District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # *(assigned by OCD)*
Contact mailing address	

Location of Release Source

Latitude _____ Longitude _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Site Type
Date Release Discovered	API# *(if applicable)*

Unit Letter	Section	Township	Range	County

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☐ Private (*Name:* _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release		

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

☐ The source of the release has been stopped.
☐ The impacted area has been secured to protect human health and the environment.
☐ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☐ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name _____ Title: _____

Signature:  _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Convert irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Average Depth (in.)	On/Off Pad (dropdown)	Soil Spilled-Fluid Saturation (%.)	Estimated volume of each area (bbl.)	Total Estimated Volume of Spill (bbl.)	[redacted]	Total Estimated Contaminated Soil, uncompacted, 25% (yd^3.)	Current Rule of Thumb - RMR Handover Volume, (yd^3.)
Rectangle A	60.0	30.0	0.4	Off-Pad	15.02%	10.01	1.50		2.60	
Rectangle B	60.0	30.0	0.2	Off-Pad	15.02%	5.34	0.80		1.39	
Rectangle C						0.00			0.00	
Rectangle D						0.00			0.00	
Rectangle E						0.00			0.00	750
Rectangle F						0.00			0.00	
Rectangle G						0.00			0.00	
Rectangle H						0.00			0.00	
Rectangle I						0.00			0.00	
Rectangle J						0.00			0.00	
					Total Subsurface Volume Released:		2.3059		3.99	BU

ENSOLUM

November 27, 2024

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

Re: Reclamation Report
Brinninstool Unit 003H
Incident Number NAPP2315635182
Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of COG Operating, LLC (COG), has prepared the following *Reclamation Report* for the Brinninstool Unit 003H (Site). The *Reclamation Report* documents the Site history and reclamation activities completed to date.

BACKGROUND

The Site is located in Unit A, Section 20, Township 23 South, Range 33 East, in Lea County, New Mexico (32.2973°, -103.5859°) and is associated with oil and gas exploration and production operations on private land owned by Hughes Properties, LLC.

On May 29, 2023, damage to a transfer line resulted in the release of approximately 2.3059 barrels (bbls) of produced water onto the lease road and into the surrounding pasture. No released fluids were recovered. COG reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on June 5, 2023. The release was assigned Incident Number NAPP2315635182.

Delineation and excavation of impacted soil was completed at the Site in July 2023. Based on the delineation and excavation soil sample analytical results, a *Closure Request* was submitted to the NMOCD on September 18, 2024. The NMOCD approved the *Closure Request* on January 12, 2024. Additional details regarding the release, Site Characterization, delineation and excavation activities, and soil sample analytical results can be referenced in the approved *Closure Request* attached as Appendix A. Remediation of the release was completed in accordance with Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC).

RECLAMATION ACTIVITIES

The excavation area measured approximately 1,405 square feet. A total of approximately 120 cubic yards of impacted soil were removed during the excavation activities. Upon completion of excavation activities and receipt of final laboratory analytical results, the excavation was backfilled, and the area was graded and contoured to match the surrounding topography. The excavation area on the lease road was backfilled with caliche and the excavation in the pasture was backfilled with locally procured topsoil,

consistent with the surrounding native soil type. The excavation extent and reclamation area are depicted on the attached Figure 1. Photographic documentation is included in Appendix B.

One representative 5-point composite sample (CS-1) was collected from the caliche backfill material. One representative 5-point composite sample (CS-2) was collected from the topsoil backfill material. The backfill soil samples were transported under strict chain-of-custody procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of the following constituents of concern (COCs): benzene, toluene, ethylbenzene, and total xylenes (BTEX) following United States Environmental Protection Agency (EPA) Method 8021B; total petroleum hydrocarbons (TPH)-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Laboratory analytical results for the backfill soil samples confirmed compliance with NMOCD requirements for the reclaimed area to contain non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 milligrams per kilogram (mg/kg) and TPH concentrations less than 100 mg/kg. The laboratory analytical results are summarized in the attached Table 1 and the complete laboratory analytical report is included as Appendix C.

The disturbed pasture area was seeded on October 23, 2024, with the Bureau of Land Management (BLM) sandy sites seed mix at double the rate specified in pounds of pure live seed (PLS) per acre to account for the application method.

Species/Cultivar	PLS/Acre
Sand dropseed (Sporobolus cryptandrus)	1.0
Sand love grass (Eragrostis trichodes)	1.0
Plains bristlegrass (Setaria macrostachya)	2.0

The seed mix was doubled and distributed with a broadcast seed spreader and harrowed in. Photographs of the backfilled excavation and seeding of the reclaimed area are provided in Appendix B.

VEGETATION MONITORING

The Site will be monitored for vegetation growth to verify reclamation activities were successful. Focus for this phase will be to prevent erosion and Site degradation, and to monitor for and treat invasive and noxious weed species.

- Annual inspections will take place at the location to assess revegetation progress until vegetation is consistent with local natural vegetation density.
- If necessary, an additional application of the BLM seed mix will be applied.
- Noxious and invasive weeds will be identified and treated by licensed contracted herbicide applicators or mechanically/physically removed.

A *Re-vegetation Report* will be submitted to the NMOCD once vegetation growth in the reclaimed pasture area has a uniform vegetative cover that reflects a life-form ratio of plus or minus 50 percent (%) of pre-disturbance levels and a total percent plant cover of at least 70% of pre-disturbance levels, excluding noxious weeds, per NMAC 19.15.29.13 D.(3).

RECLAMATION APPROVAL REQUEST

Based on the reclamation activities completed to date and proposed vegetation monitoring plan described above, COG respectfully requests approval of this *Reclamation Report* and a status update to *Reclamation Report Approved, Pending submission of Re-Vegetation Report* for Incident Number NAPP2315635182.

If you have any questions or comments, please contact Ms. Hadlie Green at (432) 557-8895 or hgreen@ensolum.com.

Sincerely,
Ensolum, LLC

Tabitha Guadian
Staff Geologist

Daniel R. Moir, PG (licensed in WY & TX)
Senior Managing Geologist

cc: Jacob Laird, ConocoPhillips Company

Appendices:

Figure 1	Excavation Extent / Reclamation Area
Table 1	Backfill Soil Sample Analytical Results
Appendix A	*Closure Request* Report: Dated September 18, 2024
Appendix B	Photographic Log
Appendix C	Laboratory Analytical Report & Chain of Custody Documentation

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FIGURES

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Environmental, Engineering and Hydrogeologic Consultants

Excavation Extent / Reclamation Area

COG Operating, LLC
Brinninstool Unit 003H
Incident Number: NAPP2315635182
Unit A, Section 20, T23S, R33E
Lea County, New Mexico

FIGURE
1

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TABLES

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Brinninstool Unit 003H
COG Operating, LLC
Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Requirements for Reclamed Area			**10**	**50**	**NE**	**NE**	**NE**	**100**	**600**
Backfill Soil Samples									
CS-1 (Caliche)	11/18/2024	0.25	<0.00201	0.0683	<49.8	<49.8	<49.8	<49.8	117
CS-2 (Topsoil)	11/18/2024	0.25	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	64.1

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NE - Not Established

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

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APPENDIX A

Closure Request Report: Dated September 18, 2024

ENSOLUM

September 14, 2023

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

Re: Closure Request
Brinninstool Unit 003H
Incident Number NAPP2315635182
Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of COG Operating, LLC (COG), has prepared this *Closure Request* to document assessment, excavation, and soil sampling activities performed at Brinninstool Unit 003H (Site). The purpose of the Site assessment, excavation, and soil sampling activities was to address impacted soil resulting from a release produced water at the Site. Based on field observations, excavation activities, and laboratory analytical results from the soil sampling events, COG is submitting this *Closure Request*, describing remediation that has occurred and requesting no further action for Incident Number NAPP2315635182.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit A, Section 20, Township 23 South, Range 33 East, in Lea County, New Mexico (32.2973°, -103.5859°) and is associated with oil and gas exploration and production operations on private land owned by Hughes Properties, LLC.

On May 29, 2023, damage to a transfer line resulted in a release of approximately 2.3059 barrels (bbls) of produced water onto the lease road and into the surrounding pasture. No released fluids were recovered. COG reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on June 5, 2023. The release was assigned Incident Number NAPP2315635182.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is United States Geological Survey (USGS) well 321746103352301, located approximately 0.26 miles southwest of the Site. The groundwater well has a reported depth to groundwater of 470 feet bgs and a total depth of 550 feet bgs. Ground surface elevation at the

groundwater well location is 3,699 feet above mean sea level (amsl), which is approximately 12 feet lower in elevation than the Site. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a riverine, located approximately 2,700 feet north 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, or church. The site is greater than 300 feet from a wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

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

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

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

SITE ASSESSMENT ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On June 21, 2023, Ensolum personnel were at the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Four assessment soil samples (SS01 through SS04) were collected around the release extent at an approximate depth of 0.5 feet bgs to confirm the lateral extent of the release. Eight assessment soil samples (SS05 through SS12) were collected within the release extent at an approximate depth of 0.5 feet bgs to assess for the presence or absence of impacted soil. The 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 soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included as Appendix B.

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

Laboratory analytical results for assessment soil samples SS01 through SS04, collected around the release extent, indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria and successfully defined the lateral extent of the release. Laboratory analytical results for assessment samples SS05 through SS09, collected within the pasture release extent, indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria. Laboratory analytical

results for assessment samples SS10 through SS12, collected within the pasture and lease road release extent, indicated TPH and/or chloride concentrations exceeded the reclamation requirements. Laboratory analytical results are summarized in Table 1 and the complete analytical reports are included as Appendix C.

DELINEATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On July 7, 2023, Ensolum personnel returned to the Site to complete vertical assessment activities within the release extent. Boreholes were advanced via hand-auger at the locations of assessment soil samples SS05 through SS09, to further confirm the absence of impacted soil. One discrete delineation soil sample was collected at each location (SS05A through SS09A) from a depth of 1-foot bgs. The delineation soil samples were collected, handled, and analyzed following the same procedures as described above. The boreholes were backfilled with soil removed. The delineation soil sample locations were mapped utilizing a handheld GPS unit and are depicted on Figure 2.

