mg/Kg		74	70 - 130	12	35
o-Xylene	<0.00200	U F1	0.100	0.06184	F1	mg/Kg		62	70 - 130	11	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

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

Lab Sample ID: MB 880-116428/1-A

Matrix: Solid

Analysis Batch: 116449

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 116428

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		08/12/25 07:43	08/12/25 04:36	1

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QC Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8612-1
SDG: 03C1558702

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

Lab Sample ID: MB 880-116428/1-A

Matrix: Solid

Analysis Batch: 116449

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 116428

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		08/12/25 07:43	08/12/25 04:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/12/25 07:43	08/12/25 04:36	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130			08/12/25 07:43	08/12/25 04:36	1
o-Terphenyl	118		70 - 130			08/12/25 07:43	08/12/25 04:36	1

Lab Sample ID: LCS 880-116428/2-A

Matrix: Solid

Analysis Batch: 116449

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 116428

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	998.6		mg/Kg		100	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1027		mg/Kg		103	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	107		70 - 130				
o-Terphenyl	117		70 - 130				

Lab Sample ID: LCSD 880-116428/3-A

Matrix: Solid

Analysis Batch: 116449

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 116428

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	998.4		mg/Kg		100	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	1000	1014		mg/Kg		101	70 - 130	1	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	106		70 - 130						
o-Terphenyl	117		70 - 130						

Lab Sample ID: 890-8611-A-2-C MS

Matrix: Solid

Analysis Batch: 116449

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 116428

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	862.5		mg/Kg		86	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	999	889.8		mg/Kg		89	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	94		70 - 130						
o-Terphenyl	82		70 - 130						

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QC Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8612-1
SDG: 03C1558702

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

Lab Sample ID: 890-8611-A-2-D MSD

Matrix: Solid

Analysis Batch: 116449

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 116428

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	914.5		mg/Kg		92	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	<50.0	U	999	924.8		mg/Kg		93	70 - 130	4	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	94		70 - 130								
o-Terphenyl	82		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-116440/1-A

Matrix: Solid

Analysis Batch: 116454

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0	mg/Kg			08/12/25 09:07	1

Lab Sample ID: LCS 880-116440/2-A

Matrix: Solid

Analysis Batch: 116454

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	233.1		mg/Kg		93	90 - 110

Lab Sample ID: LCSD 880-116440/3-A

Matrix: Solid

Analysis Batch: 116454

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	228.4		mg/Kg		91	90 - 110	2	20

Lab Sample ID: 890-8610-A-4-D MS

Matrix: Solid

Analysis Batch: 116454

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	<10.1	U	252	240.4		mg/Kg		92	90 - 110

Lab Sample ID: 890-8610-A-4-E MSD

Matrix: Solid

Analysis Batch: 116454

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	<10.1	U	252	239.9		mg/Kg		92	90 - 110	0	20

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QC Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8612-1
SDG: 03C1558702

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 880-116434/1-A
Matrix: Solid
Analysis Batch: 116455

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0	mg/Kg			08/12/25 10:21	1

Lab Sample ID: LCS 880-116434/2-A
Matrix: Solid
Analysis Batch: 116455

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	225.1		mg/Kg		90	90 - 110

Lab Sample ID: LCSD 880-116434/3-A
Matrix: Solid
Analysis Batch: 116455

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	237.1		mg/Kg		95	90 - 110	5	20

Lab Sample ID: 890-8612-7 MS
Matrix: Solid
Analysis Batch: 116455

Client Sample ID: CS 07
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1280		1250	2543		mg/Kg		101	90 - 110

Lab Sample ID: 890-8612-7 MSD
Matrix: Solid
Analysis Batch: 116455

Client Sample ID: CS 07
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1280		1250	2536		mg/Kg		100	90 - 110	0	20

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QC Association Summary

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8612-1
SDG: 03C1558702

GC VOA

Prep Batch: 116280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60970-A-24-A MB	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 116314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8612-1	CS 01	Total/NA	Solid	8021B	116360
890-8612-2	CS 02	Total/NA	Solid	8021B	116360
890-8612-3	CS 03	Total/NA	Solid	8021B	116360
890-8612-4	CS 04	Total/NA	Solid	8021B	116360
890-8612-5	CS 05	Total/NA	Solid	8021B	116360
890-8612-6	CS 06	Total/NA	Solid	8021B	116360
890-8612-7	CS 07	Total/NA	Solid	8021B	116360
890-8612-8	CS 08	Total/NA	Solid	8021B	116360
880-60970-A-24-A MB	Method Blank	Total/NA	Solid	8021B	116280
MB 880-116360/5-A	Method Blank	Total/NA	Solid	8021B	116360
LCS 880-116360/1-A	Lab Control Sample	Total/NA	Solid	8021B	116360
LCSD 880-116360/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	116360
880-61317-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	116360
880-61317-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	116360

Prep Batch: 116360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8612-1	CS 01	Total/NA	Solid	5035	
890-8612-2	CS 02	Total/NA	Solid	5035	
890-8612-3	CS 03	Total/NA	Solid	5035	
890-8612-4	CS 04	Total/NA	Solid	5035	
890-8612-5	CS 05	Total/NA	Solid	5035	
890-8612-6	CS 06	Total/NA	Solid	5035	
890-8612-7	CS 07	Total/NA	Solid	5035	
890-8612-8	CS 08	Total/NA	Solid	5035	
MB 880-116360/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-116360/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-116360/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-61317-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
880-61317-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 116459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8612-1	CS 01	Total/NA	Solid	Total BTEX	
890-8612-2	CS 02	Total/NA	Solid	Total BTEX	
890-8612-3	CS 03	Total/NA	Solid	Total BTEX	
890-8612-4	CS 04	Total/NA	Solid	Total BTEX	
890-8612-5	CS 05	Total/NA	Solid	Total BTEX	
890-8612-6	CS 06	Total/NA	Solid	Total BTEX	
890-8612-7	CS 07	Total/NA	Solid	Total BTEX	
890-8612-8	CS 08	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 116428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8612-1	CS 01	Total/NA	Solid	8015NM Prep	

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8612-1
SDG: 03C1558702

GC Semi VOA (Continued)

Prep Batch: 116428 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8612-2	CS 02	Total/NA	Solid	8015NM Prep	
890-8612-3	CS 03	Total/NA	Solid	8015NM Prep	
890-8612-4	CS 04	Total/NA	Solid	8015NM Prep	
890-8612-5	CS 05	Total/NA	Solid	8015NM Prep	
890-8612-6	CS 06	Total/NA	Solid	8015NM Prep	
890-8612-7	CS 07	Total/NA	Solid	8015NM Prep	
890-8612-8	CS 08	Total/NA	Solid	8015NM Prep	
MB 880-116428/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-116428/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-116428/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8611-A-2-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-8611-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 116449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8612-1	CS 01	Total/NA	Solid	8015B NM	116428
890-8612-2	CS 02	Total/NA	Solid	8015B NM	116428
890-8612-3	CS 03	Total/NA	Solid	8015B NM	116428
890-8612-4	CS 04	Total/NA	Solid	8015B NM	116428
890-8612-5	CS 05	Total/NA	Solid	8015B NM	116428
890-8612-6	CS 06	Total/NA	Solid	8015B NM	116428
890-8612-7	CS 07	Total/NA	Solid	8015B NM	116428
890-8612-8	CS 08	Total/NA	Solid	8015B NM	116428
MB 880-116428/1-A	Method Blank	Total/NA	Solid	8015B NM	116428
LCS 880-116428/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	116428
LCSD 880-116428/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	116428
890-8611-A-2-C MS	Matrix Spike	Total/NA	Solid	8015B NM	116428
890-8611-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	116428

Analysis Batch: 116553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8612-1	CS 01	Total/NA	Solid	8015 NM	
890-8612-2	CS 02	Total/NA	Solid	8015 NM	
890-8612-3	CS 03	Total/NA	Solid	8015 NM	
890-8612-4	CS 04	Total/NA	Solid	8015 NM	
890-8612-5	CS 05	Total/NA	Solid	8015 NM	
890-8612-6	CS 06	Total/NA	Solid	8015 NM	
890-8612-7	CS 07	Total/NA	Solid	8015 NM	
890-8612-8	CS 08	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 116434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8612-4	CS 04	Soluble	Solid	DI Leach	
890-8612-5	CS 05	Soluble	Solid	DI Leach	
890-8612-6	CS 06	Soluble	Solid	DI Leach	
890-8612-7	CS 07	Soluble	Solid	DI Leach	
890-8612-8	CS 08	Soluble	Solid	DI Leach	
MB 880-116434/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-116434/2-A	Lab Control Sample	Soluble	Solid	DI Leach	

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8612-1
SDG: 03C1558702

HPLC/IC (Continued)

Leach Batch: 116434 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-116434/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-8612-7 MS	CS 07	Soluble	Solid	DI Leach	
890-8612-7 MSD	CS 07	Soluble	Solid	DI Leach	

Leach Batch: 116440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8612-1	CS 01	Soluble	Solid	DI Leach	
890-8612-2	CS 02	Soluble	Solid	DI Leach	
890-8612-3	CS 03	Soluble	Solid	DI Leach	
MB 880-116440/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-116440/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-116440/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-8610-A-4-D MS	Matrix Spike	Soluble	Solid	DI Leach	
890-8610-A-4-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 116454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8612-1	CS 01	Soluble	Solid	300.0	116440
890-8612-2	CS 02	Soluble	Solid	300.0	116440
890-8612-3	CS 03	Soluble	Solid	300.0	116440
MB 880-116440/1-A	Method Blank	Soluble	Solid	300.0	116440
LCS 880-116440/2-A	Lab Control Sample	Soluble	Solid	300.0	116440
LCSD 880-116440/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	116440
890-8610-A-4-D MS	Matrix Spike	Soluble	Solid	300.0	116440
890-8610-A-4-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	116440

Analysis Batch: 116455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8612-4	CS 04	Soluble	Solid	300.0	116434
890-8612-5	CS 05	Soluble	Solid	300.0	116434
890-8612-6	CS 06	Soluble	Solid	300.0	116434
890-8612-7	CS 07	Soluble	Solid	300.0	116434
890-8612-8	CS 08	Soluble	Solid	300.0	116434
MB 880-116434/1-A	Method Blank	Soluble	Solid	300.0	116434
LCS 880-116434/2-A	Lab Control Sample	Soluble	Solid	300.0	116434
LCSD 880-116434/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	116434
890-8612-7 MS	CS 07	Soluble	Solid	300.0	116434
890-8612-7 MSD	CS 07	Soluble	Solid	300.0	116434

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8612-1
SDG: 03C1558702

Client Sample ID: CS 01**Lab Sample ID: 890-8612-1****Date Collected: 08/08/25 12:27****Matrix: Solid****Date Received: 08/08/25 16:54**

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	116360	08/11/25 11:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116314	08/12/25 06:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116459	08/12/25 06:05	SA	EET MID
Total/NA	Analysis	8015 NM		1			116553	08/12/25 11:02	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	116428	08/12/25 07:43	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116449	08/12/25 11:02	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	116440	08/12/25 08:19	SI	EET MID
Soluble	Analysis	300.0		1			116454	08/12/25 11:55	CS	EET MID

Client Sample ID: CS 02**Lab Sample ID: 890-8612-2****Date Collected: 08/08/25 12:32****Matrix: Solid****Date Received: 08/08/25 16:54**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	116360	08/11/25 11:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116314	08/12/25 06:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116459	08/12/25 06:25	SA	EET MID
Total/NA	Analysis	8015 NM		1			116553	08/12/25 11:18	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	116428	08/12/25 07:43	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116449	08/12/25 11:18	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	116440	08/12/25 08:19	SI	EET MID
Soluble	Analysis	300.0		1			116454	08/12/25 12:00	CS	EET MID

Client Sample ID: CS 03**Lab Sample ID: 890-8612-3****Date Collected: 08/08/25 12:57****Matrix: Solid****Date Received: 08/08/25 16:54**

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	116360	08/11/25 11:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116314	08/12/25 06:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116459	08/12/25 06:46	SA	EET MID
Total/NA	Analysis	8015 NM		1			116553	08/12/25 11:33	SA	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	116428	08/12/25 07:43	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116449	08/12/25 11:33	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	116440	08/12/25 08:19	SI	EET MID
Soluble	Analysis	300.0		1			116454	08/12/25 12:06	CS	EET MID

Client Sample ID: CS 04**Lab Sample ID: 890-8612-4****Date Collected: 08/08/25 13:00****Matrix: Solid****Date Received: 08/08/25 16:54**

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	116360	08/11/25 11:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116314	08/12/25 07:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116459	08/12/25 07:06	SA	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8612-1
SDG: 03C1558702

Client Sample ID: CS 04**Date Collected: 08/08/25 13:00****Date Received: 08/08/25 16:54****Lab Sample ID: 890-8612-4****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			116553	08/12/25 11:48	SA	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	116428	08/12/25 07:43	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116449	08/12/25 11:48	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	116434	08/12/25 08:05	SI	EET MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	116455	08/12/25 13:53	CS	EET MID

Client Sample ID: CS 05**Date Collected: 08/08/25 13:54****Date Received: 08/08/25 16:54****Lab Sample ID: 890-8612-5****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			5.01 g	5 mL	116360	08/11/25 11:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116314	08/12/25 07:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116459	08/12/25 07:27	SA	EET MID
Total/NA	Analysis	8015 NM		1			116553	08/12/25 12:04	SA	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	116428	08/12/25 07:43	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116449	08/12/25 12:04	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	116434	08/12/25 08:05	SI	EET MID
Soluble	Analysis	300.0		5			116455	08/12/25 14:01	CS	EET MID

Client Sample ID: CS 06**Date Collected: 08/08/25 13:57****Date Received: 08/08/25 16:54****Lab Sample ID: 890-8612-6****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			5.00 g	5 mL	116360	08/11/25 11:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116314	08/12/25 07:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116459	08/12/25 07:47	SA	EET MID
Total/NA	Analysis	8015 NM		1			116553	08/12/25 12:19	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	116428	08/12/25 07:43	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116449	08/12/25 12:19	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	116434	08/12/25 08:05	SI	EET MID
Soluble	Analysis	300.0		5			116455	08/12/25 14:08	CS	EET MID

Client Sample ID: CS 07**Date Collected: 08/08/25 14:39****Date Received: 08/08/25 16:54****Lab Sample ID: 890-8612-7****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	116360	08/11/25 11:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116314	08/12/25 08:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116459	08/12/25 08:08	SA	EET MID
Total/NA	Analysis	8015 NM		1			116553	08/12/25 12:50	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	116428	08/12/25 07:43	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116449	08/12/25 12:50	TKC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8612-1
SDG: 03C1558702

Client Sample ID: CS 07
Date Collected: 08/08/25 14:39
Date Received: 08/08/25 16:54

Lab Sample ID: 890-8612-7
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			5.01 g	50 mL	116434	08/12/25 08:05	SI	EET MID
Soluble	Analysis	300.0		5			116455	08/12/25 14:16	CS	EET MID

Client Sample ID: CS 08
Date Collected: 08/08/25 14:42
Date Received: 08/08/25 16:54

Lab Sample ID: 890-8612-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	116360	08/11/25 11:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116314	08/12/25 08:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116459	08/12/25 08:28	SA	EET MID
Total/NA	Analysis	8015 NM		1			116553	08/12/25 13:06	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	116428	08/12/25 07:43	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116449	08/12/25 13:06	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	116434	08/12/25 08:05	SI	EET MID
Soluble	Analysis	300.0		1			116455	08/12/25 14:52	CS	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: JRU 076

Job ID: 890-8612-1
SDG: 03C1558702

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	06-30-26

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

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

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

Method Summary

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8612-1
SDG: 03C1558702

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: JRU 076

Job ID: 890-8612-1
SDG: 03C1558702

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
890-8612-1	CS 01	Solid	08/08/25 12:27	08/08/25 16:54	New Mexico
890-8612-2	CS 02	Solid	08/08/25 12:32	08/08/25 16:54	New Mexico
890-8612-3	CS 03	Solid	08/08/25 12:57	08/08/25 16:54	New Mexico
890-8612-4	CS 04	Solid	08/08/25 13:00	08/08/25 16:54	New Mexico
890-8612-5	CS 05	Solid	08/08/25 13:54	08/08/25 16:54	New Mexico
890-8612-6	CS 06	Solid	08/08/25 13:57	08/08/25 16:54	New Mexico
890-8612-7	CS 07	Solid	08/08/25 14:39	08/08/25 16:54	New Mexico
890-8612-8	CS 08	Solid	08/08/25 14:42	08/08/25 16:54	New Mexico



Environment Testing
Xenco

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) 986-3199

Chain of Custody

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	Ashley Holmes	Bill to: (if different)	X10
Company Name:	Ensolum	Company Name:	X10 Energy, Inc.
Address:	3122 National Parks Hwy	Address:	3104 E Green St
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	(723) 817-1444	Email:	A.Holmes@ensolum.com
Program: UST/PT ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐			
State of Project:			
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐			
Deliverables: EDD ☐ ADAPT ☐ Other: _____			

Project Name:	JRC 076	Turn Around	☐ Routine ☒ Rush 48h
Project Number:	0315587402	Due Date:	08/22/25
Project Location:	30,335517-103834	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Steven Wang	Wet Ice:	Yes ☒ No ☐
PO #:	359	Parameters	TPH 8015 BTEX 8021 Chloride 4500
SAMPLE RECEIPT			
Samples Received Intact:	Yes ☒ No ☐	Thermometer ID:	-C-2
Cooler Custody Seals:	Yes ☒ No ☐	Temperature Reading:	6.2
Sample Custody Seals:	Yes ☒ No ☐	Corrected Temperature:	6.2
Total Containers:			



890-8612 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont.	TPH	BTEX	Chloride	Preservative Codes	Sample Comments
CS01	Soil	08/08/25	11:27	Surface	C	1				None: NO Cool: Cool HCL: HC H2SO4: H2 H3PO4: HP NaHSO4: NABIS Na2S2O8: NASO3 Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC	
CS02			22:32								
CS03			12:57								
CS04			13:00								
CS05			13:54								
CS06			13:57								
CS07			14:39								
CS08			14:42								

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed: TC1P / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245, 17470 / 7471

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

Incident Number: APP2519735457
Cost center: 1137051001
GFCM: 48605000

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8612-1

SDG Number: 03C1558702

Login Number: 8612

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: 890-8612-1

SDG Number: 03C1558702

Login Number: 8612

List Number: 2

Creator: Rios, Minerva

List Source: Eurofins Midland

List Creation: 08/11/25 09:34 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	



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Ashley Holmes
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 9/10/2025 11:02:39 AM Revision 1

JOB DESCRIPTION

JRU 076
03C1558702

JOB NUMBER

890-8634-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220



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



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

Generated
9/10/2025 11:02:39 AM
Revision 1

Client: Ensolum
Project/Site: JRU 076

Laboratory Job ID: 890-8634-1
SDG: 03C1558702

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Definitions/Glossary

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8634-1
SDG: 03C1558702

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum
Project: JRU 076

Job ID: 890-8634-1

Job ID: 890-8634-1

Eurofins Carlsbad

Job Narrative
890-8634-1

REVISION

The report being provided is a revision of the original report sent on 8/19/2025. The report (revision 1) is being revised due to Per client email, requesting sample ID correction. Sample #10 is CS31 not CS37.

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 8/15/2025 4:45 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 6.2°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: CS30 (890-8634-1), CS28 (890-8634-2), CS23 (890-8634-3), CS29 (890-8634-4), CS36 (890-8634-5), CS37 (890-8634-6), CS33 (890-8634-7), CS42 (890-8634-8), CS41 (890-8634-9), CS31 (890-8634-10), CS40 (890-8634-11), CS34 (890-8634-12), CS21 (890-8634-13), CS26 (890-8634-14), CS43 (890-8634-15), CS35 (890-8634-16), CS25 (890-8634-17), CS27 (890-8634-18), CS44 (890-8634-19), CS38 (890-8634-20), CS24 (890-8634-21), CS22 (890-8634-22), CS32 (890-8634-23), CS39 (890-8634-24), CS45 (890-8634-25), CS49 (890-8634-26), CS46 (890-8634-27), CS50 (890-8634-28), CS48 (890-8634-29), CS47 (890-8634-30), CS51 (890-8634-31), CS52 (890-8634-32), CS57 (890-8634-33), CS53 (890-8634-34), CS55 (890-8634-35), CS56 (890-8634-36) and CS54 (890-8634-37).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-116899 and analytical batch 880-116996 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: The surrogate recovery for the blank associated with preparation batch 880-116899 and analytical batch 880-116996 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: CS49 (890-8634-26), CS51 (890-8634-31), CS55 (890-8634-35), CS56 (890-8634-36) and CS54 (890-8634-37). 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.

Diesel Range Organics

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-116908 and analytical batch 880-116930 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

HPLC/IC

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch

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Case Narrative

Client: Ensolum
Project: JRU 076

Job ID: 890-8634-1

Job ID: 890-8634-1 (Continued) **Eurofins Carlsbad**

880-116905 and analytical batch 880-117003 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8634-1
SDG: 03C1558702

Client Sample ID: CS30

Lab Sample ID: 890-8634-1

Date Collected: 08/15/25 10:58

Matrix: Solid

Date Received: 08/15/25 16:45

Sample Depth: SURFACE

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		08/18/25 15:10	08/18/25 23:12	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/18/25 15:10	08/18/25 23:12	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/18/25 15:10	08/18/25 23:12	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		08/18/25 15:10	08/18/25 23:12	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/18/25 15:10	08/18/25 23:12	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		08/18/25 15:10	08/18/25 23:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	08/18/25 15:10	08/18/25 23:12	1
1,4-Difluorobenzene (Surr)	90		70 - 130	08/18/25 15:10	08/18/25 23:12	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			08/18/25 23:12	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			08/18/25 22:18	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		08/18/25 10:44	08/18/25 22:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/18/25 10:44	08/18/25 22:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/18/25 10:44	08/18/25 22:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130	08/18/25 10:44	08/18/25 22:18	1
o-Terphenyl	101		70 - 130	08/18/25 10:44	08/18/25 22:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1020	F1	50.2	mg/Kg			08/18/25 21:34	5

Client Sample ID: CS28

Lab Sample ID: 890-8634-2

Date Collected: 08/15/25 10:54

Matrix: Solid

Date Received: 08/15/25 16:45

Sample Depth: SURFACE

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		08/18/25 15:10	08/18/25 23:32	1
Toluene	<0.00201	U	0.00201	mg/Kg		08/18/25 15:10	08/18/25 23:32	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		08/18/25 15:10	08/18/25 23:32	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		08/18/25 15:10	08/18/25 23:32	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		08/18/25 15:10	08/18/25 23:32	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		08/18/25 15:10	08/18/25 23:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	08/18/25 15:10	08/18/25 23:32	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8634-1
SDG: 03C1558702

Client Sample ID: CS28

Lab Sample ID: 890-8634-2

Date Collected: 08/15/25 10:54

Matrix: Solid

Date Received: 08/15/25 16:45

Sample Depth: SURFACE

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	88		70 - 130	08/18/25 15:10	08/18/25 23:32	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			08/18/25 23:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	103		49.9	mg/Kg			08/18/25 23:05	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/18/25 10:44	08/18/25 23:05	1
Diesel Range Organics (Over C10-C28)	103		49.9	mg/Kg		08/18/25 10:44	08/18/25 23:05	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/18/25 10:44	08/18/25 23:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130			08/18/25 10:44	08/18/25 23:05	1
o-Terphenyl	98		70 - 130			08/18/25 10:44	08/18/25 23:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	51.8		10.1	mg/Kg			08/18/25 21:57	1

Client Sample ID: CS23

Lab Sample ID: 890-8634-3

Date Collected: 08/15/25 10:36

Matrix: Solid

Date Received: 08/15/25 16:45

Sample Depth: SURFACE

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		08/18/25 15:10	08/18/25 23:53	1
Toluene	<0.00202	U	0.00202	mg/Kg		08/18/25 15:10	08/18/25 23:53	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		08/18/25 15:10	08/18/25 23:53	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		08/18/25 15:10	08/18/25 23:53	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		08/18/25 15:10	08/18/25 23:53	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		08/18/25 15:10	08/18/25 23:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	08/18/25 15:10	08/18/25 23:53	1
1,4-Difluorobenzene (Surr)	83		70 - 130	08/18/25 15:10	08/18/25 23:53	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			08/18/25 23:53	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			08/18/25 23:20	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8634-1
SDG: 03C1558702

Client Sample ID: CS23

Lab Sample ID: 890-8634-3

Date Collected: 08/15/25 10:36

Matrix: Solid

Date Received: 08/15/25 16:45

Sample Depth: SURFACE

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/18/25 10:44	08/18/25 23:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/18/25 10:44	08/18/25 23:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/18/25 10:44	08/18/25 23:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130			08/18/25 10:44	08/18/25 23:20	1
o-Terphenyl	97		70 - 130			08/18/25 10:44	08/18/25 23:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2610		49.9	mg/Kg			08/18/25 22:05	5

Client Sample ID: CS29

Lab Sample ID: 890-8634-4

Date Collected: 08/15/25 10:56

Matrix: Solid

Date Received: 08/15/25 16:45

Sample Depth: SURFACE

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		08/18/25 15:10	08/19/25 00:13	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/18/25 15:10	08/19/25 00:13	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/18/25 15:10	08/19/25 00:13	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/18/25 15:10	08/19/25 00:13	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/18/25 15:10	08/19/25 00:13	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/18/25 15:10	08/19/25 00:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130			08/18/25 15:10	08/19/25 00:13	1
1,4-Difluorobenzene (Surr)	83		70 - 130			08/18/25 15:10	08/19/25 00:13	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			08/19/25 00:13	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			08/18/25 23:36	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/18/25 10:44	08/18/25 23:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/18/25 10:44	08/18/25 23:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/18/25 10:44	08/18/25 23:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130			08/18/25 10:44	08/18/25 23:36	1
o-Terphenyl	99		70 - 130			08/18/25 10:44	08/18/25 23:36	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8634-1
SDG: 03C1558702

Client Sample ID: CS29

Lab Sample ID: 890-8634-4

Date Collected: 08/15/25 10:56

Matrix: Solid

Date Received: 08/15/25 16:45

Sample Depth: SURFACE

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	844		9.96	mg/Kg			08/18/25 22:12	1

Client Sample ID: CS36

Lab Sample ID: 890-8634-5

Date Collected: 08/15/25 12:02

Matrix: Solid

Date Received: 08/15/25 16:45

Sample Depth: SURFACE

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		08/18/25 15:10	08/19/25 00:34	1
Toluene	<0.00198	U	0.00198	mg/Kg		08/18/25 15:10	08/19/25 00:34	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		08/18/25 15:10	08/19/25 00:34	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		08/18/25 15:10	08/19/25 00:34	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		08/18/25 15:10	08/19/25 00:34	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		08/18/25 15:10	08/19/25 00:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130			08/18/25 15:10	08/19/25 00:34	1
1,4-Difluorobenzene (Surr)	88		70 - 130			08/18/25 15:10	08/19/25 00:34	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			08/19/25 00:34	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2980		50.0	mg/Kg			08/18/25 23:51	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/18/25 10:44	08/18/25 23:51	1
Diesel Range Organics (Over C10-C28)	2550		50.0	mg/Kg		08/18/25 10:44	08/18/25 23:51	1
Oil Range Organics (Over C28-C36)	432		50.0	mg/Kg		08/18/25 10:44	08/18/25 23:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130			08/18/25 10:44	08/18/25 23:51	1
o-Terphenyl	120		70 - 130			08/18/25 10:44	08/18/25 23:51	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2280		50.5	mg/Kg			08/18/25 22:20	5

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8634-1
SDG: 03C1558702

Client Sample ID: CS37

Lab Sample ID: 890-8634-6

Date Collected: 08/15/25 12:04

Matrix: Solid

Date Received: 08/15/25 16:45

Sample Depth: SURFACE

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		08/18/25 15:10	08/19/25 00:54	1
Toluene	<0.00202	U	0.00202	mg/Kg		08/18/25 15:10	08/19/25 00:54	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		08/18/25 15:10	08/19/25 00:54	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		08/18/25 15:10	08/19/25 00:54	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		08/18/25 15:10	08/19/25 00:54	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		08/18/25 15:10	08/19/25 00:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	08/18/25 15:10	08/19/25 00:54	1
1,4-Difluorobenzene (Surr)	88		70 - 130	08/18/25 15:10	08/19/25 00:54	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			08/19/25 00:54	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	489		50.0	mg/Kg			08/19/25 00:08	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		08/18/25 10:44	08/19/25 00:08	1
Diesel Range Organics (Over C10-C28)	430		50.0	mg/Kg		08/18/25 10:44	08/19/25 00:08	1
Oil Range Organics (Over C28-C36)	58.7		50.0	mg/Kg		08/18/25 10:44	08/19/25 00:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	08/18/25 10:44	08/19/25 00:08	1
o-Terphenyl	96		70 - 130	08/18/25 10:44	08/19/25 00:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	736		10.1	mg/Kg			08/18/25 22:43	1

Client Sample ID: CS33

Lab Sample ID: 890-8634-7

Date Collected: 08/15/25 11:54

Matrix: Solid

Date Received: 08/15/25 16:45

Sample Depth: SURFACE

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		08/18/25 15:10	08/19/25 01:15	1
Toluene	<0.00202	U	0.00202	mg/Kg		08/18/25 15:10	08/19/25 01:15	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		08/18/25 15:10	08/19/25 01:15	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		08/18/25 15:10	08/19/25 01:15	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		08/18/25 15:10	08/19/25 01:15	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		08/18/25 15:10	08/19/25 01:15	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8634-1
SDG: 03C1558702

Client Sample ID: CS33

Lab Sample ID: 890-8634-7

Date Collected: 08/15/25 11:54

Matrix: Solid

Date Received: 08/15/25 16:45

Sample Depth: SURFACE

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	08/18/25 15:10	08/19/25 01:15	1
1,4-Difluorobenzene (Surr)	89		70 - 130	08/18/25 15:10	08/19/25 01:15	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			08/19/25 01:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	67.2		49.8	mg/Kg			08/19/25 00:23	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	<49.8	U	49.8	mg/Kg		08/18/25 10:44	08/19/25 00:23	1
Diesel Range Organics (Over C10-C28)	67.2		49.8	mg/Kg		08/18/25 10:44	08/19/25 00:23	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/18/25 10:44	08/19/25 00:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130			08/18/25 10:44	08/19/25 00:23	1
o-Terphenyl	97		70 - 130			08/18/25 10:44	08/19/25 00:23	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	231		9.90	mg/Kg			08/18/25 22:50	1

Client Sample ID: CS42

Lab Sample ID: 890-8634-8

Date Collected: 08/15/25 12:16

Matrix: Solid

Date Received: 08/15/25 16:45

Sample Depth: SURFACE

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		08/18/25 15:10	08/19/25 01:35	1
Toluene	<0.00198	U	0.00198	mg/Kg		08/18/25 15:10	08/19/25 01:35	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		08/18/25 15:10	08/19/25 01:35	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		08/18/25 15:10	08/19/25 01:35	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		08/18/25 15:10	08/19/25 01:35	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		08/18/25 15:10	08/19/25 01:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	08/18/25 15:10	08/19/25 01:35	1
1,4-Difluorobenzene (Surr)	86		70 - 130	08/18/25 15:10	08/19/25 01:35	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			08/19/25 01:35	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	57.7		49.8	mg/Kg			08/19/25 00:39	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8634-1
SDG: 03C1558702

Client Sample ID: CS42

Lab Sample ID: 890-8634-8

Date Collected: 08/15/25 12:16

Matrix: Solid

Date Received: 08/15/25 16:45

Sample Depth: SURFACE

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		08/18/25 10:44	08/19/25 00:39	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/18/25 10:44	08/19/25 00:39	1
Oil Range Organics (Over C28-C36)	57.7		49.8	mg/Kg		08/18/25 10:44	08/19/25 00:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130			08/18/25 10:44	08/19/25 00:39	1
o-Terphenyl	101		70 - 130			08/18/25 10:44	08/19/25 00:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	916		10.0	mg/Kg			08/18/25 22:58	1

Client Sample ID: CS41

Lab Sample ID: 890-8634-9

Date Collected: 08/15/25 12:12

Matrix: Solid

Date Received: 08/15/25 16:45

Sample Depth: SURFACE

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		08/18/25 15:10	08/19/25 01:56	1
Toluene	<0.00198	U	0.00198	mg/Kg		08/18/25 15:10	08/19/25 01:56	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		08/18/25 15:10	08/19/25 01:56	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		08/18/25 15:10	08/19/25 01:56	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		08/18/25 15:10	08/19/25 01:56	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		08/18/25 15:10	08/19/25 01:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130			08/18/25 15:10	08/19/25 01:56	1
1,4-Difluorobenzene (Surr)	85		70 - 130			08/18/25 15:10	08/19/25 01:56	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			08/19/25 01:56	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1330		50.0	mg/Kg			08/19/25 00:54	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		08/18/25 10:44	08/19/25 00:54	1
Diesel Range Organics (Over C10-C28)	1270		50.0	mg/Kg		08/18/25 10:44	08/19/25 00:54	1
Oil Range Organics (Over C28-C36)	63.8		50.0	mg/Kg		08/18/25 10:44	08/19/25 00:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130			08/18/25 10:44	08/19/25 00:54	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8634-1
SDG: 03C1558702

Client Sample ID: CS41

Lab Sample ID: 890-8634-9

Date Collected: 08/15/25 12:12

Matrix: Solid

Date Received: 08/15/25 16:45

Sample Depth: SURFACE

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	99		70 - 130	08/18/25 10:44	08/19/25 00:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1300		49.9	mg/Kg			08/18/25 23:06	5

Client Sample ID: CS31

Lab Sample ID: 890-8634-10

Date Collected: 08/15/25 12:04

Matrix: Solid

Date Received: 08/15/25 16:45

Sample Depth: SURFACE

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		08/18/25 15:10	08/19/25 02:16	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/18/25 15:10	08/19/25 02:16	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/18/25 15:10	08/19/25 02:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/18/25 15:10	08/19/25 02:16	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/18/25 15:10	08/19/25 02:16	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/18/25 15:10	08/19/25 02:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	08/18/25 15:10	08/19/25 02:16	1
1,4-Difluorobenzene (Surr)	89		70 - 130	08/18/25 15:10	08/19/25 02:16	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			08/19/25 02:16	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			08/19/25 01:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		08/18/25 10:44	08/19/25 01:10	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/18/25 10:44	08/19/25 01:10	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/18/25 10:44	08/19/25 01:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130	08/18/25 10:44	08/19/25 01:10	1
<i>o</i> -Terphenyl	97		70 - 130	08/18/25 10:44	08/19/25 01:10	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	936		10.0	mg/Kg			08/18/25 23:13	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8634-1
SDG: 03C1558702

Client Sample ID: CS40

Lab Sample ID: 890-8634-11

Date Collected: 08/15/25 12:10

Matrix: Solid

Date Received: 08/15/25 16:45

Sample Depth: SURFACE

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		08/18/25 15:10	08/19/25 03:50	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/18/25 15:10	08/19/25 03:50	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/18/25 15:10	08/19/25 03:50	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/18/25 15:10	08/19/25 03:50	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/18/25 15:10	08/19/25 03:50	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/18/25 15:10	08/19/25 03:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	08/18/25 15:10	08/19/25 03:50	1
1,4-Difluorobenzene (Surr)	86		70 - 130	08/18/25 15:10	08/19/25 03:50	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			08/19/25 03:50	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	315		49.9	mg/Kg			08/19/25 01:40	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/18/25 10:44	08/19/25 01:40	1
Diesel Range Organics (Over C10-C28)	264		49.9	mg/Kg		08/18/25 10:44	08/19/25 01:40	1
Oil Range Organics (Over C28-C36)	51.0		49.9	mg/Kg		08/18/25 10:44	08/19/25 01:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130	08/18/25 10:44	08/19/25 01:40	1
o-Terphenyl	96		70 - 130	08/18/25 10:44	08/19/25 01:40	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	308		10.1	mg/Kg			08/18/25 23:21	1

Client Sample ID: CS34

Lab Sample ID: 890-8634-12

Date Collected: 08/15/25 11:58

Matrix: Solid

Date Received: 08/15/25 16:45

Sample Depth: SURFACE

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		08/18/25 15:10	08/19/25 04:10	1
Toluene	<0.00201	U	0.00201	mg/Kg		08/18/25 15:10	08/19/25 04:10	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		08/18/25 15:10	08/19/25 04:10	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		08/18/25 15:10	08/19/25 04:10	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		08/18/25 15:10	08/19/25 04:10	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		08/18/25 15:10	08/19/25 04:10	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8634-1
SDG: 03C1558702

Client Sample ID: CS34

Lab Sample ID: 890-8634-12

Date Collected: 08/15/25 11:58

Matrix: Solid

Date Received: 08/15/25 16:45

Sample Depth: SURFACE

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	08/18/25 15:10	08/19/25 04:10	1
1,4-Difluorobenzene (Surr)	90		70 - 130	08/18/25 15:10	08/19/25 04:10	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			08/19/25 04:10	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			08/19/25 01:56	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		08/18/25 10:44	08/19/25 01:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/18/25 10:44	08/19/25 01:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/18/25 10:44	08/19/25 01:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130	08/18/25 10:44	08/19/25 01:56	1
o-Terphenyl	98		70 - 130	08/18/25 10:44	08/19/25 01:56	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	878		9.90	mg/Kg			08/18/25 23:43	1

Client Sample ID: CS21

Lab Sample ID: 890-8634-13

Date Collected: 08/15/25 10:25

Matrix: Solid

Date Received: 08/15/25 16:45

Sample Depth: SURFACE

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		08/18/25 15:10	08/19/25 04:31	1
Toluene	<0.00201	U	0.00201	mg/Kg		08/18/25 15:10	08/19/25 04:31	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		08/18/25 15:10	08/19/25 04:31	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		08/18/25 15:10	08/19/25 04:31	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		08/18/25 15:10	08/19/25 04:31	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		08/18/25 15:10	08/19/25 04:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	08/18/25 15:10	08/19/25 04:31	1
1,4-Difluorobenzene (Surr)	88		70 - 130	08/18/25 15:10	08/19/25 04:31	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			08/19/25 04:31	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			08/19/25 02:11	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8634-1
SDG: 03C1558702

Client Sample ID: CS21

Date Collected: 08/15/25 10:25

Date Received: 08/15/25 16:45

Sample Depth: SURFACE

Lab Sample ID: 890-8634-13

Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/18/25 10:44	08/19/25 02:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/18/25 10:44	08/19/25 02:11	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/18/25 10:44	08/19/25 02:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130			08/18/25 10:44	08/19/25 02:11	1
o-Terphenyl	97		70 - 130			08/18/25 10:44	08/19/25 02:11	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	836		10.1	mg/Kg			08/18/25 23:51	1

Client Sample ID: CS26

Date Collected: 08/15/25 10:45

Date Received: 08/15/25 16:45

Sample Depth: SURFACE

Lab Sample ID: 890-8634-14

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		08/18/25 15:10	08/19/25 04:51	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/18/25 15:10	08/19/25 04:51	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/18/25 15:10	08/19/25 04:51	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/18/25 15:10	08/19/25 04:51	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/18/25 15:10	08/19/25 04:51	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/18/25 15:10	08/19/25 04:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130			08/18/25 15:10	08/19/25 04:51	1
1,4-Difluorobenzene (Surr)	85		70 - 130			08/18/25 15:10	08/19/25 04:51	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			08/19/25 04:51	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			08/19/25 02:26	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		08/18/25 10:44	08/19/25 02:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/18/25 10:44	08/19/25 02:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/18/25 10:44	08/19/25 02:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130			08/18/25 10:44	08/19/25 02:26	1
o-Terphenyl	100		70 - 130			08/18/25 10:44	08/19/25 02:26	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8634-1
SDG: 03C1558702

Client Sample ID: CS26

Lab Sample ID: 890-8634-14

Date Collected: 08/15/25 10:45

Matrix: Solid

Date Received: 08/15/25 16:45

Sample Depth: SURFACE

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	403		10.1	mg/Kg			08/19/25 00:14	1

Client Sample ID: CS43

Lab Sample ID: 890-8634-15

Date Collected: 08/15/25 12:19

Matrix: Solid

Date Received: 08/15/25 16:45

Sample Depth: SURFACE

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		08/18/25 15:10	08/19/25 05:12	1
Toluene	<0.00198	U	0.00198	mg/Kg		08/18/25 15:10	08/19/25 05:12	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		08/18/25 15:10	08/19/25 05:12	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		08/18/25 15:10	08/19/25 05:12	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		08/18/25 15:10	08/19/25 05:12	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		08/18/25 15:10	08/19/25 05:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130			08/18/25 15:10	08/19/25 05:12	1
1,4-Difluorobenzene (Surr)	86		70 - 130			08/18/25 15:10	08/19/25 05:12	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			08/19/25 05:12	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			08/19/25 02:42	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		08/18/25 10:44	08/19/25 02:42	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/18/25 10:44	08/19/25 02:42	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/18/25 10:44	08/19/25 02:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130			08/18/25 10:44	08/19/25 02:42	1
o-Terphenyl	98		70 - 130			08/18/25 10:44	08/19/25 02:42	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1170		9.94	mg/Kg			08/19/25 00:21	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8634-1
SDG: 03C1558702

Client Sample ID: CS35

Lab Sample ID: 890-8634-16

Date Collected: 08/15/25 12:00

Matrix: Solid

Date Received: 08/15/25 16:45

Sample Depth: SURFACE

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		08/18/25 15:10	08/19/25 05:32	1
Toluene	<0.00201	U	0.00201	mg/Kg		08/18/25 15:10	08/19/25 05:32	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		08/18/25 15:10	08/19/25 05:32	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		08/18/25 15:10	08/19/25 05:32	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		08/18/25 15:10	08/19/25 05:32	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		08/18/25 15:10	08/19/25 05:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	08/18/25 15:10	08/19/25 05:32	1
1,4-Difluorobenzene (Surr)	86		70 - 130	08/18/25 15:10	08/19/25 05:32	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			08/19/25 05:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	141		49.9	mg/Kg			08/19/25 02:57	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/18/25 10:44	08/19/25 02:57	1
Diesel Range Organics (Over C10-C28)	141		49.9	mg/Kg		08/18/25 10:44	08/19/25 02:57	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/18/25 10:44	08/19/25 02:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130	08/18/25 10:44	08/19/25 02:57	1
o-Terphenyl	101		70 - 130	08/18/25 10:44	08/19/25 02:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	973		10.1	mg/Kg			08/19/25 00:29	1

Client Sample ID: CS25

Lab Sample ID: 890-8634-17

Date Collected: 08/15/25 10:43

Matrix: Solid

Date Received: 08/15/25 16:45

Sample Depth: SURFACE

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		08/18/25 15:10	08/19/25 05:53	1
Toluene	<0.00202	U	0.00202	mg/Kg		08/18/25 15:10	08/19/25 05:53	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		08/18/25 15:10	08/19/25 05:53	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		08/18/25 15:10	08/19/25 05:53	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		08/18/25 15:10	08/19/25 05:53	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		08/18/25 15:10	08/19/25 05:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	08/18/25 15:10	08/19/25 05:53	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8634-1
SDG: 03C1558702

Client Sample ID: CS25

Lab Sample ID: 890-8634-17

Date Collected: 08/15/25 10:43

Matrix: Solid

Date Received: 08/15/25 16:45

Sample Depth: SURFACE

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	90		70 - 130	08/18/25 15:10	08/19/25 05:53	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			08/19/25 05:53	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			08/19/25 03:13	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		08/18/25 10:44	08/19/25 03:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/18/25 10:44	08/19/25 03:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/18/25 10:44	08/19/25 03:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130			08/18/25 10:44	08/19/25 03:13	1
o-Terphenyl	101		70 - 130			08/18/25 10:44	08/19/25 03:13	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	839		10.1	mg/Kg			08/19/25 00:37	1

Client Sample ID: CS27

Lab Sample ID: 890-8634-18

Date Collected: 08/15/25 10:50

Matrix: Solid

Date Received: 08/15/25 16:45

Sample Depth: SURFACE

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		08/18/25 15:10	08/19/25 06:13	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/18/25 15:10	08/19/25 06:13	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/18/25 15:10	08/19/25 06:13	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/18/25 15:10	08/19/25 06:13	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/18/25 15:10	08/19/25 06:13	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/18/25 15:10	08/19/25 06:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	08/18/25 15:10	08/19/25 06:13	1
1,4-Difluorobenzene (Surr)	87		70 - 130	08/18/25 15:10	08/19/25 06:13	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			08/19/25 06:13	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	59.5		49.9	mg/Kg			08/19/25 03:29	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8634-1
SDG: 03C1558702

Client Sample ID: CS27

Lab Sample ID: 890-8634-18

Date Collected: 08/15/25 10:50

Matrix: Solid

Date Received: 08/15/25 16:45

Sample Depth: SURFACE

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/18/25 10:44	08/19/25 03:29	1
Diesel Range Organics (Over C10-C28)	59.5		49.9	mg/Kg		08/18/25 10:44	08/19/25 03:29	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/18/25 10:44	08/19/25 03:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130			08/18/25 10:44	08/19/25 03:29	1
o-Terphenyl	98		70 - 130			08/18/25 10:44	08/19/25 03:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1390		49.6	mg/Kg			08/19/25 00:44	5

Client Sample ID: CS44

Lab Sample ID: 890-8634-19

Date Collected: 08/15/25 12:24

Matrix: Solid

Date Received: 08/15/25 16:45

Sample Depth: SURFACE

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		08/18/25 15:10	08/19/25 06:34	1
Toluene	<0.00198	U	0.00198	mg/Kg		08/18/25 15:10	08/19/25 06:34	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		08/18/25 15:10	08/19/25 06:34	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		08/18/25 15:10	08/19/25 06:34	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		08/18/25 15:10	08/19/25 06:34	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		08/18/25 15:10	08/19/25 06:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130			08/18/25 15:10	08/19/25 06:34	1
1,4-Difluorobenzene (Surr)	84		70 - 130			08/18/25 15:10	08/19/25 06:34	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			08/19/25 06:34	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			08/19/25 03:44	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		08/18/25 10:44	08/19/25 03:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/18/25 10:44	08/19/25 03:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/18/25 10:44	08/19/25 03:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130			08/18/25 10:44	08/19/25 03:44	1
o-Terphenyl	96		70 - 130			08/18/25 10:44	08/19/25 03:44	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8634-1
SDG: 03C1558702

Client Sample ID: CS44

Lab Sample ID: 890-8634-19

Date Collected: 08/15/25 12:24

Matrix: Solid

Date Received: 08/15/25 16:45

Sample Depth: SURFACE

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	314		10.1	mg/Kg			08/19/25 00:52	1