Laboratory analytical results for delineation soil samples SS05A through SS09A collected at 1-foot bgs, indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria and confirmed the absence of impacted soil is these areas. Based on the laboratory analytical results for assessment soil samples SS10 through SS12, excavation activities were warranted in the lease road and pasture area near the release point. Laboratory analytical results are summarized in Table 1 and the complete analytical reports are included as Appendix C.

EXCAVATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On July 7, 2023, Ensolum personnel were at the Site to oversee excavation of impacted soil in the area around assessment samples SS10 through SS12. Excavation activities were performed using a backhoe and transport vehicles. To direct excavation activities, soil was screened for VOCs and chloride. The excavation was completed to depths ranging from 1-foot to 2.5 feet bgs. Photographic documentation of the excavation activities is included in Appendix B.

Following removal of impacted soil, 5-point composite soil samples were collected every 200 square feet from the floor of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS10 were collected from the floor of the excavation at depths ranging from 1-foot to 2.5 feet bgs. Composite soil samples SW01 and SW02 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 2.5 feet bgs. The soil samples were handled and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations were mapped utilizing a handheld GPS and are presented on Figure 3.

Laboratory analytical results for excavation floor samples FS01 through FS10 and sidewall samples SW01 and SW02 indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix C.

The final excavation area measured approximately 1,405 square feet. A total of approximately 120 cubic yards of impacted soil was removed, transported, and properly disposed of at Northern Delaware Basin Landfill in Jal, New Mexico.

CLOSURE REQUEST

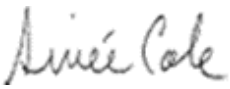
Site assessment and excavation activities were conducted at the Site to address the May 29, 2023, release of produced water. Laboratory analytical results for the excavation soil samples indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria. Additionally, the release was laterally and vertically delineated to the most stringent Table I Closure Criteria. Based on the laboratory analytical results, no further remediation is required.

COG believes the remedial actions completed are protective of human health, the environment, and groundwater. As such, COG respectfully requests closure for Incident Number NAPP2315635182. NMOCD notifications are included in Appendix D and the Final C-141 is included in Appendix E.

If you have any questions or comments, please contact Ms. Hadlie Green at (432) 557-8895 or hgreen@ensolum.com.

Sincerely,
Ensolum, LLC

Hadlie Green
Project Geologist



Aimee Cole
Senior Managing Scientist

cc: Jacob Laird, COG Operating, LLC
Hughes Properties, LLC

Appendices:

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

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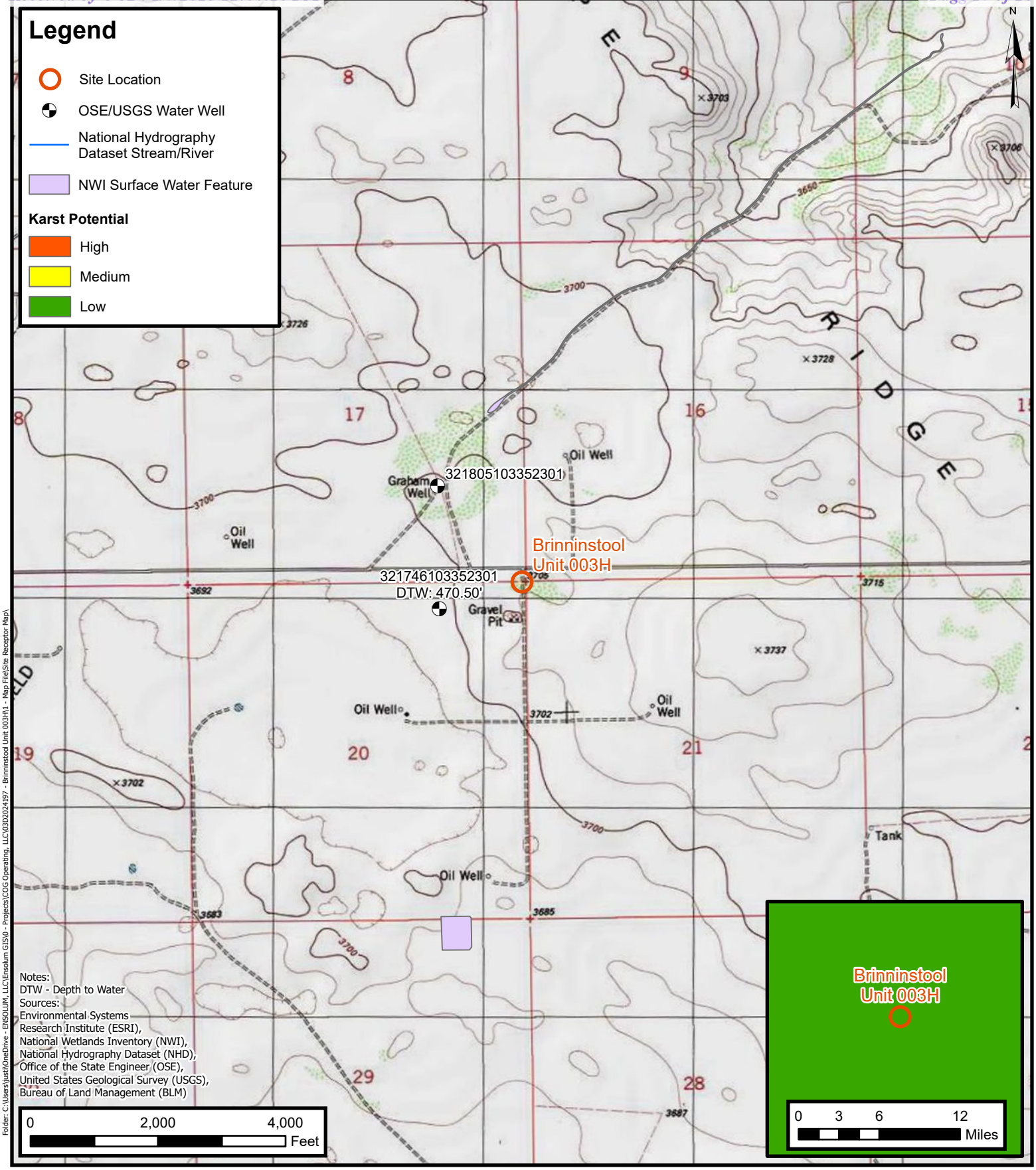
FIGURES



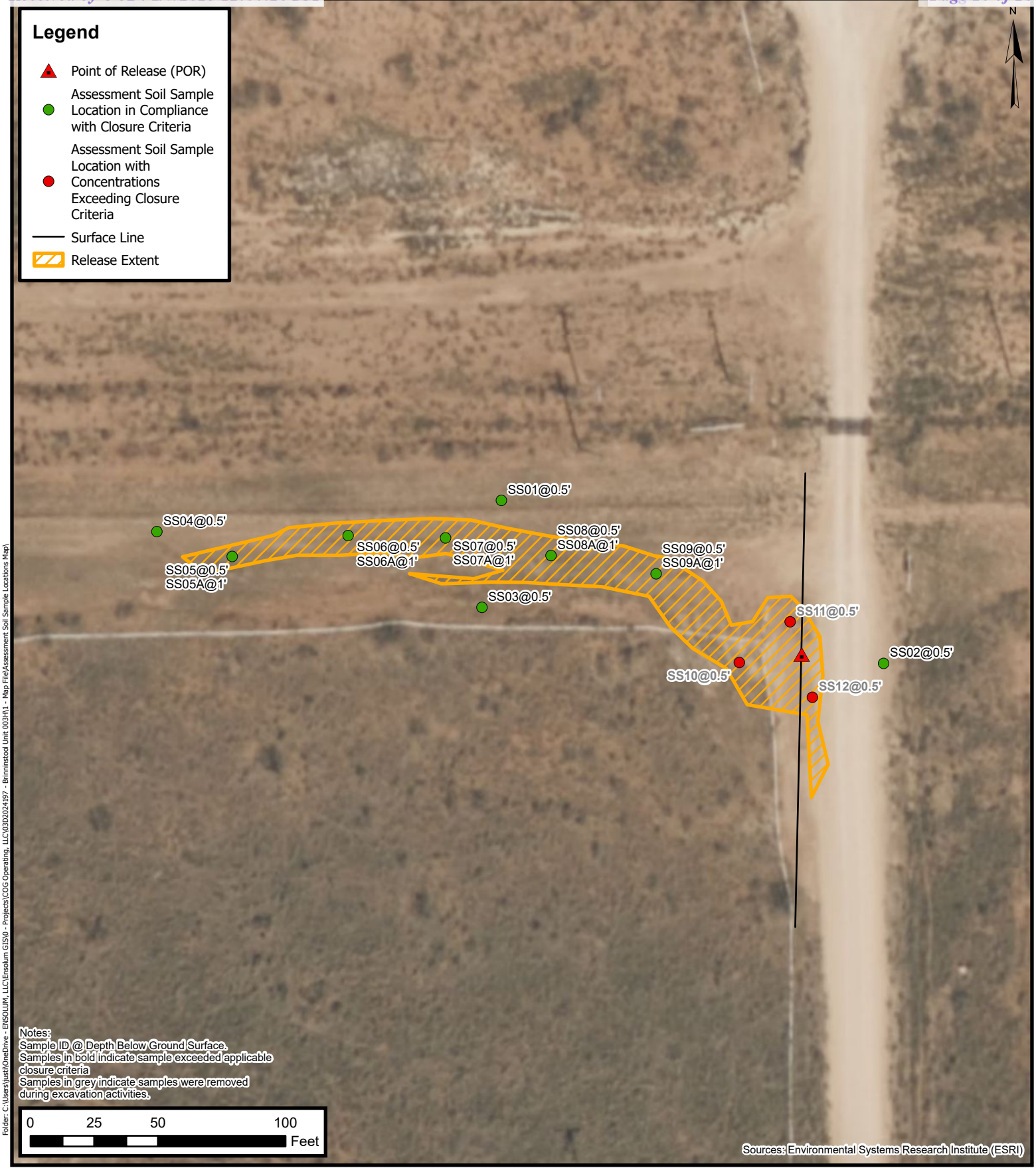
Folder: C:\Users\just\OneDrive - ENSOLUM, LLC\Ensolum GIS\0 - Projects\COG Operating, LLC\03202024197 - Brinninstool Unit 003H\1 - Map Files\Site Receptor Map\

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Site Receptor Map

COG Operating, LLC
Brinninstool Unit 003H
Incident Number: NAPP2315635182
Unit A, Sec 20, T23S, R33E
Lea County, New Mexico

FIGURE 1



Folder: C:\Users\just\OneDrive - ENSOLUM, LLC\Ensolum GIS\0 - Projects\COG Operating, LLC\03\20241197 - Brinninstool Unit 003H\1 - Map File\Assessment Soil Sample Locations Map\

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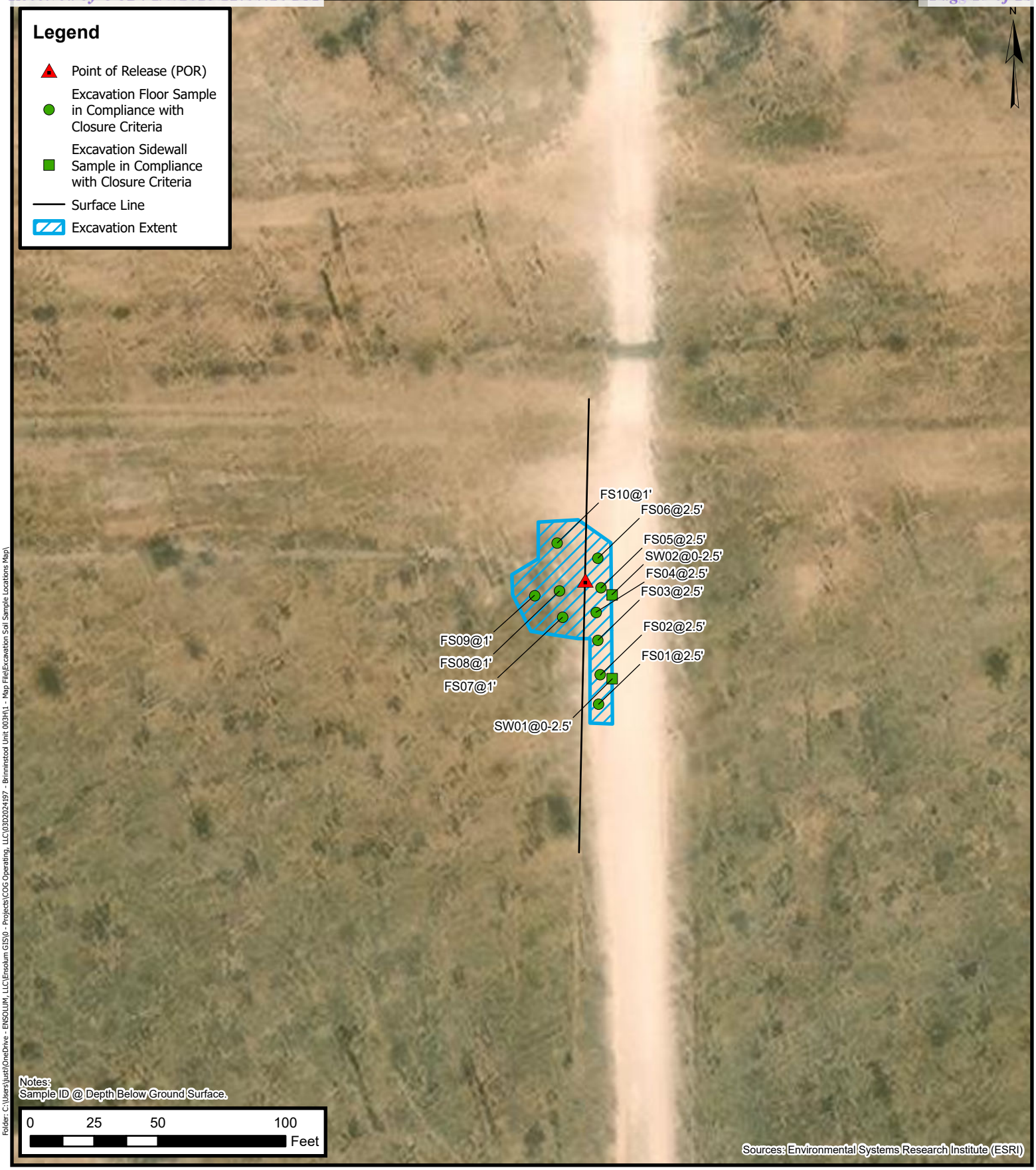
Environmental, Engineering and Hydrogeologic Consultants

Assessment Soil Sample Locations

COG Operating, LLC
Brinninstool Unit 003H
Incident Number: NAPP2315635182
Unit A, Sec 20, T23S, R33E
Lea County, New Mexico

FIGURE 2



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ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Excavation Soil Sample Locations

COG Operating, LLC
Brinninstool Unit 003H
Incident Number: NAPP2315635182
Unit A, Sec 20, T23S, R33E
Lea County, New Mexico

FIGURE 3

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TABLES

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TABLE I
SOIL SAMPLE ANALYTICAL RESULTS
Brinninstool Unit 003H
COG Operating, LLC
Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Assessment Soil Samples										
SS01*	06/21/2023	0.5	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	34.1
SS02*	06/21/2023	0.5	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	36.3
SS03*	06/21/2023	0.5	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	33.2
SS04*	06/21/2023	0.5	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	39.9
SS05*	06/21/2023	0.5	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	40.0
SS05A*	07/07/2023	1	<0.00202	<0.00403	<50.1	<50.1	<50.1	<50.1	<50.1	67.2
SS06*	06/21/2023	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	39.3
SS06A*	07/07/2023	1	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	77.9
SS07*	06/21/2023	0.5	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	43.8
SS07A*	07/07/2023	1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	96.5
SS08*	06/21/2023	0.5	<0.00198	<0.00397	<49.8	<49.8	<49.8	<49.8	<49.8	44.9
SS08A*	07/07/2023	1	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	81.7
SS09*	06/21/2023	0.5	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	33.0
SS09A*	07/07/2023	1	<0.00200	<0.00399	<49.7	<49.7	<49.7	<49.7	<49.7	102
SS10*	06/21/2023	0.5	<0.00200	<0.00401	<49.9	155	107	155	262	54.9
SS11*	06/21/2023	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	1,750
SS12*	06/21/2023	0.5	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	3,890
Excavation Floor Soil Samples										
FS01*	07/07/2023	2.5	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	<49.8	76.9
FS02*	07/07/2023	2.5	<0.00199	<0.00398	<50.5	<50.5	<50.5	<50.5	<50.5	137
FS03*	07/07/2023	2.5	<0.00201	<0.00402	<50.1	<50.1	<50.1	<50.1	<50.1	67.8
FS04*	07/07/2023	2.5	<0.00199	<0.00398	<50.4	<50.4	<50.4	<50.4	<50.4	104
FS05*	07/07/2023	2.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	67.5
FS06*	07/07/2023	2.5	<0.00200	<0.00401	<50.1	<50.1	<50.1	<50.1	<50.1	116

ENSOLUM

TABLE I
SOIL SAMPLE ANALYTICAL RESULTS
Brinninstool Unit 003H
COG Operating, LLC
Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			**10**	**50**	**NE**	**NE**	**NE**	**1,000**	**2,500**	**20,000**
FS07*	07/07/2023	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	84.8
FS08*	07/07/2023	1	<0.00199	<0.00398	<50.2	<50.2	<50.2	<50.2	<50.2	80.4
FS09*	07/07/2023	1	<0.00198	<0.00396	<50.2	<50.2	<50.2	<50.2	<50.2	60.8
FS10*	07/07/2023	1	<0.00200	<0.00400	<49.6	<49.6	<49.6	<49.6	<49.6	67.2
Excavation Sidewall Soil Samples										
SW01*	07/07/2023	0 - 2.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	67.9
SW02*	07/07/2023	0 - 2.5	<0.00199	<0.00398	<50.1	<50.1	<50.1	<50.1	<50.1	55.8

Notes:

bgs: below ground surface
mg/kg: milligrams per kilogram
NMOCD: New Mexico Oil Conservation Division
NMAC: New Mexico Administrative Code
BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes
GRO: Gasoline Range Organics
DRO: Diesel Range Organics
ORO: Oil Range Organics
TPH: Total Petroleum Hydrocarbon

*Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation standard where applicable.*
Grey text represents samples that have been excavated
** indicates sample was collected in area to be reclaimed after remediation is complete; reclamation standard in the top 4 feet is 600 mg/kg for chloride and 100 mg/kg for TPH.*

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APPENDIX A

Referenced Well Records

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater | Geographic Area: New Mexico | GO

Click to hideNews Bulletins

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

Groundwater levels for New Mexico

Click to hide state-specific text

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 321746103352301

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

USGS 321746103352301 23S.33E.17.42331

Lea County, New Mexico
Latitude 32°17'46", Longitude 103°35'23" NAD27
Land-surface elevation 3,699 feet above NAVD88

The depth of the well is 550 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum
1972-09-21		D	62610		3192.86
1972-09-21		D	62611		3194.60
1972-09-21		D	72019	504.40	
1976-12-08		D	62610		3226.76
1976-12-08		D	62611		3228.50
1976-12-08		D	72019	470.50	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet

Section	Code	Description
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

Questions or Comments
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

Accessibility FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey

Title: Groundwater for New Mexico: Water Levels
URL: https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?