Client Sample ID: CS38

Lab Sample ID: 890-8634-20

Date Collected: 08/15/25 12:06

Matrix: Solid

Date Received: 08/15/25 16:45

Sample Depth: SURFACE

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		08/18/25 15:10	08/19/25 06:54	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/18/25 15:10	08/19/25 06:54	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/18/25 15:10	08/19/25 06:54	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/18/25 15:10	08/19/25 06:54	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/18/25 15:10	08/19/25 06:54	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/18/25 15:10	08/19/25 06:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130			08/18/25 15:10	08/19/25 06:54	1
1,4-Difluorobenzene (Surr)	91		70 - 130			08/18/25 15:10	08/19/25 06:54	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			08/19/25 06:54	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	293		49.8	mg/Kg			08/19/25 04:01	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		08/18/25 10:44	08/19/25 04:01	1
Diesel Range Organics (Over C10-C28)	293		49.8	mg/Kg		08/18/25 10:44	08/19/25 04:01	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/18/25 10:44	08/19/25 04:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130			08/18/25 10:44	08/19/25 04:01	1
o-Terphenyl	102		70 - 130			08/18/25 10:44	08/19/25 04:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	219		10.1	mg/Kg			08/19/25 00:59	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8634-1
SDG: 03C1558702

Client Sample ID: CS24

Lab Sample ID: 890-8634-21

Date Collected: 08/15/25 10:39

Matrix: Solid

Date Received: 08/15/25 16:45

Sample Depth: SURFACE

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		08/18/25 17:00	08/18/25 21:31	1
Toluene	<0.00201	U	0.00201	mg/Kg		08/18/25 17:00	08/18/25 21:31	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		08/18/25 17:00	08/18/25 21:31	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		08/18/25 17:00	08/18/25 21:31	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		08/18/25 17:00	08/18/25 21:31	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		08/18/25 17:00	08/18/25 21:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	08/18/25 17:00	08/18/25 21:31	1
1,4-Difluorobenzene (Surr)	121		70 - 130	08/18/25 17:00	08/18/25 21:31	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			08/18/25 21:31	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	416		49.9	mg/Kg			08/18/25 22:18	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/18/25 10:46	08/18/25 22:18	1
Diesel Range Organics (Over C10-C28)	231	F1	49.9	mg/Kg		08/18/25 10:46	08/18/25 22:18	1
Oil Range Organics (Over C28-C36)	185		49.9	mg/Kg		08/18/25 10:46	08/18/25 22:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	08/18/25 10:46	08/18/25 22:18	1
o-Terphenyl	91		70 - 130	08/18/25 10:46	08/18/25 22:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	520		9.96	mg/Kg			08/18/25 18:42	1

Client Sample ID: CS22

Lab Sample ID: 890-8634-22

Date Collected: 08/15/25 10:28

Matrix: Solid

Date Received: 08/15/25 16:45

Sample Depth: SURFACE

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		08/18/25 17:00	08/18/25 21:51	1
Toluene	<0.00202	U	0.00202	mg/Kg		08/18/25 17:00	08/18/25 21:51	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		08/18/25 17:00	08/18/25 21:51	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		08/18/25 17:00	08/18/25 21:51	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		08/18/25 17:00	08/18/25 21:51	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		08/18/25 17:00	08/18/25 21:51	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8634-1
SDG: 03C1558702

Client Sample ID: CS22

Lab Sample ID: 890-8634-22

Date Collected: 08/15/25 10:28

Matrix: Solid

Date Received: 08/15/25 16:45

Sample Depth: SURFACE

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130	08/18/25 17:00	08/18/25 21:51	1
1,4-Difluorobenzene (Surr)	123		70 - 130	08/18/25 17:00	08/18/25 21:51	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			08/18/25 21:51	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			08/18/25 23:05	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		08/18/25 10:46	08/18/25 23:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/18/25 10:46	08/18/25 23:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/18/25 10:46	08/18/25 23:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	08/18/25 10:46	08/18/25 23:05	1
o-Terphenyl	93		70 - 130	08/18/25 10:46	08/18/25 23:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1650		50.5	mg/Kg			08/18/25 18:59	5

Client Sample ID: CS32

Lab Sample ID: 890-8634-23

Date Collected: 08/15/25 10:36

Matrix: Solid

Date Received: 08/15/25 16:45

Sample Depth: SURFACE

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		08/18/25 17:00	08/18/25 22:12	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/18/25 17:00	08/18/25 22:12	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/18/25 17:00	08/18/25 22:12	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/18/25 17:00	08/18/25 22:12	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/18/25 17:00	08/18/25 22:12	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/18/25 17:00	08/18/25 22:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	08/18/25 17:00	08/18/25 22:12	1
1,4-Difluorobenzene (Surr)	109		70 - 130	08/18/25 17:00	08/18/25 22:12	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			08/18/25 22:12	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	150		49.9	mg/Kg			08/18/25 23:20	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8634-1
SDG: 03C1558702

Client Sample ID: CS32

Lab Sample ID: 890-8634-23

Date Collected: 08/15/25 10:36

Matrix: Solid

Date Received: 08/15/25 16:45

Sample Depth: SURFACE

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/18/25 10:46	08/18/25 23:20	1
Diesel Range Organics (Over C10-C28)	150		49.9	mg/Kg		08/18/25 10:46	08/18/25 23:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/18/25 10:46	08/18/25 23:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130			08/18/25 10:46	08/18/25 23:20	1
o-Terphenyl	89		70 - 130			08/18/25 10:46	08/18/25 23:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29.9		10.0	mg/Kg			08/18/25 19:05	1

Client Sample ID: CS39

Lab Sample ID: 890-8634-24

Date Collected: 08/15/25 12:08

Matrix: Solid

Date Received: 08/15/25 16:45

Sample Depth: SURFACE

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		08/18/25 17:00	08/18/25 22:32	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/18/25 17:00	08/18/25 22:32	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/18/25 17:00	08/18/25 22:32	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		08/18/25 17:00	08/18/25 22:32	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/18/25 17:00	08/18/25 22:32	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		08/18/25 17:00	08/18/25 22:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130			08/18/25 17:00	08/18/25 22:32	1
1,4-Difluorobenzene (Surr)	114		70 - 130			08/18/25 17:00	08/18/25 22:32	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			08/18/25 22:32	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			08/18/25 23:36	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		08/18/25 10:46	08/18/25 23:36	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/18/25 10:46	08/18/25 23:36	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/18/25 10:46	08/18/25 23:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130			08/18/25 10:46	08/18/25 23:36	1
o-Terphenyl	89		70 - 130			08/18/25 10:46	08/18/25 23:36	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8634-1
SDG: 03C1558702

Client Sample ID: CS39

Lab Sample ID: 890-8634-24

Date Collected: 08/15/25 12:08

Matrix: Solid

Date Received: 08/15/25 16:45

Sample Depth: SURFACE

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	145		9.90	mg/Kg			08/18/25 19:11	1

Client Sample ID: CS45

Lab Sample ID: 890-8634-25

Date Collected: 08/15/25 12:36

Matrix: Solid

Date Received: 08/15/25 16:45

Sample Depth: SURFACE

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		08/18/25 17:00	08/18/25 22:52	1
Toluene	<0.00198	U	0.00198	mg/Kg		08/18/25 17:00	08/18/25 22:52	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		08/18/25 17:00	08/18/25 22:52	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		08/18/25 17:00	08/18/25 22:52	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		08/18/25 17:00	08/18/25 22:52	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		08/18/25 17:00	08/18/25 22:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130			08/18/25 17:00	08/18/25 22:52	1
1,4-Difluorobenzene (Surr)	118		70 - 130			08/18/25 17:00	08/18/25 22:52	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			08/18/25 22:52	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			08/18/25 23:51	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	<49.8	U	49.8	mg/Kg		08/18/25 10:46	08/18/25 23:51	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/18/25 10:46	08/18/25 23:51	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/18/25 10:46	08/18/25 23:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130			08/18/25 10:46	08/18/25 23:51	1
o-Terphenyl	92		70 - 130			08/18/25 10:46	08/18/25 23:51	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	679		10.1	mg/Kg			08/18/25 19:16	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8634-1
SDG: 03C1558702

Client Sample ID: CS49

Lab Sample ID: 890-8634-26

Date Collected: 08/15/25 12:50

Matrix: Solid

Date Received: 08/15/25 16:45

Sample Depth: SURFACE

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		08/18/25 17:00	08/18/25 23:13	1
Toluene	<0.00201	U	0.00201	mg/Kg		08/18/25 17:00	08/18/25 23:13	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		08/18/25 17:00	08/18/25 23:13	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		08/18/25 17:00	08/18/25 23:13	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		08/18/25 17:00	08/18/25 23:13	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		08/18/25 17:00	08/18/25 23:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130	08/18/25 17:00	08/18/25 23:13	1
1,4-Difluorobenzene (Surr)	123		70 - 130	08/18/25 17:00	08/18/25 23:13	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			08/18/25 23:13	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			08/19/25 00:08	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/18/25 10:46	08/19/25 00:08	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/18/25 10:46	08/19/25 00:08	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/18/25 10:46	08/19/25 00:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	08/18/25 10:46	08/19/25 00:08	1
o-Terphenyl	87		70 - 130	08/18/25 10:46	08/19/25 00:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1070		9.98	mg/Kg			08/18/25 19:33	1

Client Sample ID: CS46

Lab Sample ID: 890-8634-27

Date Collected: 08/15/25 12:39

Matrix: Solid

Date Received: 08/15/25 16:45

Sample Depth: SURFACE

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		08/18/25 17:00	08/19/25 01:03	1
Toluene	<0.00198	U	0.00198	mg/Kg		08/18/25 17:00	08/19/25 01:03	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		08/18/25 17:00	08/19/25 01:03	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		08/18/25 17:00	08/19/25 01:03	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		08/18/25 17:00	08/19/25 01:03	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		08/18/25 17:00	08/19/25 01:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	08/18/25 17:00	08/19/25 01:03	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8634-1
SDG: 03C1558702

Client Sample ID: CS46

Lab Sample ID: 890-8634-27

Date Collected: 08/15/25 12:39

Matrix: Solid

Date Received: 08/15/25 16:45

Sample Depth: SURFACE

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	113		70 - 130	08/18/25 17:00	08/19/25 01:03	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			08/19/25 01:03	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			08/19/25 00:23	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	<49.9	U	49.9	mg/Kg		08/18/25 10:46	08/19/25 00:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/18/25 10:46	08/19/25 00:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/18/25 10:46	08/19/25 00:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130			08/18/25 10:46	08/19/25 00:23	1
o-Terphenyl	88		70 - 130			08/18/25 10:46	08/19/25 00:23	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1370		10.0	mg/Kg			08/18/25 19:39	1

Client Sample ID: CS50

Lab Sample ID: 890-8634-28

Date Collected: 08/15/25 12:54

Matrix: Solid

Date Received: 08/15/25 16:45

Sample Depth: SURFACE

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		08/18/25 17:00	08/19/25 01:24	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/18/25 17:00	08/19/25 01:24	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/18/25 17:00	08/19/25 01:24	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/18/25 17:00	08/19/25 01:24	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/18/25 17:00	08/19/25 01:24	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/18/25 17:00	08/19/25 01:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130	08/18/25 17:00	08/19/25 01:24	1
1,4-Difluorobenzene (Surr)	118		70 - 130	08/18/25 17:00	08/19/25 01:24	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			08/19/25 01:24	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			08/19/25 00:39	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8634-1
SDG: 03C1558702

Client Sample ID: CS50

Lab Sample ID: 890-8634-28

Date Collected: 08/15/25 12:54

Matrix: Solid

Date Received: 08/15/25 16:45

Sample Depth: SURFACE

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		08/18/25 10:46	08/19/25 00:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/18/25 10:46	08/19/25 00:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/18/25 10:46	08/19/25 00:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130			08/18/25 10:46	08/19/25 00:39	1
o-Terphenyl	90		70 - 130			08/18/25 10:46	08/19/25 00:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1170		10.1	mg/Kg			08/18/25 19:45	1

Client Sample ID: CS48

Lab Sample ID: 890-8634-29

Date Collected: 08/15/25 12:48

Matrix: Solid

Date Received: 08/15/25 16:45

Sample Depth: SURFACE

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		08/18/25 17:00	08/19/25 01:44	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/18/25 17:00	08/19/25 01:44	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/18/25 17:00	08/19/25 01:44	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		08/18/25 17:00	08/19/25 01:44	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/18/25 17:00	08/19/25 01:44	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		08/18/25 17:00	08/19/25 01:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130			08/18/25 17:00	08/19/25 01:44	1
1,4-Difluorobenzene (Surr)	116		70 - 130			08/18/25 17:00	08/19/25 01:44	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			08/19/25 01:44	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	76.8		49.8	mg/Kg			08/19/25 00:54	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		08/18/25 10:46	08/19/25 00:54	1
Diesel Range Organics (Over C10-C28)	76.8		49.8	mg/Kg		08/18/25 10:46	08/19/25 00:54	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/18/25 10:46	08/19/25 00:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130			08/18/25 10:46	08/19/25 00:54	1
o-Terphenyl	90		70 - 130			08/18/25 10:46	08/19/25 00:54	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8634-1
SDG: 03C1558702

Client Sample ID: CS48

Lab Sample ID: 890-8634-29

Date Collected: 08/15/25 12:48

Matrix: Solid

Date Received: 08/15/25 16:45

Sample Depth: SURFACE

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1180		10.1	mg/Kg			08/18/25 19:50	1

Client Sample ID: CS47

Lab Sample ID: 890-8634-30

Date Collected: 08/15/25 12:42

Matrix: Solid

Date Received: 08/15/25 16:45

Sample Depth: SURFACE

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		08/18/25 17:00	08/19/25 02:04	1
Toluene	<0.00201	U	0.00201	mg/Kg		08/18/25 17:00	08/19/25 02:04	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		08/18/25 17:00	08/19/25 02:04	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		08/18/25 17:00	08/19/25 02:04	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		08/18/25 17:00	08/19/25 02:04	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		08/18/25 17:00	08/19/25 02:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130			08/18/25 17:00	08/19/25 02:04	1
1,4-Difluorobenzene (Surr)	113		70 - 130			08/18/25 17:00	08/19/25 02:04	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			08/19/25 02:04	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			08/19/25 01:10	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		08/18/25 10:46	08/19/25 01:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/18/25 10:46	08/19/25 01:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/18/25 10:46	08/19/25 01:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130			08/18/25 10:46	08/19/25 01:10	1
o-Terphenyl	93		70 - 130			08/18/25 10:46	08/19/25 01:10	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	360		10.1	mg/Kg			08/18/25 19:56	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8634-1
SDG: 03C1558702

Client Sample ID: CS51

Lab Sample ID: 890-8634-31

Date Collected: 08/15/25 12:58

Matrix: Solid

Date Received: 08/15/25 16:45

Sample Depth: SURFACE

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		08/18/25 17:00	08/19/25 02:25	1
Toluene	<0.00202	U	0.00202	mg/Kg		08/18/25 17:00	08/19/25 02:25	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		08/18/25 17:00	08/19/25 02:25	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		08/18/25 17:00	08/19/25 02:25	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		08/18/25 17:00	08/19/25 02:25	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		08/18/25 17:00	08/19/25 02:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130	08/18/25 17:00	08/19/25 02:25	1
1,4-Difluorobenzene (Surr)	115		70 - 130	08/18/25 17:00	08/19/25 02:25	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			08/19/25 02:25	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			08/19/25 01:40	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		08/18/25 10:46	08/19/25 01:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/18/25 10:46	08/19/25 01:40	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/18/25 10:46	08/19/25 01:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	08/18/25 10:46	08/19/25 01:40	1
o-Terphenyl	92		70 - 130	08/18/25 10:46	08/19/25 01:40	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	58.4		9.98	mg/Kg			08/18/25 20:02	1

Client Sample ID: CS52

Lab Sample ID: 890-8634-32

Date Collected: 08/15/25 13:01

Matrix: Solid

Date Received: 08/15/25 16:45

Sample Depth: SURFACE

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		08/18/25 17:00	08/19/25 02:45	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/18/25 17:00	08/19/25 02:45	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/18/25 17:00	08/19/25 02:45	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/18/25 17:00	08/19/25 02:45	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/18/25 17:00	08/19/25 02:45	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/18/25 17:00	08/19/25 02:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130	08/18/25 17:00	08/19/25 02:45	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8634-1
SDG: 03C1558702

Client Sample ID: CS52

Lab Sample ID: 890-8634-32

Date Collected: 08/15/25 13:01

Matrix: Solid

Date Received: 08/15/25 16:45

Sample Depth: SURFACE

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	117		70 - 130	08/18/25 17:00	08/19/25 02:45	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			08/19/25 02:45	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			08/19/25 01:56	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		08/18/25 10:46	08/19/25 01:56	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/18/25 10:46	08/19/25 01:56	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/18/25 10:46	08/19/25 01:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130			08/18/25 10:46	08/19/25 01:56	1
o-Terphenyl	87		70 - 130			08/18/25 10:46	08/19/25 01:56	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	150		10.1	mg/Kg			08/18/25 20:19	1

Client Sample ID: CS57

Lab Sample ID: 890-8634-33

Date Collected: 08/15/25 13:31

Matrix: Solid

Date Received: 08/15/25 16:45

Sample Depth: SURFACE

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		08/18/25 17:00	08/18/25 21:10	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/18/25 17:00	08/18/25 21:10	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/18/25 17:00	08/18/25 21:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/18/25 17:00	08/18/25 21:10	1
o-Xylene	0.00241		0.00200	mg/Kg		08/18/25 17:00	08/18/25 21:10	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/18/25 17:00	08/18/25 21:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130	08/18/25 17:00	08/18/25 21:10	1
1,4-Difluorobenzene (Surr)	109		70 - 130	08/18/25 17:00	08/18/25 21:10	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			08/18/25 21:10	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			08/19/25 02:11	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8634-1
SDG: 03C1558702

Client Sample ID: CS57

Lab Sample ID: 890-8634-33

Date Collected: 08/15/25 13:31

Matrix: Solid

Date Received: 08/15/25 16:45

Sample Depth: SURFACE

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		08/18/25 10:46	08/19/25 02:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/18/25 10:46	08/19/25 02:11	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/18/25 10:46	08/19/25 02:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130			08/18/25 10:46	08/19/25 02:11	1
o-Terphenyl	90		70 - 130			08/18/25 10:46	08/19/25 02:11	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	358		10.1	mg/Kg			08/18/25 20:24	1

Client Sample ID: CS53

Lab Sample ID: 890-8634-34

Date Collected: 08/15/25 13:06

Matrix: Solid

Date Received: 08/15/25 16:45

Sample Depth: SURFACE

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		08/18/25 17:00	08/19/25 03:06	1
Toluene	<0.00198	U	0.00198	mg/Kg		08/18/25 17:00	08/19/25 03:06	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		08/18/25 17:00	08/19/25 03:06	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		08/18/25 17:00	08/19/25 03:06	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		08/18/25 17:00	08/19/25 03:06	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		08/18/25 17:00	08/19/25 03:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130			08/18/25 17:00	08/19/25 03:06	1
1,4-Difluorobenzene (Surr)	113		70 - 130			08/18/25 17:00	08/19/25 03:06	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			08/19/25 03:06	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			08/19/25 02:26	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		08/18/25 10:46	08/19/25 02:26	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/18/25 10:46	08/19/25 02:26	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/18/25 10:46	08/19/25 02:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130			08/18/25 10:46	08/19/25 02:26	1
o-Terphenyl	97		70 - 130			08/18/25 10:46	08/19/25 02:26	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8634-1
SDG: 03C1558702

Client Sample ID: CS53

Lab Sample ID: 890-8634-34

Date Collected: 08/15/25 13:06

Matrix: Solid

Date Received: 08/15/25 16:45

Sample Depth: SURFACE

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	226		9.90	mg/Kg			08/18/25 20:41	1

Client Sample ID: CS55

Lab Sample ID: 890-8634-35

Date Collected: 08/15/25 13:18

Matrix: Solid

Date Received: 08/15/25 16:45

Sample Depth: SURFACE

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		08/18/25 17:00	08/19/25 03:26	1
Toluene	<0.00198	U	0.00198	mg/Kg		08/18/25 17:00	08/19/25 03:26	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		08/18/25 17:00	08/19/25 03:26	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		08/18/25 17:00	08/19/25 03:26	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		08/18/25 17:00	08/19/25 03:26	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		08/18/25 17:00	08/19/25 03:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130			08/18/25 17:00	08/19/25 03:26	1
1,4-Difluorobenzene (Surr)	119		70 - 130			08/18/25 17:00	08/19/25 03:26	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			08/19/25 03:26	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			08/19/25 02:42	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/18/25 10:46	08/19/25 02:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/18/25 10:46	08/19/25 02:42	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/18/25 10:46	08/19/25 02:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130			08/18/25 10:46	08/19/25 02:42	1
o-Terphenyl	100		70 - 130			08/18/25 10:46	08/19/25 02:42	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	201		10.1	mg/Kg			08/18/25 20:47	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8634-1
SDG: 03C1558702

Client Sample ID: CS56

Lab Sample ID: 890-8634-36

Date Collected: 08/15/25 13:24

Matrix: Solid

Date Received: 08/15/25 16:45

Sample Depth: SURFACE

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		08/18/25 17:00	08/19/25 03:47	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/18/25 17:00	08/19/25 03:47	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/18/25 17:00	08/19/25 03:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/18/25 17:00	08/19/25 03:47	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/18/25 17:00	08/19/25 03:47	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/18/25 17:00	08/19/25 03:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	144	S1+	70 - 130	08/18/25 17:00	08/19/25 03:47	1
1,4-Difluorobenzene (Surr)	122		70 - 130	08/18/25 17:00	08/19/25 03:47	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			08/19/25 03:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			08/19/25 02:57	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		08/18/25 10:46	08/19/25 02:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/18/25 10:46	08/19/25 02:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/18/25 10:46	08/19/25 02:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130	08/18/25 10:46	08/19/25 02:57	1
o-Terphenyl	98		70 - 130	08/18/25 10:46	08/19/25 02:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	37.1		9.90	mg/Kg			08/18/25 20:53	1

Client Sample ID: CS54

Lab Sample ID: 890-8634-37

Date Collected: 08/15/25 13:12

Matrix: Solid

Date Received: 08/15/25 16:45

Sample Depth: SURFACE

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		08/18/25 17:00	08/19/25 04:07	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/18/25 17:00	08/19/25 04:07	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/18/25 17:00	08/19/25 04:07	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/18/25 17:00	08/19/25 04:07	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/18/25 17:00	08/19/25 04:07	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/18/25 17:00	08/19/25 04:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130	08/18/25 17:00	08/19/25 04:07	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8634-1
SDG: 03C1558702

Client Sample ID: CS54

Lab Sample ID: 890-8634-37

Date Collected: 08/15/25 13:12

Matrix: Solid

Date Received: 08/15/25 16:45

Sample Depth: SURFACE

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	115		70 - 130	08/18/25 17:00	08/19/25 04:07	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			08/19/25 04:07	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			08/19/25 03:13	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		08/18/25 10:46	08/19/25 03:13	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/18/25 10:46	08/19/25 03:13	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/18/25 10:46	08/19/25 03:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	08/18/25 10:46	08/19/25 03:13	1
o-Terphenyl	102		70 - 130	08/18/25 10:46	08/19/25 03:13	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33.4		10.0	mg/Kg			08/18/25 20:58	1

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Surrogate Summary

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8634-1
SDG: 03C1558702

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
880-61589-A-1-D MS	Matrix Spike	109	108
880-61589-A-1-E MSD	Matrix Spike Duplicate	108	103
890-8634-1	CS30	117	90
890-8634-1 MS	CS30	114	93
890-8634-1 MSD	CS30	109	90
890-8634-2	CS28	110	88
890-8634-3	CS23	115	83
890-8634-4	CS29	115	83
890-8634-5	CS36	115	88
890-8634-6	CS37	115	88
890-8634-7	CS33	111	89
890-8634-8	CS42	121	86
890-8634-9	CS41	125	85
890-8634-10	CS31	108	89
890-8634-11	CS40	116	86
890-8634-12	CS34	107	90
890-8634-13	CS21	114	88
890-8634-14	CS26	119	85
890-8634-15	CS43	121	86
890-8634-16	CS35	111	86
890-8634-17	CS25	108	90
890-8634-18	CS27	114	87
890-8634-19	CS44	114	84
890-8634-20	CS38	113	91
890-8634-21	CS24	121	121
890-8634-22	CS22	129	123
890-8634-23	CS32	118	109
890-8634-24	CS39	126	114
890-8634-25	CS45	129	118
890-8634-26	CS49	131 S1+	123
890-8634-27	CS46	110	113
890-8634-28	CS50	129	118
890-8634-29	CS48	129	116
890-8634-30	CS47	119	113
890-8634-31	CS51	133 S1+	115
890-8634-32	CS52	130	117
890-8634-33	CS57	128	109
890-8634-34	CS53	121	113
890-8634-35	CS55	137 S1+	119
890-8634-36	CS56	144 S1+	122
890-8634-37	CS54	138 S1+	115
LCS 880-116899/1-A	Lab Control Sample	108	100
LCS 880-116976/1-A	Lab Control Sample	111	92
LCSD 880-116899/2-A	Lab Control Sample Dup	103	99
LCSD 880-116976/2-A	Lab Control Sample Dup	114	90
MB 880-116868/5-A	Method Blank	106	83
MB 880-116899/5-A	Method Blank	155 S1+	93
MB 880-116976/5-A	Method Blank	106	86

Surrogate Legend

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Surrogate Summary

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8634-1
SDG: 03C1558702

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1	OTPH1
		(70-130)	(70-130)
890-8634-1	CS30	95	101
890-8634-1 MS	CS30	102	96
890-8634-1 MSD	CS30	101	96
890-8634-2	CS28	91	98
890-8634-3	CS23	91	97
890-8634-4	CS29	94	99
890-8634-5	CS36	87	120
890-8634-6	CS37	89	96
890-8634-7	CS33	89	97
890-8634-8	CS42	93	101
890-8634-9	CS41	90	99
890-8634-10	CS31	91	97
890-8634-11	CS40	88	96
890-8634-12	CS34	93	98
890-8634-13	CS21	92	97
890-8634-14	CS26	94	100
890-8634-15	CS43	94	98
890-8634-16	CS35	93	101
890-8634-17	CS25	96	101
890-8634-18	CS27	91	98
890-8634-19	CS44	91	96
890-8634-20	CS38	94	102
890-8634-21	CS24	98	91
890-8634-21 MS	CS24	92	94
890-8634-21 MSD	CS24	92	90
890-8634-22	CS22	102	93
890-8634-23	CS32	89	89
890-8634-24	CS39	93	89
890-8634-25	CS45	95	92
890-8634-26	CS49	92	87
890-8634-27	CS46	92	88
890-8634-28	CS50	96	90
890-8634-29	CS48	94	90
890-8634-30	CS47	96	93
890-8634-31	CS51	97	92
890-8634-32	CS52	90	87
890-8634-33	CS57	93	90
890-8634-34	CS53	107	97
890-8634-35	CS55	110	100
890-8634-36	CS56	111	98
890-8634-37	CS54	110	102
LCS 880-116907/2-A	Lab Control Sample	93	86
LCS 880-116908/2-A	Lab Control Sample	83	83
LCSD 880-116907/3-A	Lab Control Sample Dup	75	86
LCSD 880-116908/3-A	Lab Control Sample Dup	72	75
MB 880-116907/1-A	Method Blank	73	76
MB 880-116908/1-A	Method Blank	81	73

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Surrogate Summary

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8634-1
SDG: 03C1558702

Surrogate Legend
1CO = 1-Chlorooctane
OTPH = o-Terphenyl

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

QC Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8634-1
SDG: 03C1558702

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-116868/5-A

Matrix: Solid

Analysis Batch: 116870

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 116868

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/18/25 07:54	08/18/25 11:16	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/18/25 07:54	08/18/25 11:16	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/18/25 07:54	08/18/25 11:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/18/25 07:54	08/18/25 11:16	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/18/25 07:54	08/18/25 11:16	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/18/25 07:54	08/18/25 11:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	08/18/25 07:54	08/18/25 11:16	1
1,4-Difluorobenzene (Surr)	83		70 - 130	08/18/25 07:54	08/18/25 11:16	1

Lab Sample ID: MB 880-116899/5-A

Matrix: Solid

Analysis Batch: 116996

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 116899

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/18/25 10:15	08/18/25 19:40	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/18/25 10:15	08/18/25 19:40	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/18/25 10:15	08/18/25 19:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/18/25 10:15	08/18/25 19:40	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/18/25 10:15	08/18/25 19:40	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/18/25 10:15	08/18/25 19:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	155	S1+	70 - 130	08/18/25 10:15	08/18/25 19:40	1
1,4-Difluorobenzene (Surr)	93		70 - 130	08/18/25 10:15	08/18/25 19:40	1

Lab Sample ID: LCS 880-116899/1-A

Matrix: Solid

Analysis Batch: 116996

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 116899

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1057		mg/Kg		106	70 - 130
Toluene	0.100	0.09913		mg/Kg		99	70 - 130
Ethylbenzene	0.100	0.09531		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	0.200	0.2075		mg/Kg		104	70 - 130
o-Xylene	0.100	0.1161		mg/Kg		116	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-116899/2-A

Matrix: Solid

Analysis Batch: 116996

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 116899

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.1109		mg/Kg		111	70 - 130	5	35

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QC Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8634-1
SDG: 03C1558702

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

Lab Sample ID: LCSD 880-116899/2-A

Matrix: Solid

Analysis Batch: 116996

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 116899

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.08839		mg/Kg		88	70 - 130	11	35
Ethylbenzene	0.100	0.08977		mg/Kg		90	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.1638		mg/Kg		82	70 - 130	24	35
o-Xylene	0.100	0.09348		mg/Kg		93	70 - 130	22	35

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

Lab Sample ID: 880-61589-A-1-D MS

Matrix: Solid

Analysis Batch: 116996

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 116899

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.1026		mg/Kg		103	70 - 130
Toluene	<0.00200	U F1	0.100	0.07665		mg/Kg		77	70 - 130
Ethylbenzene	<0.00200	U F1	0.100	0.07253		mg/Kg		73	70 - 130
m-Xylene & p-Xylene	<0.00400	U F1	0.200	0.1365	F1	mg/Kg		68	70 - 130
o-Xylene	<0.00200	U F2 F1	0.100	0.08780		mg/Kg		88	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: 880-61589-A-1-E MSD

Matrix: Solid

Analysis Batch: 116996

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 116899

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.08197		mg/Kg		82	70 - 130	22	35
Toluene	<0.00200	U F1	0.100	0.06621	F1	mg/Kg		66	70 - 130	15	35
Ethylbenzene	<0.00200	U F1	0.100	0.05286	F1	mg/Kg		53	70 - 130	31	35
m-Xylene & p-Xylene	<0.00400	U F1	0.200	0.1105	F1	mg/Kg		55	70 - 130	21	35
o-Xylene	<0.00200	U F2 F1	0.100	0.05836	F2 F1	mg/Kg		58	70 - 130	40	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: MB 880-116976/5-A

Matrix: Solid

Analysis Batch: 116870

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 116976

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/18/25 15:10	08/18/25 22:50	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/18/25 15:10	08/18/25 22:50	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/18/25 15:10	08/18/25 22:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/18/25 15:10	08/18/25 22:50	1

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QC Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8634-1
SDG: 03C1558702

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

Lab Sample ID: MB 880-116976/5-A

Matrix: Solid

Analysis Batch: 116870

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 116976

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/18/25 15:10	08/18/25 22:50	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/18/25 15:10	08/18/25 22:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	08/18/25 15:10	08/18/25 22:50	1
1,4-Difluorobenzene (Surr)	86		70 - 130	08/18/25 15:10	08/18/25 22:50	1

Lab Sample ID: LCS 880-116976/1-A

Matrix: Solid

Analysis Batch: 116870

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 116976

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1009		mg/Kg		101	70 - 130
Toluene	0.100	0.09817		mg/Kg		98	70 - 130
Ethylbenzene	0.100	0.1108		mg/Kg		111	70 - 130
m-Xylene & p-Xylene	0.200	0.2174		mg/Kg		109	70 - 130
o-Xylene	0.100	0.1088		mg/Kg		109	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: LCSD 880-116976/2-A

Matrix: Solid

Analysis Batch: 116870

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 116976

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.1027		mg/Kg		103	70 - 130	2	35
Toluene	0.100	0.1003		mg/Kg		100	70 - 130	2	35
Ethylbenzene	0.100	0.1150		mg/Kg		115	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.2266		mg/Kg		113	70 - 130	4	35
o-Xylene	0.100	0.1130		mg/Kg		113	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

Lab Sample ID: 890-8634-1 MS

Matrix: Solid

Analysis Batch: 116870

Client Sample ID: CS30

Prep Type: Total/NA

Prep Batch: 116976

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.09415		mg/Kg		94	70 - 130
Toluene	<0.00200	U	0.100	0.09006		mg/Kg		90	70 - 130
Ethylbenzene	<0.00200	U	0.100	0.1027		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1996		mg/Kg		100	70 - 130
o-Xylene	<0.00200	U	0.100	0.09997		mg/Kg		100	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8634-1
SDG: 03C1558702

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

Lab Sample ID: 890-8634-1 MS

Matrix: Solid

Analysis Batch: 116870

Client Sample ID: CS30

Prep Type: Total/NA

Prep Batch: 116976

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: 890-8634-1 MSD

Matrix: Solid

Analysis Batch: 116870

Client Sample ID: CS30

Prep Type: Total/NA

Prep Batch: 116976

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.09173		mg/Kg		92	70 - 130	3	35
Toluene	<0.00200	U	0.100	0.08834		mg/Kg		88	70 - 130	2	35
Ethylbenzene	<0.00200	U	0.100	0.09851		mg/Kg		99	70 - 130	4	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1927		mg/Kg		96	70 - 130	4	35
o-Xylene	<0.00200	U	0.100	0.09522		mg/Kg		95	70 - 130	5	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

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

Lab Sample ID: MB 880-116907/1-A

Matrix: Solid

Analysis Batch: 116927

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 116907

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		08/18/25 10:37	08/18/25 21:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/18/25 10:37	08/18/25 21:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/18/25 10:37	08/18/25 21:31	1

	MB	MB		Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits			
1-Chlorooctane	73		70 - 130	08/18/25 10:37	08/18/25 21:31	1
o-Terphenyl	76		70 - 130	08/18/25 10:37	08/18/25 21:31	1

Lab Sample ID: LCS 880-116907/2-A

Matrix: Solid

Analysis Batch: 116927

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 116907

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1082		mg/Kg		108	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1032		mg/Kg		103	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	93		70 - 130
o-Terphenyl	86		70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8634-1
SDG: 03C1558702

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

Lab Sample ID: LCSD 880-116907/3-A

Matrix: Solid

Analysis Batch: 116927

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 116907

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1044		mg/Kg		104	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	1081		mg/Kg		108	70 - 130	5	20
	LCSD	LCSD							
Surrogate	%Recovery	Qualifier	Limits						
1-Chlorooctane	75		70 - 130						
o-Terphenyl	86		70 - 130						

Lab Sample ID: 890-8634-1 MS

Matrix: Solid

Analysis Batch: 116927

Client Sample ID: CS30

Prep Type: Total/NA

Prep Batch: 116907

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	898.7		mg/Kg		88	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	999	882.1		mg/Kg		88	70 - 130		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	102		70 - 130								
o-Terphenyl	96		70 - 130								

Lab Sample ID: 890-8634-1 MSD

Matrix: Solid

Analysis Batch: 116927

Client Sample ID: CS30

Prep Type: Total/NA

Prep Batch: 116907

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	915.9		mg/Kg		90	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.0	U	999	889.3		mg/Kg		89	70 - 130	1	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	101		70 - 130								
o-Terphenyl	96		70 - 130								

Lab Sample ID: MB 880-116908/1-A

Matrix: Solid

Analysis Batch: 116930

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 116908

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		08/18/25 10:37	08/18/25 21:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/18/25 10:37	08/18/25 21:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/18/25 10:37	08/18/25 21:31	1

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QC Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8634-1
SDG: 03C1558702

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

Lab Sample ID: MB 880-116908/1-A

Matrix: Solid

Analysis Batch: 116930

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 116908

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130	08/18/25 10:37	08/18/25 21:31	1
o-Terphenyl	73		70 - 130	08/18/25 10:37	08/18/25 21:31	1

Lab Sample ID: LCS 880-116908/2-A

Matrix: Solid

Analysis Batch: 116930

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 116908

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	951.8		mg/Kg		95	70 - 130
Diesel Range Organics (Over C10-C28)	1000	888.9		mg/Kg		89	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	83		70 - 130
o-Terphenyl	83		70 - 130

Lab Sample ID: LCSD 880-116908/3-A

Matrix: Solid

Analysis Batch: 116930

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 116908

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	838.8		mg/Kg		84	70 - 130	13	20
Diesel Range Organics (Over C10-C28)	1000	797.4		mg/Kg		80	70 - 130	11	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	72		70 - 130
o-Terphenyl	75		70 - 130

Lab Sample ID: 890-8634-21 MS

Matrix: Solid

Analysis Batch: 116930

Client Sample ID: CS24

Prep Type: Total/NA

Prep Batch: 116908

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	863.2		mg/Kg		86	70 - 130
Diesel Range Organics (Over C10-C28)	231	F1	999	842.5	F1	mg/Kg		61	70 - 130

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

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QC Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8634-1
SDG: 03C1558702

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

Lab Sample ID: 890-8634-21 MSD

Matrix: Solid

Analysis Batch: 116930

Client Sample ID: CS24

Prep Type: Total/NA

Prep Batch: 116908

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	903.9		mg/Kg		90	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	231	F1	999	833.4	F1	mg/Kg		60	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	92		70 - 130								
o-Terphenyl	90		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-116906/1-A

Matrix: Solid

Analysis Batch: 116999

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0	mg/Kg			08/18/25 18:25	1

Lab Sample ID: LCS 880-116906/2-A

Matrix: Solid

Analysis Batch: 116999

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	235.4		mg/Kg		94	90 - 110

Lab Sample ID: LCSD 880-116906/3-A

Matrix: Solid

Analysis Batch: 116999

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	235.8		mg/Kg		94	90 - 110	0	20

Lab Sample ID: 890-8634-21 MS

Matrix: Solid

Analysis Batch: 116999

Client Sample ID: CS24

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	520		249	747.9		mg/Kg		92	90 - 110

Lab Sample ID: 890-8634-21 MSD

Matrix: Solid

Analysis Batch: 116999

Client Sample ID: CS24

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	520		249	751.9		mg/Kg		93	90 - 110	1	20

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QC Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8634-1
SDG: 03C1558702

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-8634-31 MS

Matrix: Solid

Analysis Batch: 116999

Client Sample ID: CS51

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	58.4		250	293.8		mg/Kg		94	90 - 110

Lab Sample ID: 890-8634-31 MSD

Matrix: Solid

Analysis Batch: 116999

Client Sample ID: CS51

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	58.4		250	293.9		mg/Kg		94	90 - 110	0	20

Lab Sample ID: MB 880-116905/1-A

Matrix: Solid

Analysis Batch: 117003

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0	mg/Kg			08/18/25 21:12	1

Lab Sample ID: LCS 880-116905/2-A

Matrix: Solid

Analysis Batch: 117003

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	244.9		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-116905/3-A

Matrix: Solid

Analysis Batch: 117003

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	242.4		mg/Kg		97	90 - 110	1	20

Lab Sample ID: 890-8634-1 MS

Matrix: Solid

Analysis Batch: 117003

Client Sample ID: CS30

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1020	F1	1260	2549	F1	mg/Kg		122	90 - 110

Lab Sample ID: 890-8634-1 MSD

Matrix: Solid

Analysis Batch: 117003

Client Sample ID: CS30

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1020	F1	1260	2562	F1	mg/Kg		123	90 - 110	1	20

Lab Sample ID: 890-8634-11 MS

Matrix: Solid

Analysis Batch: 117003

Client Sample ID: CS40

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	308		253	574.0		mg/Kg		105	90 - 110

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QC Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8634-1
SDG: 03C1558702

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-8634-11 MSD							Client Sample ID: CS40					
Matrix: Solid							Prep Type: Soluble					
Analysis Batch: 117003												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	308		253	548.0		mg/Kg		95	90 - 110	5	20	

QC Association Summary

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8634-1
SDG: 03C1558702

GC VOA

Prep Batch: 116868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-116868/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 116870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8634-1	CS30	Total/NA	Solid	8021B	116976
890-8634-2	CS28	Total/NA	Solid	8021B	116976
890-8634-3	CS23	Total/NA	Solid	8021B	116976
890-8634-4	CS29	Total/NA	Solid	8021B	116976
890-8634-5	CS36	Total/NA	Solid	8021B	116976
890-8634-6	CS37	Total/NA	Solid	8021B	116976
890-8634-7	CS33	Total/NA	Solid	8021B	116976
890-8634-8	CS42	Total/NA	Solid	8021B	116976
890-8634-9	CS41	Total/NA	Solid	8021B	116976
890-8634-10	CS31	Total/NA	Solid	8021B	116976
890-8634-11	CS40	Total/NA	Solid	8021B	116976
890-8634-12	CS34	Total/NA	Solid	8021B	116976
890-8634-13	CS21	Total/NA	Solid	8021B	116976
890-8634-14	CS26	Total/NA	Solid	8021B	116976
890-8634-15	CS43	Total/NA	Solid	8021B	116976
890-8634-16	CS35	Total/NA	Solid	8021B	116976
890-8634-17	CS25	Total/NA	Solid	8021B	116976
890-8634-18	CS27	Total/NA	Solid	8021B	116976
890-8634-19	CS44	Total/NA	Solid	8021B	116976
890-8634-20	CS38	Total/NA	Solid	8021B	116976
MB 880-116868/5-A	Method Blank	Total/NA	Solid	8021B	116868
MB 880-116976/5-A	Method Blank	Total/NA	Solid	8021B	116976
LCS 880-116976/1-A	Lab Control Sample	Total/NA	Solid	8021B	116976
LCSD 880-116976/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	116976
890-8634-1 MS	CS30	Total/NA	Solid	8021B	116976
890-8634-1 MSD	CS30	Total/NA	Solid	8021B	116976

Prep Batch: 116899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8634-21	CS24	Total/NA	Solid	5035	
890-8634-22	CS22	Total/NA	Solid	5035	
890-8634-23	CS32	Total/NA	Solid	5035	
890-8634-24	CS39	Total/NA	Solid	5035	
890-8634-25	CS45	Total/NA	Solid	5035	
890-8634-26	CS49	Total/NA	Solid	5035	
890-8634-27	CS46	Total/NA	Solid	5035	
890-8634-28	CS50	Total/NA	Solid	5035	
890-8634-29	CS48	Total/NA	Solid	5035	
890-8634-30	CS47	Total/NA	Solid	5035	
890-8634-31	CS51	Total/NA	Solid	5035	
890-8634-32	CS52	Total/NA	Solid	5035	
890-8634-33	CS57	Total/NA	Solid	5035	
890-8634-34	CS53	Total/NA	Solid	5035	
890-8634-35	CS55	Total/NA	Solid	5035	
890-8634-36	CS56	Total/NA	Solid	5035	
890-8634-37	CS54	Total/NA	Solid	5035	
MB 880-116899/5-A	Method Blank	Total/NA	Solid	5035	

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8634-1
SDG: 03C1558702

GC VOA (Continued)

Prep Batch: 116899 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-116899/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-116899/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-61589-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
880-61589-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 116976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8634-1	CS30	Total/NA	Solid	5035	
890-8634-2	CS28	Total/NA	Solid	5035	
890-8634-3	CS23	Total/NA	Solid	5035	
890-8634-4	CS29	Total/NA	Solid	5035	
890-8634-5	CS36	Total/NA	Solid	5035	
890-8634-6	CS37	Total/NA	Solid	5035	
890-8634-7	CS33	Total/NA	Solid	5035	
890-8634-8	CS42	Total/NA	Solid	5035	
890-8634-9	CS41	Total/NA	Solid	5035	
890-8634-10	CS31	Total/NA	Solid	5035	
890-8634-11	CS40	Total/NA	Solid	5035	
890-8634-12	CS34	Total/NA	Solid	5035	
890-8634-13	CS21	Total/NA	Solid	5035	
890-8634-14	CS26	Total/NA	Solid	5035	
890-8634-15	CS43	Total/NA	Solid	5035	
890-8634-16	CS35	Total/NA	Solid	5035	
890-8634-17	CS25	Total/NA	Solid	5035	
890-8634-18	CS27	Total/NA	Solid	5035	
890-8634-19	CS44	Total/NA	Solid	5035	
890-8634-20	CS38	Total/NA	Solid	5035	
MB 880-116976/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-116976/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-116976/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8634-1 MS	CS30	Total/NA	Solid	5035	
890-8634-1 MSD	CS30	Total/NA	Solid	5035	

Analysis Batch: 116996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8634-21	CS24	Total/NA	Solid	8021B	116899
890-8634-22	CS22	Total/NA	Solid	8021B	116899
890-8634-23	CS32	Total/NA	Solid	8021B	116899
890-8634-24	CS39	Total/NA	Solid	8021B	116899
890-8634-25	CS45	Total/NA	Solid	8021B	116899
890-8634-26	CS49	Total/NA	Solid	8021B	116899
890-8634-27	CS46	Total/NA	Solid	8021B	116899
890-8634-28	CS50	Total/NA	Solid	8021B	116899
890-8634-29	CS48	Total/NA	Solid	8021B	116899
890-8634-30	CS47	Total/NA	Solid	8021B	116899
890-8634-31	CS51	Total/NA	Solid	8021B	116899
890-8634-32	CS52	Total/NA	Solid	8021B	116899
890-8634-33	CS57	Total/NA	Solid	8021B	116899
890-8634-34	CS53	Total/NA	Solid	8021B	116899
890-8634-35	CS55	Total/NA	Solid	8021B	116899
890-8634-36	CS56	Total/NA	Solid	8021B	116899

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8634-1
SDG: 03C1558702

GC VOA (Continued)

Analysis Batch: 116996 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8634-37	CS54	Total/NA	Solid	8021B	116899
MB 880-116899/5-A	Method Blank	Total/NA	Solid	8021B	116899
LCS 880-116899/1-A	Lab Control Sample	Total/NA	Solid	8021B	116899
LCSD 880-116899/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	116899
880-61589-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	116899
880-61589-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	116899