Page Contact Information: New Mexico Water Data Maintainer
Page Last Modified: 2023-08-02 18:13:22 EDT
0.32 0.28 nadww01

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APPENDIX B

Photographic Log

ENSOLUM

Photographic Log
COG Operating, LLC
Brinninstool Unit 003H
NAPP2315635182

Photograph: 1 Date: 6/21/2023
Description: Soil staining in release footprint
View: West

Photograph: 2 Date: 6/21/2023
Description: Soil staining in release footprint
View: East

Photograph: 3 Date: 7/7/2023
Description: Excavation activities
View: West

Photograph: 4 Date: 7/7/2022
Description: Excavation activities
View: East

ENSOLUM

APPENDIX C

Laboratory Analytical Reports & Chain of Custody Documentation

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 6/26/2023 10:54:46 AM

JOB DESCRIPTION

Brinninstoll Unit 003H
SDG NUMBER 03C2012037

JOB NUMBER

890-4846-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

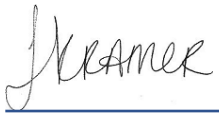
Eurofins Carlsbad

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
6/26/2023 10:54:46 AM

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

Client: Ensolum
Project/Site: Brinninstoll Unit 003H

Laboratory Job ID: 890-4846-1
SDG: 03C2012037

Table of Contents

Definitions/Glossary

Client: Ensolum
Project/Site: Brinninstoll Unit 003H

Job ID: 890-4846-1
SDG: 03C2012037

Qualifiers

GC VOA

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

GC Semi VOA

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

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: Brinninstoll Unit 003H

Job ID: 890-4846-1
SDG: 03C2012037

Job ID: 890-4846-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-4846-1

Receipt
The samples were received on 6/21/2023 3:26 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: SS01 (890-4846-1), SS02 (890-4846-2), SS03 (890-4846-3), SS04 (890-4846-4), SS05 (890-4846-5), SS06 (890-4846-6), SS07 (890-4846-7), SS08 (890-4846-8), SS09 (890-4846-9), SS10 (890-4846-10), SS11 (890-4846-11) and SS12 (890-4846-12).

GC VOA
Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-56200 and analytical batch 880-56227 was outside the control limits.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-56227 recovered above the upper control limit for Benzene, Toluene, Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-56227/2).

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

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-56098 and analytical batch 880-56145 was outside the upper control limits.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-56145 recovered below the lower control limit for Gasoline Range Organics (GRO)-C6-C10. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-56145/31).

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-56210 and analytical batch 880-56147 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SS01 (890-4846-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike (MS) recoveries for preparation batch 880-56210 and analytical batch 880-56147 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

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

Client Sample Results

Client: Ensolum
Project/Site: Brinninstoll Unit 003H

Job ID: 890-4846-1
SDG: 03C2012037

Client Sample ID: SS01

Lab Sample ID: 890-4846-1
Matrix: Solid
Date Collected: 06/21/23 11:30
Date Received: 06/21/23 15:26
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		06/23/23 11:43	06/23/23 20:07	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/23/23 11:43	06/23/23 20:07	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/23/23 11:43	06/23/23 20:07	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		06/23/23 11:43	06/23/23 20:07	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/23/23 11:43	06/23/23 20:07	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		06/23/23 11:43	06/23/23 20:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*06/23/23 11:43*	*06/23/23 20:07*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*06/23/23 11:43*	*06/23/23 20:07*	*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			06/26/23 09:47	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/26/23 11:27	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/23/23 13:55	06/24/23 00:09	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/23/23 13:55	06/24/23 00:09	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/23/23 13:55	06/24/23 00:09	1
Total TPH	<49.9	U	49.9		mg/Kg		06/23/23 13:55	06/24/23 00:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*127*		*70 - 130*	*06/23/23 13:55*	*06/24/23 00:09*	*1*
o-Terphenyl	*137*	*S1+*	*70 - 130*	*06/23/23 13:55*	*06/24/23 00:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**34.1**		5.04		mg/Kg			06/23/23 20:56	1

Client Sample ID: SS02

Lab Sample ID: 890-4846-2
Matrix: Solid
Date Collected: 06/21/23 11:35
Date Received: 06/21/23 15:26
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/23/23 11:43	06/23/23 20:33	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/23/23 11:43	06/23/23 20:33	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/23/23 11:43	06/23/23 20:33	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/23/23 11:43	06/23/23 20:33	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/23/23 11:43	06/23/23 20:33	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/23/23 11:43	06/23/23 20:33	1

Client Sample Results

Client: Ensolum
Project/Site: Brinninstoll Unit 003H

Job ID: 890-4846-1
SDG: 03C2012037

Client Sample ID: SS02

Date Collected: 06/21/23 11:35
Date Received: 06/21/23 15:26
Sample Depth: 0.5

Lab Sample ID: 890-4846-2
Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*06/23/23 11:43*	*06/23/23 20:33*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*06/23/23 11:43*	*06/23/23 20:33*	*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			06/26/23 09:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			06/26/23 11:27	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		06/23/23 13:55	06/24/23 00:31	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		06/23/23 13:55	06/24/23 00:31	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/23/23 13:55	06/24/23 00:31	1
Total TPH	<49.9	U	49.9	mg/Kg		06/23/23 13:55	06/24/23 00:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*06/23/23 13:55*	*06/24/23 00:31*	*1*
o-Terphenyl	*122*		*70 - 130*	*06/23/23 13:55*	*06/24/23 00:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**36.3**		4.99	mg/Kg			06/23/23 21:13	1

Client Sample ID: SS03

Date Collected: 06/21/23 11:40
Date Received: 06/21/23 15:26
Sample Depth: 0.5

Lab Sample ID: 890-4846-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/23/23 11:43	06/23/23 21:00	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/23/23 11:43	06/23/23 21:00	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/23/23 11:43	06/23/23 21:00	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		06/23/23 11:43	06/23/23 21:00	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/23/23 11:43	06/23/23 21:00	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		06/23/23 11:43	06/23/23 21:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*06/23/23 11:43*	*06/23/23 21:00*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*06/23/23 11:43*	*06/23/23 21:00*	*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			06/26/23 09:47	1

Client Sample Results

Client: Ensolum
Project/Site: Brinninstoll Unit 003H

Job ID: 890-4846-1
SDG: 03C2012037

Client Sample ID: SS03

Date Collected: 06/21/23 11:40
Date Received: 06/21/23 15:26
Sample Depth: 0.5

Lab Sample ID: 890-4846-3

Matrix: Solid

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			06/26/23 11:27	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/23/23 13:55	06/24/23 00:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/23/23 13:55	06/24/23 00:54	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/23/23 13:55	06/24/23 00:54	1
Total TPH	<49.9	U	49.9		mg/Kg		06/23/23 13:55	06/24/23 00:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*114*		*70 - 130*	*06/23/23 13:55*	*06/24/23 00:54*	*1*
o-Terphenyl	*126*		*70 - 130*	*06/23/23 13:55*	*06/24/23 00:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**33.2**		4.99		mg/Kg			06/23/23 21:19	1

Client Sample ID: SS04

Date Collected: 06/21/23 11:45
Date Received: 06/21/23 15:26
Sample Depth: 0.5

Lab Sample ID: 890-4846-4

Matrix: Solid

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		06/23/23 11:43	06/23/23 21:26	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/23/23 11:43	06/23/23 21:26	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/23/23 11:43	06/23/23 21:26	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		06/23/23 11:43	06/23/23 21:26	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/23/23 11:43	06/23/23 21:26	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		06/23/23 11:43	06/23/23 21:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*06/23/23 11:43*	*06/23/23 21:26*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*06/23/23 11:43*	*06/23/23 21:26*	*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			06/26/23 09:47	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/26/23 11:27	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/23/23 13:55	06/24/23 01:17	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/23/23 13:55	06/24/23 01:17	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/23/23 13:55	06/24/23 01:17	1

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Client Sample Results

Client: Ensolum
Project/Site: Brinninstoll Unit 003H

Job ID: 890-4846-1
SDG: 03C2012037

Client Sample ID: SS04

Lab Sample ID: 890-4846-4
Matrix: Solid
Date Collected: 06/21/23 11:45
Date Received: 06/21/23 15:26
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg		06/23/23 13:55	06/24/23 01:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*113*		*70 - 130*	*06/23/23 13:55*	*06/24/23 01:17*	*1*
o-Terphenyl	*126*		*70 - 130*	*06/23/23 13:55*	*06/24/23 01:17*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**39.9**		5.02		mg/Kg			06/23/23 21:25	1

Client Sample ID: SS05

Lab Sample ID: 890-4846-5
Matrix: Solid
Date Collected: 06/21/23 12:00
Date Received: 06/21/23 15:26
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/23/23 11:43	06/23/23 21:52	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/23/23 11:43	06/23/23 21:52	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/23/23 11:43	06/23/23 21:52	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/23/23 11:43	06/23/23 21:52	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/23/23 11:43	06/23/23 21:52	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/23/23 11:43	06/23/23 21:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*06/23/23 11:43*	*06/23/23 21:52*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*06/23/23 11:43*	*06/23/23 21:52*	*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			06/26/23 09:47	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			06/26/23 11:27	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/23/23 13:55	06/24/23 01:39	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/23/23 13:55	06/24/23 01:39	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/23/23 13:55	06/24/23 01:39	1
Total TPH	<49.8	U	49.8		mg/Kg		06/23/23 13:55	06/24/23 01:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*06/23/23 13:55*	*06/24/23 01:39*	*1*
o-Terphenyl	*122*		*70 - 130*	*06/23/23 13:55*	*06/24/23 01:39*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Brinninstoll Unit 003H

Job ID: 890-4846-1
SDG: 03C2012037

Client Sample ID: SS05

Lab Sample ID: 890-4846-5
Matrix: Solid
Date Collected: 06/21/23 12:00
Date Received: 06/21/23 15:26
Sample Depth: 0.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	40.0		5.04		mg/Kg			06/23/23 21:31	1

Client Sample ID: SS06

Lab Sample ID: 890-4846-6
Matrix: Solid
Date Collected: 06/21/23 12:05
Date Received: 06/21/23 15:26
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/23/23 11:43	06/23/23 22:18	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/23/23 11:43	06/23/23 22:18	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/23/23 11:43	06/23/23 22:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/23/23 11:43	06/23/23 22:18	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/23/23 11:43	06/23/23 22:18	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/23/23 11:43	06/23/23 22:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*06/23/23 11:43*	*06/23/23 22:18*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*06/23/23 11:43*	*06/23/23 22:18*	*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			06/26/23 09:47	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/26/23 11:27	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/23/23 13:55	06/24/23 02:01	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/23/23 13:55	06/24/23 02:01	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/23/23 13:55	06/24/23 02:01	1
Total TPH	<49.9	U	49.9		mg/Kg		06/23/23 13:55	06/24/23 02:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*06/23/23 13:55*	*06/24/23 02:01*	*1*
o-Terphenyl	*124*		*70 - 130*	*06/23/23 13:55*	*06/24/23 02:01*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	39.3		5.05		mg/Kg			06/23/23 21:48	1

Client Sample Results

Client: Ensolum
Project/Site: Brinninstoll Unit 003H

Job ID: 890-4846-1
SDG: 03C2012037

Client Sample ID: SS07

Lab Sample ID: 890-4846-7
Matrix: Solid
Date Collected: 06/21/23 12:10
Date Received: 06/21/23 15:26
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/23/23 11:43	06/23/23 22:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/23/23 11:43	06/23/23 22:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/23/23 11:43	06/23/23 22:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/23/23 11:43	06/23/23 22:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/23/23 11:43	06/23/23 22:44	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/23/23 11:43	06/23/23 22:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*06/23/23 11:43*	*06/23/23 22:44*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*06/23/23 11:43*	*06/23/23 22:44*	*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			06/26/23 09:47	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/26/23 11:27	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/23/23 13:55	06/24/23 02:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/23/23 13:55	06/24/23 02:23	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/23/23 13:55	06/24/23 02:23	1
Total TPH	<49.9	U	49.9		mg/Kg		06/23/23 13:55	06/24/23 02:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*06/23/23 13:55*	*06/24/23 02:23*	*1*
o-Terphenyl	*114*		*70 - 130*	*06/23/23 13:55*	*06/24/23 02:23*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**43.8**		5.05		mg/Kg			06/23/23 21:54	1

Client Sample ID: SS08

Lab Sample ID: 890-4846-8
Matrix: Solid
Date Collected: 06/21/23 12:15
Date Received: 06/21/23 15:26
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		06/23/23 11:43	06/23/23 23:10	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/23/23 11:43	06/23/23 23:10	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/23/23 11:43	06/23/23 23:10	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		06/23/23 11:43	06/23/23 23:10	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/23/23 11:43	06/23/23 23:10	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		06/23/23 11:43	06/23/23 23:10	1

Client Sample Results

Client: Ensolum
Project/Site: Brinninstoll Unit 003H

Job ID: 890-4846-1
SDG: 03C2012037

Client Sample ID: SS08

Lab Sample ID: 890-4846-8
Matrix: Solid
Date Collected: 06/21/23 12:15
Date Received: 06/21/23 15:26
Sample Depth: 0.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*06/23/23 11:43*	*06/23/23 23:10*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*06/23/23 11:43*	*06/23/23 23:10*	*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			06/26/23 09:47	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			06/26/23 11:27	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		06/23/23 13:55	06/24/23 02:45	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		06/23/23 13:55	06/24/23 02:45	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		06/23/23 13:55	06/24/23 02:45	1
Total TPH	<49.8	U	49.8	mg/Kg		06/23/23 13:55	06/24/23 02:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*116*		*70 - 130*	*06/23/23 13:55*	*06/24/23 02:45*	*1*
o-Terphenyl	*129*		*70 - 130*	*06/23/23 13:55*	*06/24/23 02:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**44.9**		4.98	mg/Kg			06/23/23 22:00	1

Client Sample ID: SS09

Lab Sample ID: 890-4846-9
Matrix: Solid
Date Collected: 06/21/23 12:25
Date Received: 06/21/23 15:26
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		06/23/23 11:43	06/23/23 23:36	1
Toluene	<0.00202	U	0.00202	mg/Kg		06/23/23 11:43	06/23/23 23:36	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		06/23/23 11:43	06/23/23 23:36	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		06/23/23 11:43	06/23/23 23:36	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		06/23/23 11:43	06/23/23 23:36	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		06/23/23 11:43	06/23/23 23:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*06/23/23 11:43*	*06/23/23 23:36*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*06/23/23 11:43*	*06/23/23 23:36*	*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			06/26/23 09:47	1

Client Sample Results

Client: Ensolum
Project/Site: Brinninstoll Unit 003H

Job ID: 890-4846-1
SDG: 03C2012037

Client Sample ID: SS09

Lab Sample ID: 890-4846-9
Matrix: Solid
Date Collected: 06/21/23 12:25
Date Received: 06/21/23 15:26
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/26/23 11:27	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/23/23 13:55	06/24/23 03:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/23/23 13:55	06/24/23 03:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/23/23 13:55	06/24/23 03:08	1
Total TPH	<50.0	U	50.0		mg/Kg		06/23/23 13:55	06/24/23 03:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*112*		*70 - 130*	*06/23/23 13:55*	*06/24/23 03:08*	*1*
o-Terphenyl	*123*		*70 - 130*	*06/23/23 13:55*	*06/24/23 03:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**33.0**		4.99		mg/Kg			06/23/23 22:06	1

Client Sample ID: SS10

Lab Sample ID: 890-4846-10
Matrix: Solid
Date Collected: 06/21/23 12:30
Date Received: 06/21/23 15:26
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/23/23 11:43	06/24/23 00:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/23/23 11:43	06/24/23 00:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/23/23 11:43	06/24/23 00:02	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		06/23/23 11:43	06/24/23 00:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/23/23 11:43	06/24/23 00:02	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/23/23 11:43	06/24/23 00:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*06/23/23 11:43*	*06/24/23 00:02*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*06/23/23 11:43*	*06/24/23 00:02*	*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			06/26/23 09:47	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**262**		49.9		mg/Kg			06/26/23 11:27	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/23/23 13:55	06/23/23 23:01	1
Diesel Range Organics (Over C10-C28)	**155**	**F1**	49.9		mg/Kg		06/23/23 13:55	06/23/23 23:01	1

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Client Sample Results

Client: Ensolum
Project/Site: Brinninstoll Unit 003H

Job ID: 890-4846-1
SDG: 03C2012037

Client Sample ID: SS10

Lab Sample ID: 890-4846-10
Matrix: Solid
Date Collected: 06/21/23 12:30
Date Received: 06/21/23 15:26
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	107		49.9		mg/Kg		06/23/23 13:55	06/23/23 23:01	1
Total TPH	262	F1	49.9		mg/Kg		06/23/23 13:55	06/23/23 23:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*06/23/23 13:55*	*06/23/23 23:01*	*1*
o-Terphenyl	*117*		*70 - 130*	*06/23/23 13:55*	*06/23/23 23:01*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	54.9		5.01		mg/Kg			06/23/23 22:12	1

Client Sample ID: SS11

Lab Sample ID: 890-4846-11
Matrix: Solid
Date Collected: 06/21/23 12:35
Date Received: 06/21/23 15:26
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/23/23 11:43	06/24/23 01:47	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/23/23 11:43	06/24/23 01:47	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/23/23 11:43	06/24/23 01:47	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/23/23 11:43	06/24/23 01:47	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/23/23 11:43	06/24/23 01:47	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/23/23 11:43	06/24/23 01:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*06/23/23 11:43*	*06/24/23 01:47*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*06/23/23 11:43*	*06/24/23 01:47*	*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			06/26/23 09:47	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			06/26/23 11:08	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		06/22/23 13:37	06/23/23 19:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/22/23 13:37	06/23/23 19:56	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/22/23 13:37	06/23/23 19:56	1
Total TPH	<50.0	U	50.0		mg/Kg		06/22/23 13:37	06/23/23 19:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*06/22/23 13:37*	*06/23/23 19:56*	*1*
o-Terphenyl	*101*		*70 - 130*	*06/22/23 13:37*	*06/23/23 19:56*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Brinninstoll Unit 003H

Job ID: 890-4846-1
SDG: 03C2012037

Client Sample ID: SS11

Lab Sample ID: 890-4846-11
Matrix: Solid
Date Collected: 06/21/23 12:35
Date Received: 06/21/23 15:26
Sample Depth: 0.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1750		24.9		mg/Kg			06/23/23 22:17	5

Client Sample ID: SS12

Lab Sample ID: 890-4846-12
Matrix: Solid
Date Collected: 06/21/23 12:40
Date Received: 06/21/23 15:26
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		06/23/23 11:43	06/24/23 02:12	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/23/23 11:43	06/24/23 02:12	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/23/23 11:43	06/24/23 02:12	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		06/23/23 11:43	06/24/23 02:12	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/23/23 11:43	06/24/23 02:12	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		06/23/23 11:43	06/24/23 02:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*06/23/23 11:43*	*06/24/23 02:12*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*06/23/23 11:43*	*06/24/23 02:12*	*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			06/26/23 09:47	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			06/26/23 11:08	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		06/22/23 13:37	06/23/23 20:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/22/23 13:37	06/23/23 20:19	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/22/23 13:37	06/23/23 20:19	1
Total TPH	<50.0	U	50.0		mg/Kg		06/22/23 13:37	06/23/23 20:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*114*		*70 - 130*	*06/22/23 13:37*	*06/23/23 20:19*	*1*
o-Terphenyl	*104*		*70 - 130*	*06/22/23 13:37*	*06/23/23 20:19*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3890		25.1		mg/Kg			06/23/23 22:35	5

Surrogate Summary

Client: Ensolum
Project/Site: Brinninstoll Unit 003H

Job ID: 890-4846-1
SDG: 03C2012037

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-4846-1	SS01	100	92
890-4846-1 MS	SS01	95	97
890-4846-1 MSD	SS01	103	104
890-4846-2	SS02	104	99
890-4846-3	SS03	99	85
890-4846-4	SS04	101	97
890-4846-5	SS05	112	94
890-4846-6	SS06	106	106
890-4846-7	SS07	107	94
890-4846-8	SS08	100	103
890-4846-9	SS09	109	89
890-4846-10	SS10	107	103
890-4846-11	SS11	103	90
890-4846-12	SS12	115	107
LCS 880-56200/1-A	Lab Control Sample	99	107
LCSD 880-56200/2-A	Lab Control Sample Dup	92	99
MB 880-56200/5-A	Method Blank	59 S1-	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)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-29850-A-21-E MS	Matrix Spike	120	99
880-29850-A-21-F MSD	Matrix Spike Duplicate	120	99
890-4846-1	SS01	127	137 S1+
890-4846-2	SS02	110	122
890-4846-3	SS03	114	126
890-4846-4	SS04	113	126
890-4846-5	SS05	109	122
890-4846-6	SS06	110	124
890-4846-7	SS07	103	114
890-4846-8	SS08	116	129
890-4846-9	SS09	112	123
890-4846-10	SS10	108	117
890-4846-10 MS	SS10	101	102
890-4846-10 MSD	SS10	112	112
890-4846-11	SS11	111	101
890-4846-12	SS12	114	104
LCS 880-56098/2-A	Lab Control Sample	113	101
LCS 880-56210/2-A	Lab Control Sample	84	96
LCSD 880-56098/3-A	Lab Control Sample Dup	106	95
LCSD 880-56210/3-A	Lab Control Sample Dup	99	112
MB 880-56098/1-A	Method Blank	143 S1+	133 S1+
MB 880-56210/1-A	Method Blank	165 S1+	184 S1+