Analysis Batch: 117033

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8634-1	CS30	Total/NA	Solid	Total BTEX	
890-8634-2	CS28	Total/NA	Solid	Total BTEX	
890-8634-3	CS23	Total/NA	Solid	Total BTEX	
890-8634-4	CS29	Total/NA	Solid	Total BTEX	
890-8634-5	CS36	Total/NA	Solid	Total BTEX	
890-8634-6	CS37	Total/NA	Solid	Total BTEX	
890-8634-7	CS33	Total/NA	Solid	Total BTEX	
890-8634-8	CS42	Total/NA	Solid	Total BTEX	
890-8634-9	CS41	Total/NA	Solid	Total BTEX	
890-8634-10	CS31	Total/NA	Solid	Total BTEX	
890-8634-11	CS40	Total/NA	Solid	Total BTEX	
890-8634-12	CS34	Total/NA	Solid	Total BTEX	
890-8634-13	CS21	Total/NA	Solid	Total BTEX	
890-8634-14	CS26	Total/NA	Solid	Total BTEX	
890-8634-15	CS43	Total/NA	Solid	Total BTEX	
890-8634-16	CS35	Total/NA	Solid	Total BTEX	
890-8634-17	CS25	Total/NA	Solid	Total BTEX	
890-8634-18	CS27	Total/NA	Solid	Total BTEX	
890-8634-19	CS44	Total/NA	Solid	Total BTEX	
890-8634-20	CS38	Total/NA	Solid	Total BTEX	
890-8634-21	CS24	Total/NA	Solid	Total BTEX	
890-8634-22	CS22	Total/NA	Solid	Total BTEX	
890-8634-23	CS32	Total/NA	Solid	Total BTEX	
890-8634-24	CS39	Total/NA	Solid	Total BTEX	
890-8634-25	CS45	Total/NA	Solid	Total BTEX	
890-8634-26	CS49	Total/NA	Solid	Total BTEX	
890-8634-27	CS46	Total/NA	Solid	Total BTEX	
890-8634-28	CS50	Total/NA	Solid	Total BTEX	
890-8634-29	CS48	Total/NA	Solid	Total BTEX	
890-8634-30	CS47	Total/NA	Solid	Total BTEX	
890-8634-31	CS51	Total/NA	Solid	Total BTEX	
890-8634-32	CS52	Total/NA	Solid	Total BTEX	
890-8634-33	CS57	Total/NA	Solid	Total BTEX	
890-8634-34	CS53	Total/NA	Solid	Total BTEX	
890-8634-35	CS55	Total/NA	Solid	Total BTEX	
890-8634-36	CS56	Total/NA	Solid	Total BTEX	
890-8634-37	CS54	Total/NA	Solid	Total BTEX	

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8634-1
SDG: 03C1558702

GC Semi VOA

Prep Batch: 116907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8634-1	CS30	Total/NA	Solid	8015NM Prep	
890-8634-2	CS28	Total/NA	Solid	8015NM Prep	
890-8634-3	CS23	Total/NA	Solid	8015NM Prep	
890-8634-4	CS29	Total/NA	Solid	8015NM Prep	
890-8634-5	CS36	Total/NA	Solid	8015NM Prep	
890-8634-6	CS37	Total/NA	Solid	8015NM Prep	
890-8634-7	CS33	Total/NA	Solid	8015NM Prep	
890-8634-8	CS42	Total/NA	Solid	8015NM Prep	
890-8634-9	CS41	Total/NA	Solid	8015NM Prep	
890-8634-10	CS31	Total/NA	Solid	8015NM Prep	
890-8634-11	CS40	Total/NA	Solid	8015NM Prep	
890-8634-12	CS34	Total/NA	Solid	8015NM Prep	
890-8634-13	CS21	Total/NA	Solid	8015NM Prep	
890-8634-14	CS26	Total/NA	Solid	8015NM Prep	
890-8634-15	CS43	Total/NA	Solid	8015NM Prep	
890-8634-16	CS35	Total/NA	Solid	8015NM Prep	
890-8634-17	CS25	Total/NA	Solid	8015NM Prep	
890-8634-18	CS27	Total/NA	Solid	8015NM Prep	
890-8634-19	CS44	Total/NA	Solid	8015NM Prep	
890-8634-20	CS38	Total/NA	Solid	8015NM Prep	
MB 880-116907/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-116907/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-116907/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8634-1 MS	CS30	Total/NA	Solid	8015NM Prep	
890-8634-1 MSD	CS30	Total/NA	Solid	8015NM Prep	

Prep Batch: 116908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8634-21	CS24	Total/NA	Solid	8015NM Prep	
890-8634-22	CS22	Total/NA	Solid	8015NM Prep	
890-8634-23	CS32	Total/NA	Solid	8015NM Prep	
890-8634-24	CS39	Total/NA	Solid	8015NM Prep	
890-8634-25	CS45	Total/NA	Solid	8015NM Prep	
890-8634-26	CS49	Total/NA	Solid	8015NM Prep	
890-8634-27	CS46	Total/NA	Solid	8015NM Prep	
890-8634-28	CS50	Total/NA	Solid	8015NM Prep	
890-8634-29	CS48	Total/NA	Solid	8015NM Prep	
890-8634-30	CS47	Total/NA	Solid	8015NM Prep	
890-8634-31	CS51	Total/NA	Solid	8015NM Prep	
890-8634-32	CS52	Total/NA	Solid	8015NM Prep	
890-8634-33	CS57	Total/NA	Solid	8015NM Prep	
890-8634-34	CS53	Total/NA	Solid	8015NM Prep	
890-8634-35	CS55	Total/NA	Solid	8015NM Prep	
890-8634-36	CS56	Total/NA	Solid	8015NM Prep	
890-8634-37	CS54	Total/NA	Solid	8015NM Prep	
MB 880-116908/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-116908/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-116908/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8634-21 MS	CS24	Total/NA	Solid	8015NM Prep	
890-8634-21 MSD	CS24	Total/NA	Solid	8015NM Prep	

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8634-1
SDG: 03C1558702

GC Semi VOA

Analysis Batch: 116927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8634-1	CS30	Total/NA	Solid	8015B NM	116907
890-8634-2	CS28	Total/NA	Solid	8015B NM	116907
890-8634-3	CS23	Total/NA	Solid	8015B NM	116907
890-8634-4	CS29	Total/NA	Solid	8015B NM	116907
890-8634-5	CS36	Total/NA	Solid	8015B NM	116907
890-8634-6	CS37	Total/NA	Solid	8015B NM	116907
890-8634-7	CS33	Total/NA	Solid	8015B NM	116907
890-8634-8	CS42	Total/NA	Solid	8015B NM	116907
890-8634-9	CS41	Total/NA	Solid	8015B NM	116907
890-8634-10	CS31	Total/NA	Solid	8015B NM	116907
890-8634-11	CS40	Total/NA	Solid	8015B NM	116907
890-8634-12	CS34	Total/NA	Solid	8015B NM	116907
890-8634-13	CS21	Total/NA	Solid	8015B NM	116907
890-8634-14	CS26	Total/NA	Solid	8015B NM	116907
890-8634-15	CS43	Total/NA	Solid	8015B NM	116907
890-8634-16	CS35	Total/NA	Solid	8015B NM	116907
890-8634-17	CS25	Total/NA	Solid	8015B NM	116907
890-8634-18	CS27	Total/NA	Solid	8015B NM	116907
890-8634-19	CS44	Total/NA	Solid	8015B NM	116907
890-8634-20	CS38	Total/NA	Solid	8015B NM	116907
MB 880-116907/1-A	Method Blank	Total/NA	Solid	8015B NM	116907
LCS 880-116907/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	116907
LCSD 880-116907/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	116907
890-8634-1 MS	CS30	Total/NA	Solid	8015B NM	116907
890-8634-1 MSD	CS30	Total/NA	Solid	8015B NM	116907

Analysis Batch: 116930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8634-21	CS24	Total/NA	Solid	8015B NM	116908
890-8634-22	CS22	Total/NA	Solid	8015B NM	116908
890-8634-23	CS32	Total/NA	Solid	8015B NM	116908
890-8634-24	CS39	Total/NA	Solid	8015B NM	116908
890-8634-25	CS45	Total/NA	Solid	8015B NM	116908
890-8634-26	CS49	Total/NA	Solid	8015B NM	116908
890-8634-27	CS46	Total/NA	Solid	8015B NM	116908
890-8634-28	CS50	Total/NA	Solid	8015B NM	116908
890-8634-29	CS48	Total/NA	Solid	8015B NM	116908
890-8634-30	CS47	Total/NA	Solid	8015B NM	116908
890-8634-31	CS51	Total/NA	Solid	8015B NM	116908
890-8634-32	CS52	Total/NA	Solid	8015B NM	116908
890-8634-33	CS57	Total/NA	Solid	8015B NM	116908
890-8634-34	CS53	Total/NA	Solid	8015B NM	116908
890-8634-35	CS55	Total/NA	Solid	8015B NM	116908
890-8634-36	CS56	Total/NA	Solid	8015B NM	116908
890-8634-37	CS54	Total/NA	Solid	8015B NM	116908
MB 880-116908/1-A	Method Blank	Total/NA	Solid	8015B NM	116908
LCS 880-116908/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	116908
LCSD 880-116908/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	116908
890-8634-21 MS	CS24	Total/NA	Solid	8015B NM	116908
890-8634-21 MSD	CS24	Total/NA	Solid	8015B NM	116908

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8634-1
SDG: 03C1558702

GC Semi VOA

Analysis Batch: 117025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8634-1	CS30	Total/NA	Solid	8015 NM	
890-8634-2	CS28	Total/NA	Solid	8015 NM	
890-8634-3	CS23	Total/NA	Solid	8015 NM	
890-8634-4	CS29	Total/NA	Solid	8015 NM	
890-8634-5	CS36	Total/NA	Solid	8015 NM	
890-8634-6	CS37	Total/NA	Solid	8015 NM	
890-8634-7	CS33	Total/NA	Solid	8015 NM	
890-8634-8	CS42	Total/NA	Solid	8015 NM	
890-8634-9	CS41	Total/NA	Solid	8015 NM	
890-8634-10	CS31	Total/NA	Solid	8015 NM	
890-8634-11	CS40	Total/NA	Solid	8015 NM	
890-8634-12	CS34	Total/NA	Solid	8015 NM	
890-8634-13	CS21	Total/NA	Solid	8015 NM	
890-8634-14	CS26	Total/NA	Solid	8015 NM	
890-8634-15	CS43	Total/NA	Solid	8015 NM	
890-8634-16	CS35	Total/NA	Solid	8015 NM	
890-8634-17	CS25	Total/NA	Solid	8015 NM	
890-8634-18	CS27	Total/NA	Solid	8015 NM	
890-8634-19	CS44	Total/NA	Solid	8015 NM	
890-8634-20	CS38	Total/NA	Solid	8015 NM	
890-8634-21	CS24	Total/NA	Solid	8015 NM	
890-8634-22	CS22	Total/NA	Solid	8015 NM	
890-8634-23	CS32	Total/NA	Solid	8015 NM	
890-8634-24	CS39	Total/NA	Solid	8015 NM	
890-8634-25	CS45	Total/NA	Solid	8015 NM	
890-8634-26	CS49	Total/NA	Solid	8015 NM	
890-8634-27	CS46	Total/NA	Solid	8015 NM	
890-8634-28	CS50	Total/NA	Solid	8015 NM	
890-8634-29	CS48	Total/NA	Solid	8015 NM	
890-8634-30	CS47	Total/NA	Solid	8015 NM	
890-8634-31	CS51	Total/NA	Solid	8015 NM	
890-8634-32	CS52	Total/NA	Solid	8015 NM	
890-8634-33	CS57	Total/NA	Solid	8015 NM	
890-8634-34	CS53	Total/NA	Solid	8015 NM	
890-8634-35	CS55	Total/NA	Solid	8015 NM	
890-8634-36	CS56	Total/NA	Solid	8015 NM	
890-8634-37	CS54	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 116905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8634-1	CS30	Soluble	Solid	DI Leach	
890-8634-2	CS28	Soluble	Solid	DI Leach	
890-8634-3	CS23	Soluble	Solid	DI Leach	
890-8634-4	CS29	Soluble	Solid	DI Leach	
890-8634-5	CS36	Soluble	Solid	DI Leach	
890-8634-6	CS37	Soluble	Solid	DI Leach	
890-8634-7	CS33	Soluble	Solid	DI Leach	
890-8634-8	CS42	Soluble	Solid	DI Leach	
890-8634-9	CS41	Soluble	Solid	DI Leach	

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8634-1
SDG: 03C1558702

HPLC/IC (Continued)

Leach Batch: 116905 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8634-10	CS31	Soluble	Solid	DI Leach	
890-8634-11	CS40	Soluble	Solid	DI Leach	
890-8634-12	CS34	Soluble	Solid	DI Leach	
890-8634-13	CS21	Soluble	Solid	DI Leach	
890-8634-14	CS26	Soluble	Solid	DI Leach	
890-8634-15	CS43	Soluble	Solid	DI Leach	
890-8634-16	CS35	Soluble	Solid	DI Leach	
890-8634-17	CS25	Soluble	Solid	DI Leach	
890-8634-18	CS27	Soluble	Solid	DI Leach	
890-8634-19	CS44	Soluble	Solid	DI Leach	
890-8634-20	CS38	Soluble	Solid	DI Leach	
MB 880-116905/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-116905/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-116905/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-8634-1 MS	CS30	Soluble	Solid	DI Leach	
890-8634-1 MSD	CS30	Soluble	Solid	DI Leach	
890-8634-11 MS	CS40	Soluble	Solid	DI Leach	
890-8634-11 MSD	CS40	Soluble	Solid	DI Leach	

Leach Batch: 116906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8634-21	CS24	Soluble	Solid	DI Leach	
890-8634-22	CS22	Soluble	Solid	DI Leach	
890-8634-23	CS32	Soluble	Solid	DI Leach	
890-8634-24	CS39	Soluble	Solid	DI Leach	
890-8634-25	CS45	Soluble	Solid	DI Leach	
890-8634-26	CS49	Soluble	Solid	DI Leach	
890-8634-27	CS46	Soluble	Solid	DI Leach	
890-8634-28	CS50	Soluble	Solid	DI Leach	
890-8634-29	CS48	Soluble	Solid	DI Leach	
890-8634-30	CS47	Soluble	Solid	DI Leach	
890-8634-31	CS51	Soluble	Solid	DI Leach	
890-8634-32	CS52	Soluble	Solid	DI Leach	
890-8634-33	CS57	Soluble	Solid	DI Leach	
890-8634-34	CS53	Soluble	Solid	DI Leach	
890-8634-35	CS55	Soluble	Solid	DI Leach	
890-8634-36	CS56	Soluble	Solid	DI Leach	
890-8634-37	CS54	Soluble	Solid	DI Leach	
MB 880-116906/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-116906/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-116906/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-8634-21 MS	CS24	Soluble	Solid	DI Leach	
890-8634-21 MSD	CS24	Soluble	Solid	DI Leach	
890-8634-31 MS	CS51	Soluble	Solid	DI Leach	
890-8634-31 MSD	CS51	Soluble	Solid	DI Leach	

Analysis Batch: 116999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8634-21	CS24	Soluble	Solid	300.0	116906
890-8634-22	CS22	Soluble	Solid	300.0	116906
890-8634-23	CS32	Soluble	Solid	300.0	116906

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8634-1
SDG: 03C1558702

HPLC/IC (Continued)

Analysis Batch: 116999 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8634-24	CS39	Soluble	Solid	300.0	116906
890-8634-25	CS45	Soluble	Solid	300.0	116906
890-8634-26	CS49	Soluble	Solid	300.0	116906
890-8634-27	CS46	Soluble	Solid	300.0	116906
890-8634-28	CS50	Soluble	Solid	300.0	116906
890-8634-29	CS48	Soluble	Solid	300.0	116906
890-8634-30	CS47	Soluble	Solid	300.0	116906
890-8634-31	CS51	Soluble	Solid	300.0	116906
890-8634-32	CS52	Soluble	Solid	300.0	116906
890-8634-33	CS57	Soluble	Solid	300.0	116906
890-8634-34	CS53	Soluble	Solid	300.0	116906
890-8634-35	CS55	Soluble	Solid	300.0	116906
890-8634-36	CS56	Soluble	Solid	300.0	116906
890-8634-37	CS54	Soluble	Solid	300.0	116906
MB 880-116906/1-A	Method Blank	Soluble	Solid	300.0	116906
LCS 880-116906/2-A	Lab Control Sample	Soluble	Solid	300.0	116906
LCSD 880-116906/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	116906
890-8634-21 MS	CS24	Soluble	Solid	300.0	116906
890-8634-21 MSD	CS24	Soluble	Solid	300.0	116906
890-8634-31 MS	CS51	Soluble	Solid	300.0	116906
890-8634-31 MSD	CS51	Soluble	Solid	300.0	116906

Analysis Batch: 117003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8634-1	CS30	Soluble	Solid	300.0	116905
890-8634-2	CS28	Soluble	Solid	300.0	116905
890-8634-3	CS23	Soluble	Solid	300.0	116905
890-8634-4	CS29	Soluble	Solid	300.0	116905
890-8634-5	CS36	Soluble	Solid	300.0	116905
890-8634-6	CS37	Soluble	Solid	300.0	116905
890-8634-7	CS33	Soluble	Solid	300.0	116905
890-8634-8	CS42	Soluble	Solid	300.0	116905
890-8634-9	CS41	Soluble	Solid	300.0	116905
890-8634-10	CS31	Soluble	Solid	300.0	116905
890-8634-11	CS40	Soluble	Solid	300.0	116905
890-8634-12	CS34	Soluble	Solid	300.0	116905
890-8634-13	CS21	Soluble	Solid	300.0	116905
890-8634-14	CS26	Soluble	Solid	300.0	116905
890-8634-15	CS43	Soluble	Solid	300.0	116905
890-8634-16	CS35	Soluble	Solid	300.0	116905
890-8634-17	CS25	Soluble	Solid	300.0	116905
890-8634-18	CS27	Soluble	Solid	300.0	116905
890-8634-19	CS44	Soluble	Solid	300.0	116905
890-8634-20	CS38	Soluble	Solid	300.0	116905
MB 880-116905/1-A	Method Blank	Soluble	Solid	300.0	116905
LCS 880-116905/2-A	Lab Control Sample	Soluble	Solid	300.0	116905
LCSD 880-116905/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	116905
890-8634-1 MS	CS30	Soluble	Solid	300.0	116905
890-8634-1 MSD	CS30	Soluble	Solid	300.0	116905
890-8634-11 MS	CS40	Soluble	Solid	300.0	116905
890-8634-11 MSD	CS40	Soluble	Solid	300.0	116905

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Lab Chronicle

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8634-1
SDG: 03C1558702

Client Sample ID: CS30**Lab Sample ID: 890-8634-1****Date Collected: 08/15/25 10:58****Matrix: Solid****Date Received: 08/15/25 16:45**

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	116976	08/18/25 15:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116870	08/18/25 23:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117033	08/18/25 23:12	SA	EET MID
Total/NA	Analysis	8015 NM		1			117025	08/18/25 22:18	SA	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	116907	08/18/25 10:44	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116927	08/18/25 22:18	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	116905	08/18/25 10:32	SI	EET MID
Soluble	Analysis	300.0		5			117003	08/18/25 21:34	CS	EET MID

Client Sample ID: CS28**Lab Sample ID: 890-8634-2****Date Collected: 08/15/25 10:54****Matrix: Solid****Date Received: 08/15/25 16:45**

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	116976	08/18/25 15:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116870	08/18/25 23:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117033	08/18/25 23:32	SA	EET MID
Total/NA	Analysis	8015 NM		1			117025	08/18/25 23:05	SA	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	116907	08/18/25 10:44	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116927	08/18/25 23:05	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	116905	08/18/25 10:32	SI	EET MID
Soluble	Analysis	300.0		1			117003	08/18/25 21:57	CS	EET MID

Client Sample ID: CS23**Lab Sample ID: 890-8634-3****Date Collected: 08/15/25 10:36****Matrix: Solid****Date Received: 08/15/25 16:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	116976	08/18/25 15:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116870	08/18/25 23:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117033	08/18/25 23:53	SA	EET MID
Total/NA	Analysis	8015 NM		1			117025	08/18/25 23:20	SA	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	116907	08/18/25 10:44	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116927	08/18/25 23:20	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	116905	08/18/25 10:32	SI	EET MID
Soluble	Analysis	300.0		5			117003	08/18/25 22:05	CS	EET MID

Client Sample ID: CS29**Lab Sample ID: 890-8634-4****Date Collected: 08/15/25 10:56****Matrix: Solid****Date Received: 08/15/25 16:45**

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	116976	08/18/25 15:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116870	08/19/25 00:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117033	08/19/25 00:13	SA	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8634-1
SDG: 03C1558702

Client Sample ID: CS29
Date Collected: 08/15/25 10:56
Date Received: 08/15/25 16:45

Lab Sample ID: 890-8634-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			117025	08/18/25 23:36	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	116907	08/18/25 10:44	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116927	08/18/25 23:36	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	116905	08/18/25 10:32	SI	EET MID
Soluble	Analysis	300.0		1			117003	08/18/25 22:12	CS	EET MID

Client Sample ID: CS36
Date Collected: 08/15/25 12:02
Date Received: 08/15/25 16:45

Lab Sample ID: 890-8634-5
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			5.05 g	5 mL	116976	08/18/25 15:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116870	08/19/25 00:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117033	08/19/25 00:34	SA	EET MID
Total/NA	Analysis	8015 NM		1			117025	08/18/25 23:51	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	116907	08/18/25 10:44	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116927	08/18/25 23:51	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	116905	08/18/25 10:32	SI	EET MID
Soluble	Analysis	300.0		5			117003	08/18/25 22:20	CS	EET MID

Client Sample ID: CS37
Date Collected: 08/15/25 12:04
Date Received: 08/15/25 16:45

Lab Sample ID: 890-8634-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	116976	08/18/25 15:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116870	08/19/25 00:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117033	08/19/25 00:54	SA	EET MID
Total/NA	Analysis	8015 NM		1			117025	08/19/25 00:08	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	116907	08/18/25 10:44	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116927	08/19/25 00:08	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	116905	08/18/25 10:32	SI	EET MID
Soluble	Analysis	300.0		1			117003	08/18/25 22:43	CS	EET MID

Client Sample ID: CS33
Date Collected: 08/15/25 11:54
Date Received: 08/15/25 16:45

Lab Sample ID: 890-8634-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	116976	08/18/25 15:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116870	08/19/25 01:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117033	08/19/25 01:15	SA	EET MID
Total/NA	Analysis	8015 NM		1			117025	08/19/25 00:23	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	116907	08/18/25 10:44	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116927	08/19/25 00:23	TKC	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8634-1
SDG: 03C1558702

Client Sample ID: CS33**Date Collected: 08/15/25 11:54****Date Received: 08/15/25 16:45****Lab Sample ID: 890-8634-7****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			5.05 g	50 mL	116905	08/18/25 10:32	SI	EET MID
Soluble	Analysis	300.0		1			117003	08/18/25 22:50	CS	EET MID

Client Sample ID: CS42**Date Collected: 08/15/25 12:16****Date Received: 08/15/25 16:45****Lab Sample ID: 890-8634-8****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	116976	08/18/25 15:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116870	08/19/25 01:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117033	08/19/25 01:35	SA	EET MID
Total/NA	Analysis	8015 NM		1			117025	08/19/25 00:39	SA	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	116907	08/18/25 10:44	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116927	08/19/25 00:39	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	116905	08/18/25 10:32	SI	EET MID
Soluble	Analysis	300.0		1			117003	08/18/25 22:58	CS	EET MID

Client Sample ID: CS41**Date Collected: 08/15/25 12:12****Date Received: 08/15/25 16:45****Lab Sample ID: 890-8634-9****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	116976	08/18/25 15:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116870	08/19/25 01:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117033	08/19/25 01:56	SA	EET MID
Total/NA	Analysis	8015 NM		1			117025	08/19/25 00:54	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	116907	08/18/25 10:44	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116927	08/19/25 00:54	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	116905	08/18/25 10:32	SI	EET MID
Soluble	Analysis	300.0		5			117003	08/18/25 23:06	CS	EET MID

Client Sample ID: CS31**Date Collected: 08/15/25 12:04****Date Received: 08/15/25 16:45****Lab Sample ID: 890-8634-10****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	116976	08/18/25 15:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116870	08/19/25 02:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117033	08/19/25 02:16	SA	EET MID
Total/NA	Analysis	8015 NM		1			117025	08/19/25 01:10	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	116907	08/18/25 10:44	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116927	08/19/25 01:10	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	116905	08/18/25 10:32	SI	EET MID
Soluble	Analysis	300.0		1			117003	08/18/25 23:13	CS	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8634-1
SDG: 03C1558702

Client Sample ID: CS40**Lab Sample ID: 890-8634-11****Date Collected: 08/15/25 12:10****Matrix: Solid****Date Received: 08/15/25 16:45**

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	116976	08/18/25 15:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116870	08/19/25 03:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117033	08/19/25 03:50	SA	EET MID
Total/NA	Analysis	8015 NM		1			117025	08/19/25 01:40	SA	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	116907	08/18/25 10:44	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116927	08/19/25 01:40	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	116905	08/18/25 10:32	SI	EET MID
Soluble	Analysis	300.0		1			117003	08/18/25 23:21	CS	EET MID

Client Sample ID: CS34**Lab Sample ID: 890-8634-12****Date Collected: 08/15/25 11:58****Matrix: Solid****Date Received: 08/15/25 16:45**

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	116976	08/18/25 15:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116870	08/19/25 04:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117033	08/19/25 04:10	SA	EET MID
Total/NA	Analysis	8015 NM		1			117025	08/19/25 01:56	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	116907	08/18/25 10:44	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116927	08/19/25 01:56	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	116905	08/18/25 10:32	SI	EET MID
Soluble	Analysis	300.0		1			117003	08/18/25 23:43	CS	EET MID

Client Sample ID: CS21**Lab Sample ID: 890-8634-13****Date Collected: 08/15/25 10:25****Matrix: Solid****Date Received: 08/15/25 16:45**

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	116976	08/18/25 15:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116870	08/19/25 04:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117033	08/19/25 04:31	SA	EET MID
Total/NA	Analysis	8015 NM		1			117025	08/19/25 02:11	SA	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	116907	08/18/25 10:44	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116927	08/19/25 02:11	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	116905	08/18/25 10:32	SI	EET MID
Soluble	Analysis	300.0		1			117003	08/18/25 23:51	CS	EET MID

Client Sample ID: CS26**Lab Sample ID: 890-8634-14****Date Collected: 08/15/25 10:45****Matrix: Solid****Date Received: 08/15/25 16:45**

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	116976	08/18/25 15:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116870	08/19/25 04:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117033	08/19/25 04:51	SA	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8634-1
SDG: 03C1558702

Client Sample ID: CS26**Lab Sample ID: 890-8634-14****Date Collected: 08/15/25 10:45****Matrix: Solid****Date Received: 08/15/25 16:45**

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			117025	08/19/25 02:26	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	116907	08/18/25 10:44	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116927	08/19/25 02:26	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	116905	08/18/25 10:32	SI	EET MID
Soluble	Analysis	300.0		1			117003	08/19/25 00:14	CS	EET MID

Client Sample ID: CS43**Lab Sample ID: 890-8634-15****Date Collected: 08/15/25 12:19****Matrix: Solid****Date Received: 08/15/25 16:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	116976	08/18/25 15:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116870	08/19/25 05:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117033	08/19/25 05:12	SA	EET MID
Total/NA	Analysis	8015 NM		1			117025	08/19/25 02:42	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	116907	08/18/25 10:44	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116927	08/19/25 02:42	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	116905	08/18/25 10:32	SI	EET MID
Soluble	Analysis	300.0		1			117003	08/19/25 00:21	CS	EET MID

Client Sample ID: CS35**Lab Sample ID: 890-8634-16****Date Collected: 08/15/25 12:00****Matrix: Solid****Date Received: 08/15/25 16:45**

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	116976	08/18/25 15:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116870	08/19/25 05:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117033	08/19/25 05:32	SA	EET MID
Total/NA	Analysis	8015 NM		1			117025	08/19/25 02:57	SA	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	116907	08/18/25 10:44	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116927	08/19/25 02:57	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	116905	08/18/25 10:32	SI	EET MID
Soluble	Analysis	300.0		1			117003	08/19/25 00:29	CS	EET MID

Client Sample ID: CS25**Lab Sample ID: 890-8634-17****Date Collected: 08/15/25 10:43****Matrix: Solid****Date Received: 08/15/25 16:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	116976	08/18/25 15:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116870	08/19/25 05:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117033	08/19/25 05:53	SA	EET MID
Total/NA	Analysis	8015 NM		1			117025	08/19/25 03:13	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	116907	08/18/25 10:44	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116927	08/19/25 03:13	TKC	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8634-1
SDG: 03C1558702

Client Sample ID: CS25

Date Collected: 08/15/25 10:43

Date Received: 08/15/25 16:45

Lab Sample ID: 890-8634-17

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	116905	08/18/25 10:32	SI	EET MID
Soluble	Analysis	300.0		1			117003	08/19/25 00:37	CS	EET MID

Client Sample ID: CS27

Date Collected: 08/15/25 10:50

Date Received: 08/15/25 16:45

Lab Sample ID: 890-8634-18

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			5.03 g	5 mL	116976	08/18/25 15:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116870	08/19/25 06:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117033	08/19/25 06:13	SA	EET MID
Total/NA	Analysis	8015 NM		1			117025	08/19/25 03:29	SA	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	116907	08/18/25 10:44	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116927	08/19/25 03:29	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	116905	08/18/25 10:32	SI	EET MID
Soluble	Analysis	300.0		5			117003	08/19/25 00:44	CS	EET MID

Client Sample ID: CS44

Date Collected: 08/15/25 12:24

Date Received: 08/15/25 16:45

Lab Sample ID: 890-8634-19

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			5.05 g	5 mL	116976	08/18/25 15:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116870	08/19/25 06:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117033	08/19/25 06:34	SA	EET MID
Total/NA	Analysis	8015 NM		1			117025	08/19/25 03:44	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	116907	08/18/25 10:44	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116927	08/19/25 03:44	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	116905	08/18/25 10:32	SI	EET MID
Soluble	Analysis	300.0		1			117003	08/19/25 00:52	CS	EET MID

Client Sample ID: CS38

Date Collected: 08/15/25 12:06

Date Received: 08/15/25 16:45

Lab Sample ID: 890-8634-20

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			5.00 g	5 mL	116976	08/18/25 15:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116870	08/19/25 06:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117033	08/19/25 06:54	SA	EET MID
Total/NA	Analysis	8015 NM		1			117025	08/19/25 04:01	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	116907	08/18/25 10:44	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116927	08/19/25 04:01	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	116905	08/18/25 10:32	SI	EET MID
Soluble	Analysis	300.0		1			117003	08/19/25 00:59	CS	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8634-1
SDG: 03C1558702

Client Sample ID: CS24**Lab Sample ID: 890-8634-21****Date Collected: 08/15/25 10:39****Matrix: Solid****Date Received: 08/15/25 16:45**

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	116899	08/18/25 17:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116996	08/18/25 21:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117033	08/18/25 21:31	SA	EET MID
Total/NA	Analysis	8015 NM		1			117025	08/18/25 22:18	SA	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	116908	08/18/25 10:46	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116930	08/18/25 22:18	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	116906	08/18/25 10:36	SI	EET MID
Soluble	Analysis	300.0		1			116999	08/18/25 18:42	CS	EET MID

Client Sample ID: CS22**Lab Sample ID: 890-8634-22****Date Collected: 08/15/25 10:28****Matrix: Solid****Date Received: 08/15/25 16:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	116899	08/18/25 17:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116996	08/18/25 21:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117033	08/18/25 21:51	SA	EET MID
Total/NA	Analysis	8015 NM		1			117025	08/18/25 23:05	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	116908	08/18/25 10:46	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116930	08/18/25 23:05	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	116906	08/18/25 10:36	SI	EET MID
Soluble	Analysis	300.0		5			116999	08/18/25 18:59	CS	EET MID

Client Sample ID: CS32**Lab Sample ID: 890-8634-23****Date Collected: 08/15/25 10:36****Matrix: Solid****Date Received: 08/15/25 16:45**

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	116899	08/18/25 17:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116996	08/18/25 22:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117033	08/18/25 22:12	SA	EET MID
Total/NA	Analysis	8015 NM		1			117025	08/18/25 23:20	SA	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	116908	08/18/25 10:46	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116930	08/18/25 23:20	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	116906	08/18/25 10:36	SI	EET MID
Soluble	Analysis	300.0		1			116999	08/18/25 19:05	CS	EET MID

Client Sample ID: CS39**Lab Sample ID: 890-8634-24****Date Collected: 08/15/25 12:08****Matrix: Solid****Date Received: 08/15/25 16:45**

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	116899	08/18/25 17:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116996	08/18/25 22:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117033	08/18/25 22:32	SA	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8634-1
SDG: 03C1558702

Client Sample ID: CS39**Lab Sample ID: 890-8634-24****Date Collected: 08/15/25 12:08****Matrix: Solid****Date Received: 08/15/25 16:45**

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			117025	08/18/25 23:36	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	116908	08/18/25 10:46	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116930	08/18/25 23:36	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	116906	08/18/25 10:36	SI	EET MID
Soluble	Analysis	300.0		1			116999	08/18/25 19:11	CS	EET MID

Client Sample ID: CS45**Lab Sample ID: 890-8634-25****Date Collected: 08/15/25 12:36****Matrix: Solid****Date Received: 08/15/25 16:45**

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	116899	08/18/25 17:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116996	08/18/25 22:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117033	08/18/25 22:52	SA	EET MID
Total/NA	Analysis	8015 NM		1			117025	08/18/25 23:51	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	116908	08/18/25 10:46	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116930	08/18/25 23:51	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	116906	08/18/25 10:36	SI	EET MID
Soluble	Analysis	300.0		1			116999	08/18/25 19:16	CS	EET MID

Client Sample ID: CS49**Lab Sample ID: 890-8634-26****Date Collected: 08/15/25 12:50****Matrix: Solid****Date Received: 08/15/25 16:45**

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	116899	08/18/25 17:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116996	08/18/25 23:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117033	08/18/25 23:13	SA	EET MID
Total/NA	Analysis	8015 NM		1			117025	08/19/25 00:08	SA	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	116908	08/18/25 10:46	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116930	08/19/25 00:08	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	116906	08/18/25 10:36	SI	EET MID
Soluble	Analysis	300.0		1			116999	08/18/25 19:33	CS	EET MID

Client Sample ID: CS46**Lab Sample ID: 890-8634-27****Date Collected: 08/15/25 12:39****Matrix: Solid****Date Received: 08/15/25 16:45**

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	116899	08/18/25 17:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116996	08/19/25 01:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117033	08/19/25 01:03	SA	EET MID
Total/NA	Analysis	8015 NM		1			117025	08/19/25 00:23	SA	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	116908	08/18/25 10:46	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116930	08/19/25 00:23	TKC	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8634-1
SDG: 03C1558702

Client Sample ID: CS46**Lab Sample ID: 890-8634-27****Date Collected: 08/15/25 12:39****Matrix: Solid****Date Received: 08/15/25 16:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	116906	08/18/25 10:36	SI	EET MID
Soluble	Analysis	300.0		1			116999	08/18/25 19:39	CS	EET MID

Client Sample ID: CS50**Lab Sample ID: 890-8634-28****Date Collected: 08/15/25 12:54****Matrix: Solid****Date Received: 08/15/25 16:45**

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	116899	08/18/25 17:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116996	08/19/25 01:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117033	08/19/25 01:24	SA	EET MID
Total/NA	Analysis	8015 NM		1			117025	08/19/25 00:39	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	116908	08/18/25 10:46	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116930	08/19/25 00:39	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	116906	08/18/25 10:36	SI	EET MID
Soluble	Analysis	300.0		1			116999	08/18/25 19:45	CS	EET MID

Client Sample ID: CS48**Lab Sample ID: 890-8634-29****Date Collected: 08/15/25 12:48****Matrix: Solid****Date Received: 08/15/25 16:45**

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	116899	08/18/25 17:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116996	08/19/25 01:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117033	08/19/25 01:44	SA	EET MID
Total/NA	Analysis	8015 NM		1			117025	08/19/25 00:54	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	116908	08/18/25 10:46	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116930	08/19/25 00:54	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	116906	08/18/25 10:36	SI	EET MID
Soluble	Analysis	300.0		1			116999	08/18/25 19:50	CS	EET MID

Client Sample ID: CS47**Lab Sample ID: 890-8634-30****Date Collected: 08/15/25 12:42****Matrix: Solid****Date Received: 08/15/25 16:45**

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	116899	08/18/25 17:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116996	08/19/25 02:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117033	08/19/25 02:04	SA	EET MID
Total/NA	Analysis	8015 NM		1			117025	08/19/25 01:10	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	116908	08/18/25 10:46	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116930	08/19/25 01:10	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	116906	08/18/25 10:36	SI	EET MID
Soluble	Analysis	300.0		1			116999	08/18/25 19:56	CS	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8634-1
SDG: 03C1558702

Client Sample ID: CS51**Lab Sample ID: 890-8634-31****Date Collected: 08/15/25 12:58****Matrix: Solid****Date Received: 08/15/25 16:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	116899	08/18/25 17:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116996	08/19/25 02:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117033	08/19/25 02:25	SA	EET MID
Total/NA	Analysis	8015 NM		1			117025	08/19/25 01:40	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	116908	08/18/25 10:46	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116930	08/19/25 01:40	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	116906	08/18/25 10:36	SI	EET MID
Soluble	Analysis	300.0		1			116999	08/18/25 20:02	CS	EET MID

Client Sample ID: CS52**Lab Sample ID: 890-8634-32****Date Collected: 08/15/25 13:01****Matrix: Solid****Date Received: 08/15/25 16:45**

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	116899	08/18/25 17:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116996	08/19/25 02:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117033	08/19/25 02:45	SA	EET MID
Total/NA	Analysis	8015 NM		1			117025	08/19/25 01:56	SA	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	116908	08/18/25 10:46	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116930	08/19/25 01:56	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	116906	08/18/25 10:36	SI	EET MID
Soluble	Analysis	300.0		1			116999	08/18/25 20:19	CS	EET MID

Client Sample ID: CS57**Lab Sample ID: 890-8634-33****Date Collected: 08/15/25 13:31****Matrix: Solid****Date Received: 08/15/25 16:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	116899	08/18/25 17:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116996	08/18/25 21:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117033	08/18/25 21:10	SA	EET MID
Total/NA	Analysis	8015 NM		1			117025	08/19/25 02:11	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	116908	08/18/25 10:46	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116930	08/19/25 02:11	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	116906	08/18/25 10:36	SI	EET MID
Soluble	Analysis	300.0		1			116999	08/18/25 20:24	CS	EET MID

Client Sample ID: CS53**Lab Sample ID: 890-8634-34****Date Collected: 08/15/25 13:06****Matrix: Solid****Date Received: 08/15/25 16:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	116899	08/18/25 17:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116996	08/19/25 03:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117033	08/19/25 03:06	SA	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8634-1
SDG: 03C1558702

Client Sample ID: CS53**Lab Sample ID: 890-8634-34****Date Collected: 08/15/25 13:06****Matrix: Solid****Date Received: 08/15/25 16:45**

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			117025	08/19/25 02:26	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	116908	08/18/25 10:46	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116930	08/19/25 02:26	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	116906	08/18/25 10:36	SI	EET MID
Soluble	Analysis	300.0		1			116999	08/18/25 20:41	CS	EET MID

Client Sample ID: CS55**Lab Sample ID: 890-8634-35****Date Collected: 08/15/25 13:18****Matrix: Solid****Date Received: 08/15/25 16:45**

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	116899	08/18/25 17:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116996	08/19/25 03:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117033	08/19/25 03:26	SA	EET MID
Total/NA	Analysis	8015 NM		1			117025	08/19/25 02:42	SA	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	116908	08/18/25 10:46	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116930	08/19/25 02:42	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	116906	08/18/25 10:36	SI	EET MID
Soluble	Analysis	300.0		1			116999	08/18/25 20:47	CS	EET MID

Client Sample ID: CS56**Lab Sample ID: 890-8634-36****Date Collected: 08/15/25 13:24****Matrix: Solid****Date Received: 08/15/25 16:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	116899	08/18/25 17:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116996	08/19/25 03:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117033	08/19/25 03:47	SA	EET MID
Total/NA	Analysis	8015 NM		1			117025	08/19/25 02:57	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	116908	08/18/25 10:46	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116930	08/19/25 02:57	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	116906	08/18/25 10:36	SI	EET MID
Soluble	Analysis	300.0		1			116999	08/18/25 20:53	CS	EET MID

Client Sample ID: CS54**Lab Sample ID: 890-8634-37****Date Collected: 08/15/25 13:12****Matrix: Solid****Date Received: 08/15/25 16:45**

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	116899	08/18/25 17:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116996	08/19/25 04:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117033	08/19/25 04:07	SA	EET MID
Total/NA	Analysis	8015 NM		1			117025	08/19/25 03:13	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	116908	08/18/25 10:46	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116930	08/19/25 03:13	TKC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8634-1
SDG: 03C1558702

Client Sample ID: CS54
Date Collected: 08/15/25 13:12
Date Received: 08/15/25 16:45

Lab Sample ID: 890-8634-37
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	116906	08/18/25 10:36	SI	EET MID
Soluble	Analysis	300.0		1			116999	08/18/25 20:58	CS	EET MID

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

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- 14

Accreditation/Certification Summary

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8634-1
SDG: 03C1558702

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	06-30-26
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: JRU 076

Job ID: 890-8634-1
SDG: 03C1558702

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: JRU 076

Job ID: 890-8634-1
SDG: 03C1558702

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8634-1	CS30	Solid	08/15/25 10:58	08/15/25 16:45	SURFACE
890-8634-2	CS28	Solid	08/15/25 10:54	08/15/25 16:45	SURFACE
890-8634-3	CS23	Solid	08/15/25 10:36	08/15/25 16:45	SURFACE
890-8634-4	CS29	Solid	08/15/25 10:56	08/15/25 16:45	SURFACE
890-8634-5	CS36	Solid	08/15/25 12:02	08/15/25 16:45	SURFACE
890-8634-6	CS37	Solid	08/15/25 12:04	08/15/25 16:45	SURFACE
890-8634-7	CS33	Solid	08/15/25 11:54	08/15/25 16:45	SURFACE
890-8634-8	CS42	Solid	08/15/25 12:16	08/15/25 16:45	SURFACE
890-8634-9	CS41	Solid	08/15/25 12:12	08/15/25 16:45	SURFACE
890-8634-10	CS31	Solid	08/15/25 12:04	08/15/25 16:45	SURFACE
890-8634-11	CS40	Solid	08/15/25 12:10	08/15/25 16:45	SURFACE
890-8634-12	CS34	Solid	08/15/25 11:58	08/15/25 16:45	SURFACE
890-8634-13	CS21	Solid	08/15/25 10:25	08/15/25 16:45	SURFACE
890-8634-14	CS26	Solid	08/15/25 10:45	08/15/25 16:45	SURFACE
890-8634-15	CS43	Solid	08/15/25 12:19	08/15/25 16:45	SURFACE
890-8634-16	CS35	Solid	08/15/25 12:00	08/15/25 16:45	SURFACE
890-8634-17	CS25	Solid	08/15/25 10:43	08/15/25 16:45	SURFACE
890-8634-18	CS27	Solid	08/15/25 10:50	08/15/25 16:45	SURFACE
890-8634-19	CS44	Solid	08/15/25 12:24	08/15/25 16:45	SURFACE
890-8634-20	CS38	Solid	08/15/25 12:06	08/15/25 16:45	SURFACE
890-8634-21	CS24	Solid	08/15/25 10:39	08/15/25 16:45	SURFACE
890-8634-22	CS22	Solid	08/15/25 10:28	08/15/25 16:45	SURFACE
890-8634-23	CS32	Solid	08/15/25 10:36	08/15/25 16:45	SURFACE
890-8634-24	CS39	Solid	08/15/25 12:08	08/15/25 16:45	SURFACE
890-8634-25	CS45	Solid	08/15/25 12:36	08/15/25 16:45	SURFACE
890-8634-26	CS49	Solid	08/15/25 12:50	08/15/25 16:45	SURFACE
890-8634-27	CS46	Solid	08/15/25 12:39	08/15/25 16:45	SURFACE
890-8634-28	CS50	Solid	08/15/25 12:54	08/15/25 16:45	SURFACE
890-8634-29	CS48	Solid	08/15/25 12:48	08/15/25 16:45	SURFACE
890-8634-30	CS47	Solid	08/15/25 12:42	08/15/25 16:45	SURFACE
890-8634-31	CS51	Solid	08/15/25 12:58	08/15/25 16:45	SURFACE
890-8634-32	CS52	Solid	08/15/25 13:01	08/15/25 16:45	SURFACE
890-8634-33	CS57	Solid	08/15/25 13:31	08/15/25 16:45	SURFACE
890-8634-34	CS53	Solid	08/15/25 13:06	08/15/25 16:45	SURFACE
890-8634-35	CS55	Solid	08/15/25 13:18	08/15/25 16:45	SURFACE
890-8634-36	CS56	Solid	08/15/25 13:24	08/15/25 16:45	SURFACE
890-8634-37	CS54	Solid	08/15/25 13:12	08/15/25 16:45	SURFACE

Eurofins Carlsbad

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



Environment Testing
 Xenco



890-8634 Chain of Custody

Project Manager: Ashley Holmes		Bill to: (if different)		Company Name: XTO Energy, Inc.	
Company Name: Ensolum		Address: 3104 E Greene St.		City, State ZIP: Carlsbad, NM, 88220	
Address: 3122 National Parks Hwy		City, State ZIP: Carlsbad, NM 88220		Email: Aholmes@ensolum.com	
City, State ZIP: Carlsbad, NM 88220		Phone: (713) 817-1947			

Project Name: JRU 076	Turn Around: ☒ Routine ☐ Rush 48h	Pres. Code
Project Number: 03C1558702	Due Date: 08/19/25	
Project Location: 32.33517, -103.824353	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name: Trevor Wargo	PO #:	

SAMPLE RECEIPT		Temp Blank: ☒ Yes ☒ No		Wet Ice: ☒ Yes ☒ No	
Samples Received Intact: ☒ Yes ☒ No	Thermometer ID: 0.2	Cooler Custody Seals: ☒ Yes ☒ No		Correction Factor: 0.2	
Sample Custody Seals: ☒ Yes ☒ No	Temperature Reading: 6.2	Corrected Temperature: 6.2			
Total Containers:					

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	Pres. Code
CS 30	Soil	08/19/25	10:58	Surface	✓	1	PH 8.015	
CS 31	Soil		10:59		✓	1	BTEX 8027	
CS 32	Soil		10:56		✓	1	Chloride 4500	
CS 33	Soil		10:56		✓	1		
CS 34	Soil		12:02		✓	1		
CS 35	Soil		12:04		✓	1		
CS 36	Soil		12:16		✓	1		
CS 37	Soil		12:12		✓	1		
CS 38	Soil		12:04		✓	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 Ti Sn U V Zn	
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U		Hg: 1631 / 245.1 / 7470 / 7471	

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$15.00 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)	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Trevor Wargo	[Signature]	[Signature]	[Signature]	8/15/16/25
3				
5				

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

Preservative Codes	
None: NO	DI Water: H ₂ O
Cool: Cool	MeOH: Me
HCL: HC	HNO ₃ : HN
H ₂ SO ₄ : H ₂	NaOH: Na
H ₃ PO ₄ : HP	
NaHSO ₄ : NABIS	
Na ₂ S ₂ O ₃ : NaSO ₃	
Zn Acetate+NaOH: Zn	
NaOH+Ascorbic Acid: SAPC	

Sample Comments	

Revised Date: 09/25/2020 Rev. 2020.2

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



Environment Testing
Xenco

Work Order No: 254

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Work Order Comments

Program: ☐ US/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project: ☐ Level I ☐ Level II ☐ Level III ☐ PST/AUST ☐ TRRP ☐ Level IV ☐

Reporting: ☐ Level II ☐ Level III ☐ Level IV ☐ TRRP ☐ Level IV ☐

Deliverables: ☐ EDD ☐ ADAPT ☐ Other:

Project Manager: Ashley Holmes

Company Name: Ensolum

Address: 3122 National Parks Hwy

City, State ZIP: Carlsbad, NM 88220

Phone: (713) 817-1947

Bill to: (if different)

Company Name: XTO Energy, Inc

Address: 3104 E Greene St.