Surrogate Summary

Client: Ensolum
Project/Site: Brinninstoll Unit 003H

Job ID: 890-4846-1
SDG: 03C2012037

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Brinninstoll Unit 003H

Job ID: 890-4846-1
SDG: 03C2012037

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-56200/5-A
Matrix: Solid
Analysis Batch: 56227

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 56200

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/23/23 11:43	06/23/23 19:41	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/23/23 11:43	06/23/23 19:41	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/23/23 11:43	06/23/23 19:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/23/23 11:43	06/23/23 19:41	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/23/23 11:43	06/23/23 19:41	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/23/23 11:43	06/23/23 19:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*59*	*S1-*	*70 - 130*	*06/23/23 11:43*	*06/23/23 19:41*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*06/23/23 11:43*	*06/23/23 19:41*	*1*

Lab Sample ID: LCS 880-56200/1-A
Matrix: Solid
Analysis Batch: 56227

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 56200

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1193		mg/Kg		119	70 - 130		
Toluene			0.100	0.1129		mg/Kg		113	70 - 130		
Ethylbenzene			0.100	0.1162		mg/Kg		116	70 - 130		
m-Xylene & p-Xylene			0.200	0.2352		mg/Kg		118	70 - 130		
o-Xylene			0.100	0.1132		mg/Kg		113	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: LCSD 880-56200/2-A
Matrix: Solid
Analysis Batch: 56227

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 56200

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1125		mg/Kg		112	70 - 130	6	35
Toluene			0.100	0.1097		mg/Kg		110	70 - 130	3	35
Ethylbenzene			0.100	0.1053		mg/Kg		105	70 - 130	10	35
m-Xylene & p-Xylene			0.200	0.2124		mg/Kg		106	70 - 130	10	35
o-Xylene			0.100	0.1103		mg/Kg		110	70 - 130	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: 890-4846-1 MS
Matrix: Solid
Analysis Batch: 56227

Client Sample ID: SS01
Prep Type: Total/NA
Prep Batch: 56200

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00198	U	0.101	0.1141		mg/Kg		113	70 - 130		
Toluene	<0.00198	U	0.101	0.1134		mg/Kg		112	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: Brinninstoll Unit 003H

Job ID: 890-4846-1
SDG: 03C2012037

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

Lab Sample ID: 890-4846-1 MS
Matrix: Solid
Analysis Batch: 56227

Client Sample ID: SS01
Prep Type: Total/NA
Prep Batch: 56200

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00198	U	0.101	0.1074		mg/Kg		107	70 - 130
m-Xylene & p-Xylene	<0.00396	U	0.202	0.2156		mg/Kg		107	70 - 130
o-Xylene	<0.00198	U	0.101	0.1073		mg/Kg		106	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: 890-4846-1 MSD
Matrix: Solid
Analysis Batch: 56227

Client Sample ID: SS01
Prep Type: Total/NA
Prep Batch: 56200

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.100	0.1299		mg/Kg		130	70 - 130	13	35
Toluene	<0.00198	U	0.100	0.1242		mg/Kg		124	70 - 130	9	35
Ethylbenzene	<0.00198	U	0.100	0.1199		mg/Kg		120	70 - 130	11	35
m-Xylene & p-Xylene	<0.00396	U	0.200	0.2418		mg/Kg		121	70 - 130	11	35
o-Xylene	<0.00198	U	0.100	0.1199		mg/Kg		120	70 - 130	11	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

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

Lab Sample ID: MB 880-56098/1-A
Matrix: Solid
Analysis Batch: 56145

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 56098

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		06/22/23 13:37	06/23/23 09:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/22/23 13:37	06/23/23 09:08	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/22/23 13:37	06/23/23 09:08	1
Total TPH	<50.0	U	50.0		mg/Kg		06/22/23 13:37	06/23/23 09:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*143*	*S1+*	*70 - 130*	*06/22/23 13:37*	*06/23/23 09:08*	*1*
o-Terphenyl	*133*	*S1+*	*70 - 130*	*06/22/23 13:37*	*06/23/23 09:08*	*1*

Lab Sample ID: LCS 880-56098/2-A
Matrix: Solid
Analysis Batch: 56145

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 56098

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	909.5		mg/Kg		91	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Brinninstoll Unit 003H

Job ID: 890-4846-1
SDG: 03C2012037

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

Lab Sample ID: LCS 880-56098/2-A
Matrix: Solid
Analysis Batch: 56145

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 56098

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics (Over C10-C28)			1000	943.2		mg/Kg		94	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*113*		*70 - 130*
o-Terphenyl	*101*		*70 - 130*

Lab Sample ID: LCSD 880-56098/3-A
Matrix: Solid
Analysis Batch: 56145

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 56098

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	989.2		mg/Kg		99	70 - 130	8	20
Diesel Range Organics (Over C10-C28)			1000	968.7		mg/Kg		97	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*106*		*70 - 130*
o-Terphenyl	*95*		*70 - 130*

Lab Sample ID: 880-29850-A-21-E MS
Matrix: Solid
Analysis Batch: 56145

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 56098

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	1044		mg/Kg		102	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	1017		mg/Kg		97	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*120*		*70 - 130*
o-Terphenyl	*99*		*70 - 130*

Lab Sample ID: 880-29850-A-21-F MSD
Matrix: Solid
Analysis Batch: 56145

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 56098

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	998	1018		mg/Kg		100	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U	998	1034		mg/Kg		99	70 - 130	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*120*		*70 - 130*
o-Terphenyl	*99*		*70 - 130*

QC Sample Results

Client: Ensolum
Project/Site: Brinninstoll Unit 003H

Job ID: 890-4846-1
SDG: 03C2012037

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

Lab Sample ID: MB 880-56210/1-A
Matrix: Solid
Analysis Batch: 56147

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 56210

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		06/23/23 13:55	06/23/23 21:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/23/23 13:55	06/23/23 21:52	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/23/23 13:55	06/23/23 21:52	1
Total TPH	<50.0	U	50.0		mg/Kg		06/23/23 13:55	06/23/23 21:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*165*	*S1+*	*70 - 130*	*06/23/23 13:55*	*06/23/23 21:52*	*1*
o-Terphenyl	*184*	*S1+*	*70 - 130*	*06/23/23 13:55*	*06/23/23 21:52*	*1*

Lab Sample ID: LCS 880-56210/2-A
Matrix: Solid
Analysis Batch: 56147

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 56210

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	997.7		mg/Kg		100	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	943.5		mg/Kg		94	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*84*		*70 - 130*
o-Terphenyl	*96*		*70 - 130*

Lab Sample ID: LCSD 880-56210/3-A
Matrix: Solid
Analysis Batch: 56147

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 56210

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1010		mg/Kg		101	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	975.5		mg/Kg		98	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*99*		*70 - 130*
o-Terphenyl	*112*		*70 - 130*

Lab Sample ID: 890-4846-10 MS
Matrix: Solid
Analysis Batch: 56147

Client Sample ID: SS10
Prep Type: Total/NA
Prep Batch: 56210

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	867.4		mg/Kg		87	70 - 130		
Diesel Range Organics (Over C10-C28)	155	F1	999	782.1	F1	mg/Kg		63	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: Brinninstoll Unit 003H

Job ID: 890-4846-1
SDG: 03C2012037

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

Lab Sample ID: 890-4846-10 MS
Matrix: Solid
Analysis Batch: 56147

Client Sample ID: SS10
Prep Type: Total/NA
Prep Batch: 56210

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*101*		*70 - 130*
o-Terphenyl	*102*		*70 - 130*

Lab Sample ID: 890-4846-10 MSD
Matrix: Solid
Analysis Batch: 56147

Client Sample ID: SS10
Prep Type: Total/NA
Prep Batch: 56210

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	970.1		mg/Kg		97	70 - 130	11	20
Diesel Range Organics (Over C10-C28)	155	F1	999	880.9		mg/Kg		73	70 - 130	12	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*112*		*70 - 130*
o-Terphenyl	*112*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-56174/1-A
Matrix: Solid
Analysis Batch: 56235

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			06/23/23 20:38	1

Lab Sample ID: LCS 880-56174/2-A
Matrix: Solid
Analysis Batch: 56235

Client Sample ID: Lab Control Sample
Prep Type: Soluble

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

Lab Sample ID: LCSD 880-56174/3-A
Matrix: Solid
Analysis Batch: 56235

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	250.4		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 890-4846-1 MS
Matrix: Solid
Analysis Batch: 56235

Client Sample ID: SS01
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	34.1		252	279.6		mg/Kg		97	90 - 110		

QC Sample Results

Client: Ensolum
Project/Site: Brinninstoll Unit 003H

Job ID: 890-4846-1
SDG: 03C2012037

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-4846-1 MSD
Matrix: Solid
Analysis Batch: 56235

Client Sample ID: SS01
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	34.1		252	280.3		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 890-4846-11 MS
Matrix: Solid
Analysis Batch: 56235

Client Sample ID: SS11
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1750		1250	3105		mg/Kg		109	90 - 110

Lab Sample ID: 890-4846-11 MSD
Matrix: Solid
Analysis Batch: 56235

Client Sample ID: SS11
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1750		1250	3098		mg/Kg		109	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: Brinninstoll Unit 003H

Job ID: 890-4846-1
SDG: 03C2012037

GC VOA

Prep Batch: 56200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4846-1	SS01	Total/NA	Solid	5035	
890-4846-2	SS02	Total/NA	Solid	5035	
890-4846-3	SS03	Total/NA	Solid	5035	
890-4846-4	SS04	Total/NA	Solid	5035	
890-4846-5	SS05	Total/NA	Solid	5035	
890-4846-6	SS06	Total/NA	Solid	5035	
890-4846-7	SS07	Total/NA	Solid	5035	
890-4846-8	SS08	Total/NA	Solid	5035	
890-4846-9	SS09	Total/NA	Solid	5035	
890-4846-10	SS10	Total/NA	Solid	5035	
890-4846-11	SS11	Total/NA	Solid	5035	
890-4846-12	SS12	Total/NA	Solid	5035	
MB 880-56200/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-56200/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-56200/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4846-1 MS	SS01	Total/NA	Solid	5035	
890-4846-1 MSD	SS01	Total/NA	Solid	5035	