City, State ZIP: Carlsbad, NM 88220

Email: aholmes@ensolum.com

ANALYSIS REQUEST		Preservative Codes	
Sample Identification	Matrix	None	NO
CS 40	Soil	None	NO
CS 34	Soil	Cool: Cool	MeOH: Me
CS 21	Soil	HCL: HC	HNO ₃ : HN
CS 26	Soil	H ₂ SO ₄ : H ₂	NaOH: Na
CS 43	Soil	H ₃ PO ₄ : HP	
CS 35	Soil	NaHSO ₄ : NABIS	
CS 25	Soil	Na ₂ S ₂ O ₃ : NaSO ₃	
CS 27	Soil	Zn Acetate+NaOH: Zn	
CS 44	Soil	NaOH+Ascorbic Acid: SAPC	
CS 38	Soil		

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn

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

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Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Date/Time
1. Ashley Holmes	2. [Signature]	3. [Signature]	4. [Signature]	8/15/16	8/15/16
5. [Signature]	6. [Signature]				

Revised Date: 06/25/2020 Rev. 2020.2

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) 988-3189

Environment Testing
Xenco



Work Order No:

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Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project: Level I ☐ Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Reporting: Level II ☐ Level III ☐ Level IV ☐

Deliverables: EDD ☐ ADAPT ☐ Other: ☐

Project Manager:	Ashley Holmes		
Company Name:	Ensolum		
Address:	3122 National Parks Hwy		
City, State ZIP:	Carlsbad, NM	88220	
Phone:	(713) 817-1947		
Email:	Aholmes@ensolum.com		
Bill to: (if different)	Company Name:		
	XTO Energy, Inc		
	Address:		
	3104 E Greene St		
	City, State ZIP:	Carlsbad, NM, 88220	

Project Name:		Turn Around		Pres. Code	ANALYSIS REQUEST										Preservative Codes	
Project Name:	Project Number:	☐ Routine ☒ Rush	Due Date:													
JRU 076	03C1558702		08/19/25												None: NO DI Water: H ₂ O	
Project Location: 32.33517, -103.824353		Due Date: 08/19/25														Cool: Cool MeOH: Me
Sampler's Name: Trevor Wargo		TAT starts the day received by the lab, if received by 4:30pm														HCL: HC HNO ₃ : HN
PO #:																H ₂ SO ₄ : H ₂ NaOH: Na
SAMPLE RECEIPT		Temp Blank:	Yes No	Wet Ice:	Yes No											H ₃ PO ₄ : HP
Samples Received In tact:		Yes No	Thermometer ID:	Yes No												NaHSO ₄ : NABIS
Cooler Custody Seals:		Yes No	Correction Factor:	Yes No												Na ₂ S ₂ O ₃ : NaSO ₃
Sample Custody Seals:		Yes No	Temperature Reading:	Yes No												Zn Acetate+NaOH: Zn
Total Containers:			Corrected Temperature:													NaOH+Ascorbic Acid: SAPC
Sample Identification		Matrix	Date	Time	Depth	Grab/	# of									Sample Comments

Soil	Sampled	Sampled	Surface C	Comp	Cont
C551	004525	12.58	1		
C552		13.01			
C557		13.31			
C553		13.06			
C559		13.18			
C556		13.24			
C554		13.10			

	Total	200.7 / 6020	200.8 / 6020:	8RCRA Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂	Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed				TCLP / SPLP 6070: 8RCRA	Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471	

Notice: Signature of this document 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 \$35.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	<i>Steven Wright</i>	<i>Steven</i>	<i>8/15/64</i>			
2						
3						
4						
5						
6						

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

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)		Sampler:	N/A	Lab PM	Kramer, Jessica	Carrier Tracking No(s)	N/A	COC No	890-5676-1												
Shipping/Receiving		Phone:	N/A	E-Mail:	Jessica.Kramer@el.eurofins.com	State of Origin:	New Mexico	Page	Page 1 of 5												
Company:		Eurofins Environment Testing South Cent		Accreditations Required (See note):		NELAP - Texas		Job #	890-8634-1												
Address:		1211 W. Florida Ave.		Due Date Requested:	8/19/2025		Preservation Codes:														
City:	Midland	TAT Requested (days):	N/A	Analysis Requested																	
State, Zip:	TX, 79701	PO #:	N/A																		
Phone:	432-704-5440(Tel)	WO #:	N/A																		
Email:	N/A	Project #	89000110																		
Project Name	JRU 076	SSOW#	N/A																		
Site	N/A	Sample Type	(C=Comp, G=grab)	Matrix	(W=Water, S=solid, O=soil, A=air)																
Sample Identification - Client ID (Lab ID)				Field Filtered Sample (Yes or No)																	
				Perform MS/MSD (Yes or No)																	
				8015MOD_NM/8015NM_S_Prep(MOD) Full TPH																	
				8015MOD_Calc																	
				300_ORGFM_28D/DI_LEACHChloride																	
				8021B/5035FP_Calc(MOD) BTEX																	
				Total_BTEX_GCV																	
				Total Number of containers																	
				Special Instructions/Note:																	
CS30 (890-8634-1)				8/15/25	10.58	G	Solid	X	X	X	X	X	X	X	X	X	X	X	1		
CS28 (890-8634-2)				8/15/25	10.54	G	Solid	X	X	X	X	X	X	X	X	X	X	X	X	1	
CS23 (890-8634-3)				8/15/25	10.36	G	Solid	X	X	X	X	X	X	X	X	X	X	X	X	1	
CS29 (890-8634-4)				8/15/25	10.56	G	Solid	X	X	X	X	X	X	X	X	X	X	X	X	1	
CS36 (890-8634-5)				8/15/25	12.02	G	Solid	X	X	X	X	X	X	X	X	X	X	X	X	1	
CS37 (890-8634-6)				8/15/25	12.04	G	Solid	X	X	X	X	X	X	X	X	X	X	X	X	1	
CS33 (890-8634-7)				8/15/25	11.54	G	Solid	X	X	X	X	X	X	X	X	X	X	X	X	1	
CS42 (890-8634-8)				8/15/25	12.16	G	Solid	X	X	X	X	X	X	X	X	X	X	X	X	1	
CS41 (890-8634-9)				8/15/25	12.12	G	Solid	X	X	X	X	X	X	X	X	X	X	X	X	1	

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

Possible Hazard Identification

Unconfirmed

Deliverable Requested: I, II, III, IV, Other (specify) _____ Primary Deliverable Rank: 2 _____

Special Instructions/IOC Requirements: _____

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: <i>[Signature]</i>	Date: 8/18	Time: 1200	Method of Shipment:
Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:
Custody Seal Intact:	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:	
Δ Yes Δ No		44/43 - 1745	

Ver: 10/10/2024

Eurofins Carlebad

1089 N. Campbell St.

Carlsbad NM 88220

Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



Publication Title: T-51-001

Client Information (Sub Contract Lab)				Sampler:	Lab PM:	Carrier Tracking No(s):	COC No.									
Shipping/Receiving				N/A	Kramer, Jessica	N/A	890-5676.2									
Company:				Phone:	E-Mail:	State of Origin:	Page									
Eurofins Environment Testing South Central				N/A	Jessica.Kramer@et.eurofins.com	New Mexico	Page 2 of 5									
Address:				Due Date Requested:	Accreditations Required (See note):	Job #	Preservation Codes:									
1211 W. Florida Ave.				8/19/2025	NELAP - Texas	890-8634-1										
City:				TAT Requested (days):	Analysis Requested											
Midland				N/A												
State, Zip:																
TX, 79701																
Phone:																
432-704-5440(Tel)																
Email:																
N/A																
Project Name:																
JRU 076																
Site:																
SSOW#: N/A																
Sample Identification - Client ID (Lab ID)				Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=Soil, O=Organic, B=Trace, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep(MOD) Full TPH	8015MOD_Calc	300_ORGFM_28D/DI_LEACHChloride	8021B/5035FP_Calc(MOD) BTEX	Total_BTEX_GCV	Total Number of Containers	Special Instructions/Note:
CS37 (890-8634-10)				8/15/25	12:04	G	Solid	X	X	X	X	X	X	X	1	
CS40 (890-8634-11)				8/15/25	12:10	G	Solid	X	X	X	X	X	X	X	1	
CS34 (890-8634-12)				8/15/25	11:58	G	Solid	X	X	X	X	X	X	X	1	
CS21 (890-8634-13)				8/15/25	10:25	G	Solid	X	X	X	X	X	X	X	1	
CS26 (890-8634-14)				8/15/25	10:45	G	Solid	X	X	X	X	X	X	X	1	
CS43 (890-8634-15)				8/15/25	12:19	G	Solid	X	X	X	X	X	X	X	1	
CS35 (890-8634-16)				8/15/25	12:00	G	Solid	X	X	X	X	X	X	X	1	
CS25 (890-8634-17)				8/15/25	10:43	G	Solid	X	X	X	X	X	X	X	1	
CS27 (890-8634-18)				8/15/25	10:50	G	Solid	X	X	X	X	X	X	X	1	

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

Possible Hazard Identification

Unconfirmed

Deliverable Requested: I, II, III, IV, Other (specify) _____ Primary Deliverable Rank: 2

Empty Kit Requisitioned by: _____ Date: _____ Time: _____ Method of Shipment: _____

Requisitioned by: _____ Date/Time: _____ Company: _____

Received by: _____ Date/Time: _____ Company: _____

Received by: _____ Date/Time: _____ Company: _____

Cooler Temperature(s) °C and Other Remarks: _____

Custody Seals Intact: ☐ Yes ☐ No Custody Seal No.: _____

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



Eurofins Environmental Testing

Client Information (Sub Contract Lab)		Sampler	Lab PM:	Carrier Tracking No(s)	COC No.
Client Contact: N/A		Phone: N/A	Kramer, Jessica	N/A	890-5676.3
Shipping/Receiving		Phone: N/A	E-Mail: Jessica.Kramer@eurofins.com	State of Origin: New Mexico	Page 3 of 5
Company: Eurofins Environment Testing South Cent		Accreditations Required (See note): NELAP - Texas		Job #	890-8634-1
Address: 1211 W. Florida Ave.		Due Date Requested: 8/19/2025	Preservation Codes:		
City: Midland	State: TX	TAT Requested (days): N/A	Analysis Requested		
TX, 79701	Phone: 432-704-5440(Tel)	PO #: N/A	Field Filtered Sample (Yes or No)		
432-704-5440(Tel)	Email: N/A	W/O #: N/A	Perform MS/MSD (Yes or No)		
N/A	Project Name: JRU 076	Project #: 89000110	8015MOD_NM/8015NM_S_Prep(MOD) Full TPH		
Site: N/A	SSOW#: N/A		8015MOD_Calc		
			300_ORGFM_28D/DI_LEACHChloride		
			8021B/5035FP_Calc(MOD) BTEX		
			Total_BTEX_GCV		
			Total Number of containers		
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=Grav)	Matrix (W=Water, S=Soil, O=Organic, B=Trace, A=Air)
CS44 (890-8634-19)	8/15/25	12:24	G	Solid	X
CS38 (890-8634-20)	8/15/25	12:06	G	Solid	X
CS24 (890-8634-21)	8/15/25	10:39	G	Solid	X
CS22 (890-8634-22)	8/15/25	10:28	G	Solid	X
CS32 (890-8634-23)	8/15/25	10:36	G	Solid	X
CS39 (890-8634-24)	8/15/25	12:08	G	Solid	X
CS45 (890-8634-25)	8/15/25	12:36	G	Solid	X
CS49 (890-8634-26)	8/15/25	12:50	G	Solid	X
CS46 (890-8634-27)	8/15/25	12:39	G	Solid	X
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/assessments being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.					
Possible Hazard Identification					
Unconfirmed					
Deliverable Requested: I, II, III, IV, Other (specify)					
Primary Deliverable Rank: 2					
Empty Kit Relinquished by: Date: Time: Method of Shipment:					
Relinquished by: Date/Time: Company: Received by: Date/Time: Company:					
Relinquished by: Date/Time: Company: Received by: Date/Time: Company:					
Relinquished by: Date/Time: Company: Received by: Date/Time: Company:					
Custody Seals Intact: Custody Seal No.: Cooler Temperature(s) °C and Other Remarks:					
Δ Yes Δ No					

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Eurofins Carlsbad

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Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler:	N/A	Lab PM:	Kramer, Jessica	Carrier Tracking Not(s)	N/A	COOC No:	890-5676-4				
Client Contact:	N/A	Phone:	N/A	E-Mail:	Jessica.Kramer@eurofins.com	State of Origin:	New Mexico	Page	Page 4 of 5				
Company:	Eurofins Environment Testing South Cent	Due Date Requested:	8/19/2025	Accreditations Required (See note):	NE/LAP - Texas	Job #:	890-8634-1	Preservation Codes:					
Address:	1211 W. Florida Ave.	TAT Requested (days):	N/A	Analysis Requested									
City:	Midland												
State, Zip:	TX, 79701												
Phone:	432-704-5440 (tel)	PO #:	N/A										
Email:	N/A	WO #:	N/A										
Project Name:	N/A	Project #:	89000110										
JRU 076		SSOW#:	N/A										
Site:	N/A												
Sample Identification - Client ID (Lab ID)													
Sample ID	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=solid, O=ore, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep(MOD) Full TPH	8015MOD_Calc	300_ORGFM_28D/DI_LEACHChloride	8021B/5035FP_Calc(MOD) BTEX	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note:
CS50 (890-8634-28)	8/15/25	12:54	Mountain	G	Solid	X	X	X	X	X	X	1	
CS48 (890-8634-29)	8/15/25	12:48	Mountain	G	Solid	X	X	X	X	X	X	1	
CS47 (890-8634-30)	8/15/25	12:42	Mountain	G	Solid	X	X	X	X	X	X	1	
CS51 (890-8634-31)	8/15/25	12:36	Mountain	G	Solid	X	X	X	X	X	X	1	
CS52 (890-8634-32)	8/15/25	13:01	Mountain	G	Solid	X	X	X	X	X	X	1	
CS57 (890-8634-33)	8/15/25	13:31	Mountain	G	Solid	X	X	X	X	X	X	1	
CS53 (890-8634-34)	8/15/25	13:06	Mountain	G	Solid	X	X	X	X	X	X	1	
CS55 (890-8634-35)	8/15/25	13:18	Mountain	G	Solid	X	X	X	X	X	X	1	
CS56 (890-8634-36)	8/15/25	13:24	Mountain	G	Solid	X	X	X	X	X	X	1	
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.													
Possible Hazard Identification													
Unconfirmed													
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2													
Empty Kit Relinquished by: Date: Time: Method of Shipment:													
Relinquished by: Date/Time: Company: Received by: Date/Time: Company:													
Relinquished by: Date/Time: Company: Received by: Date/Time: Company:													
Relinquished by: Date/Time: Company: Received by: Date/Time: Company:													
Custody Seals Intact: Δ Yes Δ No Custody Seal No.: Cooler Temperature(s) °C and Other Remarks:													

Eurofins Carlsbad

1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

[illegible]

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8634-1

SDG Number: 03C1558702

Login Number: 8634**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	Received same day of collection; chilling process has begun.
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: 890-8634-1

SDG Number: 03C1558702

Login Number: 8634**List Number: 2****Creator: Laing, Edmundo****List Source: Eurofins Midland****List Creation: 08/18/25 04:04 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	



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Ashley Holmes
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 8/19/2025 2:28:51 PM

JOB DESCRIPTION

JRU 076
03C1558702

JOB NUMBER

890-8635-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220



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
8/19/2025 2:28:51 PM

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

Client: Ensolum
Project/Site: JRU 076

Laboratory Job ID: 890-8635-1
SDG: 03C1558702

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Definitions/Glossary

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery 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
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
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: JRU 076

Job ID: 890-8635-1

Job ID: 890-8635-1

Eurofins Carlsbad

Job Narrative
890-8635-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 8/15/2025 4:45 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 6.2°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: CS 92 (890-8635-1), CS 93 (890-8635-2), CS 69 (890-8635-3), CS 68 (890-8635-4), CS 67 (890-8635-5), CS 66 (890-8635-6), CS 65 (890-8635-7), CS 64 (890-8635-8), CS 58 (890-8635-9), CS 59 (890-8635-10), CS 99 (890-8635-11), CS 101 (890-8635-12), CS 98 (890-8635-13), CS 100 (890-8635-14), CS 95 (890-8635-15), CS 94 (890-8635-16), CS 74 (890-8635-17), CS 85 (890-8635-18), CS 86 (890-8635-19), CS 87 (890-8635-20), CS 60 (890-8635-21), CS 61 (890-8635-22), CS 62 (890-8635-23), CS 63 (890-8635-24), CS 70 (890-8635-25), CS 73 (890-8635-26), CS 77 (890-8635-27), CS 80 (890-8635-28), CS 72 (890-8635-29), CS 84 (890-8635-30), CS 78 (890-8635-31), CS 71 (890-8635-32), CS 75 (890-8635-33), CS 79 (890-8635-34), CS 76 (890-8635-35), CS 83 (890-8635-36), CS 96 (890-8635-37), CS 81 (890-8635-38), CS 89 (890-8635-39), CS 82 (890-8635-40), CS 91 (890-8635-41), CS 90 (890-8635-42), CS 88 (890-8635-43), CS 97 (890-8635-44), CS 19 (890-8635-45), CS 18 (890-8635-46), CS 16 (890-8635-47), CS 14 (890-8635-48), CS 09 (890-8635-49), CS 10 (890-8635-50), CS 20 (890-8635-51), CS 13 (890-8635-52), CS 17 (890-8635-53), CS 15 (890-8635-54), CS 12 (890-8635-55), CS 11 (890-8635-56) and CS 102 (890-8635-57).

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-116899 and 880-116998 and analytical batch 880-116996 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: CS 17 (890-8635-53). 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.

Diesel Range Organics

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-116908 and analytical batch 880-116930 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 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-116911/2-A) and (890-8635-A-24-F MSD). 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: CS 14 (890-8635-48). 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.

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

Client Sample ID: CS 92

Lab Sample ID: 890-8635-1

Date Collected: 08/14/25 12:50

Matrix: Solid

Date Received: 08/15/25 16:45

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		08/18/25 15:21	08/18/25 22:44	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/18/25 15:21	08/18/25 22:44	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/18/25 15:21	08/18/25 22:44	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		08/18/25 15:21	08/18/25 22:44	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/18/25 15:21	08/18/25 22:44	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		08/18/25 15:21	08/18/25 22:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	08/18/25 15:21	08/18/25 22:44	1
1,4-Difluorobenzene (Surr)	93		70 - 130	08/18/25 15:21	08/18/25 22:44	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			08/18/25 22:44	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			08/19/25 03:29	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	49.9	mg/Kg		08/18/25 10:46	08/19/25 03:29	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/18/25 10:46	08/19/25 03:29	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/18/25 10:46	08/19/25 03:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130	08/18/25 10:46	08/19/25 03:29	1
o-Terphenyl	88		70 - 130	08/18/25 10:46	08/19/25 03:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.98	U	9.98	mg/Kg			08/18/25 21:04	1

Client Sample ID: CS 93

Lab Sample ID: 890-8635-2

Date Collected: 08/14/25 12:50

Matrix: Solid

Date Received: 08/15/25 16:45

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		08/18/25 15:21	08/18/25 23:05	1
Toluene	<0.00201	U	0.00201	mg/Kg		08/18/25 15:21	08/18/25 23:05	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		08/18/25 15:21	08/18/25 23:05	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		08/18/25 15:21	08/18/25 23:05	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		08/18/25 15:21	08/18/25 23:05	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		08/18/25 15:21	08/18/25 23:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	08/18/25 15:21	08/18/25 23:05	1
1,4-Difluorobenzene (Surr)	93		70 - 130	08/18/25 15:21	08/18/25 23:05	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

Client Sample ID: CS 93

Lab Sample ID: 890-8635-2

Date Collected: 08/14/25 12:50

Matrix: Solid

Date Received: 08/15/25 16:45

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			08/18/25 23:05	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			08/19/25 03:44	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		08/18/25 10:46	08/19/25 03:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/18/25 10:46	08/19/25 03:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/18/25 10:46	08/19/25 03:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130			08/18/25 10:46	08/19/25 03:44	1
o-Terphenyl	98		70 - 130			08/18/25 10:46	08/19/25 03:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.1	U	10.1	mg/Kg			08/18/25 21:10	1

Client Sample ID: CS 69

Lab Sample ID: 890-8635-3

Date Collected: 08/14/25 10:15

Matrix: Solid

Date Received: 08/15/25 16:45

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		08/18/25 15:21	08/18/25 23:25	1
Toluene	<0.00202	U	0.00202	mg/Kg		08/18/25 15:21	08/18/25 23:25	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		08/18/25 15:21	08/18/25 23:25	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		08/18/25 15:21	08/18/25 23:25	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		08/18/25 15:21	08/18/25 23:25	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		08/18/25 15:21	08/18/25 23:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130			08/18/25 15:21	08/18/25 23:25	1
1,4-Difluorobenzene (Surr)	90		70 - 130			08/18/25 15:21	08/18/25 23:25	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			08/18/25 23:25	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			08/19/25 04:01	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		08/18/25 10:46	08/19/25 04:01	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/18/25 10:46	08/19/25 04:01	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

Client Sample ID: CS 69

Lab Sample ID: 890-8635-3

Date Collected: 08/14/25 10:15

Matrix: Solid

Date Received: 08/15/25 16:45

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/18/25 10:46	08/19/25 04:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130			08/18/25 10:46	08/19/25 04:01	1
o-Terphenyl	91		70 - 130			08/18/25 10:46	08/19/25 04:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0	mg/Kg			08/18/25 21:15	1

Client Sample ID: CS 68

Lab Sample ID: 890-8635-4

Date Collected: 08/14/25 10:15

Matrix: Solid

Date Received: 08/15/25 16:45

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		08/18/25 15:21	08/18/25 23:46	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/18/25 15:21	08/18/25 23:46	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/18/25 15:21	08/18/25 23:46	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/18/25 15:21	08/18/25 23:46	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/18/25 15:21	08/18/25 23:46	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/18/25 15:21	08/18/25 23:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130			08/18/25 15:21	08/18/25 23:46	1
1,4-Difluorobenzene (Surr)	93		70 - 130			08/18/25 15:21	08/18/25 23:46	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			08/18/25 23:46	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			08/18/25 22:20	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/18/25 10:48	08/18/25 22:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/18/25 10:48	08/18/25 22:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/18/25 10:48	08/18/25 22:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130			08/18/25 10:48	08/18/25 22:20	1
o-Terphenyl	119		70 - 130			08/18/25 10:48	08/18/25 22:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.1	U	10.1	mg/Kg			08/19/25 08:37	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

Client Sample ID: CS 67

Lab Sample ID: 890-8635-5

Date Collected: 08/14/25 10:15

Matrix: Solid

Date Received: 08/15/25 16:45

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		08/18/25 15:21	08/19/25 00:06	1
Toluene	<0.00198	U	0.00198	mg/Kg		08/18/25 15:21	08/19/25 00:06	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		08/18/25 15:21	08/19/25 00:06	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		08/18/25 15:21	08/19/25 00:06	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		08/18/25 15:21	08/19/25 00:06	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		08/18/25 15:21	08/19/25 00:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	08/18/25 15:21	08/19/25 00:06	1
1,4-Difluorobenzene (Surr)	93		70 - 130	08/18/25 15:21	08/19/25 00:06	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			08/19/25 00:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			08/18/25 23:05	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/18/25 10:48	08/18/25 23:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/18/25 10:48	08/18/25 23:05	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/18/25 10:48	08/18/25 23:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	08/18/25 10:48	08/18/25 23:05	1
o-Terphenyl	117		70 - 130	08/18/25 10:48	08/18/25 23:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	38.6		10.1	mg/Kg			08/19/25 02:06	1

Client Sample ID: CS 66

Lab Sample ID: 890-8635-6

Date Collected: 08/14/25 10:02

Matrix: Solid

Date Received: 08/15/25 16:45

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		08/18/25 15:21	08/19/25 00:26	1
Toluene	<0.00202	U	0.00202	mg/Kg		08/18/25 15:21	08/19/25 00:26	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		08/18/25 15:21	08/19/25 00:26	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		08/18/25 15:21	08/19/25 00:26	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		08/18/25 15:21	08/19/25 00:26	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		08/18/25 15:21	08/19/25 00:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	08/18/25 15:21	08/19/25 00:26	1
1,4-Difluorobenzene (Surr)	91		70 - 130	08/18/25 15:21	08/19/25 00:26	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

Client Sample ID: CS 66

Lab Sample ID: 890-8635-6

Date Collected: 08/14/25 10:02

Matrix: Solid

Date Received: 08/15/25 16:45

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			08/19/25 00:26	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			08/18/25 23:20	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/18/25 10:48	08/18/25 23:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/18/25 10:48	08/18/25 23:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/18/25 10:48	08/18/25 23:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130			08/18/25 10:48	08/18/25 23:20	1
o-Terphenyl	118		70 - 130			08/18/25 10:48	08/18/25 23:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29.7		9.90	mg/Kg			08/19/25 02:14	1

Client Sample ID: CS 65

Lab Sample ID: 890-8635-7

Date Collected: 08/14/25 10:02

Matrix: Solid

Date Received: 08/15/25 16:45

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		08/18/25 15:21	08/19/25 00:47	1
Toluene	<0.00202	U	0.00202	mg/Kg		08/18/25 15:21	08/19/25 00:47	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		08/18/25 15:21	08/19/25 00:47	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		08/18/25 15:21	08/19/25 00:47	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		08/18/25 15:21	08/19/25 00:47	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		08/18/25 15:21	08/19/25 00:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130			08/18/25 15:21	08/19/25 00:47	1
1,4-Difluorobenzene (Surr)	91		70 - 130			08/18/25 15:21	08/19/25 00:47	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			08/19/25 00:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			08/18/25 23:35	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		08/18/25 10:48	08/18/25 23:35	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/18/25 10:48	08/18/25 23:35	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

Client Sample ID: CS 65

Lab Sample ID: 890-8635-7

Date Collected: 08/14/25 10:02

Matrix: Solid

Date Received: 08/15/25 16:45

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/18/25 10:48	08/18/25 23:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130			08/18/25 10:48	08/18/25 23:35	1
o-Terphenyl	97		70 - 130			08/18/25 10:48	08/18/25 23:35	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	35.2		10.1	mg/Kg			08/19/25 02:21	1

Client Sample ID: CS 64

Lab Sample ID: 890-8635-8

Date Collected: 08/14/25 09:55

Matrix: Solid

Date Received: 08/15/25 16:45

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		08/18/25 15:21	08/19/25 01:07	1
Toluene	<0.00198	U	0.00198	mg/Kg		08/18/25 15:21	08/19/25 01:07	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		08/18/25 15:21	08/19/25 01:07	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		08/18/25 15:21	08/19/25 01:07	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		08/18/25 15:21	08/19/25 01:07	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		08/18/25 15:21	08/19/25 01:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130			08/18/25 15:21	08/19/25 01:07	1
1,4-Difluorobenzene (Surr)	92		70 - 130			08/18/25 15:21	08/19/25 01:07	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			08/19/25 01:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			08/18/25 23:49	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	<49.9	U	49.9	mg/Kg		08/18/25 10:48	08/18/25 23:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/18/25 10:48	08/18/25 23:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/18/25 10:48	08/18/25 23:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130			08/18/25 10:48	08/18/25 23:49	1
o-Terphenyl	115		70 - 130			08/18/25 10:48	08/18/25 23:49	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.5		10.1	mg/Kg			08/19/25 02:29	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

Client Sample ID: CS 58

Lab Sample ID: 890-8635-9

Date Collected: 08/14/25 09:35

Matrix: Solid

Date Received: 08/15/25 16:45

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		08/18/25 15:21	08/19/25 01:28	1
Toluene	<0.00198	U	0.00198	mg/Kg		08/18/25 15:21	08/19/25 01:28	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		08/18/25 15:21	08/19/25 01:28	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		08/18/25 15:21	08/19/25 01:28	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		08/18/25 15:21	08/19/25 01:28	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		08/18/25 15:21	08/19/25 01:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	08/18/25 15:21	08/19/25 01:28	1
1,4-Difluorobenzene (Surr)	92		70 - 130	08/18/25 15:21	08/19/25 01:28	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			08/19/25 01:28	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			08/19/25 00:05	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		08/18/25 10:48	08/19/25 00:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/18/25 10:48	08/19/25 00:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/18/25 10:48	08/19/25 00:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	08/18/25 10:48	08/19/25 00:05	1
o-Terphenyl	95		70 - 130	08/18/25 10:48	08/19/25 00:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	31.3		9.90	mg/Kg			08/19/25 02:52	1

Client Sample ID: CS 59

Lab Sample ID: 890-8635-10

Date Collected: 08/14/25 09:38

Matrix: Solid

Date Received: 08/15/25 16:45

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		08/18/25 15:21	08/19/25 01:48	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/18/25 15:21	08/19/25 01:48	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/18/25 15:21	08/19/25 01:48	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/18/25 15:21	08/19/25 01:48	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/18/25 15:21	08/19/25 01:48	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/18/25 15:21	08/19/25 01:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	08/18/25 15:21	08/19/25 01:48	1
1,4-Difluorobenzene (Surr)	91		70 - 130	08/18/25 15:21	08/19/25 01:48	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

Client Sample ID: CS 59

Lab Sample ID: 890-8635-10

Date Collected: 08/14/25 09:38

Matrix: Solid

Date Received: 08/15/25 16:45

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			08/19/25 01:48	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			08/19/25 00:19	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/18/25 10:48	08/19/25 00:19	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/18/25 10:48	08/19/25 00:19	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/18/25 10:48	08/19/25 00:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130			08/18/25 10:48	08/19/25 00:19	1
o-Terphenyl	104		70 - 130			08/18/25 10:48	08/19/25 00:19	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	168		10.1	mg/Kg			08/19/25 02:59	1

Client Sample ID: CS 99

Lab Sample ID: 890-8635-11

Date Collected: 08/18/25 14:27

Matrix: Solid

Date Received: 08/15/25 16:45

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		08/18/25 15:21	08/19/25 03:22	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/18/25 15:21	08/19/25 03:22	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/18/25 15:21	08/19/25 03:22	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/18/25 15:21	08/19/25 03:22	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/18/25 15:21	08/19/25 03:22	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/18/25 15:21	08/19/25 03:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130			08/18/25 15:21	08/19/25 03:22	1
1,4-Difluorobenzene (Surr)	94		70 - 130			08/18/25 15:21	08/19/25 03:22	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			08/19/25 03:22	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			08/19/25 00:35	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		08/18/25 10:48	08/19/25 00:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/18/25 10:48	08/19/25 00:35	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

Client Sample ID: CS 99

Lab Sample ID: 890-8635-11

Date Collected: 08/18/25 14:27

Matrix: Solid

Date Received: 08/15/25 16:45

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/18/25 10:48	08/19/25 00:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130			08/18/25 10:48	08/19/25 00:35	1
o-Terphenyl	120		70 - 130			08/18/25 10:48	08/19/25 00:35	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.2		10.1	mg/Kg			08/19/25 03:07	1

Client Sample ID: CS 101

Lab Sample ID: 890-8635-12

Date Collected: 08/14/25 14:31

Matrix: Solid

Date Received: 08/15/25 16:45

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		08/18/25 15:21	08/19/25 03:42	1
Toluene	<0.00201	U	0.00201	mg/Kg		08/18/25 15:21	08/19/25 03:42	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		08/18/25 15:21	08/19/25 03:42	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		08/18/25 15:21	08/19/25 03:42	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		08/18/25 15:21	08/19/25 03:42	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		08/18/25 15:21	08/19/25 03:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130			08/18/25 15:21	08/19/25 03:42	1
1,4-Difluorobenzene (Surr)	91		70 - 130			08/18/25 15:21	08/19/25 03:42	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			08/19/25 03:42	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			08/19/25 00:49	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	<49.8	U	49.8	mg/Kg		08/18/25 10:48	08/19/25 00:49	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/18/25 10:48	08/19/25 00:49	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/18/25 10:48	08/19/25 00:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130			08/18/25 10:48	08/19/25 00:49	1
o-Terphenyl	126		70 - 130			08/18/25 10:48	08/19/25 00:49	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.3		9.96	mg/Kg			08/19/25 03:15	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

Client Sample ID: CS 98

Lab Sample ID: 890-8635-13

Date Collected: 08/14/25 14:25

Matrix: Solid

Date Received: 08/15/25 16:45

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		08/18/25 15:21	08/19/25 04:03	1
Toluene	<0.00201	U	0.00201	mg/Kg		08/18/25 15:21	08/19/25 04:03	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		08/18/25 15:21	08/19/25 04:03	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		08/18/25 15:21	08/19/25 04:03	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		08/18/25 15:21	08/19/25 04:03	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		08/18/25 15:21	08/19/25 04:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	08/18/25 15:21	08/19/25 04:03	1
1,4-Difluorobenzene (Surr)	92		70 - 130	08/18/25 15:21	08/19/25 04:03	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			08/19/25 04:03	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			08/19/25 01:05	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/18/25 10:48	08/19/25 01:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/18/25 10:48	08/19/25 01:05	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/18/25 10:48	08/19/25 01:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130	08/18/25 10:48	08/19/25 01:05	1
o-Terphenyl	102		70 - 130	08/18/25 10:48	08/19/25 01:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.7		10.0	mg/Kg			08/19/25 08:59	1

Client Sample ID: CS 100

Lab Sample ID: 890-8635-14

Date Collected: 08/14/25 14:29

Matrix: Solid

Date Received: 08/15/25 16:45

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		08/18/25 15:21	08/19/25 04:23	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/18/25 15:21	08/19/25 04:23	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/18/25 15:21	08/19/25 04:23	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/18/25 15:21	08/19/25 04:23	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/18/25 15:21	08/19/25 04:23	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/18/25 15:21	08/19/25 04:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	08/18/25 15:21	08/19/25 04:23	1
1,4-Difluorobenzene (Surr)	90		70 - 130	08/18/25 15:21	08/19/25 04:23	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

Client Sample ID: CS 100

Lab Sample ID: 890-8635-14

Date Collected: 08/14/25 14:29

Matrix: Solid

Date Received: 08/15/25 16:45

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			08/19/25 04:23	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			08/19/25 01:34	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	<50.0	U	50.0	mg/Kg		08/18/25 10:48	08/19/25 01:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/18/25 10:48	08/19/25 01:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/18/25 10:48	08/19/25 01:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130			08/18/25 10:48	08/19/25 01:34	1
o-Terphenyl	99		70 - 130			08/18/25 10:48	08/19/25 01:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	52.1		9.96	mg/Kg			08/19/25 03:24	1

Client Sample ID: CS 95

Lab Sample ID: 890-8635-15

Date Collected: 08/14/25 13:00

Matrix: Solid

Date Received: 08/15/25 16:45

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		08/18/25 15:21	08/19/25 04:44	1
Toluene	<0.00198	U	0.00198	mg/Kg		08/18/25 15:21	08/19/25 04:44	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		08/18/25 15:21	08/19/25 04:44	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		08/18/25 15:21	08/19/25 04:44	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		08/18/25 15:21	08/19/25 04:44	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		08/18/25 15:21	08/19/25 04:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130			08/18/25 15:21	08/19/25 04:44	1
1,4-Difluorobenzene (Surr)	90		70 - 130			08/18/25 15:21	08/19/25 04:44	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			08/19/25 04:44	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			08/19/25 01:48	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		08/18/25 10:48	08/19/25 01:48	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/18/25 10:48	08/19/25 01:48	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

Client Sample ID: CS 95

Lab Sample ID: 890-8635-15

Date Collected: 08/14/25 13:00

Matrix: Solid

Date Received: 08/15/25 16:45

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/18/25 10:48	08/19/25 01:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130			08/18/25 10:48	08/19/25 01:48	1
o-Terphenyl	113		70 - 130			08/18/25 10:48	08/19/25 01:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0	mg/Kg			08/19/25 03:47	1

Client Sample ID: CS 94

Lab Sample ID: 890-8635-16

Date Collected: 08/14/25 13:00

Matrix: Solid

Date Received: 08/15/25 16:45

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		08/18/25 15:21	08/19/25 05:04	1
Toluene	<0.00201	U	0.00201	mg/Kg		08/18/25 15:21	08/19/25 05:04	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		08/18/25 15:21	08/19/25 05:04	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		08/18/25 15:21	08/19/25 05:04	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		08/18/25 15:21	08/19/25 05:04	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		08/18/25 15:21	08/19/25 05:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130			08/18/25 15:21	08/19/25 05:04	1
1,4-Difluorobenzene (Surr)	91		70 - 130			08/18/25 15:21	08/19/25 05:04	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			08/19/25 05:04	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			08/19/25 02:04	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		08/18/25 10:48	08/19/25 02:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/18/25 10:48	08/19/25 02:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/18/25 10:48	08/19/25 02:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130			08/18/25 10:48	08/19/25 02:04	1
o-Terphenyl	97		70 - 130			08/18/25 10:48	08/19/25 02:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.92	U	9.92	mg/Kg			08/19/25 09:07	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

Client Sample ID: CS 74

Lab Sample ID: 890-8635-17

Date Collected: 08/14/25 10:45

Matrix: Solid

Date Received: 08/15/25 16:45

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		08/18/25 15:21	08/19/25 05:24	1
Toluene	<0.00202	U	0.00202	mg/Kg		08/18/25 15:21	08/19/25 05:24	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		08/18/25 15:21	08/19/25 05:24	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		08/18/25 15:21	08/19/25 05:24	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		08/18/25 15:21	08/19/25 05:24	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		08/18/25 15:21	08/19/25 05:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	08/18/25 15:21	08/19/25 05:24	1
1,4-Difluorobenzene (Surr)	91		70 - 130	08/18/25 15:21	08/19/25 05:24	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			08/19/25 05:24	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			08/19/25 02:19	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		08/18/25 10:48	08/19/25 02:19	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/18/25 10:48	08/19/25 02:19	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/18/25 10:48	08/19/25 02:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	08/18/25 10:48	08/19/25 02:19	1
o-Terphenyl	114		70 - 130	08/18/25 10:48	08/19/25 02:19	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.1	U	10.1	mg/Kg			08/19/25 04:17	1

Client Sample ID: CS 85

Lab Sample ID: 890-8635-18

Date Collected: 08/14/25 12:35

Matrix: Solid

Date Received: 08/15/25 16:45

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		08/18/25 15:21	08/19/25 05:45	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/18/25 15:21	08/19/25 05:45	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/18/25 15:21	08/19/25 05:45	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/18/25 15:21	08/19/25 05:45	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/18/25 15:21	08/19/25 05:45	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/18/25 15:21	08/19/25 05:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	08/18/25 15:21	08/19/25 05:45	1
1,4-Difluorobenzene (Surr)	89		70 - 130	08/18/25 15:21	08/19/25 05:45	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

Client Sample ID: CS 85

Lab Sample ID: 890-8635-18

Date Collected: 08/14/25 12:35

Matrix: Solid

Date Received: 08/15/25 16:45

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			08/19/25 05:45	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			08/19/25 02:34	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	<49.9	U	49.9	mg/Kg		08/18/25 10:48	08/19/25 02:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/18/25 10:48	08/19/25 02:34	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/18/25 10:48	08/19/25 02:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130			08/18/25 10:48	08/19/25 02:34	1
o-Terphenyl	110		70 - 130			08/18/25 10:48	08/19/25 02:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.1	U	10.1	mg/Kg			08/19/25 09:15	1

Client Sample ID: CS 86

Lab Sample ID: 890-8635-19

Date Collected: 08/14/25 12:35

Matrix: Solid

Date Received: 08/15/25 16:45

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		08/18/25 15:21	08/19/25 06:05	1
Toluene	<0.00198	U	0.00198	mg/Kg		08/18/25 15:21	08/19/25 06:05	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		08/18/25 15:21	08/19/25 06:05	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		08/18/25 15:21	08/19/25 06:05	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		08/18/25 15:21	08/19/25 06:05	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		08/18/25 15:21	08/19/25 06:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130			08/18/25 15:21	08/19/25 06:05	1
1,4-Difluorobenzene (Surr)	92		70 - 130			08/18/25 15:21	08/19/25 06:05	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			08/19/25 06:05	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			08/19/25 02:48	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		08/18/25 10:48	08/19/25 02:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/18/25 10:48	08/19/25 02:48	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

Client Sample ID: CS 86

Lab Sample ID: 890-8635-19

Date Collected: 08/14/25 12:35

Matrix: Solid

Date Received: 08/15/25 16:45

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/18/25 10:48	08/19/25 02:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130			08/18/25 10:48	08/19/25 02:48	1
o-Terphenyl	112		70 - 130			08/18/25 10:48	08/19/25 02:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.94	U	9.94	mg/Kg			08/19/25 04:27	1

Client Sample ID: CS 87

Lab Sample ID: 890-8635-20

Date Collected: 08/14/25 12:35

Matrix: Solid

Date Received: 08/15/25 16:45

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		08/18/25 15:21	08/19/25 06:26	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/18/25 15:21	08/19/25 06:26	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/18/25 15:21	08/19/25 06:26	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/18/25 15:21	08/19/25 06:26	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/18/25 15:21	08/19/25 06:26	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/18/25 15:21	08/19/25 06:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130			08/18/25 15:21	08/19/25 06:26	1
1,4-Difluorobenzene (Surr)	92		70 - 130			08/18/25 15:21	08/19/25 06:26	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			08/19/25 06:26	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			08/19/25 03:04	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		08/18/25 10:48	08/19/25 03:04	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/18/25 10:48	08/19/25 03:04	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/18/25 10:48	08/19/25 03:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130			08/18/25 10:48	08/19/25 03:04	1
o-Terphenyl	108		70 - 130			08/18/25 10:48	08/19/25 03:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.1	U	10.1	mg/Kg			08/19/25 04:34	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

Client Sample ID: CS 60

Lab Sample ID: 890-8635-21

Date Collected: 08/14/25 09:41

Matrix: Solid

Date Received: 08/15/25 16:45

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		08/18/25 15:23	08/19/25 10:09	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/18/25 15:23	08/19/25 10:09	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/18/25 15:23	08/19/25 10:09	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		08/18/25 15:23	08/19/25 10:09	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/18/25 15:23	08/19/25 10:09	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		08/18/25 15:23	08/19/25 10:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	08/18/25 15:23	08/19/25 10:09	1
1,4-Difluorobenzene (Surr)	89		70 - 130	08/18/25 15:23	08/19/25 10:09	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			08/19/25 10:09	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	52.6		49.8	mg/Kg			08/19/25 03:18	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		08/18/25 10:48	08/19/25 03:18	1
Diesel Range Organics (Over C10-C28)	52.6		49.8	mg/Kg		08/18/25 10:48	08/19/25 03:18	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/18/25 10:48	08/19/25 03:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	08/18/25 10:48	08/19/25 03:18	1
o-Terphenyl	112		70 - 130	08/18/25 10:48	08/19/25 03:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	61.2		10.1	mg/Kg			08/19/25 04:42	1

Client Sample ID: CS 61

Lab Sample ID: 890-8635-22

Date Collected: 08/14/25 09:45

Matrix: Solid

Date Received: 08/15/25 16:45

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		08/18/25 15:23	08/19/25 10:30	1
Toluene	<0.00201	U	0.00201	mg/Kg		08/18/25 15:23	08/19/25 10:30	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		08/18/25 15:23	08/19/25 10:30	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		08/18/25 15:23	08/19/25 10:30	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		08/18/25 15:23	08/19/25 10:30	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		08/18/25 15:23	08/19/25 10:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	08/18/25 15:23	08/19/25 10:30	1
1,4-Difluorobenzene (Surr)	91		70 - 130	08/18/25 15:23	08/19/25 10:30	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

Client Sample ID: CS 61

Lab Sample ID: 890-8635-22

Date Collected: 08/14/25 09:45

Matrix: Solid

Date Received: 08/15/25 16:45

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			08/19/25 10:30	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			08/19/25 03:33	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		08/18/25 10:48	08/19/25 03:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/18/25 10:48	08/19/25 03:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/18/25 10:48	08/19/25 03:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130			08/18/25 10:48	08/19/25 03:33	1
o-Terphenyl	100		70 - 130			08/18/25 10:48	08/19/25 03:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	66.4		9.96	mg/Kg			08/19/25 04:49	1

Client Sample ID: CS 62

Lab Sample ID: 890-8635-23

Date Collected: 08/14/25 09:45

Matrix: Solid

Date Received: 08/15/25 16:45

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		08/18/25 15:23	08/19/25 10:50	1
Toluene	<0.00202	U	0.00202	mg/Kg		08/18/25 15:23	08/19/25 10:50	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		08/18/25 15:23	08/19/25 10:50	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		08/18/25 15:23	08/19/25 10:50	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		08/18/25 15:23	08/19/25 10:50	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		08/18/25 15:23	08/19/25 10:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130			08/18/25 15:23	08/19/25 10:50	1
1,4-Difluorobenzene (Surr)	86		70 - 130			08/18/25 15:23	08/19/25 10:50	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			08/19/25 10:50	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			08/19/25 03:47	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	<49.8	U	49.8	mg/Kg		08/18/25 10:48	08/19/25 03:47	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/18/25 10:48	08/19/25 03:47	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

Client Sample ID: CS 62

Lab Sample ID: 890-8635-23

Date Collected: 08/14/25 09:45

Matrix: Solid

Date Received: 08/15/25 16:45

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/18/25 10:48	08/19/25 03:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130			08/18/25 10:48	08/19/25 03:47	1
o-Terphenyl	122		70 - 130			08/18/25 10:48	08/19/25 03:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	34.7		10.1	mg/Kg			08/19/25 04:57	1

Client Sample ID: CS 63

Lab Sample ID: 890-8635-24

Date Collected: 08/14/25 09:55

Matrix: Solid

Date Received: 08/15/25 16:45

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		08/18/25 15:23	08/19/25 11:10	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/18/25 15:23	08/19/25 11:10	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/18/25 15:23	08/19/25 11:10	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/18/25 15:23	08/19/25 11:10	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/18/25 15:23	08/19/25 11:10	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/18/25 15:23	08/19/25 11:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130			08/18/25 15:23	08/19/25 11:10	1
1,4-Difluorobenzene (Surr)	92		70 - 130			08/18/25 15:23	08/19/25 11:10	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			08/19/25 11:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			08/18/25 22:20	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/18/25 10:50	08/18/25 22:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/18/25 10:50	08/18/25 22:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/18/25 10:50	08/18/25 22:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130			08/18/25 10:50	08/18/25 22:20	1
o-Terphenyl	129		70 - 130			08/18/25 10:50	08/18/25 22:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.6		9.96	mg/Kg			08/18/25 22:01	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