Analysis Batch: 56227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4846-1	SS01	Total/NA	Solid	8021B	56200
890-4846-2	SS02	Total/NA	Solid	8021B	56200
890-4846-3	SS03	Total/NA	Solid	8021B	56200
890-4846-4	SS04	Total/NA	Solid	8021B	56200
890-4846-5	SS05	Total/NA	Solid	8021B	56200
890-4846-6	SS06	Total/NA	Solid	8021B	56200
890-4846-7	SS07	Total/NA	Solid	8021B	56200
890-4846-8	SS08	Total/NA	Solid	8021B	56200
890-4846-9	SS09	Total/NA	Solid	8021B	56200
890-4846-10	SS10	Total/NA	Solid	8021B	56200
890-4846-11	SS11	Total/NA	Solid	8021B	56200
890-4846-12	SS12	Total/NA	Solid	8021B	56200
MB 880-56200/5-A	Method Blank	Total/NA	Solid	8021B	56200
LCS 880-56200/1-A	Lab Control Sample	Total/NA	Solid	8021B	56200
LCSD 880-56200/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	56200
890-4846-1 MS	SS01	Total/NA	Solid	8021B	56200
890-4846-1 MSD	SS01	Total/NA	Solid	8021B	56200

Analysis Batch: 56311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4846-1	SS01	Total/NA	Solid	Total BTEX	
890-4846-2	SS02	Total/NA	Solid	Total BTEX	
890-4846-3	SS03	Total/NA	Solid	Total BTEX	
890-4846-4	SS04	Total/NA	Solid	Total BTEX	
890-4846-5	SS05	Total/NA	Solid	Total BTEX	
890-4846-6	SS06	Total/NA	Solid	Total BTEX	
890-4846-7	SS07	Total/NA	Solid	Total BTEX	
890-4846-8	SS08	Total/NA	Solid	Total BTEX	
890-4846-9	SS09	Total/NA	Solid	Total BTEX	
890-4846-10	SS10	Total/NA	Solid	Total BTEX	
890-4846-11	SS11	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Ensolum
Project/Site: Brinninstoll Unit 003H

Job ID: 890-4846-1
SDG: 03C2012037

GC VOA (Continued)

Analysis Batch: 56311 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4846-12	SS12	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 56098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4846-11	SS11	Total/NA	Solid	8015NM Prep	
890-4846-12	SS12	Total/NA	Solid	8015NM Prep	
MB 880-56098/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-56098/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-56098/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-29850-A-21-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-29850-A-21-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 56145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4846-11	SS11	Total/NA	Solid	8015B NM	56098
890-4846-12	SS12	Total/NA	Solid	8015B NM	56098
MB 880-56098/1-A	Method Blank	Total/NA	Solid	8015B NM	56098
LCS 880-56098/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	56098
LCSD 880-56098/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	56098
880-29850-A-21-E MS	Matrix Spike	Total/NA	Solid	8015B NM	56098
880-29850-A-21-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	56098

Analysis Batch: 56147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4846-1	SS01	Total/NA	Solid	8015B NM	56210
890-4846-2	SS02	Total/NA	Solid	8015B NM	56210
890-4846-3	SS03	Total/NA	Solid	8015B NM	56210
890-4846-4	SS04	Total/NA	Solid	8015B NM	56210
890-4846-5	SS05	Total/NA	Solid	8015B NM	56210
890-4846-6	SS06	Total/NA	Solid	8015B NM	56210
890-4846-7	SS07	Total/NA	Solid	8015B NM	56210
890-4846-8	SS08	Total/NA	Solid	8015B NM	56210
890-4846-9	SS09	Total/NA	Solid	8015B NM	56210
890-4846-10	SS10	Total/NA	Solid	8015B NM	56210
MB 880-56210/1-A	Method Blank	Total/NA	Solid	8015B NM	56210
LCS 880-56210/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	56210
LCSD 880-56210/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	56210
890-4846-10 MS	SS10	Total/NA	Solid	8015B NM	56210
890-4846-10 MSD	SS10	Total/NA	Solid	8015B NM	56210

Prep Batch: 56210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4846-1	SS01	Total/NA	Solid	8015NM Prep	
890-4846-2	SS02	Total/NA	Solid	8015NM Prep	
890-4846-3	SS03	Total/NA	Solid	8015NM Prep	
890-4846-4	SS04	Total/NA	Solid	8015NM Prep	
890-4846-5	SS05	Total/NA	Solid	8015NM Prep	
890-4846-6	SS06	Total/NA	Solid	8015NM Prep	
890-4846-7	SS07	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum
Project/Site: Brinninstoll Unit 003H

Job ID: 890-4846-1
SDG: 03C2012037

GC Semi VOA (Continued)

Prep Batch: 56210 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4846-8	SS08	Total/NA	Solid	8015NM Prep	
890-4846-9	SS09	Total/NA	Solid	8015NM Prep	
890-4846-10	SS10	Total/NA	Solid	8015NM Prep	
MB 880-56210/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-56210/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-56210/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4846-10 MS	SS10	Total/NA	Solid	8015NM Prep	
890-4846-10 MSD	SS10	Total/NA	Solid	8015NM Prep	

Analysis Batch: 56344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4846-1	SS01	Total/NA	Solid	8015 NM	
890-4846-2	SS02	Total/NA	Solid	8015 NM	
890-4846-3	SS03	Total/NA	Solid	8015 NM	
890-4846-4	SS04	Total/NA	Solid	8015 NM	
890-4846-5	SS05	Total/NA	Solid	8015 NM	
890-4846-6	SS06	Total/NA	Solid	8015 NM	
890-4846-7	SS07	Total/NA	Solid	8015 NM	
890-4846-8	SS08	Total/NA	Solid	8015 NM	
890-4846-9	SS09	Total/NA	Solid	8015 NM	
890-4846-10	SS10	Total/NA	Solid	8015 NM	
890-4846-11	SS11	Total/NA	Solid	8015 NM	
890-4846-12	SS12	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 56174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4846-1	SS01	Soluble	Solid	DI Leach	
890-4846-2	SS02	Soluble	Solid	DI Leach	
890-4846-3	SS03	Soluble	Solid	DI Leach	
890-4846-4	SS04	Soluble	Solid	DI Leach	
890-4846-5	SS05	Soluble	Solid	DI Leach	
890-4846-6	SS06	Soluble	Solid	DI Leach	
890-4846-7	SS07	Soluble	Solid	DI Leach	
890-4846-8	SS08	Soluble	Solid	DI Leach	
890-4846-9	SS09	Soluble	Solid	DI Leach	
890-4846-10	SS10	Soluble	Solid	DI Leach	
890-4846-11	SS11	Soluble	Solid	DI Leach	
890-4846-12	SS12	Soluble	Solid	DI Leach	
MB 880-56174/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-56174/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-56174/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4846-1 MS	SS01	Soluble	Solid	DI Leach	
890-4846-1 MSD	SS01	Soluble	Solid	DI Leach	
890-4846-11 MS	SS11	Soluble	Solid	DI Leach	
890-4846-11 MSD	SS11	Soluble	Solid	DI Leach	

Analysis Batch: 56235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4846-1	SS01	Soluble	Solid	300.0	56174

QC Association Summary

Client: Ensolum
Project/Site: Brinninstoll Unit 003H

Job ID: 890-4846-1
SDG: 03C2012037

HPLC/IC (Continued)

Analysis Batch: 56235 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4846-2	SS02	Soluble	Solid	300.0	56174
890-4846-3	SS03	Soluble	Solid	300.0	56174
890-4846-4	SS04	Soluble	Solid	300.0	56174
890-4846-5	SS05	Soluble	Solid	300.0	56174
890-4846-6	SS06	Soluble	Solid	300.0	56174
890-4846-7	SS07	Soluble	Solid	300.0	56174
890-4846-8	SS08	Soluble	Solid	300.0	56174
890-4846-9	SS09	Soluble	Solid	300.0	56174
890-4846-10	SS10	Soluble	Solid	300.0	56174
890-4846-11	SS11	Soluble	Solid	300.0	56174
890-4846-12	SS12	Soluble	Solid	300.0	56174
MB 880-56174/1-A	Method Blank	Soluble	Solid	300.0	56174
LCS 880-56174/2-A	Lab Control Sample	Soluble	Solid	300.0	56174
LCSD 880-56174/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	56174
890-4846-1 MS	SS01	Soluble	Solid	300.0	56174
890-4846-1 MSD	SS01	Soluble	Solid	300.0	56174
890-4846-11 MS	SS11	Soluble	Solid	300.0	56174
890-4846-11 MSD	SS11	Soluble	Solid	300.0	56174

Lab Chronicle

Client: Ensolum
Project/Site: Brinninstoll Unit 003H

Job ID: 890-4846-1
SDG: 03C2012037

Client Sample ID: SS01
Date Collected: 06/21/23 11:30
Date Received: 06/21/23 15:26

Lab Sample ID: 890-4846-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	56200	06/23/23 11:43	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56227	06/23/23 20:07	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56311	06/26/23 09:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			56344	06/26/23 11:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	56210	06/23/23 13:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56147	06/24/23 00:09	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	56174	06/23/23 10:39	KS	EET MID
Soluble	Analysis	300.0		1			56235	06/23/23 20:56	SMC	EET MID

Client Sample ID: SS02
Date Collected: 06/21/23 11:35
Date Received: 06/21/23 15:26

Lab Sample ID: 890-4846-2
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			4.97 g	5 mL	56200	06/23/23 11:43	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56227	06/23/23 20:33	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56311	06/26/23 09:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			56344	06/26/23 11:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	56210	06/23/23 13:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56147	06/24/23 00:31	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	56174	06/23/23 10:39	KS	EET MID
Soluble	Analysis	300.0		1			56235	06/23/23 21:13	SMC	EET MID

Client Sample ID: SS03
Date Collected: 06/21/23 11:40
Date Received: 06/21/23 15:26