Client Sample ID: CS 70

Lab Sample ID: 890-8635-25

Date Collected: 08/14/25 10:25

Matrix: Solid

Date Received: 08/15/25 16:45

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		08/18/25 15:23	08/19/25 11:31	1
Toluene	<0.00198	U	0.00198	mg/Kg		08/18/25 15:23	08/19/25 11:31	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		08/18/25 15:23	08/19/25 11:31	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		08/18/25 15:23	08/19/25 11:31	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		08/18/25 15:23	08/19/25 11:31	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		08/18/25 15:23	08/19/25 11:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	08/18/25 15:23	08/19/25 11:31	1
1,4-Difluorobenzene (Surr)	90		70 - 130	08/18/25 15:23	08/19/25 11:31	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			08/19/25 11:31	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			08/18/25 23:05	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		08/18/25 10:50	08/18/25 23:05	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/18/25 10:50	08/18/25 23:05	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/18/25 10:50	08/18/25 23:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130	08/18/25 10:50	08/18/25 23:05	1
o-Terphenyl	117		70 - 130	08/18/25 10:50	08/18/25 23:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.1	U	10.1	mg/Kg			08/18/25 22:18	1

Client Sample ID: CS 73

Lab Sample ID: 890-8635-26

Date Collected: 08/14/25 10:33

Matrix: Solid

Date Received: 08/15/25 16:45

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		08/18/25 15:23	08/19/25 11:51	1
Toluene	<0.00202	U	0.00202	mg/Kg		08/18/25 15:23	08/19/25 11:51	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		08/18/25 15:23	08/19/25 11:51	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		08/18/25 15:23	08/19/25 11:51	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		08/18/25 15:23	08/19/25 11:51	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		08/18/25 15:23	08/19/25 11:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	08/18/25 15:23	08/19/25 11:51	1
1,4-Difluorobenzene (Surr)	91		70 - 130	08/18/25 15:23	08/19/25 11:51	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

Client Sample ID: CS 73

Lab Sample ID: 890-8635-26

Date Collected: 08/14/25 10:33

Matrix: Solid

Date Received: 08/15/25 16:45

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			08/19/25 11:51	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	56.1		49.9	mg/Kg			08/18/25 23:20	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/18/25 10:50	08/18/25 23:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/18/25 10:50	08/18/25 23:20	1
Oil Range Organics (Over C28-C36)	56.1		49.9	mg/Kg		08/18/25 10:50	08/18/25 23:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130			08/18/25 10:50	08/18/25 23:20	1
o-Terphenyl	122		70 - 130			08/18/25 10:50	08/18/25 23:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.1	U	10.1	mg/Kg			08/18/25 22:23	1

Client Sample ID: CS 77

Lab Sample ID: 890-8635-27

Date Collected: 08/14/25 10:49

Matrix: Solid

Date Received: 08/15/25 16:45

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		08/18/25 15:23	08/19/25 12:12	1
Toluene	<0.00202	U	0.00202	mg/Kg		08/18/25 15:23	08/19/25 12:12	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		08/18/25 15:23	08/19/25 12:12	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		08/18/25 15:23	08/19/25 12:12	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		08/18/25 15:23	08/19/25 12:12	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		08/18/25 15:23	08/19/25 12:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130			08/18/25 15:23	08/19/25 12:12	1
1,4-Difluorobenzene (Surr)	89		70 - 130			08/18/25 15:23	08/19/25 12:12	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			08/19/25 12:12	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			08/18/25 23:35	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		08/18/25 10:50	08/18/25 23:35	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

Client Sample ID: CS 77

Lab Sample ID: 890-8635-27

Date Collected: 08/14/25 10:49

Matrix: Solid

Date Received: 08/15/25 16:45

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/18/25 10:50	08/18/25 23:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/18/25 10:50	08/18/25 23:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130			08/18/25 10:50	08/18/25 23:35	1
o-Terphenyl	115		70 - 130			08/18/25 10:50	08/18/25 23:35	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.96	U	9.96	mg/Kg			08/18/25 22:29	1

Client Sample ID: CS 80

Lab Sample ID: 890-8635-28

Date Collected: 08/14/25 10:58

Matrix: Solid

Date Received: 08/15/25 16:45

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		08/18/25 15:23	08/19/25 12:32	1
Toluene	<0.00198	U	0.00198	mg/Kg		08/18/25 15:23	08/19/25 12:32	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		08/18/25 15:23	08/19/25 12:32	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		08/18/25 15:23	08/19/25 12:32	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		08/18/25 15:23	08/19/25 12:32	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		08/18/25 15:23	08/19/25 12:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130			08/18/25 15:23	08/19/25 12:32	1
1,4-Difluorobenzene (Surr)	87		70 - 130			08/18/25 15:23	08/19/25 12:32	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			08/19/25 12:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			08/18/25 23:49	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	<49.9	U	49.9	mg/Kg		08/18/25 10:50	08/18/25 23:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/18/25 10:50	08/18/25 23:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/18/25 10:50	08/18/25 23:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130			08/18/25 10:50	08/18/25 23:49	1
o-Terphenyl	123		70 - 130			08/18/25 10:50	08/18/25 23:49	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0	mg/Kg			08/18/25 22:35	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

Client Sample ID: CS 72

Lab Sample ID: 890-8635-29

Date Collected: 08/14/25 10:31

Matrix: Solid

Date Received: 08/15/25 16:45

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		08/18/25 15:23	08/19/25 12:53	1
Toluene	<0.00198	U	0.00198	mg/Kg		08/18/25 15:23	08/19/25 12:53	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		08/18/25 15:23	08/19/25 12:53	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		08/18/25 15:23	08/19/25 12:53	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		08/18/25 15:23	08/19/25 12:53	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		08/18/25 15:23	08/19/25 12:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	08/18/25 15:23	08/19/25 12:53	1
1,4-Difluorobenzene (Surr)	89		70 - 130	08/18/25 15:23	08/19/25 12:53	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			08/19/25 12:53	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			08/19/25 00:05	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		08/18/25 10:50	08/19/25 00:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/18/25 10:50	08/19/25 00:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/18/25 10:50	08/19/25 00:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130	08/18/25 10:50	08/19/25 00:05	1
o-Terphenyl	117		70 - 130	08/18/25 10:50	08/19/25 00:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.98	U	9.98	mg/Kg			08/18/25 22:52	1

Client Sample ID: CS 84

Lab Sample ID: 890-8635-30

Date Collected: 08/14/25 12:17

Matrix: Solid

Date Received: 08/15/25 16:45

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		08/18/25 15:23	08/19/25 13:13	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/18/25 15:23	08/19/25 13:13	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/18/25 15:23	08/19/25 13:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/18/25 15:23	08/19/25 13:13	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/18/25 15:23	08/19/25 13:13	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/18/25 15:23	08/19/25 13:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	08/18/25 15:23	08/19/25 13:13	1
1,4-Difluorobenzene (Surr)	89		70 - 130	08/18/25 15:23	08/19/25 13:13	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

Client Sample ID: CS 84

Lab Sample ID: 890-8635-30

Date Collected: 08/14/25 12:17

Matrix: Solid

Date Received: 08/15/25 16:45

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			08/19/25 13:13	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			08/19/25 00:19	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		08/18/25 10:50	08/19/25 00:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/18/25 10:50	08/19/25 00:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/18/25 10:50	08/19/25 00:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130			08/18/25 10:50	08/19/25 00:19	1
o-Terphenyl	120		70 - 130			08/18/25 10:50	08/19/25 00:19	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.1	U	10.1	mg/Kg			08/18/25 22:57	1

Client Sample ID: CS 78

Lab Sample ID: 890-8635-31

Date Collected: 08/14/25 10:53

Matrix: Solid

Date Received: 08/15/25 16:45

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		08/18/25 16:10	08/19/25 09:41	1
Toluene	<0.00202	U	0.00202	mg/Kg		08/18/25 16:10	08/19/25 09:41	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		08/18/25 16:10	08/19/25 09:41	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		08/18/25 16:10	08/19/25 09:41	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		08/18/25 16:10	08/19/25 09:41	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		08/18/25 16:10	08/19/25 09:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130			08/18/25 16:10	08/19/25 09:41	1
1,4-Difluorobenzene (Surr)	95		70 - 130			08/18/25 16:10	08/19/25 09:41	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			08/19/25 09:41	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			08/19/25 00:35	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		08/18/25 10:50	08/19/25 00:35	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		08/18/25 10:50	08/19/25 00:35	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

Client Sample ID: CS 78

Lab Sample ID: 890-8635-31

Date Collected: 08/14/25 10:53

Matrix: Solid

Date Received: 08/15/25 16:45

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		08/18/25 10:50	08/19/25 00:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130			08/18/25 10:50	08/19/25 00:35	1
o-Terphenyl	115		70 - 130			08/18/25 10:50	08/19/25 00:35	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0	mg/Kg			08/18/25 23:03	1

Client Sample ID: CS 71

Lab Sample ID: 890-8635-32

Date Collected: 08/14/25 10:29

Matrix: Solid

Date Received: 08/15/25 16:45

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		08/18/25 16:10	08/19/25 10:22	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/18/25 16:10	08/19/25 10:22	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/18/25 16:10	08/19/25 10:22	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		08/18/25 16:10	08/19/25 10:22	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/18/25 16:10	08/19/25 10:22	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		08/18/25 16:10	08/19/25 10:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130			08/18/25 16:10	08/19/25 10:22	1
1,4-Difluorobenzene (Surr)	89		70 - 130			08/18/25 16:10	08/19/25 10:22	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			08/19/25 10:22	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			08/19/25 00:49	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	<50.0	U	50.0	mg/Kg		08/18/25 10:50	08/19/25 00:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/18/25 10:50	08/19/25 00:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/18/25 10:50	08/19/25 00:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130			08/18/25 10:50	08/19/25 00:49	1
o-Terphenyl	124		70 - 130			08/18/25 10:50	08/19/25 00:49	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.98	U	9.98	mg/Kg			08/18/25 23:09	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

Client Sample ID: CS 75

Lab Sample ID: 890-8635-33

Date Collected: 08/14/25 10:45

Matrix: Solid

Date Received: 08/15/25 16:45

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		08/18/25 16:10	08/19/25 10:42	1
Toluene	<0.00202	U	0.00202	mg/Kg		08/18/25 16:10	08/19/25 10:42	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		08/18/25 16:10	08/19/25 10:42	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		08/18/25 16:10	08/19/25 10:42	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		08/18/25 16:10	08/19/25 10:42	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		08/18/25 16:10	08/19/25 10:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	08/18/25 16:10	08/19/25 10:42	1
1,4-Difluorobenzene (Surr)	92		70 - 130	08/18/25 16:10	08/19/25 10:42	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			08/19/25 10:42	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			08/19/25 01:05	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/18/25 10:50	08/19/25 01:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/18/25 10:50	08/19/25 01:05	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/18/25 10:50	08/19/25 01:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130	08/18/25 10:50	08/19/25 01:05	1
o-Terphenyl	125		70 - 130	08/18/25 10:50	08/19/25 01:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.1	U	10.1	mg/Kg			08/18/25 23:14	1

Client Sample ID: CS 79

Lab Sample ID: 890-8635-34

Date Collected: 08/14/25 10:55

Matrix: Solid

Date Received: 08/15/25 16:45

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		08/18/25 16:10	08/19/25 11:02	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/18/25 16:10	08/19/25 11:02	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/18/25 16:10	08/19/25 11:02	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		08/18/25 16:10	08/19/25 11:02	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/18/25 16:10	08/19/25 11:02	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		08/18/25 16:10	08/19/25 11:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	08/18/25 16:10	08/19/25 11:02	1
1,4-Difluorobenzene (Surr)	91		70 - 130	08/18/25 16:10	08/19/25 11:02	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

Client Sample ID: CS 79

Lab Sample ID: 890-8635-34

Date Collected: 08/14/25 10:55

Matrix: Solid

Date Received: 08/15/25 16:45

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			08/19/25 11:02	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			08/19/25 01:34	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	<49.8	U	49.8	mg/Kg		08/18/25 10:50	08/19/25 01:34	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/18/25 10:50	08/19/25 01:34	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/18/25 10:50	08/19/25 01:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130			08/18/25 10:50	08/19/25 01:34	1
o-Terphenyl	118		70 - 130			08/18/25 10:50	08/19/25 01:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.1	U	10.1	mg/Kg			08/18/25 23:20	1

Client Sample ID: CS 76

Lab Sample ID: 890-8635-35

Date Collected: 08/14/25 10:47

Matrix: Solid

Date Received: 08/15/25 16:45

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		08/18/25 16:10	08/19/25 11:23	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/18/25 16:10	08/19/25 11:23	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/18/25 16:10	08/19/25 11:23	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		08/18/25 16:10	08/19/25 11:23	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/18/25 16:10	08/19/25 11:23	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		08/18/25 16:10	08/19/25 11:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130			08/18/25 16:10	08/19/25 11:23	1
1,4-Difluorobenzene (Surr)	90		70 - 130			08/18/25 16:10	08/19/25 11:23	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			08/19/25 11:23	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			08/19/25 01:48	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/18/25 10:50	08/19/25 01:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/18/25 10:50	08/19/25 01:48	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

Client Sample ID: CS 76

Lab Sample ID: 890-8635-35

Date Collected: 08/14/25 10:47

Matrix: Solid

Date Received: 08/15/25 16:45

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/18/25 10:50	08/19/25 01:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130			08/18/25 10:50	08/19/25 01:48	1
o-Terphenyl	116		70 - 130			08/18/25 10:50	08/19/25 01:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.98	U	9.98	mg/Kg			08/18/25 23:37	1

Client Sample ID: CS 83

Lab Sample ID: 890-8635-36

Date Collected: 08/14/25 12:15

Matrix: Solid

Date Received: 08/15/25 16:45

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		08/18/25 16:10	08/19/25 11:43	1
Toluene	<0.00202	U	0.00202	mg/Kg		08/18/25 16:10	08/19/25 11:43	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		08/18/25 16:10	08/19/25 11:43	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		08/18/25 16:10	08/19/25 11:43	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		08/18/25 16:10	08/19/25 11:43	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		08/18/25 16:10	08/19/25 11:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130			08/18/25 16:10	08/19/25 11:43	1
1,4-Difluorobenzene (Surr)	91		70 - 130			08/18/25 16:10	08/19/25 11:43	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			08/19/25 11:43	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			08/19/25 02:04	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		08/18/25 10:50	08/19/25 02:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/18/25 10:50	08/19/25 02:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/18/25 10:50	08/19/25 02:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130			08/18/25 10:50	08/19/25 02:04	1
o-Terphenyl	108		70 - 130			08/18/25 10:50	08/19/25 02:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.1	U	10.1	mg/Kg			08/18/25 23:43	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

Client Sample ID: CS 96

Lab Sample ID: 890-8635-37

Date Collected: 08/14/25 12:58

Matrix: Solid

Date Received: 08/15/25 16:45

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		08/18/25 16:10	08/19/25 12:04	1
Toluene	<0.00198	U	0.00198	mg/Kg		08/18/25 16:10	08/19/25 12:04	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		08/18/25 16:10	08/19/25 12:04	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		08/18/25 16:10	08/19/25 12:04	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		08/18/25 16:10	08/19/25 12:04	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		08/18/25 16:10	08/19/25 12:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	08/18/25 16:10	08/19/25 12:04	1
1,4-Difluorobenzene (Surr)	92		70 - 130	08/18/25 16:10	08/19/25 12:04	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			08/19/25 12:04	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			08/19/25 02:19	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		08/18/25 10:50	08/19/25 02:19	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/18/25 10:50	08/19/25 02:19	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/18/25 10:50	08/19/25 02:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130	08/18/25 10:50	08/19/25 02:19	1
o-Terphenyl	125		70 - 130	08/18/25 10:50	08/19/25 02:19	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.4		10.1	mg/Kg			08/19/25 00:00	1

Client Sample ID: CS 81

Lab Sample ID: 890-8635-38

Date Collected: 08/14/25 12:10

Matrix: Solid

Date Received: 08/15/25 16:45

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		08/18/25 16:10	08/19/25 12:24	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/18/25 16:10	08/19/25 12:24	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/18/25 16:10	08/19/25 12:24	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/18/25 16:10	08/19/25 12:24	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/18/25 16:10	08/19/25 12:24	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/18/25 16:10	08/19/25 12:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	08/18/25 16:10	08/19/25 12:24	1
1,4-Difluorobenzene (Surr)	90		70 - 130	08/18/25 16:10	08/19/25 12:24	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

Client Sample ID: CS 81

Lab Sample ID: 890-8635-38

Date Collected: 08/14/25 12:10

Matrix: Solid

Date Received: 08/15/25 16:45

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			08/19/25 12:24	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			08/19/25 02:34	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	<49.8	U	49.8	mg/Kg		08/18/25 10:50	08/19/25 02:34	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/18/25 10:50	08/19/25 02:34	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/18/25 10:50	08/19/25 02:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130			08/18/25 10:50	08/19/25 02:34	1
o-Terphenyl	120		70 - 130			08/18/25 10:50	08/19/25 02:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	429		9.90	mg/Kg			08/19/25 00:05	1

Client Sample ID: CS 89

Lab Sample ID: 890-8635-39

Date Collected: 08/14/25 12:38

Matrix: Solid

Date Received: 08/15/25 16:45

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		08/18/25 16:10	08/19/25 12:44	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/18/25 16:10	08/19/25 12:44	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/18/25 16:10	08/19/25 12:44	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		08/18/25 16:10	08/19/25 12:44	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/18/25 16:10	08/19/25 12:44	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		08/18/25 16:10	08/19/25 12:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130			08/18/25 16:10	08/19/25 12:44	1
1,4-Difluorobenzene (Surr)	91		70 - 130			08/18/25 16:10	08/19/25 12:44	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			08/19/25 12:44	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			08/19/25 02:48	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		08/18/25 10:50	08/19/25 02:48	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/18/25 10:50	08/19/25 02:48	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

Client Sample ID: CS 89

Lab Sample ID: 890-8635-39

Date Collected: 08/14/25 12:38

Matrix: Solid

Date Received: 08/15/25 16:45

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/18/25 10:50	08/19/25 02:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130			08/18/25 10:50	08/19/25 02:48	1
o-Terphenyl	123		70 - 130			08/18/25 10:50	08/19/25 02:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.1	U	10.1	mg/Kg			08/19/25 00:11	1

Client Sample ID: CS 82

Lab Sample ID: 890-8635-40

Date Collected: 08/14/25 12:13

Matrix: Solid

Date Received: 08/15/25 16:45

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		08/18/25 16:10	08/19/25 14:19	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/18/25 16:10	08/19/25 14:19	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/18/25 16:10	08/19/25 14:19	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/18/25 16:10	08/19/25 14:19	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/18/25 16:10	08/19/25 14:19	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/18/25 16:10	08/19/25 14:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130			08/18/25 16:10	08/19/25 14:19	1
1,4-Difluorobenzene (Surr)	94		70 - 130			08/18/25 16:10	08/19/25 14:19	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			08/19/25 14:19	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			08/19/25 03:04	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/18/25 10:50	08/19/25 03:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/18/25 10:50	08/19/25 03:04	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/18/25 10:50	08/19/25 03:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130			08/18/25 10:50	08/19/25 03:04	1
o-Terphenyl	125		70 - 130			08/18/25 10:50	08/19/25 03:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	76.4		10.1	mg/Kg			08/19/25 00:17	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

Client Sample ID: CS 91

Lab Sample ID: 890-8635-41

Date Collected: 08/14/25 12:47

Matrix: Solid

Date Received: 08/15/25 16:45

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		08/18/25 16:00	08/18/25 17:13	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/18/25 16:00	08/18/25 17:13	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/18/25 16:00	08/18/25 17:13	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		08/18/25 16:00	08/18/25 17:13	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/18/25 16:00	08/18/25 17:13	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		08/18/25 16:00	08/18/25 17:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	08/18/25 16:00	08/18/25 17:13	1
1,4-Difluorobenzene (Surr)	87		70 - 130	08/18/25 16:00	08/18/25 17:13	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			08/18/25 17:13	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			08/19/25 03:18	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		08/18/25 10:50	08/19/25 03:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/18/25 10:50	08/19/25 03:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/18/25 10:50	08/19/25 03:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130	08/18/25 10:50	08/19/25 03:18	1
o-Terphenyl	119		70 - 130	08/18/25 10:50	08/19/25 03:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.96	U	9.96	mg/Kg			08/19/25 00:22	1

Client Sample ID: CS 90

Lab Sample ID: 890-8635-42

Date Collected: 08/14/25 12:40

Matrix: Solid

Date Received: 08/15/25 16:45

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		08/18/25 16:00	08/18/25 17:33	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/18/25 16:00	08/18/25 17:33	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/18/25 16:00	08/18/25 17:33	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		08/18/25 16:00	08/18/25 17:33	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/18/25 16:00	08/18/25 17:33	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		08/18/25 16:00	08/18/25 17:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	08/18/25 16:00	08/18/25 17:33	1
1,4-Difluorobenzene (Surr)	88		70 - 130	08/18/25 16:00	08/18/25 17:33	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

Client Sample ID: CS 90

Lab Sample ID: 890-8635-42

Date Collected: 08/14/25 12:40

Matrix: Solid

Date Received: 08/15/25 16:45

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			08/18/25 17:33	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			08/19/25 03:33	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		08/18/25 10:50	08/19/25 03:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/18/25 10:50	08/19/25 03:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/18/25 10:50	08/19/25 03:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130			08/18/25 10:50	08/19/25 03:33	1
o-Terphenyl	124		70 - 130			08/18/25 10:50	08/19/25 03:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.1	U	10.1	mg/Kg			08/19/25 00:28	1

Client Sample ID: CS 88

Lab Sample ID: 890-8635-43

Date Collected: 08/14/25 12:35

Matrix: Solid

Date Received: 08/15/25 16:45

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		08/18/25 16:00	08/18/25 17:54	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/18/25 16:00	08/18/25 17:54	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/18/25 16:00	08/18/25 17:54	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		08/18/25 16:00	08/18/25 17:54	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/18/25 16:00	08/18/25 17:54	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		08/18/25 16:00	08/18/25 17:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130			08/18/25 16:00	08/18/25 17:54	1
1,4-Difluorobenzene (Surr)	89		70 - 130			08/18/25 16:00	08/18/25 17:54	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			08/18/25 17:54	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			08/19/25 03:47	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	<49.8	U	49.8	mg/Kg		08/18/25 10:50	08/19/25 03:47	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/18/25 10:50	08/19/25 03:47	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

Client Sample ID: CS 88

Lab Sample ID: 890-8635-43

Date Collected: 08/14/25 12:35

Matrix: Solid

Date Received: 08/15/25 16:45

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/18/25 10:50	08/19/25 03:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130			08/18/25 10:50	08/19/25 03:47	1
o-Terphenyl	123		70 - 130			08/18/25 10:50	08/19/25 03:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.98	U	9.98	mg/Kg			08/19/25 00:34	1

Client Sample ID: CS 97

Lab Sample ID: 890-8635-44

Date Collected: 08/14/25 13:00

Matrix: Solid

Date Received: 08/15/25 16:45

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		08/18/25 16:00	08/18/25 18:14	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/18/25 16:00	08/18/25 18:14	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/18/25 16:00	08/18/25 18:14	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/18/25 16:00	08/18/25 18:14	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/18/25 16:00	08/18/25 18:14	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/18/25 16:00	08/18/25 18:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130			08/18/25 16:00	08/18/25 18:14	1
1,4-Difluorobenzene (Surr)	87		70 - 130			08/18/25 16:00	08/18/25 18:14	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			08/18/25 18:14	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			08/19/25 09:45	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		08/18/25 10:52	08/19/25 09:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/18/25 10:52	08/19/25 09:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/18/25 10:52	08/19/25 09:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130			08/18/25 10:52	08/19/25 09:45	1
o-Terphenyl	117		70 - 130			08/18/25 10:52	08/19/25 09:45	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.5		9.98	mg/Kg			08/19/25 01:19	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

Client Sample ID: CS 19

Lab Sample ID: 890-8635-45

Date Collected: 08/14/25 16:10

Matrix: Solid

Date Received: 08/15/25 16:45

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		08/18/25 16:00	08/18/25 18:35	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/18/25 16:00	08/18/25 18:35	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/18/25 16:00	08/18/25 18:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/18/25 16:00	08/18/25 18:35	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/18/25 16:00	08/18/25 18:35	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/18/25 16:00	08/18/25 18:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	08/18/25 16:00	08/18/25 18:35	1
1,4-Difluorobenzene (Surr)	87		70 - 130	08/18/25 16:00	08/18/25 18:35	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			08/18/25 18:35	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	83.0		50.0	mg/Kg			08/19/25 10:29	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	<50.0	U	50.0	mg/Kg		08/18/25 10:52	08/19/25 10:29	1
Diesel Range Organics (Over C10-C28)	83.0		50.0	mg/Kg		08/18/25 10:52	08/19/25 10:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/18/25 10:52	08/19/25 10:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130	08/18/25 10:52	08/19/25 10:29	1
o-Terphenyl	121		70 - 130	08/18/25 10:52	08/19/25 10:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1510		50.5	mg/Kg			08/19/25 01:36	5

Client Sample ID: CS 18

Lab Sample ID: 890-8635-46

Date Collected: 08/14/25 16:08

Matrix: Solid

Date Received: 08/15/25 16:45

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		08/18/25 16:00	08/18/25 18:55	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/18/25 16:00	08/18/25 18:55	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/18/25 16:00	08/18/25 18:55	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		08/18/25 16:00	08/18/25 18:55	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/18/25 16:00	08/18/25 18:55	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		08/18/25 16:00	08/18/25 18:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	08/18/25 16:00	08/18/25 18:55	1
1,4-Difluorobenzene (Surr)	92		70 - 130	08/18/25 16:00	08/18/25 18:55	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

Client Sample ID: CS 18

Lab Sample ID: 890-8635-46

Date Collected: 08/14/25 16:08

Matrix: Solid

Date Received: 08/15/25 16:45

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			08/18/25 18:55	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			08/19/25 10:44	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		08/18/25 10:52	08/19/25 10:44	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/18/25 10:52	08/19/25 10:44	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/18/25 10:52	08/19/25 10:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130			08/18/25 10:52	08/19/25 10:44	1
o-Terphenyl	105		70 - 130			08/18/25 10:52	08/19/25 10:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	896		10.0	mg/Kg			08/19/25 01:42	1

Client Sample ID: CS 16

Lab Sample ID: 890-8635-47

Date Collected: 08/14/25 14:04

Matrix: Solid

Date Received: 08/15/25 16:45

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		08/18/25 16:00	08/18/25 19:15	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/18/25 16:00	08/18/25 19:15	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/18/25 16:00	08/18/25 19:15	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/18/25 16:00	08/18/25 19:15	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/18/25 16:00	08/18/25 19:15	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/18/25 16:00	08/18/25 19:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130			08/18/25 16:00	08/18/25 19:15	1
1,4-Difluorobenzene (Surr)	88		70 - 130			08/18/25 16:00	08/18/25 19:15	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			08/18/25 19:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	101		49.8	mg/Kg			08/19/25 10:59	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		08/18/25 10:52	08/19/25 10:59	1
Diesel Range Organics (Over C10-C28)	101		49.8	mg/Kg		08/18/25 10:52	08/19/25 10:59	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

Client Sample ID: CS 16

Lab Sample ID: 890-8635-47

Date Collected: 08/14/25 14:04

Matrix: Solid

Date Received: 08/15/25 16:45

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/18/25 10:52	08/19/25 10:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130			08/18/25 10:52	08/19/25 10:59	1
o-Terphenyl	106		70 - 130			08/18/25 10:52	08/19/25 10:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1750		49.9	mg/Kg			08/19/25 01:47	5

Client Sample ID: CS 14

Lab Sample ID: 890-8635-48

Date Collected: 08/14/25 16:01

Matrix: Solid

Date Received: 08/15/25 16:45

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		08/18/25 16:00	08/18/25 19:36	1
Toluene	<0.00198	U	0.00198	mg/Kg		08/18/25 16:00	08/18/25 19:36	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		08/18/25 16:00	08/18/25 19:36	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		08/18/25 16:00	08/18/25 19:36	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		08/18/25 16:00	08/18/25 19:36	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		08/18/25 16:00	08/18/25 19:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130			08/18/25 16:00	08/18/25 19:36	1
1,4-Difluorobenzene (Surr)	89		70 - 130			08/18/25 16:00	08/18/25 19:36	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			08/18/25 19:36	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	3470		49.9	mg/Kg			08/19/25 11:14	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/18/25 10:52	08/19/25 11:14	1
Diesel Range Organics (Over C10-C28)	3400		49.9	mg/Kg		08/18/25 10:52	08/19/25 11:14	1
Oil Range Organics (Over C28-C36)	69.3		49.9	mg/Kg		08/18/25 10:52	08/19/25 11:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130			08/18/25 10:52	08/19/25 11:14	1
o-Terphenyl	148	S1+	70 - 130			08/18/25 10:52	08/19/25 11:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1620		50.5	mg/Kg			08/19/25 01:53	5

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

Client Sample ID: CS 09

Lab Sample ID: 890-8635-49

Date Collected: 08/14/25 14:50

Matrix: Solid

Date Received: 08/15/25 16:45

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		08/18/25 16:00	08/18/25 19:56	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/18/25 16:00	08/18/25 19:56	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/18/25 16:00	08/18/25 19:56	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		08/18/25 16:00	08/18/25 19:56	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/18/25 16:00	08/18/25 19:56	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		08/18/25 16:00	08/18/25 19:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			08/18/25 16:00	08/18/25 19:56	1
1,4-Difluorobenzene (Surr)	89		70 - 130			08/18/25 16:00	08/18/25 19:56	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			08/18/25 19:56	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			08/19/25 11:29	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	<50.0	U	50.0	mg/Kg		08/18/25 10:52	08/19/25 11:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/18/25 10:52	08/19/25 11:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/18/25 10:52	08/19/25 11:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130			08/18/25 10:52	08/19/25 11:29	1
o-Terphenyl	106		70 - 130			08/18/25 10:52	08/19/25 11:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	587		9.90	mg/Kg			08/19/25 02:10	1

Client Sample ID: CS 10

Lab Sample ID: 890-8635-50

Date Collected: 08/14/25 14:48

Matrix: Solid

Date Received: 08/15/25 16:45

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		08/18/25 16:15	08/19/25 07:45	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/18/25 16:15	08/19/25 07:45	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/18/25 16:15	08/19/25 07:45	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/18/25 16:15	08/19/25 07:45	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/18/25 16:15	08/19/25 07:45	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/18/25 16:15	08/19/25 07:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130			08/18/25 16:15	08/19/25 07:45	1
1,4-Difluorobenzene (Surr)	115		70 - 130			08/18/25 16:15	08/19/25 07:45	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

Client Sample ID: CS 10

Lab Sample ID: 890-8635-50

Date Collected: 08/14/25 14:48

Matrix: Solid

Date Received: 08/15/25 16:45

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			08/19/25 07:45	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			08/19/25 11:43	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	<49.8	U	49.8	mg/Kg		08/18/25 10:52	08/19/25 11:43	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/18/25 10:52	08/19/25 11:43	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/18/25 10:52	08/19/25 11:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130			08/18/25 10:52	08/19/25 11:43	1
o-Terphenyl	107		70 - 130			08/18/25 10:52	08/19/25 11:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	129		10.0	mg/Kg			08/19/25 02:16	1

Client Sample ID: CS 20

Lab Sample ID: 890-8635-51

Date Collected: 08/14/25 14:12

Matrix: Solid

Date Received: 08/15/25 16:45

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		08/19/25 09:44	08/19/25 14:39	1
Toluene	<0.00201	U	0.00201	mg/Kg		08/19/25 09:44	08/19/25 14:39	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		08/19/25 09:44	08/19/25 14:39	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		08/19/25 09:44	08/19/25 14:39	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		08/19/25 09:44	08/19/25 14:39	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		08/19/25 09:44	08/19/25 14:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130			08/19/25 09:44	08/19/25 14:39	1
1,4-Difluorobenzene (Surr)	91		70 - 130			08/19/25 09:44	08/19/25 14:39	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			08/19/25 14:39	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	73.2		50.0	mg/Kg			08/19/25 11:58	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		08/18/25 10:52	08/19/25 11:58	1
Diesel Range Organics (Over C10-C28)	73.2		50.0	mg/Kg		08/18/25 10:52	08/19/25 11:58	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

Client Sample ID: CS 20

Lab Sample ID: 890-8635-51

Date Collected: 08/14/25 14:12

Matrix: Solid

Date Received: 08/15/25 16:45

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/18/25 10:52	08/19/25 11:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130			08/18/25 10:52	08/19/25 11:58	1
o-Terphenyl	120		70 - 130			08/18/25 10:52	08/19/25 11:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	366		10.1	mg/Kg			08/19/25 02:21	1

Client Sample ID: CS 13

Lab Sample ID: 890-8635-52

Date Collected: 08/14/25 14:58

Matrix: Solid

Date Received: 08/15/25 16:45

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		08/19/25 09:44	08/19/25 15:00	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/19/25 09:44	08/19/25 15:00	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/19/25 09:44	08/19/25 15:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/19/25 09:44	08/19/25 15:00	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/19/25 09:44	08/19/25 15:00	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/19/25 09:44	08/19/25 15:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130			08/19/25 09:44	08/19/25 15:00	1
1,4-Difluorobenzene (Surr)	90		70 - 130			08/19/25 09:44	08/19/25 15:00	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			08/19/25 15:00	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			08/19/25 12:13	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		08/18/25 10:52	08/19/25 12:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/18/25 10:52	08/19/25 12:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/18/25 10:52	08/19/25 12:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130			08/18/25 10:52	08/19/25 12:13	1
o-Terphenyl	105		70 - 130			08/18/25 10:52	08/19/25 12:13	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1180		9.90	mg/Kg			08/19/25 02:27	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

Client Sample ID: CS 17

Lab Sample ID: 890-8635-53

Date Collected: 08/14/25 14:06

Matrix: Solid

Date Received: 08/15/25 16:45

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		08/18/25 16:15	08/19/25 08:06	1
Toluene	<0.00202	U	0.00202	mg/Kg		08/18/25 16:15	08/19/25 08:06	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		08/18/25 16:15	08/19/25 08:06	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		08/18/25 16:15	08/19/25 08:06	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		08/18/25 16:15	08/19/25 08:06	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		08/18/25 16:15	08/19/25 08:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130	08/18/25 16:15	08/19/25 08:06	1
1,4-Difluorobenzene (Surr)	119		70 - 130	08/18/25 16:15	08/19/25 08:06	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			08/19/25 08:06	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			08/19/25 12:28	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		08/18/25 10:52	08/19/25 12:28	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/18/25 10:52	08/19/25 12:28	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/18/25 10:52	08/19/25 12:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	08/18/25 10:52	08/19/25 12:28	1
o-Terphenyl	122		70 - 130	08/18/25 10:52	08/19/25 12:28	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	771		10.1	mg/Kg			08/19/25 02:33	1

Client Sample ID: CS 15

Lab Sample ID: 890-8635-54

Date Collected: 08/14/25 16:02

Matrix: Solid

Date Received: 08/15/25 16:45

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		08/18/25 16:15	08/19/25 08:26	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/18/25 16:15	08/19/25 08:26	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/18/25 16:15	08/19/25 08:26	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		08/18/25 16:15	08/19/25 08:26	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/18/25 16:15	08/19/25 08:26	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		08/18/25 16:15	08/19/25 08:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130	08/18/25 16:15	08/19/25 08:26	1
1,4-Difluorobenzene (Surr)	121		70 - 130	08/18/25 16:15	08/19/25 08:26	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

Client Sample ID: CS 15

Lab Sample ID: 890-8635-54

Date Collected: 08/14/25 16:02

Matrix: Solid

Date Received: 08/15/25 16:45

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			08/19/25 08:26	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	80.5		49.9	mg/Kg			08/19/25 12:43	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	49.9	mg/Kg		08/18/25 10:52	08/19/25 12:43	1
Diesel Range Organics (Over C10-C28)	80.5		49.9	mg/Kg		08/18/25 10:52	08/19/25 12:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/18/25 10:52	08/19/25 12:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130			08/18/25 10:52	08/19/25 12:43	1
o-Terphenyl	122		70 - 130			08/18/25 10:52	08/19/25 12:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1500		10.1	mg/Kg			08/19/25 02:38	1

Client Sample ID: CS 12

Lab Sample ID: 890-8635-55

Date Collected: 08/14/25 14:56

Matrix: Solid

Date Received: 08/15/25 16:45

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		08/18/25 16:15	08/19/25 12:40	1
Toluene	<0.00202	U	0.00202	mg/Kg		08/18/25 16:15	08/19/25 12:40	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		08/18/25 16:15	08/19/25 12:40	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		08/18/25 16:15	08/19/25 12:40	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		08/18/25 16:15	08/19/25 12:40	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		08/18/25 16:15	08/19/25 12:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130			08/18/25 16:15	08/19/25 12:40	1
1,4-Difluorobenzene (Surr)	107		70 - 130			08/18/25 16:15	08/19/25 12:40	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			08/19/25 12:40	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			08/19/25 13:10	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		08/18/25 10:52	08/19/25 13:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/18/25 10:52	08/19/25 13:10	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

Client Sample ID: CS 12

Lab Sample ID: 890-8635-55

Date Collected: 08/14/25 14:56

Matrix: Solid

Date Received: 08/15/25 16:45

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/18/25 10:52	08/19/25 13:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130			08/18/25 10:52	08/19/25 13:10	1
o-Terphenyl	105		70 - 130			08/18/25 10:52	08/19/25 13:10	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1640		50.4	mg/Kg			08/19/25 02:55	5

Client Sample ID: CS 11

Lab Sample ID: 890-8635-56

Date Collected: 08/14/25 14:54

Matrix: Solid

Date Received: 08/15/25 16:45

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		08/18/25 16:15	08/19/25 13:00	1
Toluene	<0.00198	U	0.00198	mg/Kg		08/18/25 16:15	08/19/25 13:00	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		08/18/25 16:15	08/19/25 13:00	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		08/18/25 16:15	08/19/25 13:00	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		08/18/25 16:15	08/19/25 13:00	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		08/18/25 16:15	08/19/25 13:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130			08/18/25 16:15	08/19/25 13:00	1
1,4-Difluorobenzene (Surr)	111		70 - 130			08/18/25 16:15	08/19/25 13:00	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			08/19/25 13:00	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			08/19/25 13:29	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	<49.8	U	49.8	mg/Kg		08/18/25 10:52	08/19/25 13:29	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/18/25 10:52	08/19/25 13:29	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/18/25 10:52	08/19/25 13:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130			08/18/25 10:52	08/19/25 13:29	1
o-Terphenyl	120		70 - 130			08/18/25 10:52	08/19/25 13:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1270		9.96	mg/Kg			08/19/25 03:01	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

Client Sample ID: CS 102

Lab Sample ID: 890-8635-57

Date Collected: 08/14/25 14:32

Matrix: Solid

Date Received: 08/15/25 16:45

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		08/18/25 16:15	08/19/25 13:20	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/18/25 16:15	08/19/25 13:20	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/18/25 16:15	08/19/25 13:20	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		08/18/25 16:15	08/19/25 13:20	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/18/25 16:15	08/19/25 13:20	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		08/18/25 16:15	08/19/25 13:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130	08/18/25 16:15	08/19/25 13:20	1
1,4-Difluorobenzene (Surr)	116		70 - 130	08/18/25 16:15	08/19/25 13:20	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			08/19/25 13:20	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			08/19/25 13:44	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		08/18/25 10:52	08/19/25 13:44	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/18/25 10:52	08/19/25 13:44	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/18/25 10:52	08/19/25 13:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130	08/18/25 10:52	08/19/25 13:44	1
o-Terphenyl	123		70 - 130	08/18/25 10:52	08/19/25 13:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.1	U	10.1	mg/Kg			08/19/25 03:18	1

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Surrogate Summary

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
880-61562-A-1-F MS	Matrix Spike	124	92
880-61562-A-1-G MSD	Matrix Spike Duplicate	115	94
890-8635-1	CS 92	117	93
890-8635-1 MS	CS 92	113	96
890-8635-1 MSD	CS 92	116	94
890-8635-2	CS 93	117	93
890-8635-3	CS 69	114	90
890-8635-4	CS 68	114	93
890-8635-5	CS 67	116	93
890-8635-6	CS 66	116	91
890-8635-7	CS 65	126	91
890-8635-8	CS 64	114	92
890-8635-9	CS 58	115	92
890-8635-10	CS 59	115	91
890-8635-11	CS 99	125	94
890-8635-12	CS 101	120	91
890-8635-13	CS 98	121	92
890-8635-14	CS 100	114	90
890-8635-15	CS 95	116	90
890-8635-16	CS 94	113	91
890-8635-17	CS 74	117	91
890-8635-18	CS 85	117	89
890-8635-19	CS 86	117	92
890-8635-20	CS 87	117	92
890-8635-21	CS 60	109	89
890-8635-21 MS	CS 60	112	95
890-8635-21 MSD	CS 60	123	88
890-8635-22	CS 61	106	91
890-8635-23	CS 62	125	86
890-8635-24	CS 63	110	92
890-8635-25	CS 70	108	90
890-8635-26	CS 73	111	91
890-8635-27	CS 77	111	89
890-8635-28	CS 80	111	87
890-8635-29	CS 72	114	89
890-8635-30	CS 84	105	89
890-8635-31	CS 78	127	95
890-8635-31 MSD	CS 78	118	95
890-8635-32	CS 71	112	89
890-8635-33	CS 75	117	92
890-8635-34	CS 79	117	91
890-8635-35	CS 76	123	90
890-8635-36	CS 83	124	91
890-8635-37	CS 96	117	92
890-8635-38	CS 81	123	90
890-8635-39	CS 89	114	91
890-8635-40	CS 82	123	94
890-8635-41	CS 91	109	87
890-8635-42	CS 90	109	88

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Surrogate Summary

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-8635-43	CS 88	112	89
890-8635-44	CS 97	124	87
890-8635-45	CS 19	121	87
890-8635-46	CS 18	108	92
890-8635-47	CS 16	117	88
890-8635-48	CS 14	111	89
890-8635-49	CS 09	108	89
890-8635-50	CS 10	116	115
890-8635-50 MS	CS 10	104	102
890-8635-50 MSD	CS 10	114	99
890-8635-51	CS 20	119	91
890-8635-52	CS 13	120	90
890-8635-53	CS 17	131 S1+	119
890-8635-54	CS 15	128	121
890-8635-55	CS 12	106	107
890-8635-56	CS 11	118	111
890-8635-57	CS 102	130	116
LCS 880-116868/1-A	Lab Control Sample	110	93
LCS 880-116981/1-A	Lab Control Sample	114	97
LCS 880-116982/1-A	Lab Control Sample	110	90
LCS 880-116997/1-A	Lab Control Sample	116	96
LCS 880-116998/1-A	Lab Control Sample	105	105
LCSD 880-116868/2-A	Lab Control Sample Dup	119	90
LCSD 880-116981/2-A	Lab Control Sample Dup	112	96
LCSD 880-116982/2-A	Lab Control Sample Dup	109	97
LCSD 880-116997/2-A	Lab Control Sample Dup	110	95
LCSD 880-116998/2-A	Lab Control Sample Dup	109	98
MB 880-116868/5-A	Method Blank	106	83
MB 880-116871/8	Method Blank	109	87
MB 880-116899/5-A	Method Blank	155 S1+	93
MB 880-116976/5-A	Method Blank	106	86
MB 880-116981/5-A	Method Blank	112	86
MB 880-116982/5-A	Method Blank	105	84
MB 880-116997/5-A	Method Blank	115	86
MB 880-116998/5-A	Method Blank	166 S1+	95

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
890-8635-31 MS	CS 78		

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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Surrogate Summary

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-8634-A-21-E MS	Matrix Spike	92	94
890-8634-A-21-F MSD	Matrix Spike Duplicate	92	90
890-8635-1	CS 92	95	88
890-8635-2	CS 93	108	98
890-8635-3	CS 69	97	91
890-8635-4	CS 68	107	119
890-8635-4 MS	CS 68	111	111
890-8635-4 MSD	CS 68	113	113
890-8635-5	CS 67	106	117
890-8635-6	CS 66	107	118
890-8635-7	CS 65	90	97
890-8635-8	CS 64	104	115
890-8635-9	CS 58	89	95
890-8635-10	CS 59	94	104
890-8635-11	CS 99	106	120
890-8635-12	CS 101	113	126
890-8635-13	CS 98	94	102
890-8635-14	CS 100	93	99
890-8635-15	CS 95	103	113
890-8635-16	CS 94	93	97
890-8635-17	CS 74	104	114
890-8635-18	CS 85	101	110
890-8635-19	CS 86	102	112
890-8635-20	CS 87	96	108
890-8635-21	CS 60	101	112
890-8635-22	CS 61	92	100
890-8635-23	CS 62	110	122
890-8635-24	CS 63	122	129
890-8635-24 MS	CS 63	128	123
890-8635-24 MSD	CS 63	135 S1+	125
890-8635-25	CS 70	114	117
890-8635-26	CS 73	118	122
890-8635-27	CS 77	116	115
890-8635-28	CS 80	121	123
890-8635-29	CS 72	116	117
890-8635-30	CS 84	121	120
890-8635-31	CS 78	117	115
890-8635-32	CS 71	123	124
890-8635-33	CS 75	121	125
890-8635-34	CS 79	112	118
890-8635-35	CS 76	116	116
890-8635-36	CS 83	110	108
890-8635-37	CS 96	122	125
890-8635-38	CS 81	119	120
890-8635-39	CS 89	119	123
890-8635-40	CS 82	122	125
890-8635-41	CS 91	115	119
890-8635-42	CS 90	121	124
890-8635-43	CS 88	122	123
890-8635-44	CS 97	106	117

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Surrogate Summary

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-8635-44 MS	CS 97	113	114
890-8635-44 MSD	CS 97	114	113
890-8635-45	CS 19	109	121
890-8635-46	CS 18	97	105
890-8635-47	CS 16	97	106
890-8635-48	CS 14	106	148 S1+
890-8635-49	CS 09	98	106
890-8635-50	CS 10	99	107
890-8635-51	CS 20	108	120
890-8635-52	CS 13	97	105
890-8635-53	CS 17	108	122
890-8635-54	CS 15	109	122
890-8635-55	CS 12	98	105
890-8635-56	CS 11	108	120
890-8635-57	CS 102	111	123
LCS 880-116908/2-A	Lab Control Sample	83	83
LCS 880-116909/2-A	Lab Control Sample	117	118
LCS 880-116911/2-A	Lab Control Sample	137 S1+	130
LCS 880-116912/2-A	Lab Control Sample	125	129
LCSD 880-116908/3-A	Lab Control Sample Dup	72	75
LCSD 880-116909/3-A	Lab Control Sample Dup	105	104
LCSD 880-116911/3-A	Lab Control Sample Dup	129	123
LCSD 880-116912/3-A	Lab Control Sample Dup	115	118
MB 880-116908/1-A	Method Blank	81	73
MB 880-116909/1-A	Method Blank	83	92
MB 880-116911/1-A	Method Blank	107	109
MB 880-116912/1-A	Method Blank	94	107

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-116868/5-A

Matrix: Solid

Analysis Batch: 116870

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 116868

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/18/25 07:54	08/18/25 11:16	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/18/25 07:54	08/18/25 11:16	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/18/25 07:54	08/18/25 11:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/18/25 07:54	08/18/25 11:16	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/18/25 07:54	08/18/25 11:16	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/18/25 07:54	08/18/25 11:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	08/18/25 07:54	08/18/25 11:16	1
1,4-Difluorobenzene (Surr)	83		70 - 130	08/18/25 07:54	08/18/25 11:16	1

Lab Sample ID: LCS 880-116868/1-A

Matrix: Solid

Analysis Batch: 116870

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 116868

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1082		mg/Kg		108	70 - 130
Toluene	0.100	0.1043		mg/Kg		104	70 - 130
Ethylbenzene	0.100	0.1187		mg/Kg		119	70 - 130
m-Xylene & p-Xylene	0.200	0.2346		mg/Kg		117	70 - 130
o-Xylene	0.100	0.1154		mg/Kg		115	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: LCSD 880-116868/2-A

Matrix: Solid

Analysis Batch: 116870

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 116868

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1062		mg/Kg		106	70 - 130	2	35
Toluene	0.100	0.1018		mg/Kg		102	70 - 130	2	35
Ethylbenzene	0.100	0.1157		mg/Kg		116	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2281		mg/Kg		114	70 - 130	3	35
o-Xylene	0.100	0.1125		mg/Kg		112	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

Lab Sample ID: 880-61562-A-1-F MS

Matrix: Solid

Analysis Batch: 116870

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 116868

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.1012		mg/Kg		101	70 - 130
Toluene	<0.00200	U	0.100	0.09287		mg/Kg		93	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

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

Lab Sample ID: 880-61562-A-1-F MS

Matrix: Solid

Analysis Batch: 116870

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 116868

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.1035		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2022		mg/Kg		101	70 - 130
o-Xylene	<0.00200	U	0.100	0.1012		mg/Kg		101	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	124		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: 880-61562-A-1-G MSD

Matrix: Solid

Analysis Batch: 116870

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 116868

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.08015		mg/Kg		80	70 - 130	23	35
Toluene	<0.00200	U	0.100	0.07371		mg/Kg		74	70 - 130	23	35
Ethylbenzene	<0.00200	U	0.100	0.08411		mg/Kg		84	70 - 130	21	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1643		mg/Kg		82	70 - 130	21	35
o-Xylene	<0.00200	U	0.100	0.08391		mg/Kg		84	70 - 130	19	35

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

Lab Sample ID: MB 880-116871/8

Matrix: Solid

Analysis Batch: 116871

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg			08/18/25 11:25	1
Toluene	<0.00200	U	0.00200	mg/Kg			08/18/25 11:25	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg			08/18/25 11:25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg			08/18/25 11:25	1
o-Xylene	<0.00200	U	0.00200	mg/Kg			08/18/25 11:25	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg			08/18/25 11:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130		08/18/25 11:25	1
1,4-Difluorobenzene (Surr)	87		70 - 130		08/18/25 11:25	1

Lab Sample ID: MB 880-116899/5-A

Matrix: Solid

Analysis Batch: 116996

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 116899

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/18/25 10:15	08/18/25 19:40	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/18/25 10:15	08/18/25 19:40	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/18/25 10:15	08/18/25 19:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/18/25 10:15	08/18/25 19:40	1

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QC Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

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

Lab Sample ID: MB 880-116899/5-A

Matrix: Solid

Analysis Batch: 116996

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 116899

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/18/25 10:15	08/18/25 19:40	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/18/25 10:15	08/18/25 19:40	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	155	S1+	70 - 130			08/18/25 10:15	08/18/25 19:40	1
1,4-Difluorobenzene (Surr)	93		70 - 130			08/18/25 10:15	08/18/25 19:40	1

Lab Sample ID: MB 880-116976/5-A

Matrix: Solid

Analysis Batch: 116870

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 116976

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/18/25 15:10	08/18/25 22:50	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/18/25 15:10	08/18/25 22:50	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/18/25 15:10	08/18/25 22:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/18/25 15:10	08/18/25 22:50	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/18/25 15:10	08/18/25 22:50	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/18/25 15:10	08/18/25 22:50	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130			08/18/25 15:10	08/18/25 22:50	1
1,4-Difluorobenzene (Surr)	86		70 - 130			08/18/25 15:10	08/18/25 22:50	1

Lab Sample ID: MB 880-116981/5-A

Matrix: Solid

Analysis Batch: 116871

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 116981

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/18/25 15:21	08/18/25 22:23	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/18/25 15:21	08/18/25 22:23	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/18/25 15:21	08/18/25 22:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/18/25 15:21	08/18/25 22:23	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/18/25 15:21	08/18/25 22:23	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/18/25 15:21	08/18/25 22:23	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130			08/18/25 15:21	08/18/25 22:23	1
1,4-Difluorobenzene (Surr)	86		70 - 130			08/18/25 15:21	08/18/25 22:23	1

Lab Sample ID: LCS 880-116981/1-A

Matrix: Solid

Analysis Batch: 116871

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 116981

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09543		mg/Kg		95	70 - 130
Toluene	0.100	0.09238		mg/Kg		92	70 - 130
Ethylbenzene	0.100	0.09666		mg/Kg		97	70 - 130
m-Xylene & p-Xylene	0.200	0.1940		mg/Kg		97	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

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

Lab Sample ID: LCS 880-116981/1-A

Matrix: Solid

Analysis Batch: 116871

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 116981

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.07987		mg/Kg		80	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: LCSD 880-116981/2-A

Matrix: Solid

Analysis Batch: 116871

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 116981

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1040		mg/Kg		104	70 - 130	9	35
Toluene	0.100	0.1003		mg/Kg		100	70 - 130	8	35
Ethylbenzene	0.100	0.1046		mg/Kg		105	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.2085		mg/Kg		104	70 - 130	7	35
o-Xylene	0.100	0.08559		mg/Kg		86	70 - 130	7	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 890-8635-1 MS

Matrix: Solid

Analysis Batch: 116871

Client Sample ID: CS 92

Prep Type: Total/NA

Prep Batch: 116981

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.09643		mg/Kg		96	70 - 130
Toluene	<0.00200	U	0.100	0.09244		mg/Kg		92	70 - 130
Ethylbenzene	<0.00200	U	0.100	0.09505		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1887		mg/Kg		94	70 - 130
o-Xylene	<0.00200	U	0.100	0.07714		mg/Kg		77	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 890-8635-1 MSD

Matrix: Solid

Analysis Batch: 116871

Client Sample ID: CS 92

Prep Type: Total/NA

Prep Batch: 116981

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.09482		mg/Kg		95	70 - 130	2	35
Toluene	<0.00200	U	0.100	0.09343		mg/Kg		93	70 - 130	1	35
Ethylbenzene	<0.00200	U	0.100	0.09654		mg/Kg		97	70 - 130	2	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1941		mg/Kg		97	70 - 130	3	35
o-Xylene	<0.00200	U	0.100	0.07929		mg/Kg		79	70 - 130	3	35

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QC Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

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

Lab Sample ID: 890-8635-1 MSD

Matrix: Solid

Analysis Batch: 116871

Client Sample ID: CS 92

Prep Type: Total/NA

Prep Batch: 116981

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: MB 880-116982/5-A

Matrix: Solid

Analysis Batch: 116870

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 116982

	MB	MB							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/18/25 15:23	08/19/25 09:48	1	
Toluene	<0.00200	U	0.00200	mg/Kg		08/18/25 15:23	08/19/25 09:48	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/18/25 15:23	08/19/25 09:48	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/18/25 15:23	08/19/25 09:48	1	
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/18/25 15:23	08/19/25 09:48	1	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/18/25 15:23	08/19/25 09:48	1	
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil	Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			08/18/25 15:23	08/19/25 09:48	1	
1,4-Difluorobenzene (Surr)	84		70 - 130			08/18/25 15:23	08/19/25 09:48	1	

Lab Sample ID: LCS 880-116982/1-A

Matrix: Solid

Analysis Batch: 116870

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 116982

	Spike	LCS	LCS					%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	0.100	0.1021		mg/Kg		102	70 - 130		
Toluene	0.100	0.09779		mg/Kg		98	70 - 130		
Ethylbenzene	0.100	0.1108		mg/Kg		111	70 - 130		
m-Xylene & p-Xylene	0.200	0.2152		mg/Kg		108	70 - 130		
o-Xylene	0.100	0.1090		mg/Kg		109	70 - 130		
	LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)	110		70 - 130						
1,4-Difluorobenzene (Surr)	90		70 - 130						

Lab Sample ID: LCSD 880-116982/2-A

Matrix: Solid

Analysis Batch: 116870

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 116982

	Spike	LCSD	LCSD					%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1077		mg/Kg		108	70 - 130	5	35	
Toluene	0.100	0.09845		mg/Kg		98	70 - 130	1	35	
Ethylbenzene	0.100	0.1102		mg/Kg		110	70 - 130	1	35	
m-Xylene & p-Xylene	0.200	0.2109		mg/Kg		105	70 - 130	2	35	
o-Xylene	0.100	0.1071		mg/Kg		107	70 - 130	2	35	
	LCSD	LCSD								
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	109		70 - 130							

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QC Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

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

Lab Sample ID: LCSD 880-116982/2-A

Matrix: Solid

Analysis Batch: 116870

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 116982

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

Lab Sample ID: 890-8635-21 MS

Matrix: Solid

Analysis Batch: 116870

Client Sample ID: CS 60

Prep Type: Total/NA

Prep Batch: 116982

	Sample	Sample	Spike	MS	MS			%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	<0.00200	U	0.100	0.09729		mg/Kg		97	70 - 130
Toluene	<0.00200	U	0.100	0.09143		mg/Kg		91	70 - 130
Ethylbenzene	<0.00200	U	0.100	0.1018		mg/Kg		102	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1971		mg/Kg		99	70 - 130
o-Xylene	<0.00200	U	0.100	0.09859		mg/Kg		99	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 890-8635-21 MSD

Matrix: Solid

Analysis Batch: 116870

Client Sample ID: CS 60

Prep Type: Total/NA

Prep Batch: 116982

	Sample	Sample	Spike	MSD	MSD			%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.100	0.09373		mg/Kg		94	70 - 130	4	35
Toluene	<0.00200	U	0.100	0.08861		mg/Kg		89	70 - 130	3	35
Ethylbenzene	<0.00200	U	0.100	0.09705		mg/Kg		97	70 - 130	5	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1880		mg/Kg		94	70 - 130	5	35
o-Xylene	<0.00200	U	0.100	0.09417		mg/Kg		94	70 - 130	5	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	123		70 - 130
1,4-Difluorobenzene (Surr)	88		70 - 130

Lab Sample ID: MB 880-116997/5-A

Matrix: Solid

Analysis Batch: 116871

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 116997

	MB	MB							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200	mg/Kg		08/18/25 16:10	08/19/25 09:19	1	
Toluene	<0.00200	U	0.00200	mg/Kg		08/18/25 16:10	08/19/25 09:19	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/18/25 16:10	08/19/25 09:19	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/18/25 16:10	08/19/25 09:19	1	
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/18/25 16:10	08/19/25 09:19	1	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/18/25 16:10	08/19/25 09:19	1	

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	115		70 - 130	08/18/25 16:10	08/19/25 09:19	1			
1,4-Difluorobenzene (Surr)	86		70 - 130	08/18/25 16:10	08/19/25 09:19	1			

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QC Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

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

Lab Sample ID: LCS 880-116997/1-A

Matrix: Solid

Analysis Batch: 116871

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 116997

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1004		mg/Kg		100	70 - 130
Toluene	0.100	0.09643		mg/Kg		96	70 - 130
Ethylbenzene	0.100	0.09955		mg/Kg		100	70 - 130
m-Xylene & p-Xylene	0.200	0.1972		mg/Kg		99	70 - 130
o-Xylene	0.100	0.08209		mg/Kg		82	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: LCSD 880-116997/2-A

Matrix: Solid

Analysis Batch: 116871

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 116997

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09966		mg/Kg		100	70 - 130	1	35
Toluene	0.100	0.09548		mg/Kg		95	70 - 130	1	35
Ethylbenzene	0.100	0.09783		mg/Kg		98	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1925		mg/Kg		96	70 - 130	2	35
o-Xylene	0.100	0.08037		mg/Kg		80	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 890-8635-31 MS

Matrix: Solid

Analysis Batch: 116871

Client Sample ID: CS 78

Prep Type: Total/NA

Prep Batch: 116997

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00202	U	0.100	0.09169		mg/Kg			
Toluene	<0.00202	U	0.100	0.08739		mg/Kg			
Ethylbenzene	<0.00202	U	0.100	0.09143		mg/Kg			
m-Xylene & p-Xylene	<0.00403	U	0.200	0.1813		mg/Kg			
o-Xylene	<0.00202	U	0.100	0.07481		mg/Kg			

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)			
1,4-Difluorobenzene (Surr)			

Lab Sample ID: 890-8635-31 MSD

Matrix: Solid

Analysis Batch: 116871

Client Sample ID: CS 78

Prep Type: Total/NA

Prep Batch: 116997

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.100	0.08903		mg/Kg		89	70 - 130	3	35
Toluene	<0.00202	U	0.100	0.08431		mg/Kg		84	70 - 130	4	35
Ethylbenzene	<0.00202	U	0.100	0.08668		mg/Kg		87	70 - 130	5	35

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QC Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

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

Lab Sample ID: 890-8635-31 MSD

Matrix: Solid

Analysis Batch: 116871

Client Sample ID: CS 78

Prep Type: Total/NA

Prep Batch: 116997

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene	<0.00403	U	0.200	0.1701		mg/Kg		85	70 - 130	6	35
o-Xylene	<0.00202	U	0.100	0.06992		mg/Kg		70	70 - 130	7	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	118		70 - 130								
1,4-Difluorobenzene (Surr)	95		70 - 130								

Lab Sample ID: MB 880-116998/5-A

Matrix: Solid

Analysis Batch: 116996

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 116998

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/18/25 16:15	08/19/25 07:16	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/18/25 16:15	08/19/25 07:16	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/18/25 16:15	08/19/25 07:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/18/25 16:15	08/19/25 07:16	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/18/25 16:15	08/19/25 07:16	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/18/25 16:15	08/19/25 07:16	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	166	S1+	70 - 130			08/18/25 16:15	08/19/25 07:16	1
1,4-Difluorobenzene (Surr)	95		70 - 130			08/18/25 16:15	08/19/25 07:16	1

Lab Sample ID: LCS 880-116998/1-A

Matrix: Solid

Analysis Batch: 116996

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 116998

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Benzene	0.100	0.1071		mg/Kg		107	70 - 130	
Toluene	0.100	0.08918		mg/Kg		89	70 - 130	
Ethylbenzene	0.100	0.09819		mg/Kg		98	70 - 130	
m-Xylene & p-Xylene	0.200	0.1918		mg/Kg		96	70 - 130	
o-Xylene	0.100	0.1050		mg/Kg		105	70 - 130	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
4-Bromofluorobenzene (Surr)	105		70 - 130					
1,4-Difluorobenzene (Surr)	105		70 - 130					

Lab Sample ID: LCSD 880-116998/2-A

Matrix: Solid

Analysis Batch: 116996

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 116998

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1003		mg/Kg		100	70 - 130	7	35
Toluene	0.100	0.08966		mg/Kg		90	70 - 130	1	35
Ethylbenzene	0.100	0.08006		mg/Kg		80	70 - 130	20	35
m-Xylene & p-Xylene	0.200	0.1640		mg/Kg		82	70 - 130	16	35
o-Xylene	0.100	0.1099		mg/Kg		110	70 - 130	5	35

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QC Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

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

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 890-8635-50 MS

Matrix: Solid

Analysis Batch: 116996

Client Sample ID: CS 10

Prep Type: Total/NA

Prep Batch: 116998

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.100	0.1001		mg/Kg		100	70 - 130
Toluene	<0.00199	U	0.100	0.08387		mg/Kg		84	70 - 130
Ethylbenzene	<0.00199	U	0.100	0.08595		mg/Kg		86	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1804		mg/Kg		90	70 - 130
o-Xylene	<0.00199	U	0.100	0.1020		mg/Kg		102	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 890-8635-50 MSD

Matrix: Solid

Analysis Batch: 116996

Client Sample ID: CS 10

Prep Type: Total/NA

Prep Batch: 116998

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00199	U	0.100	0.09312		mg/Kg		93	70 - 130	7	35
Toluene	<0.00199	U	0.100	0.07765		mg/Kg		78	70 - 130	8	35
Ethylbenzene	<0.00199	U	0.100	0.08713		mg/Kg		87	70 - 130	1	35
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1820		mg/Kg		91	70 - 130	1	35
o-Xylene	<0.00199	U	0.100	0.1018		mg/Kg		102	70 - 130	0	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

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

Lab Sample ID: MB 880-116908/1-A

Matrix: Solid

Analysis Batch: 116930

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 116908

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		08/18/25 10:37	08/18/25 21:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/18/25 10:37	08/18/25 21:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/18/25 10:37	08/18/25 21:31	1

	MB	MB						
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
1-Chlorooctane	81		70 - 130	08/18/25 10:37	08/18/25 21:31	1		
o-Terphenyl	73		70 - 130	08/18/25 10:37	08/18/25 21:31	1		

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QC Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

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

Lab Sample ID: LCS 880-116908/2-A

Matrix: Solid

Analysis Batch: 116930

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 116908

Analyte			Spike	LCS	LCS	Unit	D	%Rec	%Rec		
			Added	Result	Qualifier			Limits			
Gasoline Range Organics (GRO)-C6-C10			1000	951.8		mg/Kg		95		70 - 130	
Diesel Range Organics (Over C10-C28)			1000	888.9		mg/Kg		89		70 - 130	
		LCS	LCS								
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	83		70 - 130								
o-Terphenyl	83		70 - 130								

Lab Sample ID: LCSD 880-116908/3-A

Matrix: Solid

Analysis Batch: 116930

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 116908

Analyte			Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	RPD
			Added	Result	Qualifier			Limits	Limit		
Gasoline Range Organics (GRO)-C6-C10			1000	838.8		mg/Kg		84	70 - 130	13	20
Diesel Range Organics (Over C10-C28)			1000	797.4		mg/Kg		80	70 - 130	11	20
Surrogate	LCSD	LCSD	Limits								
	%Recovery	Qualifier									
1-Chlorooctane	72		70 - 130								
o-Terphenyl	75		70 - 130								

Lab Sample ID: 890-8634-A-21-E MS

Matrix: Solid

Analysis Batch: 116930

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 116908

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec		
	Result	Qualifier	Added	Result	Qualifier			Limits			
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	863.2		mg/Kg		86	70 - 130		
Diesel Range Organics (Over C10-C28)	231	F1	999	842.5	F1	mg/Kg		61	70 - 130		
Surrogate	MS	MS	Limits								
	%Recovery	Qualifier									
1-Chlorooctane	92		70 - 130								
o-Terphenyl	94		70 - 130								

Lab Sample ID: 890-8634-A-21-F MSD

Matrix: Solid

Analysis Batch: 116930

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 116908

	Sample	Sample	Spike	MSD	MSD			%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	903.9		mg/Kg		90	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	231	F1	999	833.4	F1	mg/Kg		60	70 - 130	1	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	92		70 - 130								

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QC Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

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

Lab Sample ID: 890-8634-A-21-F MSD

Matrix: Solid

Analysis Batch: 116930

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 116908

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl	90		70 - 130

Lab Sample ID: MB 880-116909/1-A

Matrix: Solid

Analysis Batch: 116959

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 116909

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/18/25 10:38	08/18/25 21:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/18/25 10:38	08/18/25 21:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/18/25 10:38	08/18/25 21:36	1
Surrogate	MB	MB	Limits			Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
1-Chlorooctane	83		70 - 130			08/18/25 10:38	08/18/25 21:36	1
<i>o</i> -Terphenyl	92		70 - 130			08/18/25 10:38	08/18/25 21:36	1

Lab Sample ID: LCS 880-116909/2-A

Matrix: Solid

Analysis Batch: 116959

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 116909

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1183		mg/Kg		118	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1007		mg/Kg		101	70 - 130
Surrogate	LCS	LCS	Limits				
	%Recovery	Qualifier					
1-Chlorooctane	117		70 - 130				
<i>o</i> -Terphenyl	118		70 - 130				

Lab Sample ID: LCSD 880-116909/3-A

Matrix: Solid

Analysis Batch: 116959

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 116909

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1049		mg/Kg		105	70 - 130	12	20
Diesel Range Organics (Over C10-C28)	1000	861.4		mg/Kg		86	70 - 130	16	20
Surrogate	LCSD	LCSD	Limits						
	%Recovery	Qualifier							
1-Chlorooctane	105		70 - 130						
<i>o</i> -Terphenyl	104		70 - 130						

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QC Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

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

Lab Sample ID: 890-8635-4 MS

Matrix: Solid

Analysis Batch: 116959

Client Sample ID: CS 68

Prep Type: Total/NA

Prep Batch: 116909

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1053		mg/Kg		105	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	999	993.1		mg/Kg		97	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	111		70 - 130						
o-Terphenyl	111		70 - 130						

Lab Sample ID: 890-8635-4 MSD

Matrix: Solid

Analysis Batch: 116959

Client Sample ID: CS 68

Prep Type: Total/NA

Prep Batch: 116909

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1045		mg/Kg		105	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1037		mg/Kg		101	70 - 130	4	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	113		70 - 130								
o-Terphenyl	113		70 - 130								

Lab Sample ID: MB 880-116911/1-A

Matrix: Solid

Analysis Batch: 116921

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 116911

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		08/18/25 10:38	08/18/25 21:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/18/25 10:38	08/18/25 21:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/18/25 10:38	08/18/25 21:36	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130			08/18/25 10:38	08/18/25 21:36	1
o-Terphenyl	109		70 - 130			08/18/25 10:38	08/18/25 21:36	1

Lab Sample ID: LCS 880-116911/2-A

Matrix: Solid

Analysis Batch: 116921

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 116911

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1216		mg/Kg		122	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1178		mg/Kg		118	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

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

Lab Sample ID: LCS 880-116911/2-A

Matrix: Solid

Analysis Batch: 116921

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 116911

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	137	S1+	70 - 130
o-Terphenyl	130		70 - 130

Lab Sample ID: LCSD 880-116911/3-A

Matrix: Solid

Analysis Batch: 116921

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 116911

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1153		mg/Kg		115	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	1094		mg/Kg		109	70 - 130	7	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	129		70 - 130
o-Terphenyl	123		70 - 130

Lab Sample ID: 890-8635-24 MS

Matrix: Solid

Analysis Batch: 116921

Client Sample ID: CS 63

Prep Type: Total/NA

Prep Batch: 116911

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	948.9		mg/Kg		95	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1129		mg/Kg		110	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	128		70 - 130
o-Terphenyl	123		70 - 130

Lab Sample ID: 890-8635-24 MSD

Matrix: Solid

Analysis Batch: 116921

Client Sample ID: CS 63

Prep Type: Total/NA

Prep Batch: 116911

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	963.9		mg/Kg		96	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1142		mg/Kg		112	70 - 130	1	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	135	S1+	70 - 130
o-Terphenyl	125		70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

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

Lab Sample ID: MB 880-116912/1-A

Matrix: Solid

Analysis Batch: 117019

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 116912

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		08/18/25 10:38	08/19/25 04:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/18/25 10:38	08/19/25 04:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/18/25 10:38	08/19/25 04:47	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130			08/18/25 10:38	08/19/25 04:47	1
o-Terphenyl	107		70 - 130			08/18/25 10:38	08/19/25 04:47	1

Lab Sample ID: LCS 880-116912/2-A

Matrix: Solid

Analysis Batch: 117019

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 116912

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1252		mg/Kg		125	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1103		mg/Kg		110	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	125		70 - 130				
o-Terphenyl	129		70 - 130				

Lab Sample ID: LCSD 880-116912/3-A

Matrix: Solid

Analysis Batch: 117019

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 116912

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1151		mg/Kg		115	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	1000	988.0		mg/Kg		99	70 - 130	11	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	115		70 - 130						
o-Terphenyl	118		70 - 130						

Lab Sample ID: 890-8635-44 MS

Matrix: Solid

Analysis Batch: 117019

Client Sample ID: CS 97

Prep Type: Total/NA

Prep Batch: 116912

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	984.1		mg/Kg		99	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	998	991.5		mg/Kg		98	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

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

Lab Sample ID: 890-8635-44 MS

Matrix: Solid

Analysis Batch: 117019

Client Sample ID: CS 97

Prep Type: Total/NA

Prep Batch: 116912

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	113		70 - 130
o-Terphenyl	114		70 - 130

Lab Sample ID: 890-8635-44 MSD

Matrix: Solid

Analysis Batch: 117019

Client Sample ID: CS 97

Prep Type: Total/NA

Prep Batch: 116912

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	978.6		mg/Kg		98	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	952.2		mg/Kg		94	70 - 130	4	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	114		70 - 130
o-Terphenyl	113		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-116906/1-A

Matrix: Solid

Analysis Batch: 116999

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0	mg/Kg			08/18/25 18:25	1

Lab Sample ID: LCS 880-116906/2-A

Matrix: Solid

Analysis Batch: 116999

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	235.4		mg/Kg		94	90 - 110

Lab Sample ID: LCSD 880-116906/3-A

Matrix: Solid

Analysis Batch: 116999

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	235.8		mg/Kg		94	90 - 110	0	20

Lab Sample ID: 890-8634-A-31-B MS

Matrix: Solid

Analysis Batch: 116999

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	58.4		250	293.8		mg/Kg		94	90 - 110

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QC Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-8634-A-31-C MSD

Matrix: Solid

Analysis Batch: 116999

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	58.4		250	293.9		mg/Kg		94	90 - 110	0	20

Lab Sample ID: MB 880-116910/1-A

Matrix: Solid

Analysis Batch: 117005

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0	mg/Kg			08/19/25 01:38	1

Lab Sample ID: LCS 880-116910/2-A

Matrix: Solid

Analysis Batch: 117005

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	251.7		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-116910/3-A

Matrix: Solid

Analysis Batch: 117005

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	249.4		mg/Kg		100	90 - 110	1	20

Lab Sample ID: 890-8635-4 MS

Matrix: Solid

Analysis Batch: 117005

Client Sample ID: CS 68

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	<10.1	U	252	256.2		mg/Kg		99	90 - 110

Lab Sample ID: 890-8635-4 MSD

Matrix: Solid

Analysis Batch: 117005

Client Sample ID: CS 68

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	<10.1	U	252	251.1		mg/Kg		97	90 - 110	2	20

Lab Sample ID: 890-8635-14 MS

Matrix: Solid

Analysis Batch: 117005

Client Sample ID: CS 100

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	52.1		249	284.1		mg/Kg		93	90 - 110

Lab Sample ID: 890-8635-14 MSD

Matrix: Solid

Analysis Batch: 117005

Client Sample ID: CS 100

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	52.1		249	285.0		mg/Kg		94	90 - 110	0	20

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QC Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-116913/1-A
Matrix: Solid
Analysis Batch: 117007

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0	mg/Kg			08/18/25 21:44	1

Lab Sample ID: LCS 880-116913/2-A
Matrix: Solid
Analysis Batch: 117007

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	236.9		mg/Kg		95	90 - 110

Lab Sample ID: LCSD 880-116913/3-A
Matrix: Solid
Analysis Batch: 117007

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	237.9		mg/Kg		95	90 - 110	0	20

Lab Sample ID: 890-8635-24 MS
Matrix: Solid
Analysis Batch: 117007

Client Sample ID: CS 63
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.6		249	256.5		mg/Kg		95	90 - 110

Lab Sample ID: 890-8635-24 MSD
Matrix: Solid
Analysis Batch: 117007

Client Sample ID: CS 63
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	20.6		249	257.7		mg/Kg		95	90 - 110	0	20

Lab Sample ID: 890-8635-34 MS
Matrix: Solid
Analysis Batch: 117007

Client Sample ID: CS 79
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	<10.1	U	252	235.2		mg/Kg		91	90 - 110

Lab Sample ID: 890-8635-34 MSD
Matrix: Solid
Analysis Batch: 117007

Client Sample ID: CS 79
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	<10.1	U	252	235.2		mg/Kg		91	90 - 110	0	20

Lab Sample ID: MB 880-116914/1-A
Matrix: Solid
Analysis Batch: 117008

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0	mg/Kg			08/19/25 01:02	1

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QC Sample Results

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-116914/2-A

Matrix: Solid

Analysis Batch: 117008

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	240.9		mg/Kg		96	90 - 110		

Lab Sample ID: LCSD 880-116914/3-A

Matrix: Solid

Analysis Batch: 117008

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	240.6		mg/Kg		96	90 - 110	0	20

Lab Sample ID: 890-8635-44 MS

Matrix: Solid

Analysis Batch: 117008

Client Sample ID: CS 97

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	13.5		250	247.6		mg/Kg		94	90 - 110		

Lab Sample ID: 890-8635-44 MSD

Matrix: Solid

Analysis Batch: 117008

Client Sample ID: CS 97

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	13.5		250	247.5		mg/Kg		94	90 - 110	0	20

Lab Sample ID: 890-8635-54 MS

Matrix: Solid

Analysis Batch: 117008

Client Sample ID: CS 15

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	1500		252	1741	E 4	mg/Kg		94	90 - 110		

Lab Sample ID: 890-8635-54 MSD

Matrix: Solid

Analysis Batch: 117008

Client Sample ID: CS 15

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1500		252	1741	E 4	mg/Kg		94	90 - 110	0	20

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QC Association Summary

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

GC VOA

Prep Batch: 116868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8635-41	CS 91	Total/NA	Solid	5035	
890-8635-42	CS 90	Total/NA	Solid	5035	
890-8635-43	CS 88	Total/NA	Solid	5035	
890-8635-44	CS 97	Total/NA	Solid	5035	
890-8635-45	CS 19	Total/NA	Solid	5035	
890-8635-46	CS 18	Total/NA	Solid	5035	
890-8635-47	CS 16	Total/NA	Solid	5035	
890-8635-48	CS 14	Total/NA	Solid	5035	
890-8635-49	CS 09	Total/NA	Solid	5035	
MB 880-116868/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-116868/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-116868/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-61562-A-1-F MS	Matrix Spike	Total/NA	Solid	5035	
880-61562-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 116870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8635-21	CS 60	Total/NA	Solid	8021B	116982
890-8635-22	CS 61	Total/NA	Solid	8021B	116982
890-8635-23	CS 62	Total/NA	Solid	8021B	116982
890-8635-24	CS 63	Total/NA	Solid	8021B	116982
890-8635-25	CS 70	Total/NA	Solid	8021B	116982
890-8635-26	CS 73	Total/NA	Solid	8021B	116982
890-8635-27	CS 77	Total/NA	Solid	8021B	116982
890-8635-28	CS 80	Total/NA	Solid	8021B	116982
890-8635-29	CS 72	Total/NA	Solid	8021B	116982
890-8635-30	CS 84	Total/NA	Solid	8021B	116982
890-8635-41	CS 91	Total/NA	Solid	8021B	116868
890-8635-42	CS 90	Total/NA	Solid	8021B	116868
890-8635-43	CS 88	Total/NA	Solid	8021B	116868
890-8635-44	CS 97	Total/NA	Solid	8021B	116868
890-8635-45	CS 19	Total/NA	Solid	8021B	116868
890-8635-46	CS 18	Total/NA	Solid	8021B	116868
890-8635-47	CS 16	Total/NA	Solid	8021B	116868
890-8635-48	CS 14	Total/NA	Solid	8021B	116868
890-8635-49	CS 09	Total/NA	Solid	8021B	116868
MB 880-116868/5-A	Method Blank	Total/NA	Solid	8021B	116868
MB 880-116976/5-A	Method Blank	Total/NA	Solid	8021B	116976
MB 880-116982/5-A	Method Blank	Total/NA	Solid	8021B	116982
LCS 880-116868/1-A	Lab Control Sample	Total/NA	Solid	8021B	116868
LCS 880-116982/1-A	Lab Control Sample	Total/NA	Solid	8021B	116982
LCSD 880-116868/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	116868
LCSD 880-116982/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	116982
880-61562-A-1-F MS	Matrix Spike	Total/NA	Solid	8021B	116868
880-61562-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	116868
890-8635-21 MS	CS 60	Total/NA	Solid	8021B	116982
890-8635-21 MSD	CS 60	Total/NA	Solid	8021B	116982

Analysis Batch: 116871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8635-1	CS 92	Total/NA	Solid	8021B	116981

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QC Association Summary

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

GC VOA (Continued)

Analysis Batch: 116871 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8635-2	CS 93	Total/NA	Solid	8021B	116981
890-8635-3	CS 69	Total/NA	Solid	8021B	116981
890-8635-4	CS 68	Total/NA	Solid	8021B	116981
890-8635-5	CS 67	Total/NA	Solid	8021B	116981
890-8635-6	CS 66	Total/NA	Solid	8021B	116981
890-8635-7	CS 65	Total/NA	Solid	8021B	116981
890-8635-8	CS 64	Total/NA	Solid	8021B	116981
890-8635-9	CS 58	Total/NA	Solid	8021B	116981
890-8635-10	CS 59	Total/NA	Solid	8021B	116981
890-8635-11	CS 99	Total/NA	Solid	8021B	116981
890-8635-12	CS 101	Total/NA	Solid	8021B	116981
890-8635-13	CS 98	Total/NA	Solid	8021B	116981
890-8635-14	CS 100	Total/NA	Solid	8021B	116981
890-8635-15	CS 95	Total/NA	Solid	8021B	116981
890-8635-16	CS 94	Total/NA	Solid	8021B	116981
890-8635-17	CS 74	Total/NA	Solid	8021B	116981
890-8635-18	CS 85	Total/NA	Solid	8021B	116981
890-8635-19	CS 86	Total/NA	Solid	8021B	116981
890-8635-20	CS 87	Total/NA	Solid	8021B	116981
890-8635-31	CS 78	Total/NA	Solid	8021B	116997
890-8635-32	CS 71	Total/NA	Solid	8021B	116997
890-8635-33	CS 75	Total/NA	Solid	8021B	116997
890-8635-34	CS 79	Total/NA	Solid	8021B	116997
890-8635-35	CS 76	Total/NA	Solid	8021B	116997
890-8635-36	CS 83	Total/NA	Solid	8021B	116997
890-8635-37	CS 96	Total/NA	Solid	8021B	116997
890-8635-38	CS 81	Total/NA	Solid	8021B	116997
890-8635-39	CS 89	Total/NA	Solid	8021B	116997
890-8635-40	CS 82	Total/NA	Solid	8021B	116997
890-8635-51	CS 20	Total/NA	Solid	8021B	116997
890-8635-52	CS 13	Total/NA	Solid	8021B	116997
MB 880-116871/8	Method Blank	Total/NA	Solid	8021B	
MB 880-116981/5-A	Method Blank	Total/NA	Solid	8021B	116981
MB 880-116997/5-A	Method Blank	Total/NA	Solid	8021B	116997
LCS 880-116981/1-A	Lab Control Sample	Total/NA	Solid	8021B	116981
LCS 880-116997/1-A	Lab Control Sample	Total/NA	Solid	8021B	116997
LCSD 880-116981/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	116981
LCSD 880-116997/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	116997
890-8635-1 MS	CS 92	Total/NA	Solid	8021B	116981
890-8635-1 MSD	CS 92	Total/NA	Solid	8021B	116981
890-8635-31 MS	CS 78	Total/NA	Solid	8021B	116997
890-8635-31 MSD	CS 78	Total/NA	Solid	8021B	116997

Prep Batch: 116899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-116899/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 116976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-116976/5-A	Method Blank	Total/NA	Solid	5035	

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QC Association Summary

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

GC VOA

Prep Batch: 116981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8635-1	CS 92	Total/NA	Solid	5035	
890-8635-2	CS 93	Total/NA	Solid	5035	
890-8635-3	CS 69	Total/NA	Solid	5035	
890-8635-4	CS 68	Total/NA	Solid	5035	
890-8635-5	CS 67	Total/NA	Solid	5035	
890-8635-6	CS 66	Total/NA	Solid	5035	
890-8635-7	CS 65	Total/NA	Solid	5035	
890-8635-8	CS 64	Total/NA	Solid	5035	
890-8635-9	CS 58	Total/NA	Solid	5035	
890-8635-10	CS 59	Total/NA	Solid	5035	
890-8635-11	CS 99	Total/NA	Solid	5035	
890-8635-12	CS 101	Total/NA	Solid	5035	
890-8635-13	CS 98	Total/NA	Solid	5035	
890-8635-14	CS 100	Total/NA	Solid	5035	
890-8635-15	CS 95	Total/NA	Solid	5035	
890-8635-16	CS 94	Total/NA	Solid	5035	
890-8635-17	CS 74	Total/NA	Solid	5035	
890-8635-18	CS 85	Total/NA	Solid	5035	
890-8635-19	CS 86	Total/NA	Solid	5035	
890-8635-20	CS 87	Total/NA	Solid	5035	
MB 880-116981/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-116981/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-116981/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8635-1 MS	CS 92	Total/NA	Solid	5035	
890-8635-1 MSD	CS 92	Total/NA	Solid	5035	

Prep Batch: 116982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8635-21	CS 60	Total/NA	Solid	5035	
890-8635-22	CS 61	Total/NA	Solid	5035	
890-8635-23	CS 62	Total/NA	Solid	5035	
890-8635-24	CS 63	Total/NA	Solid	5035	
890-8635-25	CS 70	Total/NA	Solid	5035	
890-8635-26	CS 73	Total/NA	Solid	5035	
890-8635-27	CS 77	Total/NA	Solid	5035	
890-8635-28	CS 80	Total/NA	Solid	5035	
890-8635-29	CS 72	Total/NA	Solid	5035	
890-8635-30	CS 84	Total/NA	Solid	5035	
MB 880-116982/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-116982/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-116982/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8635-21 MS	CS 60	Total/NA	Solid	5035	
890-8635-21 MSD	CS 60	Total/NA	Solid	5035	

Analysis Batch: 116996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8635-50	CS 10	Total/NA	Solid	8021B	116998
890-8635-53	CS 17	Total/NA	Solid	8021B	116998
890-8635-54	CS 15	Total/NA	Solid	8021B	116998
890-8635-55	CS 12	Total/NA	Solid	8021B	116998
890-8635-56	CS 11	Total/NA	Solid	8021B	116998

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QC Association Summary

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

GC VOA (Continued)

Analysis Batch: 116996 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8635-57	CS 102	Total/NA	Solid	8021B	116998
MB 880-116899/5-A	Method Blank	Total/NA	Solid	8021B	116899
MB 880-116998/5-A	Method Blank	Total/NA	Solid	8021B	116998
LCS 880-116998/1-A	Lab Control Sample	Total/NA	Solid	8021B	116998
LCSD 880-116998/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	116998
890-8635-50 MS	CS 10	Total/NA	Solid	8021B	116998
890-8635-50 MSD	CS 10	Total/NA	Solid	8021B	116998

Prep Batch: 116997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8635-31	CS 78	Total/NA	Solid	5035	
890-8635-32	CS 71	Total/NA	Solid	5035	
890-8635-33	CS 75	Total/NA	Solid	5035	
890-8635-34	CS 79	Total/NA	Solid	5035	
890-8635-35	CS 76	Total/NA	Solid	5035	
890-8635-36	CS 83	Total/NA	Solid	5035	
890-8635-37	CS 96	Total/NA	Solid	5035	
890-8635-38	CS 81	Total/NA	Solid	5035	
890-8635-39	CS 89	Total/NA	Solid	5035	
890-8635-40	CS 82	Total/NA	Solid	5035	
890-8635-51	CS 20	Total/NA	Solid	5035	
890-8635-52	CS 13	Total/NA	Solid	5035	
MB 880-116997/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-116997/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-116997/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8635-31 MS	CS 78	Total/NA	Solid	5035	
890-8635-31 MSD	CS 78	Total/NA	Solid	5035	

Prep Batch: 116998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8635-50	CS 10	Total/NA	Solid	5035	
890-8635-53	CS 17	Total/NA	Solid	5035	
890-8635-54	CS 15	Total/NA	Solid	5035	
890-8635-55	CS 12	Total/NA	Solid	5035	
890-8635-56	CS 11	Total/NA	Solid	5035	
890-8635-57	CS 102	Total/NA	Solid	5035	
MB 880-116998/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-116998/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-116998/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8635-50 MS	CS 10	Total/NA	Solid	5035	
890-8635-50 MSD	CS 10	Total/NA	Solid	5035	

Analysis Batch: 117034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8635-1	CS 92	Total/NA	Solid	Total BTEX	
890-8635-2	CS 93	Total/NA	Solid	Total BTEX	
890-8635-3	CS 69	Total/NA	Solid	Total BTEX	
890-8635-4	CS 68	Total/NA	Solid	Total BTEX	
890-8635-5	CS 67	Total/NA	Solid	Total BTEX	
890-8635-6	CS 66	Total/NA	Solid	Total BTEX	
890-8635-7	CS 65	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

GC VOA (Continued)

Analysis Batch: 117034 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8635-8	CS 64	Total/NA	Solid	Total BTEX	
890-8635-9	CS 58	Total/NA	Solid	Total BTEX	
890-8635-10	CS 59	Total/NA	Solid	Total BTEX	
890-8635-11	CS 99	Total/NA	Solid	Total BTEX	
890-8635-12	CS 101	Total/NA	Solid	Total BTEX	
890-8635-13	CS 98	Total/NA	Solid	Total BTEX	
890-8635-14	CS 100	Total/NA	Solid	Total BTEX	
890-8635-15	CS 95	Total/NA	Solid	Total BTEX	
890-8635-16	CS 94	Total/NA	Solid	Total BTEX	
890-8635-17	CS 74	Total/NA	Solid	Total BTEX	
890-8635-18	CS 85	Total/NA	Solid	Total BTEX	
890-8635-19	CS 86	Total/NA	Solid	Total BTEX	
890-8635-20	CS 87	Total/NA	Solid	Total BTEX	
890-8635-21	CS 60	Total/NA	Solid	Total BTEX	
890-8635-22	CS 61	Total/NA	Solid	Total BTEX	
890-8635-23	CS 62	Total/NA	Solid	Total BTEX	
890-8635-24	CS 63	Total/NA	Solid	Total BTEX	
890-8635-25	CS 70	Total/NA	Solid	Total BTEX	
890-8635-26	CS 73	Total/NA	Solid	Total BTEX	
890-8635-27	CS 77	Total/NA	Solid	Total BTEX	
890-8635-28	CS 80	Total/NA	Solid	Total BTEX	
890-8635-29	CS 72	Total/NA	Solid	Total BTEX	
890-8635-30	CS 84	Total/NA	Solid	Total BTEX	
890-8635-31	CS 78	Total/NA	Solid	Total BTEX	
890-8635-32	CS 71	Total/NA	Solid	Total BTEX	
890-8635-33	CS 75	Total/NA	Solid	Total BTEX	
890-8635-34	CS 79	Total/NA	Solid	Total BTEX	
890-8635-35	CS 76	Total/NA	Solid	Total BTEX	
890-8635-36	CS 83	Total/NA	Solid	Total BTEX	
890-8635-37	CS 96	Total/NA	Solid	Total BTEX	
890-8635-38	CS 81	Total/NA	Solid	Total BTEX	
890-8635-39	CS 89	Total/NA	Solid	Total BTEX	
890-8635-40	CS 82	Total/NA	Solid	Total BTEX	
890-8635-41	CS 91	Total/NA	Solid	Total BTEX	
890-8635-42	CS 90	Total/NA	Solid	Total BTEX	
890-8635-43	CS 88	Total/NA	Solid	Total BTEX	
890-8635-44	CS 97	Total/NA	Solid	Total BTEX	
890-8635-45	CS 19	Total/NA	Solid	Total BTEX	
890-8635-46	CS 18	Total/NA	Solid	Total BTEX	
890-8635-47	CS 16	Total/NA	Solid	Total BTEX	
890-8635-48	CS 14	Total/NA	Solid	Total BTEX	
890-8635-49	CS 09	Total/NA	Solid	Total BTEX	
890-8635-50	CS 10	Total/NA	Solid	Total BTEX	
890-8635-51	CS 20	Total/NA	Solid	Total BTEX	
890-8635-52	CS 13	Total/NA	Solid	Total BTEX	
890-8635-53	CS 17	Total/NA	Solid	Total BTEX	
890-8635-54	CS 15	Total/NA	Solid	Total BTEX	
890-8635-55	CS 12	Total/NA	Solid	Total BTEX	
890-8635-56	CS 11	Total/NA	Solid	Total BTEX	
890-8635-57	CS 102	Total/NA	Solid	Total BTEX	

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

GC Semi VOA

Prep Batch: 116908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8635-1	CS 92	Total/NA	Solid	8015NM Prep	
890-8635-2	CS 93	Total/NA	Solid	8015NM Prep	
890-8635-3	CS 69	Total/NA	Solid	8015NM Prep	
MB 880-116908/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-116908/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-116908/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8634-A-21-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-8634-A-21-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 116909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8635-4	CS 68	Total/NA	Solid	8015NM Prep	
890-8635-5	CS 67	Total/NA	Solid	8015NM Prep	
890-8635-6	CS 66	Total/NA	Solid	8015NM Prep	
890-8635-7	CS 65	Total/NA	Solid	8015NM Prep	
890-8635-8	CS 64	Total/NA	Solid	8015NM Prep	
890-8635-9	CS 58	Total/NA	Solid	8015NM Prep	
890-8635-10	CS 59	Total/NA	Solid	8015NM Prep	
890-8635-11	CS 99	Total/NA	Solid	8015NM Prep	
890-8635-12	CS 101	Total/NA	Solid	8015NM Prep	
890-8635-13	CS 98	Total/NA	Solid	8015NM Prep	
890-8635-14	CS 100	Total/NA	Solid	8015NM Prep	
890-8635-15	CS 95	Total/NA	Solid	8015NM Prep	
890-8635-16	CS 94	Total/NA	Solid	8015NM Prep	
890-8635-17	CS 74	Total/NA	Solid	8015NM Prep	
890-8635-18	CS 85	Total/NA	Solid	8015NM Prep	
890-8635-19	CS 86	Total/NA	Solid	8015NM Prep	
890-8635-20	CS 87	Total/NA	Solid	8015NM Prep	
890-8635-21	CS 60	Total/NA	Solid	8015NM Prep	
890-8635-22	CS 61	Total/NA	Solid	8015NM Prep	
890-8635-23	CS 62	Total/NA	Solid	8015NM Prep	
MB 880-116909/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-116909/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-116909/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8635-4 MS	CS 68	Total/NA	Solid	8015NM Prep	
890-8635-4 MSD	CS 68	Total/NA	Solid	8015NM Prep	

Prep Batch: 116911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8635-24	CS 63	Total/NA	Solid	8015NM Prep	
890-8635-25	CS 70	Total/NA	Solid	8015NM Prep	
890-8635-26	CS 73	Total/NA	Solid	8015NM Prep	
890-8635-27	CS 77	Total/NA	Solid	8015NM Prep	
890-8635-28	CS 80	Total/NA	Solid	8015NM Prep	
890-8635-29	CS 72	Total/NA	Solid	8015NM Prep	
890-8635-30	CS 84	Total/NA	Solid	8015NM Prep	
890-8635-31	CS 78	Total/NA	Solid	8015NM Prep	
890-8635-32	CS 71	Total/NA	Solid	8015NM Prep	
890-8635-33	CS 75	Total/NA	Solid	8015NM Prep	
890-8635-34	CS 79	Total/NA	Solid	8015NM Prep	
890-8635-35	CS 76	Total/NA	Solid	8015NM Prep	

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

GC Semi VOA (Continued)

Prep Batch: 116911 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8635-36	CS 83	Total/NA	Solid	8015NM Prep	
890-8635-37	CS 96	Total/NA	Solid	8015NM Prep	
890-8635-38	CS 81	Total/NA	Solid	8015NM Prep	
890-8635-39	CS 89	Total/NA	Solid	8015NM Prep	
890-8635-40	CS 82	Total/NA	Solid	8015NM Prep	
890-8635-41	CS 91	Total/NA	Solid	8015NM Prep	
890-8635-42	CS 90	Total/NA	Solid	8015NM Prep	
890-8635-43	CS 88	Total/NA	Solid	8015NM Prep	
MB 880-116911/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-116911/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-116911/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8635-24 MS	CS 63	Total/NA	Solid	8015NM Prep	
890-8635-24 MSD	CS 63	Total/NA	Solid	8015NM Prep	

Prep Batch: 116912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8635-44	CS 97	Total/NA	Solid	8015NM Prep	
890-8635-45	CS 19	Total/NA	Solid	8015NM Prep	
890-8635-46	CS 18	Total/NA	Solid	8015NM Prep	
890-8635-47	CS 16	Total/NA	Solid	8015NM Prep	
890-8635-48	CS 14	Total/NA	Solid	8015NM Prep	
890-8635-49	CS 09	Total/NA	Solid	8015NM Prep	
890-8635-50	CS 10	Total/NA	Solid	8015NM Prep	
890-8635-51	CS 20	Total/NA	Solid	8015NM Prep	
890-8635-52	CS 13	Total/NA	Solid	8015NM Prep	
890-8635-53	CS 17	Total/NA	Solid	8015NM Prep	
890-8635-54	CS 15	Total/NA	Solid	8015NM Prep	
890-8635-55	CS 12	Total/NA	Solid	8015NM Prep	
890-8635-56	CS 11	Total/NA	Solid	8015NM Prep	
890-8635-57	CS 102	Total/NA	Solid	8015NM Prep	
MB 880-116912/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-116912/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-116912/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8635-44 MS	CS 97	Total/NA	Solid	8015NM Prep	
890-8635-44 MSD	CS 97	Total/NA	Solid	8015NM Prep	

Analysis Batch: 116921

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8635-24	CS 63	Total/NA	Solid	8015B NM	116911
890-8635-25	CS 70	Total/NA	Solid	8015B NM	116911
890-8635-26	CS 73	Total/NA	Solid	8015B NM	116911
890-8635-27	CS 77	Total/NA	Solid	8015B NM	116911
890-8635-28	CS 80	Total/NA	Solid	8015B NM	116911
890-8635-29	CS 72	Total/NA	Solid	8015B NM	116911
890-8635-30	CS 84	Total/NA	Solid	8015B NM	116911
890-8635-31	CS 78	Total/NA	Solid	8015B NM	116911
890-8635-32	CS 71	Total/NA	Solid	8015B NM	116911
890-8635-33	CS 75	Total/NA	Solid	8015B NM	116911
890-8635-34	CS 79	Total/NA	Solid	8015B NM	116911
890-8635-35	CS 76	Total/NA	Solid	8015B NM	116911
890-8635-36	CS 83	Total/NA	Solid	8015B NM	116911

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

GC Semi VOA (Continued)

Analysis Batch: 116921 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8635-37	CS 96	Total/NA	Solid	8015B NM	116911
890-8635-38	CS 81	Total/NA	Solid	8015B NM	116911
890-8635-39	CS 89	Total/NA	Solid	8015B NM	116911
890-8635-40	CS 82	Total/NA	Solid	8015B NM	116911
890-8635-41	CS 91	Total/NA	Solid	8015B NM	116911
890-8635-42	CS 90	Total/NA	Solid	8015B NM	116911
890-8635-43	CS 88	Total/NA	Solid	8015B NM	116911
MB 880-116911/1-A	Method Blank	Total/NA	Solid	8015B NM	116911
LCS 880-116911/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	116911
LCSD 880-116911/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	116911
890-8635-24 MS	CS 63	Total/NA	Solid	8015B NM	116911
890-8635-24 MSD	CS 63	Total/NA	Solid	8015B NM	116911

Analysis Batch: 116930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8635-1	CS 92	Total/NA	Solid	8015B NM	116908
890-8635-2	CS 93	Total/NA	Solid	8015B NM	116908
890-8635-3	CS 69	Total/NA	Solid	8015B NM	116908
MB 880-116908/1-A	Method Blank	Total/NA	Solid	8015B NM	116908
LCS 880-116908/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	116908
LCSD 880-116908/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	116908
890-8634-A-21-E MS	Matrix Spike	Total/NA	Solid	8015B NM	116908
890-8634-A-21-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	116908

Analysis Batch: 116959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8635-4	CS 68	Total/NA	Solid	8015B NM	116909
890-8635-5	CS 67	Total/NA	Solid	8015B NM	116909
890-8635-6	CS 66	Total/NA	Solid	8015B NM	116909
890-8635-7	CS 65	Total/NA	Solid	8015B NM	116909
890-8635-8	CS 64	Total/NA	Solid	8015B NM	116909
890-8635-9	CS 58	Total/NA	Solid	8015B NM	116909
890-8635-10	CS 59	Total/NA	Solid	8015B NM	116909
890-8635-11	CS 99	Total/NA	Solid	8015B NM	116909
890-8635-12	CS 101	Total/NA	Solid	8015B NM	116909
890-8635-13	CS 98	Total/NA	Solid	8015B NM	116909
890-8635-14	CS 100	Total/NA	Solid	8015B NM	116909
890-8635-15	CS 95	Total/NA	Solid	8015B NM	116909
890-8635-16	CS 94	Total/NA	Solid	8015B NM	116909
890-8635-17	CS 74	Total/NA	Solid	8015B NM	116909
890-8635-18	CS 85	Total/NA	Solid	8015B NM	116909
890-8635-19	CS 86	Total/NA	Solid	8015B NM	116909
890-8635-20	CS 87	Total/NA	Solid	8015B NM	116909
890-8635-21	CS 60	Total/NA	Solid	8015B NM	116909
890-8635-22	CS 61	Total/NA	Solid	8015B NM	116909
890-8635-23	CS 62	Total/NA	Solid	8015B NM	116909
MB 880-116909/1-A	Method Blank	Total/NA	Solid	8015B NM	116909
LCS 880-116909/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	116909
LCSD 880-116909/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	116909
890-8635-4 MS	CS 68	Total/NA	Solid	8015B NM	116909
890-8635-4 MSD	CS 68	Total/NA	Solid	8015B NM	116909

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

GC Semi VOA

Analysis Batch: 117019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8635-44	CS 97	Total/NA	Solid	8015B NM	116912
890-8635-45	CS 19	Total/NA	Solid	8015B NM	116912
890-8635-46	CS 18	Total/NA	Solid	8015B NM	116912
890-8635-47	CS 16	Total/NA	Solid	8015B NM	116912
890-8635-48	CS 14	Total/NA	Solid	8015B NM	116912
890-8635-49	CS 09	Total/NA	Solid	8015B NM	116912
890-8635-50	CS 10	Total/NA	Solid	8015B NM	116912
890-8635-51	CS 20	Total/NA	Solid	8015B NM	116912
890-8635-52	CS 13	Total/NA	Solid	8015B NM	116912
890-8635-53	CS 17	Total/NA	Solid	8015B NM	116912
890-8635-54	CS 15	Total/NA	Solid	8015B NM	116912
890-8635-55	CS 12	Total/NA	Solid	8015B NM	116912
890-8635-56	CS 11	Total/NA	Solid	8015B NM	116912
890-8635-57	CS 102	Total/NA	Solid	8015B NM	116912
MB 880-116912/1-A	Method Blank	Total/NA	Solid	8015B NM	116912
LCS 880-116912/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	116912
LCSD 880-116912/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	116912
890-8635-44 MS	CS 97	Total/NA	Solid	8015B NM	116912
890-8635-44 MSD	CS 97	Total/NA	Solid	8015B NM	116912

Analysis Batch: 117026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8635-1	CS 92	Total/NA	Solid	8015 NM	
890-8635-2	CS 93	Total/NA	Solid	8015 NM	
890-8635-3	CS 69	Total/NA	Solid	8015 NM	
890-8635-4	CS 68	Total/NA	Solid	8015 NM	
890-8635-5	CS 67	Total/NA	Solid	8015 NM	
890-8635-6	CS 66	Total/NA	Solid	8015 NM	
890-8635-7	CS 65	Total/NA	Solid	8015 NM	
890-8635-8	CS 64	Total/NA	Solid	8015 NM	
890-8635-9	CS 58	Total/NA	Solid	8015 NM	
890-8635-10	CS 59	Total/NA	Solid	8015 NM	
890-8635-11	CS 99	Total/NA	Solid	8015 NM	
890-8635-12	CS 101	Total/NA	Solid	8015 NM	
890-8635-13	CS 98	Total/NA	Solid	8015 NM	
890-8635-14	CS 100	Total/NA	Solid	8015 NM	
890-8635-15	CS 95	Total/NA	Solid	8015 NM	
890-8635-16	CS 94	Total/NA	Solid	8015 NM	
890-8635-17	CS 74	Total/NA	Solid	8015 NM	
890-8635-18	CS 85	Total/NA	Solid	8015 NM	
890-8635-19	CS 86	Total/NA	Solid	8015 NM	
890-8635-20	CS 87	Total/NA	Solid	8015 NM	
890-8635-21	CS 60	Total/NA	Solid	8015 NM	
890-8635-22	CS 61	Total/NA	Solid	8015 NM	
890-8635-23	CS 62	Total/NA	Solid	8015 NM	
890-8635-24	CS 63	Total/NA	Solid	8015 NM	
890-8635-25	CS 70	Total/NA	Solid	8015 NM	
890-8635-26	CS 73	Total/NA	Solid	8015 NM	
890-8635-27	CS 77	Total/NA	Solid	8015 NM	
890-8635-28	CS 80	Total/NA	Solid	8015 NM	
890-8635-29	CS 72	Total/NA	Solid	8015 NM	

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

GC Semi VOA (Continued)

Analysis Batch: 117026 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8635-30	CS 84	Total/NA	Solid	8015 NM	
890-8635-31	CS 78	Total/NA	Solid	8015 NM	
890-8635-32	CS 71	Total/NA	Solid	8015 NM	
890-8635-33	CS 75	Total/NA	Solid	8015 NM	
890-8635-34	CS 79	Total/NA	Solid	8015 NM	
890-8635-35	CS 76	Total/NA	Solid	8015 NM	
890-8635-36	CS 83	Total/NA	Solid	8015 NM	
890-8635-37	CS 96	Total/NA	Solid	8015 NM	
890-8635-38	CS 81	Total/NA	Solid	8015 NM	
890-8635-39	CS 89	Total/NA	Solid	8015 NM	
890-8635-40	CS 82	Total/NA	Solid	8015 NM	
890-8635-41	CS 91	Total/NA	Solid	8015 NM	
890-8635-42	CS 90	Total/NA	Solid	8015 NM	
890-8635-43	CS 88	Total/NA	Solid	8015 NM	
890-8635-44	CS 97	Total/NA	Solid	8015 NM	
890-8635-45	CS 19	Total/NA	Solid	8015 NM	
890-8635-46	CS 18	Total/NA	Solid	8015 NM	
890-8635-47	CS 16	Total/NA	Solid	8015 NM	
890-8635-48	CS 14	Total/NA	Solid	8015 NM	
890-8635-49	CS 09	Total/NA	Solid	8015 NM	
890-8635-50	CS 10	Total/NA	Solid	8015 NM	
890-8635-51	CS 20	Total/NA	Solid	8015 NM	
890-8635-52	CS 13	Total/NA	Solid	8015 NM	
890-8635-53	CS 17	Total/NA	Solid	8015 NM	
890-8635-54	CS 15	Total/NA	Solid	8015 NM	
890-8635-55	CS 12	Total/NA	Solid	8015 NM	
890-8635-56	CS 11	Total/NA	Solid	8015 NM	
890-8635-57	CS 102	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 116906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8635-1	CS 92	Soluble	Solid	DI Leach	
890-8635-2	CS 93	Soluble	Solid	DI Leach	
890-8635-3	CS 69	Soluble	Solid	DI Leach	
MB 880-116906/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-116906/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-116906/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-8634-A-31-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-8634-A-31-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 116910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8635-4	CS 68	Soluble	Solid	DI Leach	
890-8635-5	CS 67	Soluble	Solid	DI Leach	
890-8635-6	CS 66	Soluble	Solid	DI Leach	
890-8635-7	CS 65	Soluble	Solid	DI Leach	
890-8635-8	CS 64	Soluble	Solid	DI Leach	
890-8635-9	CS 58	Soluble	Solid	DI Leach	
890-8635-10	CS 59	Soluble	Solid	DI Leach	

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

HPLC/IC (Continued)

Leach Batch: 116910 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8635-11	CS 99	Soluble	Solid	DI Leach	
890-8635-12	CS 101	Soluble	Solid	DI Leach	
890-8635-13	CS 98	Soluble	Solid	DI Leach	
890-8635-14	CS 100	Soluble	Solid	DI Leach	
890-8635-15	CS 95	Soluble	Solid	DI Leach	
890-8635-16	CS 94	Soluble	Solid	DI Leach	
890-8635-17	CS 74	Soluble	Solid	DI Leach	
890-8635-18	CS 85	Soluble	Solid	DI Leach	
890-8635-19	CS 86	Soluble	Solid	DI Leach	
890-8635-20	CS 87	Soluble	Solid	DI Leach	
890-8635-21	CS 60	Soluble	Solid	DI Leach	
890-8635-22	CS 61	Soluble	Solid	DI Leach	
890-8635-23	CS 62	Soluble	Solid	DI Leach	
MB 880-116910/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-116910/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-116910/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-8635-4 MS	CS 68	Soluble	Solid	DI Leach	
890-8635-4 MSD	CS 68	Soluble	Solid	DI Leach	
890-8635-14 MS	CS 100	Soluble	Solid	DI Leach	
890-8635-14 MSD	CS 100	Soluble	Solid	DI Leach	

Leach Batch: 116913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8635-24	CS 63	Soluble	Solid	DI Leach	
890-8635-25	CS 70	Soluble	Solid	DI Leach	
890-8635-26	CS 73	Soluble	Solid	DI Leach	
890-8635-27	CS 77	Soluble	Solid	DI Leach	
890-8635-28	CS 80	Soluble	Solid	DI Leach	
890-8635-29	CS 72	Soluble	Solid	DI Leach	
890-8635-30	CS 84	Soluble	Solid	DI Leach	
890-8635-31	CS 78	Soluble	Solid	DI Leach	
890-8635-32	CS 71	Soluble	Solid	DI Leach	
890-8635-33	CS 75	Soluble	Solid	DI Leach	
890-8635-34	CS 79	Soluble	Solid	DI Leach	
890-8635-35	CS 76	Soluble	Solid	DI Leach	
890-8635-36	CS 83	Soluble	Solid	DI Leach	
890-8635-37	CS 96	Soluble	Solid	DI Leach	
890-8635-38	CS 81	Soluble	Solid	DI Leach	
890-8635-39	CS 89	Soluble	Solid	DI Leach	
890-8635-40	CS 82	Soluble	Solid	DI Leach	
890-8635-41	CS 91	Soluble	Solid	DI Leach	
890-8635-42	CS 90	Soluble	Solid	DI Leach	
890-8635-43	CS 88	Soluble	Solid	DI Leach	
MB 880-116913/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-116913/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-116913/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-8635-24 MS	CS 63	Soluble	Solid	DI Leach	
890-8635-24 MSD	CS 63	Soluble	Solid	DI Leach	
890-8635-34 MS	CS 79	Soluble	Solid	DI Leach	
890-8635-34 MSD	CS 79	Soluble	Solid	DI Leach	

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

HPLC/IC

Leach Batch: 116914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8635-44	CS 97	Soluble	Solid	DI Leach	
890-8635-45	CS 19	Soluble	Solid	DI Leach	
890-8635-46	CS 18	Soluble	Solid	DI Leach	
890-8635-47	CS 16	Soluble	Solid	DI Leach	
890-8635-48	CS 14	Soluble	Solid	DI Leach	
890-8635-49	CS 09	Soluble	Solid	DI Leach	
890-8635-50	CS 10	Soluble	Solid	DI Leach	
890-8635-51	CS 20	Soluble	Solid	DI Leach	
890-8635-52	CS 13	Soluble	Solid	DI Leach	
890-8635-53	CS 17	Soluble	Solid	DI Leach	
890-8635-54	CS 15	Soluble	Solid	DI Leach	
890-8635-55	CS 12	Soluble	Solid	DI Leach	
890-8635-56	CS 11	Soluble	Solid	DI Leach	
890-8635-57	CS 102	Soluble	Solid	DI Leach	
MB 880-116914/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-116914/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-116914/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-8635-44 MS	CS 97	Soluble	Solid	DI Leach	
890-8635-44 MSD	CS 97	Soluble	Solid	DI Leach	
890-8635-54 MS	CS 15	Soluble	Solid	DI Leach	
890-8635-54 MSD	CS 15	Soluble	Solid	DI Leach	

Analysis Batch: 116999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8635-1	CS 92	Soluble	Solid	300.0	116906
890-8635-2	CS 93	Soluble	Solid	300.0	116906
890-8635-3	CS 69	Soluble	Solid	300.0	116906
MB 880-116906/1-A	Method Blank	Soluble	Solid	300.0	116906
LCS 880-116906/2-A	Lab Control Sample	Soluble	Solid	300.0	116906
LCSD 880-116906/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	116906
890-8634-A-31-B MS	Matrix Spike	Soluble	Solid	300.0	116906
890-8634-A-31-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	116906

Analysis Batch: 117005

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8635-4	CS 68	Soluble	Solid	300.0	116910
890-8635-5	CS 67	Soluble	Solid	300.0	116910
890-8635-6	CS 66	Soluble	Solid	300.0	116910
890-8635-7	CS 65	Soluble	Solid	300.0	116910
890-8635-8	CS 64	Soluble	Solid	300.0	116910
890-8635-9	CS 58	Soluble	Solid	300.0	116910
890-8635-10	CS 59	Soluble	Solid	300.0	116910
890-8635-11	CS 99	Soluble	Solid	300.0	116910
890-8635-12	CS 101	Soluble	Solid	300.0	116910
890-8635-13	CS 98	Soluble	Solid	300.0	116910
890-8635-14	CS 100	Soluble	Solid	300.0	116910
890-8635-15	CS 95	Soluble	Solid	300.0	116910
890-8635-16	CS 94	Soluble	Solid	300.0	116910
890-8635-17	CS 74	Soluble	Solid	300.0	116910
890-8635-18	CS 85	Soluble	Solid	300.0	116910
890-8635-19	CS 86	Soluble	Solid	300.0	116910

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

HPLC/IC (Continued)

Analysis Batch: 117005 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8635-20	CS 87	Soluble	Solid	300.0	116910
890-8635-21	CS 60	Soluble	Solid	300.0	116910
890-8635-22	CS 61	Soluble	Solid	300.0	116910
890-8635-23	CS 62	Soluble	Solid	300.0	116910
MB 880-116910/1-A	Method Blank	Soluble	Solid	300.0	116910
LCS 880-116910/2-A	Lab Control Sample	Soluble	Solid	300.0	116910
LCSD 880-116910/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	116910
890-8635-4 MS	CS 68	Soluble	Solid	300.0	116910
890-8635-4 MSD	CS 68	Soluble	Solid	300.0	116910
890-8635-14 MS	CS 100	Soluble	Solid	300.0	116910
890-8635-14 MSD	CS 100	Soluble	Solid	300.0	116910

Analysis Batch: 117007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8635-24	CS 63	Soluble	Solid	300.0	116913
890-8635-25	CS 70	Soluble	Solid	300.0	116913
890-8635-26	CS 73	Soluble	Solid	300.0	116913
890-8635-27	CS 77	Soluble	Solid	300.0	116913
890-8635-28	CS 80	Soluble	Solid	300.0	116913
890-8635-29	CS 72	Soluble	Solid	300.0	116913
890-8635-30	CS 84	Soluble	Solid	300.0	116913
890-8635-31	CS 78	Soluble	Solid	300.0	116913
890-8635-32	CS 71	Soluble	Solid	300.0	116913
890-8635-33	CS 75	Soluble	Solid	300.0	116913
890-8635-34	CS 79	Soluble	Solid	300.0	116913
890-8635-35	CS 76	Soluble	Solid	300.0	116913
890-8635-36	CS 83	Soluble	Solid	300.0	116913
890-8635-37	CS 96	Soluble	Solid	300.0	116913
890-8635-38	CS 81	Soluble	Solid	300.0	116913
890-8635-39	CS 89	Soluble	Solid	300.0	116913
890-8635-40	CS 82	Soluble	Solid	300.0	116913
890-8635-41	CS 91	Soluble	Solid	300.0	116913
890-8635-42	CS 90	Soluble	Solid	300.0	116913
890-8635-43	CS 88	Soluble	Solid	300.0	116913
MB 880-116913/1-A	Method Blank	Soluble	Solid	300.0	116913
LCS 880-116913/2-A	Lab Control Sample	Soluble	Solid	300.0	116913
LCSD 880-116913/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	116913
890-8635-24 MS	CS 63	Soluble	Solid	300.0	116913
890-8635-24 MSD	CS 63	Soluble	Solid	300.0	116913
890-8635-34 MS	CS 79	Soluble	Solid	300.0	116913
890-8635-34 MSD	CS 79	Soluble	Solid	300.0	116913

Analysis Batch: 117008

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8635-44	CS 97	Soluble	Solid	300.0	116914
890-8635-45	CS 19	Soluble	Solid	300.0	116914
890-8635-46	CS 18	Soluble	Solid	300.0	116914
890-8635-47	CS 16	Soluble	Solid	300.0	116914
890-8635-48	CS 14	Soluble	Solid	300.0	116914
890-8635-49	CS 09	Soluble	Solid	300.0	116914
890-8635-50	CS 10	Soluble	Solid	300.0	116914

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

HPLC/IC (Continued)

Analysis Batch: 117008 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8635-51	CS 20	Soluble	Solid	300.0	116914
890-8635-52	CS 13	Soluble	Solid	300.0	116914
890-8635-53	CS 17	Soluble	Solid	300.0	116914
890-8635-54	CS 15	Soluble	Solid	300.0	116914
890-8635-55	CS 12	Soluble	Solid	300.0	116914
890-8635-56	CS 11	Soluble	Solid	300.0	116914
890-8635-57	CS 102	Soluble	Solid	300.0	116914
MB 880-116914/1-A	Method Blank	Soluble	Solid	300.0	116914
LCS 880-116914/2-A	Lab Control Sample	Soluble	Solid	300.0	116914
LCSD 880-116914/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	116914
890-8635-44 MS	CS 97	Soluble	Solid	300.0	116914
890-8635-44 MSD	CS 97	Soluble	Solid	300.0	116914
890-8635-54 MS	CS 15	Soluble	Solid	300.0	116914
890-8635-54 MSD	CS 15	Soluble	Solid	300.0	116914

Lab Chronicle

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

Client Sample ID: CS 92
Date Collected: 08/14/25 12:50
Date Received: 08/15/25 16:45

Lab Sample ID: 890-8635-1
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	116981	08/18/25 15:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116871	08/18/25 22:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117034	08/18/25 22:44	SA	EET MID
Total/NA	Analysis	8015 NM		1			117026	08/19/25 03:29	SA	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	116908	08/18/25 10:46	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116930	08/19/25 03:29	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	116906	08/18/25 10:36	SI	EET MID
Soluble	Analysis	300.0		1			116999	08/18/25 21:04	CS	EET MID

Client Sample ID: CS 93
Date Collected: 08/14/25 12:50
Date Received: 08/15/25 16:45

Lab Sample ID: 890-8635-2
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	116981	08/18/25 15:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116871	08/18/25 23:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117034	08/18/25 23:05	SA	EET MID
Total/NA	Analysis	8015 NM		1			117026	08/19/25 03:44	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	116908	08/18/25 10:46	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116930	08/19/25 03:44	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	116906	08/18/25 10:36	SI	EET MID
Soluble	Analysis	300.0		1			116999	08/18/25 21:10	CS	EET MID

Client Sample ID: CS 69
Date Collected: 08/14/25 10:15
Date Received: 08/15/25 16:45

Lab Sample ID: 890-8635-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	116981	08/18/25 15:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116871	08/18/25 23:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117034	08/18/25 23:25	SA	EET MID
Total/NA	Analysis	8015 NM		1			117026	08/19/25 04:01	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	116908	08/18/25 10:46	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116930	08/19/25 04:01	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	116906	08/18/25 10:36	SI	EET MID
Soluble	Analysis	300.0		1			116999	08/18/25 21:15	CS	EET MID

Client Sample ID: CS 68
Date Collected: 08/14/25 10:15
Date Received: 08/15/25 16:45

Lab Sample ID: 890-8635-4
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	116981	08/18/25 15:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116871	08/18/25 23:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117034	08/18/25 23:46	SA	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

Client Sample ID: CS 68

Lab Sample ID: 890-8635-4

Date Collected: 08/14/25 10:15

Matrix: Solid

Date Received: 08/15/25 16:45

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			117026	08/18/25 22:20	SA	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	116909	08/18/25 10:48	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116959	08/18/25 22:20	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	116910	08/18/25 10:38	SI	EET MID
Soluble	Analysis	300.0		1			117005	08/19/25 08:37	CS	EET MID

Client Sample ID: CS 67

Lab Sample ID: 890-8635-5

Date Collected: 08/14/25 10:15

Matrix: Solid

Date Received: 08/15/25 16:45

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	116981	08/18/25 15:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116871	08/19/25 00:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117034	08/19/25 00:06	SA	EET MID
Total/NA	Analysis	8015 NM		1			117026	08/18/25 23:05	SA	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	116909	08/18/25 10:48	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116959	08/18/25 23:05	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	116910	08/18/25 10:38	SI	EET MID
Soluble	Analysis	300.0		1			117005	08/19/25 02:06	CS	EET MID

Client Sample ID: CS 66

Lab Sample ID: 890-8635-6

Date Collected: 08/14/25 10:02

Matrix: Solid

Date Received: 08/15/25 16:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	116981	08/18/25 15:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116871	08/19/25 00:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117034	08/19/25 00:26	SA	EET MID
Total/NA	Analysis	8015 NM		1			117026	08/18/25 23:20	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	116909	08/18/25 10:48	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116959	08/18/25 23:20	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	116910	08/18/25 10:38	SI	EET MID
Soluble	Analysis	300.0		1			117005	08/19/25 02:14	CS	EET MID

Client Sample ID: CS 65

Lab Sample ID: 890-8635-7

Date Collected: 08/14/25 10:02

Matrix: Solid

Date Received: 08/15/25 16:45

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	116981	08/18/25 15:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116871	08/19/25 00:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117034	08/19/25 00:47	SA	EET MID
Total/NA	Analysis	8015 NM		1			117026	08/18/25 23:35	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	116909	08/18/25 10:48	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116959	08/18/25 23:35	TKC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

Client Sample ID: CS 65

Lab Sample ID: 890-8635-7

Date Collected: 08/14/25 10:02

Matrix: Solid

Date Received: 08/15/25 16:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	116910	08/18/25 10:38	SI	EET MID
Soluble	Analysis	300.0		1			117005	08/19/25 02:21	CS	EET MID

Client Sample ID: CS 64

Lab Sample ID: 890-8635-8

Date Collected: 08/14/25 09:55

Matrix: Solid

Date Received: 08/15/25 16:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	116981	08/18/25 15:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116871	08/19/25 01:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117034	08/19/25 01:07	SA	EET MID
Total/NA	Analysis	8015 NM		1			117026	08/18/25 23:49	SA	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	116909	08/18/25 10:48	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116959	08/18/25 23:49	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	116910	08/18/25 10:38	SI	EET MID
Soluble	Analysis	300.0		1			117005	08/19/25 02:29	CS	EET MID

Client Sample ID: CS 58

Lab Sample ID: 890-8635-9

Date Collected: 08/14/25 09:35

Matrix: Solid

Date Received: 08/15/25 16:45

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	116981	08/18/25 15:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116871	08/19/25 01:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117034	08/19/25 01:28	SA	EET MID
Total/NA	Analysis	8015 NM		1			117026	08/19/25 00:05	SA	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	116909	08/18/25 10:48	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116959	08/19/25 00:05	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	116910	08/18/25 10:38	SI	EET MID
Soluble	Analysis	300.0		1			117005	08/19/25 02:52	CS	EET MID

Client Sample ID: CS 59

Lab Sample ID: 890-8635-10

Date Collected: 08/14/25 09:38

Matrix: Solid

Date Received: 08/15/25 16:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	116981	08/18/25 15:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116871	08/19/25 01:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117034	08/19/25 01:48	SA	EET MID
Total/NA	Analysis	8015 NM		1			117026	08/19/25 00:19	SA	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	116909	08/18/25 10:48	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116959	08/19/25 00:19	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	116910	08/18/25 10:38	SI	EET MID
Soluble	Analysis	300.0		1			117005	08/19/25 02:59	CS	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

Client Sample ID: CS 99

Lab Sample ID: 890-8635-11

Date Collected: 08/18/25 14:27

Matrix: Solid

Date Received: 08/15/25 16:45

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	116981	08/18/25 15:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116871	08/19/25 03:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117034	08/19/25 03:22	SA	EET MID
Total/NA	Analysis	8015 NM		1			117026	08/19/25 00:35	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	116909	08/18/25 10:48	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116959	08/19/25 00:35	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	116910	08/18/25 10:38	SI	EET MID
Soluble	Analysis	300.0		1			117005	08/19/25 03:07	CS	EET MID

Client Sample ID: CS 101

Lab Sample ID: 890-8635-12

Date Collected: 08/14/25 14:31

Matrix: Solid

Date Received: 08/15/25 16:45

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	116981	08/18/25 15:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116871	08/19/25 03:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117034	08/19/25 03:42	SA	EET MID
Total/NA	Analysis	8015 NM		1			117026	08/19/25 00:49	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	116909	08/18/25 10:48	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116959	08/19/25 00:49	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	116910	08/18/25 10:38	SI	EET MID
Soluble	Analysis	300.0		1			117005	08/19/25 03:15	CS	EET MID

Client Sample ID: CS 98

Lab Sample ID: 890-8635-13

Date Collected: 08/14/25 14:25

Matrix: Solid

Date Received: 08/15/25 16:45

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	116981	08/18/25 15:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116871	08/19/25 04:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117034	08/19/25 04:03	SA	EET MID
Total/NA	Analysis	8015 NM		1			117026	08/19/25 01:05	SA	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	116909	08/18/25 10:48	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116959	08/19/25 01:05	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	116910	08/18/25 10:38	SI	EET MID
Soluble	Analysis	300.0		1			117005	08/19/25 08:59	CS	EET MID

Client Sample ID: CS 100

Lab Sample ID: 890-8635-14

Date Collected: 08/14/25 14:29

Matrix: Solid

Date Received: 08/15/25 16:45

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	116981	08/18/25 15:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116871	08/19/25 04:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117034	08/19/25 04:23	SA	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

Client Sample ID: CS 100

Lab Sample ID: 890-8635-14

Date Collected: 08/14/25 14:29

Matrix: Solid

Date Received: 08/15/25 16:45

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			117026	08/19/25 01:34	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	116909	08/18/25 10:48	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116959	08/19/25 01:34	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	116910	08/18/25 10:38	SI	EET MID
Soluble	Analysis	300.0		1			117005	08/19/25 03:24	CS	EET MID

Client Sample ID: CS 95

Lab Sample ID: 890-8635-15

Date Collected: 08/14/25 13:00

Matrix: Solid

Date Received: 08/15/25 16:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	116981	08/18/25 15:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116871	08/19/25 04:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117034	08/19/25 04:44	SA	EET MID
Total/NA	Analysis	8015 NM		1			117026	08/19/25 01:48	SA	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	116909	08/18/25 10:48	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116959	08/19/25 01:48	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	116910	08/18/25 10:38	SI	EET MID
Soluble	Analysis	300.0		1			117005	08/19/25 03:47	CS	EET MID

Client Sample ID: CS 94

Lab Sample ID: 890-8635-16

Date Collected: 08/14/25 13:00

Matrix: Solid

Date Received: 08/15/25 16:45

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	116981	08/18/25 15:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116871	08/19/25 05:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117034	08/19/25 05:04	SA	EET MID
Total/NA	Analysis	8015 NM		1			117026	08/19/25 02:04	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	116909	08/18/25 10:48	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116959	08/19/25 02:04	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	116910	08/18/25 10:38	SI	EET MID
Soluble	Analysis	300.0		1			117005	08/19/25 09:07	CS	EET MID

Client Sample ID: CS 74

Lab Sample ID: 890-8635-17

Date Collected: 08/14/25 10:45

Matrix: Solid

Date Received: 08/15/25 16:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	116981	08/18/25 15:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116871	08/19/25 05:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117034	08/19/25 05:24	SA	EET MID
Total/NA	Analysis	8015 NM		1			117026	08/19/25 02:19	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	116909	08/18/25 10:48	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116959	08/19/25 02:19	TKC	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

Client Sample ID: CS 74**Lab Sample ID: 890-8635-17****Date Collected: 08/14/25 10:45****Matrix: Solid****Date Received: 08/15/25 16:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	116910	08/18/25 10:38	SI	EET MID
Soluble	Analysis	300.0		1			117005	08/19/25 04:17	CS	EET MID

Client Sample ID: CS 85**Lab Sample ID: 890-8635-18****Date Collected: 08/14/25 12:35****Matrix: Solid****Date Received: 08/15/25 16:45**

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	116981	08/18/25 15:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116871	08/19/25 05:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117034	08/19/25 05:45	SA	EET MID
Total/NA	Analysis	8015 NM		1			117026	08/19/25 02:34	SA	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	116909	08/18/25 10:48	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116959	08/19/25 02:34	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	116910	08/18/25 10:38	SI	EET MID
Soluble	Analysis	300.0		1			117005	08/19/25 09:15	CS	EET MID

Client Sample ID: CS 86**Lab Sample ID: 890-8635-19****Date Collected: 08/14/25 12:35****Matrix: Solid****Date Received: 08/15/25 16:45**

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	116981	08/18/25 15:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116871	08/19/25 06:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117034	08/19/25 06:05	SA	EET MID
Total/NA	Analysis	8015 NM		1			117026	08/19/25 02:48	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	116909	08/18/25 10:48	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116959	08/19/25 02:48	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	116910	08/18/25 10:38	SI	EET MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	117005	08/19/25 04:27	CS	EET MID

Client Sample ID: CS 87**Lab Sample ID: 890-8635-20****Date Collected: 08/14/25 12:35****Matrix: Solid****Date Received: 08/15/25 16:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	116981	08/18/25 15:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116871	08/19/25 06:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117034	08/19/25 06:26	SA	EET MID
Total/NA	Analysis	8015 NM		1			117026	08/19/25 03:04	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	116909	08/18/25 10:48	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116959	08/19/25 03:04	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	116910	08/18/25 10:38	SI	EET MID
Soluble	Analysis	300.0		1			117005	08/19/25 04:34	CS	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

Client Sample ID: CS 60
Date Collected: 08/14/25 09:41
Date Received: 08/15/25 16:45

Lab Sample ID: 890-8635-21
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	116982	08/18/25 15:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116870	08/19/25 10:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117034	08/19/25 10:09	SA	EET MID
Total/NA	Analysis	8015 NM		1			117026	08/19/25 03:18	SA	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	116909	08/18/25 10:48	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116959	08/19/25 03:18	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	116910	08/18/25 10:38	SI	EET MID
Soluble	Analysis	300.0		1			117005	08/19/25 04:42	CS	EET MID

Client Sample ID: CS 61
Date Collected: 08/14/25 09:45
Date Received: 08/15/25 16:45

Lab Sample ID: 890-8635-22
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	116982	08/18/25 15:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116870	08/19/25 10:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117034	08/19/25 10:30	SA	EET MID
Total/NA	Analysis	8015 NM		1			117026	08/19/25 03:33	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	116909	08/18/25 10:48	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116959	08/19/25 03:33	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	116910	08/18/25 10:38	SI	EET MID
Soluble	Analysis	300.0		1			117005	08/19/25 04:49	CS	EET MID

Client Sample ID: CS 62
Date Collected: 08/14/25 09:45
Date Received: 08/15/25 16:45

Lab Sample ID: 890-8635-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	116982	08/18/25 15:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116870	08/19/25 10:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117034	08/19/25 10:50	SA	EET MID
Total/NA	Analysis	8015 NM		1			117026	08/19/25 03:47	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	116909	08/18/25 10:48	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116959	08/19/25 03:47	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	116910	08/18/25 10:38	SI	EET MID
Soluble	Analysis	300.0		1			117005	08/19/25 04:57	CS	EET MID

Client Sample ID: CS 63
Date Collected: 08/14/25 09:55
Date Received: 08/15/25 16:45

Lab Sample ID: 890-8635-24
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	116982	08/18/25 15:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116870	08/19/25 11:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117034	08/19/25 11:10	SA	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

Client Sample ID: CS 63
Date Collected: 08/14/25 09:55
Date Received: 08/15/25 16:45

Lab Sample ID: 890-8635-24
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			117026	08/18/25 22:20	SA	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	116911	08/18/25 10:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116921	08/18/25 22:20	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	116913	08/18/25 10:41	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	117007	08/18/25 22:01	CS	EET MID

Client Sample ID: CS 70
Date Collected: 08/14/25 10:25
Date Received: 08/15/25 16:45

Lab Sample ID: 890-8635-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	116982	08/18/25 15:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116870	08/19/25 11:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117034	08/19/25 11:31	SA	EET MID
Total/NA	Analysis	8015 NM		1			117026	08/18/25 23:05	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	116911	08/18/25 10:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116921	08/18/25 23:05	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	116913	08/18/25 10:41	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	117007	08/18/25 22:18	CS	EET MID

Client Sample ID: CS 73
Date Collected: 08/14/25 10:33
Date Received: 08/15/25 16:45

Lab Sample ID: 890-8635-26
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	116982	08/18/25 15:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116870	08/19/25 11:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117034	08/19/25 11:51	SA	EET MID
Total/NA	Analysis	8015 NM		1			117026	08/18/25 23:20	SA	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	116911	08/18/25 10:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116921	08/18/25 23:20	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	116913	08/18/25 10:41	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	117007	08/18/25 22:23	CS	EET MID

Client Sample ID: CS 77
Date Collected: 08/14/25 10:49
Date Received: 08/15/25 16:45

Lab Sample ID: 890-8635-27
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	116982	08/18/25 15:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116870	08/19/25 12:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117034	08/19/25 12:12	SA	EET MID
Total/NA	Analysis	8015 NM		1			117026	08/18/25 23:35	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	116911	08/18/25 10:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116921	08/18/25 23:35	TKC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

Client Sample ID: CS 77

Lab Sample ID: 890-8635-27

Date Collected: 08/14/25 10:49

Matrix: Solid

Date Received: 08/15/25 16:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	116913	08/18/25 10:41	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	117007	08/18/25 22:29	CS	EET MID

Client Sample ID: CS 80

Lab Sample ID: 890-8635-28

Date Collected: 08/14/25 10:58

Matrix: Solid

Date Received: 08/15/25 16:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	116982	08/18/25 15:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116870	08/19/25 12:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117034	08/19/25 12:32	SA	EET MID
Total/NA	Analysis	8015 NM		1			117026	08/18/25 23:49	SA	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	116911	08/18/25 10:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116921	08/18/25 23:49	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	116913	08/18/25 10:41	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	117007	08/18/25 22:35	CS	EET MID

Client Sample ID: CS 72

Lab Sample ID: 890-8635-29

Date Collected: 08/14/25 10:31

Matrix: Solid

Date Received: 08/15/25 16:45

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	116982	08/18/25 15:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116870	08/19/25 12:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117034	08/19/25 12:53	SA	EET MID
Total/NA	Analysis	8015 NM		1			117026	08/19/25 00:05	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	116911	08/18/25 10:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116921	08/19/25 00:05	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	116913	08/18/25 10:41	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	117007	08/18/25 22:52	CS	EET MID

Client Sample ID: CS 84

Lab Sample ID: 890-8635-30

Date Collected: 08/14/25 12:17

Matrix: Solid

Date Received: 08/15/25 16:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	116982	08/18/25 15:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116870	08/19/25 13:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117034	08/19/25 13:13	SA	EET MID
Total/NA	Analysis	8015 NM		1			117026	08/19/25 00:19	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	116911	08/18/25 10:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116921	08/19/25 00:19	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	116913	08/18/25 10:41	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	117007	08/18/25 22:57	CS	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

Client Sample ID: CS 78
Date Collected: 08/14/25 10:53
Date Received: 08/15/25 16:45

Lab Sample ID: 890-8635-31
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	116997	08/18/25 16:10	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116871	08/19/25 09:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117034	08/19/25 09:41	SA	EET MID
Total/NA	Analysis	8015 NM		1			117026	08/19/25 00:35	SA	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	116911	08/18/25 10:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116921	08/19/25 00:35	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	116913	08/18/25 10:41	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	117007	08/18/25 23:03	CS	EET MID

Client Sample ID: CS 71
Date Collected: 08/14/25 10:29
Date Received: 08/15/25 16:45

Lab Sample ID: 890-8635-32
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	116997	08/18/25 16:10	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116871	08/19/25 10:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117034	08/19/25 10:22	SA	EET MID
Total/NA	Analysis	8015 NM		1			117026	08/19/25 00:49	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	116911	08/18/25 10:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116921	08/19/25 00:49	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	116913	08/18/25 10:41	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	117007	08/18/25 23:09	CS	EET MID

Client Sample ID: CS 75
Date Collected: 08/14/25 10:45
Date Received: 08/15/25 16:45

Lab Sample ID: 890-8635-33
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	116997	08/18/25 16:10	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116871	08/19/25 10:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117034	08/19/25 10:42	SA	EET MID
Total/NA	Analysis	8015 NM		1			117026	08/19/25 01:05	SA	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	116911	08/18/25 10:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116921	08/19/25 01:05	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	116913	08/18/25 10:41	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	117007	08/18/25 23:14	CS	EET MID

Client Sample ID: CS 79
Date Collected: 08/14/25 10:55
Date Received: 08/15/25 16:45

Lab Sample ID: 890-8635-34
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	116997	08/18/25 16:10	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116871	08/19/25 11:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117034	08/19/25 11:02	SA	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

Client Sample ID: CS 79
Date Collected: 08/14/25 10:55
Date Received: 08/15/25 16:45

Lab Sample ID: 890-8635-34
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			117026	08/19/25 01:34	SA	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	116911	08/18/25 10:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116921	08/19/25 01:34	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	116913	08/18/25 10:41	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	117007	08/18/25 23:20	CS	EET MID

Client Sample ID: CS 76
Date Collected: 08/14/25 10:47
Date Received: 08/15/25 16:45

Lab Sample ID: 890-8635-35
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	116997	08/18/25 16:10	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116871	08/19/25 11:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117034	08/19/25 11:23	SA	EET MID
Total/NA	Analysis	8015 NM		1			117026	08/19/25 01:48	SA	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	116911	08/18/25 10:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116921	08/19/25 01:48	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	116913	08/18/25 10:41	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	117007	08/18/25 23:37	CS	EET MID

Client Sample ID: CS 83
Date Collected: 08/14/25 12:15
Date Received: 08/15/25 16:45

Lab Sample ID: 890-8635-36
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	116997	08/18/25 16:10	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116871	08/19/25 11:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117034	08/19/25 11:43	SA	EET MID
Total/NA	Analysis	8015 NM		1			117026	08/19/25 02:04	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	116911	08/18/25 10:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116921	08/19/25 02:04	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	116913	08/18/25 10:41	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	117007	08/18/25 23:43	CS	EET MID

Client Sample ID: CS 96
Date Collected: 08/14/25 12:58
Date Received: 08/15/25 16:45

Lab Sample ID: 890-8635-37
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	116997	08/18/25 16:10	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116871	08/19/25 12:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117034	08/19/25 12:04	SA	EET MID
Total/NA	Analysis	8015 NM		1			117026	08/19/25 02:19	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	116911	08/18/25 10:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116921	08/19/25 02:19	TKC	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

Client Sample ID: CS 96**Lab Sample ID: 890-8635-37****Date Collected: 08/14/25 12:58****Matrix: Solid****Date Received: 08/15/25 16:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	116913	08/18/25 10:41	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	117007	08/19/25 00:00	CS	EET MID

Client Sample ID: CS 81**Lab Sample ID: 890-8635-38****Date Collected: 08/14/25 12:10****Matrix: Solid****Date Received: 08/15/25 16:45**

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	116997	08/18/25 16:10	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116871	08/19/25 12:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117034	08/19/25 12:24	SA	EET MID
Total/NA	Analysis	8015 NM		1			117026	08/19/25 02:34	SA	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	116911	08/18/25 10:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116921	08/19/25 02:34	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	116913	08/18/25 10:41	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	117007	08/19/25 00:05	CS	EET MID

Client Sample ID: CS 89**Lab Sample ID: 890-8635-39****Date Collected: 08/14/25 12:38****Matrix: Solid****Date Received: 08/15/25 16:45**

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	116997	08/18/25 16:10	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116871	08/19/25 12:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117034	08/19/25 12:44	SA	EET MID
Total/NA	Analysis	8015 NM		1			117026	08/19/25 02:48	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	116911	08/18/25 10:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116921	08/19/25 02:48	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	116913	08/18/25 10:41	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	117007	08/19/25 00:11	CS	EET MID

Client Sample ID: CS 82**Lab Sample ID: 890-8635-40****Date Collected: 08/14/25 12:13****Matrix: Solid****Date Received: 08/15/25 16:45**

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	116997	08/18/25 16:10	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116871	08/19/25 14:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117034	08/19/25 14:19	SA	EET MID
Total/NA	Analysis	8015 NM		1			117026	08/19/25 03:04	SA	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	116911	08/18/25 10:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116921	08/19/25 03:04	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	116913	08/18/25 10:41	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	117007	08/19/25 00:17	CS	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

Client Sample ID: CS 91

Lab Sample ID: 890-8635-41

Date Collected: 08/14/25 12:47

Matrix: Solid

Date Received: 08/15/25 16:45

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	116868	08/18/25 16:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116870	08/18/25 17:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117034	08/18/25 17:13	SA	EET MID
Total/NA	Analysis	8015 NM		1			117026	08/19/25 03:18	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	116911	08/18/25 10:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116921	08/19/25 03:18	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	116913	08/18/25 10:41	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	117007	08/19/25 00:22	CS	EET MID

Client Sample ID: CS 90

Lab Sample ID: 890-8635-42

Date Collected: 08/14/25 12:40

Matrix: Solid

Date Received: 08/15/25 16:45

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	116868	08/18/25 16:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116870	08/18/25 17:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117034	08/18/25 17:33	SA	EET MID
Total/NA	Analysis	8015 NM		1			117026	08/19/25 03:33	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	116911	08/18/25 10:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116921	08/19/25 03:33	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	116913	08/18/25 10:41	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	117007	08/19/25 00:28	CS	EET MID

Client Sample ID: CS 88

Lab Sample ID: 890-8635-43

Date Collected: 08/14/25 12:35

Matrix: Solid

Date Received: 08/15/25 16:45

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	116868	08/18/25 16:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116870	08/18/25 17:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117034	08/18/25 17:54	SA	EET MID
Total/NA	Analysis	8015 NM		1			117026	08/19/25 03:47	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	116911	08/18/25 10:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116921	08/19/25 03:47	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	116913	08/18/25 10:41	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	117007	08/19/25 00:34	CS	EET MID

Client Sample ID: CS 97

Lab Sample ID: 890-8635-44

Date Collected: 08/14/25 13:00

Matrix: Solid

Date Received: 08/15/25 16:45

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	116868	08/18/25 16:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116870	08/18/25 18:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117034	08/18/25 18:14	SA	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

Client Sample ID: CS 97
Date Collected: 08/14/25 13:00
Date Received: 08/15/25 16:45

Lab Sample ID: 890-8635-44
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			117026	08/19/25 09:45	SA	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	116912	08/18/25 10:52	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	117019	08/19/25 09:45	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	116914	08/18/25 10:43	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	117008	08/19/25 01:19	CS	EET MID

Client Sample ID: CS 19
Date Collected: 08/14/25 16:10
Date Received: 08/15/25 16:45

Lab Sample ID: 890-8635-45
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	116868	08/18/25 16:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116870	08/18/25 18:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117034	08/18/25 18:35	SA	EET MID
Total/NA	Analysis	8015 NM		1			117026	08/19/25 10:29	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	116912	08/18/25 10:52	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	117019	08/19/25 10:29	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	116914	08/18/25 10:43	SI	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	117008	08/19/25 01:36	CS	EET MID

Client Sample ID: CS 18
Date Collected: 08/14/25 16:08
Date Received: 08/15/25 16:45

Lab Sample ID: 890-8635-46
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	116868	08/18/25 16:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116870	08/18/25 18:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117034	08/18/25 18:55	SA	EET MID
Total/NA	Analysis	8015 NM		1			117026	08/19/25 10:44	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	116912	08/18/25 10:52	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	117019	08/19/25 10:44	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	116914	08/18/25 10:43	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	117008	08/19/25 01:42	CS	EET MID

Client Sample ID: CS 16
Date Collected: 08/14/25 14:04
Date Received: 08/15/25 16:45

Lab Sample ID: 890-8635-47
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	116868	08/18/25 16:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116870	08/18/25 19:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117034	08/18/25 19:15	SA	EET MID
Total/NA	Analysis	8015 NM		1			117026	08/19/25 10:59	SA	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	116912	08/18/25 10:52	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	117019	08/19/25 10:59	TKC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

Client Sample ID: CS 16

Lab Sample ID: 890-8635-47

Date Collected: 08/14/25 14:04

Matrix: Solid

Date Received: 08/15/25 16:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	116914	08/18/25 10:43	SI	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	117008	08/19/25 01:47	CS	EET MID

Client Sample ID: CS 14

Lab Sample ID: 890-8635-48

Date Collected: 08/14/25 16:01

Matrix: Solid

Date Received: 08/15/25 16:45

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	116868	08/18/25 16:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116870	08/18/25 19:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117034	08/18/25 19:36	SA	EET MID
Total/NA	Analysis	8015 NM		1			117026	08/19/25 11:14	SA	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	116912	08/18/25 10:52	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	117019	08/19/25 11:14	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	116914	08/18/25 10:43	SI	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	117008	08/19/25 01:53	CS	EET MID

Client Sample ID: CS 09

Lab Sample ID: 890-8635-49

Date Collected: 08/14/25 14:50

Matrix: Solid

Date Received: 08/15/25 16:45

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	116868	08/18/25 16:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116870	08/18/25 19:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117034	08/18/25 19:56	SA	EET MID
Total/NA	Analysis	8015 NM		1			117026	08/19/25 11:29	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	116912	08/18/25 10:52	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	117019	08/19/25 11:29	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	116914	08/18/25 10:43	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	117008	08/19/25 02:10	CS	EET MID

Client Sample ID: CS 10

Lab Sample ID: 890-8635-50

Date Collected: 08/14/25 14:48

Matrix: Solid

Date Received: 08/15/25 16:45

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	116998	08/18/25 16:15	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116996	08/19/25 07:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117034	08/19/25 07:45	SA	EET MID
Total/NA	Analysis	8015 NM		1			117026	08/19/25 11:43	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	116912	08/18/25 10:52	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	117019	08/19/25 11:43	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	116914	08/18/25 10:43	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	117008	08/19/25 02:16	CS	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

Client Sample ID: CS 20
Date Collected: 08/14/25 14:12
Date Received: 08/15/25 16:45

Lab Sample ID: 890-8635-51
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	116997	08/19/25 09:44	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116871	08/19/25 14:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117034	08/19/25 14:39	SA	EET MID
Total/NA	Analysis	8015 NM		1			117026	08/19/25 11:58	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	116912	08/18/25 10:52	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	117019	08/19/25 11:58	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	116914	08/18/25 10:43	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	117008	08/19/25 02:21	CS	EET MID

Client Sample ID: CS 13
Date Collected: 08/14/25 14:58
Date Received: 08/15/25 16:45

Lab Sample ID: 890-8635-52
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	116997	08/19/25 09:44	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116871	08/19/25 15:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117034	08/19/25 15:00	SA	EET MID
Total/NA	Analysis	8015 NM		1			117026	08/19/25 12:13	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	116912	08/18/25 10:52	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	117019	08/19/25 12:13	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	116914	08/18/25 10:43	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	117008	08/19/25 02:27	CS	EET MID

Client Sample ID: CS 17
Date Collected: 08/14/25 14:06
Date Received: 08/15/25 16:45

Lab Sample ID: 890-8635-53
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	116998	08/18/25 16:15	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116996	08/19/25 08:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117034	08/19/25 08:06	SA	EET MID
Total/NA	Analysis	8015 NM		1			117026	08/19/25 12:28	SA	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	116912	08/18/25 10:52	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	117019	08/19/25 12:28	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	116914	08/18/25 10:43	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	117008	08/19/25 02:33	CS	EET MID

Client Sample ID: CS 15
Date Collected: 08/14/25 16:02
Date Received: 08/15/25 16:45

Lab Sample ID: 890-8635-54
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	116998	08/18/25 16:15	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116996	08/19/25 08:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117034	08/19/25 08:26	SA	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

Client Sample ID: CS 15
Date Collected: 08/14/25 16:02
Date Received: 08/15/25 16:45

Lab Sample ID: 890-8635-54
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			117026	08/19/25 12:43	SA	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	116912	08/18/25 10:52	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	117019	08/19/25 12:43	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	116914	08/18/25 10:43	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	117008	08/19/25 02:38	CS	EET MID

Client Sample ID: CS 12
Date Collected: 08/14/25 14:56
Date Received: 08/15/25 16:45

Lab Sample ID: 890-8635-55
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	116998	08/18/25 16:15	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116996	08/19/25 12:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117034	08/19/25 12:40	SA	EET MID
Total/NA	Analysis	8015 NM		1			117026	08/19/25 13:10	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	116912	08/18/25 10:52	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	117019	08/19/25 13:10	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	116914	08/18/25 10:43	SI	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	117008	08/19/25 02:55	CS	EET MID

Client Sample ID: CS 11
Date Collected: 08/14/25 14:54
Date Received: 08/15/25 16:45

Lab Sample ID: 890-8635-56
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	116998	08/18/25 16:15	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116996	08/19/25 13:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117034	08/19/25 13:00	SA	EET MID
Total/NA	Analysis	8015 NM		1			117026	08/19/25 13:29	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	116912	08/18/25 10:52	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	117019	08/19/25 13:29	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	116914	08/18/25 10:43	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	117008	08/19/25 03:01	CS	EET MID

Client Sample ID: CS 102
Date Collected: 08/14/25 14:32
Date Received: 08/15/25 16:45

Lab Sample ID: 890-8635-57
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	116998	08/18/25 16:15	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116996	08/19/25 13:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117034	08/19/25 13:20	SA	EET MID
Total/NA	Analysis	8015 NM		1			117026	08/19/25 13:44	SA	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	116912	08/18/25 10:52	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	117019	08/19/25 13:44	TKC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

Client Sample ID: CS 102
Date Collected: 08/14/25 14:32
Date Received: 08/15/25 16:45

Lab Sample ID: 890-8635-57
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	116914	08/18/25 10:43	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	117008	08/19/25 03:18	CS	EET MID

Laboratory References:

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

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Accreditation/Certification Summary

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

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	06-30-26
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: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

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: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
890-8635-1	CS 92	Solid	08/14/25 12:50	08/15/25 16:45	New Mexico
890-8635-2	CS 93	Solid	08/14/25 12:50	08/15/25 16:45	New Mexico
890-8635-3	CS 69	Solid	08/14/25 10:15	08/15/25 16:45	New Mexico
890-8635-4	CS 68	Solid	08/14/25 10:15	08/15/25 16:45	New Mexico
890-8635-5	CS 67	Solid	08/14/25 10:15	08/15/25 16:45	New Mexico
890-8635-6	CS 66	Solid	08/14/25 10:02	08/15/25 16:45	New Mexico
890-8635-7	CS 65	Solid	08/14/25 10:02	08/15/25 16:45	New Mexico
890-8635-8	CS 64	Solid	08/14/25 09:55	08/15/25 16:45	New Mexico
890-8635-9	CS 58	Solid	08/14/25 09:35	08/15/25 16:45	New Mexico
890-8635-10	CS 59	Solid	08/14/25 09:38	08/15/25 16:45	New Mexico
890-8635-11	CS 99	Solid	08/18/25 14:27	08/15/25 16:45	New Mexico
890-8635-12	CS 101	Solid	08/14/25 14:31	08/15/25 16:45	New Mexico
890-8635-13	CS 98	Solid	08/14/25 14:25	08/15/25 16:45	New Mexico
890-8635-14	CS 100	Solid	08/14/25 14:29	08/15/25 16:45	New Mexico
890-8635-15	CS 95	Solid	08/14/25 13:00	08/15/25 16:45	New Mexico
890-8635-16	CS 94	Solid	08/14/25 13:00	08/15/25 16:45	New Mexico
890-8635-17	CS 74	Solid	08/14/25 10:45	08/15/25 16:45	New Mexico
890-8635-18	CS 85	Solid	08/14/25 12:35	08/15/25 16:45	New Mexico
890-8635-19	CS 86	Solid	08/14/25 12:35	08/15/25 16:45	New Mexico
890-8635-20	CS 87	Solid	08/14/25 12:35	08/15/25 16:45	New Mexico
890-8635-21	CS 60	Solid	08/14/25 09:41	08/15/25 16:45	New Mexico
890-8635-22	CS 61	Solid	08/14/25 09:45	08/15/25 16:45	New Mexico
890-8635-23	CS 62	Solid	08/14/25 09:45	08/15/25 16:45	New Mexico
890-8635-24	CS 63	Solid	08/14/25 09:55	08/15/25 16:45	New Mexico
890-8635-25	CS 70	Solid	08/14/25 10:25	08/15/25 16:45	New Mexico
890-8635-26	CS 73	Solid	08/14/25 10:33	08/15/25 16:45	New Mexico
890-8635-27	CS 77	Solid	08/14/25 10:49	08/15/25 16:45	New Mexico
890-8635-28	CS 80	Solid	08/14/25 10:58	08/15/25 16:45	New Mexico
890-8635-29	CS 72	Solid	08/14/25 10:31	08/15/25 16:45	New Mexico
890-8635-30	CS 84	Solid	08/14/25 12:17	08/15/25 16:45	New Mexico
890-8635-31	CS 78	Solid	08/14/25 10:53	08/15/25 16:45	New Mexico
890-8635-32	CS 71	Solid	08/14/25 10:29	08/15/25 16:45	New Mexico
890-8635-33	CS 75	Solid	08/14/25 10:45	08/15/25 16:45	New Mexico
890-8635-34	CS 79	Solid	08/14/25 10:55	08/15/25 16:45	New Mexico
890-8635-35	CS 76	Solid	08/14/25 10:47	08/15/25 16:45	New Mexico
890-8635-36	CS 83	Solid	08/14/25 12:15	08/15/25 16:45	New Mexico
890-8635-37	CS 96	Solid	08/14/25 12:58	08/15/25 16:45	New Mexico
890-8635-38	CS 81	Solid	08/14/25 12:10	08/15/25 16:45	New Mexico
890-8635-39	CS 89	Solid	08/14/25 12:38	08/15/25 16:45	New Mexico
890-8635-40	CS 82	Solid	08/14/25 12:13	08/15/25 16:45	New Mexico
890-8635-41	CS 91	Solid	08/14/25 12:47	08/15/25 16:45	New Mexico
890-8635-42	CS 90	Solid	08/14/25 12:40	08/15/25 16:45	New Mexico
890-8635-43	CS 88	Solid	08/14/25 12:35	08/15/25 16:45	New Mexico
890-8635-44	CS 97	Solid	08/14/25 13:00	08/15/25 16:45	New Mexico
890-8635-45	CS 19	Solid	08/14/25 16:10	08/15/25 16:45	New Mexico
890-8635-46	CS 18	Solid	08/14/25 16:08	08/15/25 16:45	New Mexico
890-8635-47	CS 16	Solid	08/14/25 14:04	08/15/25 16:45	New Mexico
890-8635-48	CS 14	Solid	08/14/25 16:01	08/15/25 16:45	New Mexico
890-8635-49	CS 09	Solid	08/14/25 14:50	08/15/25 16:45	New Mexico
890-8635-50	CS 10	Solid	08/14/25 14:48	08/15/25 16:45	New Mexico
890-8635-51	CS 20	Solid	08/14/25 14:12	08/15/25 16:45	New Mexico
890-8635-52	CS 13	Solid	08/14/25 14:58	08/15/25 16:45	New Mexico
890-8635-53	CS 17	Solid	08/14/25 14:06	08/15/25 16:45	New Mexico

Eurofins Carlsbad

Sample Summary

Client: Ensolum
Project/Site: JRU 076

Job ID: 890-8635-1
SDG: 03C1558702

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
890-8635-54	CS 15	Solid	08/14/25 16:02	08/15/25 16:45	New Mexico
890-8635-55	CS 12	Solid	08/14/25 14:56	08/15/25 16:45	New Mexico
890-8635-56	CS 11	Solid	08/14/25 14:54	08/15/25 16:45	New Mexico
890-8635-57	CS 102	Solid	08/14/25 14:32	08/15/25 16:45	New Mexico

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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) 794-1286
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199



Environment Testing
Xenco

Work Order No:

www.xenco.com Page 2 of 6

Project Manager: Ashley Holmes		Bill to: (if different)	
Company Name: Ensolum		Company Name: XTO Energy, Inc	
Address: 3122 National Parks Hwy		Address: 3104 E Greene St.	
City, State ZIP: Carlsbad, NM 88220		City, State ZIP: Carlsbad, NM. 88220	
Phone: (713) 817-1947		Email: aholmes@ensolum.com	

Project Name: JRU 076		Turn Around	
Project Number: 03C1558702		☐ Routine ☒ Rush 48h	
Project Location: 32.33517, -103.824353		Due Date: 08/19/25	
Sampler's Name: Trevor Wargo		TAT starts the day received by the lab, if received by 4:30pm	
PO #:		Wet Ice:	☒ Yes ☐ No
Temp Blank: Yes ☒ No ☐		Thermometer ID: <u>6.2</u>	
Cooler Custody Seals: Yes ☒ No ☐		Correction Factor: <u>-0.2</u>	
Sample Custody Seals: Yes ☒ No ☐		Temperature Reading: <u>6.2</u>	
Total Containers:		Corrected Temperature:	

SAMPLE RECEIPT				Turn Around		Parameters		ANALYSIS REQUEST																Preservative Codes	
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grabi/Comp	# of Cont	Pres. Code																		
CS 41	Soil	08/14/25	14:27	Surface	✓	1		Chloride 4500																None: NO	DI Water: H ₂ O
CS 404	Soil		14:31		✓	1		BTEX 8022																Cool: Cool	MeOH: Me
CS 48	Soil		14:25		✓	1		TPH 8025																HCL: HC	HNO ₃ : HN
CS 100	Soil		13:00		✓	1																		H ₂ SO ₄ : H ₂	NaOH: Na
CS 95	Soil		13:00		✓	1																		H ₃ PO ₄ : HP	
CS 94	Soil		12:45		✓	1																		NaHSO ₄ : NABIS	
CS 74	Soil		12:35		✓	1																		Na ₂ S ₂ O ₃ : NaSO ₃	
CS 83	Soil		12:35		✓	1																		Zn Acetate+NaOH: Zn	
CS 86	Soil		12:35		✓	1																		NaOH+Ascorbic Acid: SAPC	
CS 87	Soil		12:35		✓	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 Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed	TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471		

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions for 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 \$65.00 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
<i>Trevor Wargo</i>	<i>Sam</i>	8/15 16:45			

Revised Date: 06/26/2020 Rev. 2020.2

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



Environment Testing
Xenoco

Work Order No: _____

www.xenoco.com Page 3 of 6

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 Manager: Ashley Holmes

Company Name: Ensolum

Address: 3122 National Parks Hwy

City, State ZIP: Carlsbad, NM 88220

Phone: (713) 817-1947

Bill to: (if different)

Company Name: XTO Energy, Inc

Address: 3104 E Greene St.

City, State ZIP: Carlsbad, NM, 88220

Email: Aholmes@ensolum.com

ANALYSIS REQUEST				Preservative Codes	
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp Cont
CS 69	Soil	08/14/25	9:47	Surface	C
CS 61			9:45		
CS 62			9:45		
CS 63			9:55		
CS 70			10:25		
CS 73			10:33		
CS 77			10:49		
CS 80			10:58		
CS 79			10:31		
CS 84			12:17		

Handwritten notes: TPH 8025, BTEX 8027, Chloride 4500

Turn Around: ☐ Routine ☒ Rush 48h

Due Date: 08/19/25

TAT starts the day received by the lab, if received by 4:30pm

Wet Ice: ☒ Yes ☐ No

Thermometer ID: 20.2

Cooler Custody Seals: Yes ☒ No ☐ N/A

Temperature Reading: 6.4

Sample Custody Seals: Yes ☒ No ☐ N/A

Corrected Temperature: 6.2

Preservative Codes: None: NO, DI Water: H₂O, Cool: Cool, MeOH: Me, HCL: HC, HNO₃: HN, H₂SO₄: H₂, NaOH: Na, H₃PO₄: HP, NaHSO₄: NABIS, Na₂S₂O₃: NaSO₃, Zn Acetate+NaOH: Zn, NaOH+Ascorbic Acid: SAPC

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn

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

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenoco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenoco 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 Xenoco. A minimum charge of \$45.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenoco, 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
<i>[Signature]</i>	<i>[Signature]</i>	8/15/25			

Revised Date: 08/25/2020 Rev. 2020.2



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) 332-7550, Carlsbad, NM (575) 988-3199

Environment Testing
Xenco

Work Order No:

Page 1 of 4
www.xenco.com

Project Manager: Ashley Holmes		Bill to: (if different) XTO Energy, Inc	
Company Name: Ensolum		Company Name: 3104 E Greene St.	
Address: 3122 National Parks Hwy		Address: Carlsbad, NM, 88220	
City, State ZIP: (713) 817-1947		City, State ZIP: Carlsbad, NM, 88220	
Phone:		Email: Aholmes@ensolum.com	

Project Name: JRU 076		Turn Around ☐ Routine ☒ Rush 48h		Pres. Code	
Project Number: 03C1558702		Due Date: 08/19/25		Parameters	
Project Location: 32.33517, -103.824353		TAT starts the day received by the lab, if received by 4:30pm		TAT 8015	
Sample Name: Trevor Wargo		Temp Blank: Yes ☒ No ☐		Wet Ice: Yes ☒ No ☐	
PO #:		Thermometer ID:		Thermometer ID:	
SAMPLE RECEIPT		Cooler Custody Seals:		Cooler Custody Seals:	
Samples Received Intact:		Cooler Custody Seals:		Cooler Custody Seals:	
Sample Custody Seals:		Temperature Reading:		Temperature Reading:	
Total Containers:		Corrected Temperature:		Corrected Temperature:	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont
CS 71	Soil	08/14/25	10:29	Surface	C	1
CS 72			10:45			
CS 73			10:55			
CS 74			10:47			
CS 75			12:15			
CS 76			12:58			
CS 77			12:10			
CS 78			12:38			
CS 79			12:33			
CS 80						
CS 81						
CS 82						

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

Relinquished by: (Signature) Trevor Wargo		Received by: (Signature) Dawn		Date/Time 8/15/25	
Relinquished by: (Signature)		Received by: (Signature)		Date/Time	

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



Environment Testing
Xenco

Work Order No: _____

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Project Manager: Ashley Holmes		Bill to: (if different)		Company Name: XTO Energy, Inc	
Company Name: Ensolum		Company Name:		3104 E Greene St.	
Address: 3122 National Parks Hwy		Address:		Carlsbad, NM, 88220	
City, State ZIP: Carlsbad, NM 88220		City, State ZIP:		Carlsbad, NM, 88220	
Phone: (713) 817-1947		Email: Aholmes@ensolum.com			

Project Name: JRU 076		Turn Around		Pres. Code	
Project Number: 03C1558702		☐ Routine ☒ Rush 48h			
Project Location: 32-33517, -103.824353		Due Date: 08/19/25			
Sampler's Name: Trevor Wargo		TAT starts the day received by the lab, if received by 4:30pm			
PO #:		Wet Ice: ☒ Yes ☐ No			
SAMPLE RECEIPT		Thermometer ID: T-0.2			
Samples Received Intact: Yes ☒ No ☐		Correction Factor: -0.2			
Cooler Custody Seals: Yes ☒ No ☐		Temperature Reading: 6.2			
Sample Custody Seals: Yes ☒ No ☐		Corrected Temperature:			
Total Containers:					

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ # of Comp Cont	ANALYSIS REQUEST	Preservative Codes	Sample Comments
CS 91	Soil	08/14/25	12:47	Surface	1		None: NO Cool: DI Water: H ₂ O HCL: MeOH: Me H ₂ SO ₄ : HNO ₃ : HN H ₂ SO ₄ : H ₂ NaOH: Na H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC	
CS 90			12:49					
CS 88			12:55					
CS 97			13:00					
CS 99			16:30					
CS 18			16:08					
CS 16			14:04					
CS 14			16:01					
CS 99			14:50					
CS 20			14:48					

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

Relinquished by: (Signature)		Received by: (Signature)		Date/Time	
1. [Signature]		[Signature]		8/15/16 4:30	
3. [Signature]					
5. [Signature]					

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.

Revised Date: 06/25/2020 Rev. 2020.2

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



Environment Testing
Xenco

Work Order No: _____

www.xenco.com Page 6 of 2

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 Manager: Ashley Holmes
Company Name: Ensolum
Address: 3122 National Parks Hwy
City, State ZIP: Carlsbad, NM 88220
Phone: (713) 817-1947
Email: Aholmes@ensolum.com

Bill to: (if different)
Company Name: XTO Energy, Inc
Address: 3104 E Greene St
City, State ZIP: Carlsbad, NM, 88220

ANALYSIS REQUEST

Project Name: JRU 076
Project Number: 03C1558702
Project Location: 32-33517, -103.824353
Sampler's Name: Trevor Wargo
PO #: _____

SAMPLE RECEIPT
Samples Received Intact: Yes ☒ No ☐
Cooler Custody Seals: Yes ☒ No ☐
Sample Custody Seals: Yes ☒ No ☐
Total Containers: _____

Turn Around: ☐ Routine ☒ Rush 48h
Due Date: 08/19/25
TAT start the day received by the lab, if received by 4:30pm
Wet Ice: Yes ☒ No ☐
Thermometer ID: 0-0.2
Correction Factor: 6.4
Temperature Reading: 6.4
Corrected Temperature: 6.4

Preservative Codes
None: NO
DI Water: H₂O
Cool: Cool
MeOH: Me
HCL: HC
HNO₃: HN
H₂SO₄: H₂
NaOH: Na
H₃PO₄: HP
NaHSO₄: NABIS
Na₂S₂O₃: NaSO₃
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ # of Comp	Parameters	Pres. Code
CS20	Sed	08/14/25	14:12	Surface	1	TPH 8015 Chloride 9500 BTEX 8021	
CS13			14:58				
CS17			14:06				
CS15			16:02				
CS12			14:56				
CS11			14:54				
CS102			14:52				

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

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$95.00 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.

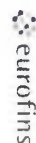
Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Date/Time
<i>Trevor Wargo</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	8/15/25	8/15/25

Revised Date: 08/25/2020 Rev. 2020.2

Eurofins Carlsbad

1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



Environmental Testing

Client Information (Sub Contract Lab)										Sampler	Lab PM	Carrier Tracking No(s)	CC# No.										
Client Contact										N/A	Kramer, Jessica	N/A	890-5677.1										
Shipping/Receiving										Phone	E-Mail	State of Origin:	Page										
Company										N/A	Jessica.Kramer@eurofinsus.com	New Mexico	Page 1 of 7										
Eurofins Environment Testing South Center										Accreditations Required (See note)		Job #											
Address										NELAP - Texas		890-8635-1											
City:										Analysis Requested		Preservation Codes:											
1211 W. Florida Ave.																							
State, Zip:																							
TX, 79701																							
Midland																							
Phone:																							
432-704-5440(Tel)																							
Email																							
N/A																							
Project Name																							
JRU 076																							
Site																							
SSOW#																							
N/A																							
Other:																							
N/A																							
Sample Identification - Client ID (Lab ID)										Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=solid, O=overhead, BT=Breath, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_Calc	Total BTEX_GCV	8015MOD_NM/8015NM_S_Prep(MOD) Full TPH	300_ORGFM_28D/DI_LEACHChloride	8021B/5035FP_Calc(MOD) BTEX	Total Number of containers	Special Instructions/Note:	
CS 92 (890-8635-1)										8/14/25	12:50	G	Solid	X	X	X	X	X	X	X	X	1	
CS 93 (890-8635-2)										8/14/25	12:50	G	Solid	X	X	X	X	X	X	X	X	1	
CS 69 (890-8635-3)										8/14/25	10:15	G	Solid	X	X	X	X	X	X	X	X	1	
CS 68 (890-8635-4)										8/14/25	10:15	G	Solid	X	X	X	X	X	X	X	X	1	
CS 67 (890-8635-5)										8/14/25	10:15	G	Solid	X	X	X	X	X	X	X	X	1	
CS 66 (890-8635-6)										8/14/25	10:02	G	Solid	X	X	X	X	X	X	X	X	1	
CS 65 (890-8635-7)										8/14/25	10:02	G	Solid	X	X	X	X	X	X	X	X	1	
CS 64 (890-8635-8)										8/14/25	09:55	G	Solid	X	X	X	X	X	X	X	X	1	
CS 58 (890-8635-9)										8/14/25	09:35	G	Solid	X	X	X	X	X	X	X	X	1	

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

Possible Hazard Identification

Unconfirmed

Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

Special Instructions/QC Requirements:

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months

Empty Kit Relinquished by: Date: Time: Method of Shipment:

Reinforced by: 8/18/2022 12:00 Company Received by: Date: Time: Company

Reinforced by: Date: Time: Company Received by: Date: Time: Company

Custody Seals Intact: Custody Seal No.: Cooler Temperature(s) °C and Other Remarks: 4.4/4.3 -1 12.8

Chain of Custody Record

1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199



Environmental Testing

Client Information (Sub Contract Lab)						Lab PM:	Carrier Tracking No(s)	CCO No.					
Client Contact	N/A	Kramer, Jessica	N/A	890-5677.2									
Shipping/Receiving	Phone	Jessica.Kramer@et.eurofinsus.com	E-Mail:	New Mexico	Page 2 of 7								
Company	N/A	Accreditations Required (See note):	NE-LAP - Texas	Job #	890-8635-1								
Eurofins Environment Testing South Center				Analysis Requested		Preservation Codes:							
Address:	1211 W. Florida Ave.	Due Date Requested:	8/20/2025										
City:	Midland	TAT Requested (days):	N/A										
State, Zip:	TX, 79701	PO #:	N/A										
Phone:	432-704-5440(Tel)	WO #:	N/A										
Email:	N/A	Project #:	89000110										
Project Name:	JRU 076	SSOW#:	N/A										
Site:	N/A	Field Filtered Sample (Yes or No)	X										
Perform MS/MSD (Yes or No)													
8015MOD_Calc													
Total_BTEX_GCV													
8015MOD_NM/8015NM_S_Prep(MOD) Full TPH													
300_ORGFM_28D/DI_LEACHChloride													
8021B/5035FP_Calc(MOD) BTEX													
Total Number of containers													
Special Instructions/Note:													
CS 59 (890-8635-10)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Weigher, Solid, Overstich, BT-Trans, Aali)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_Calc	Total_BTEX_GCV	8015MOD_NM/8015NM_S_Prep(MOD) Full TPH	300_ORGFM_28D/DI_LEACHChloride	8021B/5035FP_Calc(MOD) BTEX	Total Number of containers	Special Instructions/Note:
CS 59 (890-8635-10)	8/14/25	09:38	G	Solid	X	X	X	X	X	X	X	1	
CS 99 (890-8635-11)	8/18/25	14:27	G	Solid	X	X	X	X	X	X	X	1	
CS 101 (890-8635-12)	8/14/25	14:31	G	Solid	X	X	X	X	X	X	X	1	
CS 98 (890-8635-13)	8/14/25	14:25	G	Solid	X	X	X	X	X	X	X	1	
CS 100 (890-8635-14)	8/14/25	14:29	G	Solid	X	X	X	X	X	X	X	1	
CS 95 (890-8635-15)	8/14/25	13:00	G	Solid	X	X	X	X	X	X	X	1	
CS 94 (890-8635-16)	8/14/25	13:00	G	Solid	X	X	X	X	X	X	X	1	
CS 74 (890-8635-17)	8/14/25	10:45	G	Solid	X	X	X	X	X	X	X	1	
CS 85 (890-8635-18)	8/14/25	12:35	G	Solid	X	X	X	X	X	X	X	1	

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

Possible Hazard Identification
Unconfirmed
Deliverable Requested: I, II, III, IV, Other (specify)
Primary Deliverable Rank: 2
Special Instructions/QC Requirements:
☐ Return To Client
☐ Disposal By Lab
☐ Archive For
☐ Months

Empty kit Relinquished by:
Relinquished by: [Signature]
Date/Time: 8/18/2025
Company: [Blank]
Received by: [Signature]
Date/Time: 8/18/2025
Company: [Blank]

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks:

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

Eurofins Carlsbad

1089 N Canal St
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



Environmental Testing

Client Information (Sub Contract Lab)		Sampler	N/A	Lab PM	Kramer, Jessica	Carrier Tracking Note(s)	N/A	COC No	890-5677.3
Client Contact	Phone	N/A		E-Mail	Jessica.Kramer@eurofins.com	State of Origin	New Mexico	Page	Page 3 of 7
Shipping/Receiving	Company	N/A		Accreditations Required (See note):	NE LAP - Texas	Job #	890-8635-1	Preservation Codes:	
Eurofins Environment Testing South Cent		Due Date Requested:	8/20/2025	Analysis Requested					
Address	1211 W. Florida Ave.	TAT Requested (days):	N/A						
City	Midland	PO #	N/A						
State, Zip:	TX, 79701	WC #	N/A						
Phone:	432-704-5440(Tel)	Project #	89000110						
Email	N/A	SSOW#	N/A						
Project Name	JRU 076	Field Filtered Sample (Yes or No)							
Site	N/A	Perform MS/MSD (Yes or No)							
		8015MOD_Calc							
		Total_BTEX_GCV							
		8015MOD_NM/8015NM_S_Prep(MOD) Full TPH							
		300_ORGFM_28D/DI_LEACHChloride							
		8021B/5035FP_Calc(MOD) BTEX							
		Total Number of containers							
		Special Instructions/Note:							
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=solid, O=Other, A=Air)				
CS 86 (890-8635-19)		8/14/25	12:35	G	Solid	X	X	X	X
CS 87 (890-8635-20)		8/14/25	12:35	G	Solid	X	X	X	X
CS 60 (890-8635-21)		8/14/25	09:41	G	Solid	X	X	X	X
CS 61 (890-8635-22)		8/14/25	09:45	G	Solid	X	X	X	X
CS 62 (890-8635-23)		8/14/25	09:45	G	Solid	X	X	X	X
CS 63 (890-8635-24)		8/14/25	09:55	G	Solid	X	X	X	X
CS 70 (890-8635-25)		8/14/25	10:25	G	Solid	X	X	X	X
CS 73 (890-8635-26)		8/14/25	10:33	G	Solid	X	X	X	X
CS 77 (890-8635-27)		8/14/25	10:49	G	Solid	X	X	X	X

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

Possible Hazard Identification

Unconfirmed

Deliverable Requested: I, II, III, IV, Other (specify) _____

Primary Deliverable Rank: 2

Special Instructions/QC Requirements: _____

Empty Kit Relinquished by: _____

Relinquished by: _____

Relinquished by: _____

Relinquished by: _____

Custody Seal Intact: ☐ Yes ☐ No

Custody Seal No.: _____

Cooler Temperature(s) °C and Other Remarks: _____

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

Eurofins Carlsbad

1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



Environmental Testing

Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No
Client Contact:	N/A	Kramer, Jessica	N/A		890-56774
Shipping/Receiving	Phone: N/A	E-Mail: Jessica.Kramer@eurofins.com	State of Origin: New Mexico	Page 4 of 7	
Company:	Eurofins Environment Testing South Cent	Accreditations Required (See note)	NEIAP - Texas	Job #	890-8635-1
Address:	1211 W. Florida Ave.	Due Date Requested:	8/20/2025	Preservation Codes:	
City:	Midland	TAT Requested (days):	N/A	Analysis Requested	
State, Zip:	TX, 79701	PO #	N/A		
Phone:	432-704-5440(Tel)	WO #	N/A		
Email:	N/A	Project #	89000110		
Project Name:	JRU 076	SSOW#:	N/A		
Site:	N/A				
Sample Identification - Client ID (Lab ID)					
CS 80 (890-8635-28)	8/14/25	10:58	Mountain	G	Solid
CS 72 (890-8635-29)	8/14/25	10:31	Mountain	G	Solid
CS 84 (890-8635-30)	8/14/25	12:17	Mountain	G	Solid
CS 78 (890-8635-31)	8/14/25	10:53	Mountain	G	Solid
CS 71 (890-8635-32)	8/14/25	10:29	Mountain	G	Solid
CS 75 (890-8635-33)	8/14/25	10:45	Mountain	G	Solid
CS 79 (890-8635-34)	8/14/25	10:35	Mountain	G	Solid
CS 76 (890-8635-35)	8/14/25	10:47	Mountain	G	Solid
CS 83 (890-8635-36)	8/14/25	12:15	Mountain	G	Solid
Field Filtered Sample (Yes or No)					
Perform MS/MSD (Yes or No)					
8015MOD_Calc					
Total_BTEX_GCV					
8015MOD_NM/8015NM_S_Prep(MOD) Full TPH					
300_ORGFM_28D/DI_LEACHChloride					
8021B/5035FP_Calc(MOD) BTEX					
Total Number of containers					
Special Instructions/Note:					
Other: N/A					

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

Possible Hazard Identification

Unconfirmed

Deliverable Requested: I, II, III, IV, Other (specify) _____ Primary Deliverable Rank: 2

Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____

Relinquished by: _____ Date/Time: 8/18/25 12:00 Company: _____ Received by: _____ Date/Time: 8/18/25 10:45 Company: _____

Relinquished by: _____ Date/Time: _____ Company: _____ Received by: _____ Date/Time: _____ Company: _____

Custody Seats Intact: ☐ Yes ☐ No Custody Seal No.: _____ Cooler Temperature(s) °C and Other Remarks: _____

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

Eurofins Carlsbad

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Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



Environmental Testing

Client Information (Sub Contract Lab)		Sampler:	N/A	Lab PM:	Kramer, Jessica	Carrier Tracking No(s):	N/A	COC No:	890-5677.5
Client Contact:	Phone:	N/A	E-Mail:	Jessica.Kramer@eurofins.com	State of Origin:	New Mexico	Page:	Page 5 of 7	
Shipping/Receiving:	Company:	Eurofins Environment Testing South Cent	Due Date Requested:	8/20/2025	Accreditations Required (See note):	NE LAP - Texas	Job #:	890-8635-1	Preservation Codes:
Address:	City:	1211 W. Florida Ave.	TAT Requested (days):	N/A	Analysis Requested				
Midland	State, Zip:	TX, 79701	PO #:	N/A					
Phone:	432-704-5440(Tel)	W/O #:	N/A						
Email:	N/A	Project #:	89000110						
Project Name:	JRU 076	SSOW#:	N/A						
Site:	N/A								
Sample Identification - Client ID (Lab ID)									
CS 96 (890-8635-37)	8/14/25	12:58	Mountain	G	Solid	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_Calc	Total Number of containers
CS 81 (890-8635-38)	8/14/25	12:10	Mountain	G	Solid	X	X	X	X
CS 89 (890-8635-39)	8/14/25	12:38	Mountain	G	Solid	X	X	X	X
CS 82 (890-8635-40)	8/14/25	12:13	Mountain	G	Solid	X	X	X	X
CS 91 (890-8635-41)	8/14/25	12:47	Mountain	G	Solid	X	X	X	X
CS 90 (890-8635-42)	8/14/25	12:40	Mountain	G	Solid	X	X	X	X
CS 88 (890-8635-43)	8/14/25	12:35	Mountain	G	Solid	X	X	X	X
CS 97 (890-8635-44)	8/14/25	13:00	Mountain	G	Solid	X	X	X	X
CS 19 (890-8635-45)	8/14/25	16:10	Mountain	G	Solid	X	X	X	X
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.									
Possible Hazard Identification									
Unconfirmed									
Deliverable Requested: I, II, III, IV, Other (specify):									
Primary Deliverable Rank: 2									
Special Instructions/IOC Requirements:									
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)									
Return To Client									
Disposal By Lab									
Archive For									
Months									
Empty Kit Relinquished by:									
Date/Time:									
Company:									
Relinquished by:									
Date/Time:									
Company:									
Relinquished by:									
Date/Time:									
Company:									
Custody Seals Intact:									
Custody Seal No.:									
Cooler Temperature(s) °C and Other Remarks:									

Eurofine Carlebad

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Chain of Custody Record

eurofins

Conclusions

Client Information (Sub Contract Lab)				Sampler N/A		Lab PM: Kramer, Jessica		Carrier Tracking No(s): N/A		COC No. 890-5677 6	
Client Contact: Shipping/Receiving				Phone N/A		E-Mail: Jessica.Kramer@et.eurofinsus.com		State of Origin New Mexico		Page: Page 6 of 7	
Company: Eurofins Environment Testing South Central				Address: 1211 W. Florida Ave.		Accreditations Required (See note): NELAP - Texas		Job # 890-8635-1		Preservation Codes: 890-8635-1	
City: Midland				Due Date Requested: 8/20/2025		Analysis Requested		TAT Requested (days): N/A		Other: N/A	
State, Zip: TX, 79701				PO #: N/A		8015MOD_Calc		8015MOD_NM/8015NM_S_Prep(MOD) Full TPH		Total Number of containers	
Phone: 432-704-5440(Tel)				MO #: N/A		Total_BTEX_GCV		300_ORGFM_28D/DI_LEACHChloride		Special Instructions/Note:	
Email: N/A				Project #: 89000110		8021B/5035FP_Calc(MOD) BTEX					
Project Name: JRU 076				SSOW#: N/A							
Site: N/A											
Sample Identification - Client ID (Lab ID)				Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=Water, S=Soil, O=Organic, A=Air)	
CS 18 (890-8635-46)				8/14/25		16:08		G		Solid	
CS 16 (890-8635-47)				8/14/25		14:04		G		Solid	
CS 14 (890-8635-48)				8/14/25		16:01		G		Solid	
CS 09 (890-8635-49)				8/14/25		14:50		G		Solid	
CS 10 (890-8635-50)				8/14/25		14:48		G		Solid	
CS 20 (890-8635-51)				8/14/25		14:12		G		Solid	
CS 13 (890-8635-52)				8/14/25		14:58		G		Solid	
CS 17 (890-8635-53)				8/14/25		14:06		G		Solid	
CS 15 (890-8635-54)				8/14/25		16:02		G		Solid	
Possible Hazard Identification											
Unconfirmed											
Deliverable Requested: I, II, III, IV, Other (specify) _____ Primary Deliverable Rank: 2											
E-mail Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____											
Reinforced by: _____ Date/Time: _____ Company: _____											
Custody Seals Intact: _____ Custody Seal No.: _____ Cooler Temperature(s) °C and Other Remarks: _____											
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)											
Return To Client _____ Disposal By Lab _____ Archive For _____ Months											
Special Instructions/QC Requirements: _____											

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Chain of Custody Record

[illegible]

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8635-1

SDG Number: 03C1558702

Login Number: 8635

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: 890-8635-1

SDG Number: 03C1558702

Login Number: 8635

List Number: 2

Creator: Laing, Edmundo

List Source: Eurofins Midland

List Creation: 08/18/25 04:04 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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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 514561

QUESTIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 514561
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2519735457
Incident Name	NAPP2519735457 JRU 76 @ 30-015-29173
Incident Type	Blow Out
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-29173] JAMES RANCH UNIT #076

Location of Release Source

Please answer all the questions in this group.

Site Name	JRU 76
Date Release Discovered	07/13/2025
Surface Owner	Federal

Incident Details

Please answer all the questions in this group.

Incident Type	Blow Out
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: Blow Out Well Crude Oil Released: 2 BBL Recovered: 0 BBL Lost: 2 BBL.
Produced Water Released (bbls) Details	Cause: Blow Out Well Produced Water Released: 3 BBL Recovered: 0 BBL Lost: 3 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Cause: Blow Out Well Natural Gas Vented Released: 195 MCF Recovered: 0 MCF Lost: 195 MCF.
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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QUESTIONS, Page 2

Action 514561

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 514561
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	Yes, according to supplied volumes this will be treated as 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	<i>Unavailable.</i>
<i>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.</i>	

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	<i>Not answered.</i>

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: Richard Kotzur Title: Senior Project Manager Email: NMEnvNotifications@exxonmobil.com Date: 10/13/2025
--	---

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QUESTIONS, Page 3

Action 514561

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 514561
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
<i>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.</i>	
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	Between ½ and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1000 (ft.) and ½ (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	Between 1 and 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
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	
<i>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.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>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.</i>	
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)	2610
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	4309
GRO+DRO (EPA SW-846 Method 8015M)	4309
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>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>	
On what estimated date will the remediation commence	10/08/2025
On what date will (or did) the final sampling or liner inspection occur	10/02/2025
On what date will (or was) the remediation complete(d)	10/08/2025
What is the estimated surface area (in square feet) that will be reclaimed	28663
What is the estimated volume (in cubic yards) that will be reclaimed	2123
What is the estimated surface area (in square feet) that will be remediated	11256
What is the estimated volume (in cubic yards) that will be remediated	37
<i>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.</i>	
<i>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.</i>	

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QUESTIONS, Page 4

Action 514561

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 514561
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<i>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.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(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	fJEG1635837366 OWL LANDFILL JAL
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.
<i>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>	
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: Richard Kotzur Title: Senior Project Manager Email: NMEnvNotifications@exxonmobil.com Date: 10/13/2025
<i>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.</i>	

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QUESTIONS, Page 5

Action 514561

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 514561
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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	No

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QUESTIONS, Page 6

Action 514561

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:
	5380
	Action Number:
	514561
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	508991
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/03/2025
What was the (estimated) number of samples that were to be gathered	2
What was the sampling surface area in square feet	400

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	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	11256
What was the total volume (cubic yards) remediated	37
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	17407
What was the total volume (in cubic yards) reclaimed	0

Summarize any additional remediation activities not included by answers (above)	Laboratory analytical results for composite soil samples CS56 through CS102, collected from the overspray extent in the pasture indicated all COC concentrations within the pasture soils were compliant with Strictest Table I Closure Criteria and reclamation standards. Additionally, delineation soil samples SS06, and SS10 through SS13, collected from the pasture, indicated all COC concentrations were in compliance with reclamation standards, successfully defining the lateral extent of the overspray extent and confirming that all COC concentrations in pasture soils were compliant with reclamation standards. Laboratory analytical results for delineation soil samples SS05, SS09, SS14, SS17, and SS19, along with composite soil samples CS01, CS39, CS40, CS47, CS51, CS52, CS56 through CS65, and CS99 through CS101, indicated all COC concentrations were in compliance with the strictest Table I Closure Criteria and reclamation standards, successfully defining the lateral extent of the release within the pad boundary. Laboratory analytical results for confirmation floor samples FS01 through FS03, collected from the floor of the excavation at depths ranging between 1-foot bgs and 2 feet bgs, along with delineation soil samples PH01 and PH01A, and PH02 and PH02A, collected at 3 feet bgs and 4 feet bgs surface respectively, indicated all COC concentrations were in compliance with Site Closure Criteria, successfully defining the vertical extent of the release. Laboratory analytical results for all final excavation confirmation floor and sidewall soil samples collected indicated that all COC concentrations were compliant with the Site Closure Criteria.
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The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Richard Kotzur Title: Senior Project Manager Email: NMEnvNotifications@exxonmobil.com Date: 10/13/2025
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Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 7

Action 514561

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 514561
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 514561

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 514561
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	This Remediation Closure Report is approved. Areas reasonably needed for production or subsequent drilling operations will need to be reclaimed and revegetated as soon as they are no longer reasonably needed. A report for reclamation and revegetation will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete".	1/8/2026