Lab Sample ID: 890-4846-3
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			4.99 g	5 mL	56200	06/23/23 11:43	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56227	06/23/23 21:00	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56311	06/26/23 09:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			56344	06/26/23 11:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	56210	06/23/23 13:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56147	06/24/23 00:54	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	56174	06/23/23 10:39	KS	EET MID
Soluble	Analysis	300.0		1			56235	06/23/23 21:19	SMC	EET MID

Client Sample ID: SS04
Date Collected: 06/21/23 11:45
Date Received: 06/21/23 15:26

Lab Sample ID: 890-4846-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	56200	06/23/23 11:43	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56227	06/23/23 21:26	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56311	06/26/23 09:47	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: Brinninstoll Unit 003H

Job ID: 890-4846-1
SDG: 03C2012037

Client Sample ID: SS04
Date Collected: 06/21/23 11:45
Date Received: 06/21/23 15:26

Lab Sample ID: 890-4846-4
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			56344	06/26/23 11:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	56210	06/23/23 13:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56147	06/24/23 01:17	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	56174	06/23/23 10:39	KS	EET MID
Soluble	Analysis	300.0		1			56235	06/23/23 21:25	SMC	EET MID

Client Sample ID: SS05
Date Collected: 06/21/23 12:00
Date Received: 06/21/23 15:26

Lab Sample ID: 890-4846-5
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			5.03 g	5 mL	56200	06/23/23 11:43	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56227	06/23/23 21:52	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56311	06/26/23 09:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			56344	06/26/23 11:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	56210	06/23/23 13:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56147	06/24/23 01:39	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	56174	06/23/23 10:39	KS	EET MID
Soluble	Analysis	300.0		1			56235	06/23/23 21:31	SMC	EET MID

Client Sample ID: SS06
Date Collected: 06/21/23 12:05
Date Received: 06/21/23 15:26

Lab Sample ID: 890-4846-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	56200	06/23/23 11:43	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56227	06/23/23 22:18	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56311	06/26/23 09:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			56344	06/26/23 11:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	56210	06/23/23 13:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56147	06/24/23 02:01	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	56174	06/23/23 10:39	KS	EET MID
Soluble	Analysis	300.0		1			56235	06/23/23 21:48	SMC	EET MID

Client Sample ID: SS07
Date Collected: 06/21/23 12:10
Date Received: 06/21/23 15:26

Lab Sample ID: 890-4846-7
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	56200	06/23/23 11:43	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56227	06/23/23 22:44	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56311	06/26/23 09:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			56344	06/26/23 11:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	56210	06/23/23 13:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56147	06/24/23 02:23	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Brinninstoll Unit 003H

Job ID: 890-4846-1
SDG: 03C2012037

Client Sample ID: SS07
Date Collected: 06/21/23 12:10
Date Received: 06/21/23 15:26

Lab Sample ID: 890-4846-7
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			4.95 g	50 mL	56174	06/23/23 10:39	KS	EET MID
Soluble	Analysis	300.0		1			56235	06/23/23 21:54	SMC	EET MID

Client Sample ID: SS08
Date Collected: 06/21/23 12:15
Date Received: 06/21/23 15:26

Lab Sample ID: 890-4846-8
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	56200	06/23/23 11:43	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56227	06/23/23 23:10	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56311	06/26/23 09:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			56344	06/26/23 11:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	56210	06/23/23 13:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56147	06/24/23 02:45	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	56174	06/23/23 10:39	KS	EET MID
Soluble	Analysis	300.0		1			56235	06/23/23 22:00	SMC	EET MID

Client Sample ID: SS09
Date Collected: 06/21/23 12:25
Date Received: 06/21/23 15:26

Lab Sample ID: 890-4846-9
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			4.95 g	5 mL	56200	06/23/23 11:43	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56227	06/23/23 23:36	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56311	06/26/23 09:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			56344	06/26/23 11:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	56210	06/23/23 13:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56147	06/24/23 03:08	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	56174	06/23/23 10:39	KS	EET MID
Soluble	Analysis	300.0		1			56235	06/23/23 22:06	SMC	EET MID

Client Sample ID: SS10
Date Collected: 06/21/23 12:30
Date Received: 06/21/23 15:26

Lab Sample ID: 890-4846-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	56200	06/23/23 11:43	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56227	06/24/23 00:02	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56311	06/26/23 09:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			56344	06/26/23 11:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	56210	06/23/23 13:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56147	06/23/23 23:01	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	56174	06/23/23 10:39	KS	EET MID
Soluble	Analysis	300.0		1			56235	06/23/23 22:12	SMC	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Brinninstoll Unit 003H

Job ID: 890-4846-1
SDG: 03C2012037

Client Sample ID: SS11

Date Collected: 06/21/23 12:35
Date Received: 06/21/23 15:26

Lab Sample ID: 890-4846-11

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	56200	06/23/23 11:43	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56227	06/24/23 01:47	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56311	06/26/23 09:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			56344	06/26/23 11:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	56098	06/22/23 13:37	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56145	06/23/23 19:56	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	56174	06/23/23 10:39	KS	EET MID
Soluble	Analysis	300.0		5			56235	06/23/23 22:17	SMC	EET MID

Client Sample ID: SS12

Date Collected: 06/21/23 12:40
Date Received: 06/21/23 15:26

Lab Sample ID: 890-4846-12

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	56200	06/23/23 11:43	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56227	06/24/23 02:12	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56311	06/26/23 09:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			56344	06/26/23 11:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	56098	06/22/23 13:37	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56145	06/23/23 20:19	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	56174	06/23/23 10:39	KS	EET MID
Soluble	Analysis	300.0		5			56235	06/23/23 22:35	SMC	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Brinninstoll Unit 003H

Job ID: 890-4846-1
SDG: 03C2012037

Laboratory: Eurofins Midland

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

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

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

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

Method Summary

Client: Ensolum
Project/Site: Brinninstoll Unit 003H

Job ID: 890-4846-1
SDG: 03C2012037

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: Brinninstoll Unit 003H

Job ID: 890-4846-1
SDG: 03C2012037

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4846-1	SS01	Solid	06/21/23 11:30	06/21/23 15:26	0.5
890-4846-2	SS02	Solid	06/21/23 11:35	06/21/23 15:26	0.5
890-4846-3	SS03	Solid	06/21/23 11:40	06/21/23 15:26	0.5
890-4846-4	SS04	Solid	06/21/23 11:45	06/21/23 15:26	0.5
890-4846-5	SS05	Solid	06/21/23 12:00	06/21/23 15:26	0.5
890-4846-6	SS06	Solid	06/21/23 12:05	06/21/23 15:26	0.5
890-4846-7	SS07	Solid	06/21/23 12:10	06/21/23 15:26	0.5
890-4846-8	SS08	Solid	06/21/23 12:15	06/21/23 15:26	0.5
890-4846-9	SS09	Solid	06/21/23 12:25	06/21/23 15:26	0.5
890-4846-10	SS10	Solid	06/21/23 12:30	06/21/23 15:26	0.5
890-4846-11	SS11	Solid	06/21/23 12:35	06/21/23 15:26	0.5
890-4846-12	SS12	Solid	06/21/23 12:40	06/21/23 15:26	0.5

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Chain of Custody

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

Work Order No: _____

www.xenco.com Page 1 of 2

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

Work Order Comments

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

Project Name:	Brinninstool Unit 003H	Turn Around	
Project Number:	03C2012037	☑ Routine ☐ Rush	
Project Location:	32.29733,-103.58598	Due Date:	
Sampler's Name:	Peter Van Patten	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	TNM007
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	4.2
Total Containers:		Corrected Temperature:	4.0

Preservative Codes

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

ANALYSIS REQUEST

Pres. Code / Parameters: CHLORIDES (EPA: 300.0); TPH (8015); BTEX (8021)

890-4846 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)	Sample Comments
SS01	Soil	6/21/2023	1130	0.5	Comp	1	x	x	x	
SS02	Soil	6/21/2023	1135	0.5	Comp	1	x	x	x	
SS03	Soil	6/21/2023	1140	0.5	Comp	1	x	x	x	
SS04	Soil	6/21/2023	1145	0.5	Comp	1	x	x	x	
SS05	Soil	6/21/2023	1200	0.5	Comp	1	x	x	x	
SS06	Soil	6/21/2023	1205	0.5	Comp	1	x	x	x	
SS07	Soil	6/21/2023	1210	0.5	Comp	1	x	x	x	
SS08	Soil	6/21/2023	1215	0.5	Comp	1	x	x	x	
SS09	Soil	6/21/2023	1225	0.5	Comp	1	x	x	x	
SS10	Soil	6/21/2023	1230	0.5	Comp	1	x	x	x	

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

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		6.21.23 1536	4		
3			6		
5					

Revised Date: 08/25/2020 Rev. 2020.2

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Chain of Custody

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

Work Order No: _____

www.xenco.com Page 2 of 2

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

Work Order Comments

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

Project Name:	Brinninstool Unit 003H	Turn Around	☑ Routine ☐ Rush
Project Number:	03C2012037	Due Date:	
Project Location:	32.29733,-103.58598	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Peter Van Patten		
PO #:			

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

Preservative Codes

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)	Sample Comments
SS11	Soil	6/21/2023	1235	0.5	Comp	1		x	x	x	
SS12	Soil	6/21/2023	1240	0.5	Comp	1		x	x	x	

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

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Peter Van Patten	Cole Alp	6.21.2315			
3			4		
5			6		

Revised Date 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4846-1
SDG Number: 03C2012037

Login Number: 4846
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4846-1
SDG Number: 03C2012037

Login Number: 4846
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 06/23/23 10:53 AM

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

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 7/24/2023 2:59:38 PM

JOB DESCRIPTION

Brinninstool Unit 003H
SDG NUMBER 03D2024197

JOB NUMBER

890-4914-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

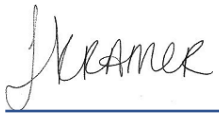
Eurofins Carlsbad

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
7/24/2023 2:59:38 PM

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

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Laboratory Job ID: 890-4914-1
SDG: 03D2024197

Table of Contents

Definitions/Glossary

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

Qualifiers

GC VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

Job ID: 890-4914-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-4914-1

Receipt
The samples were received on 7/7/2023 2:57 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.0°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: FS01 (890-4914-1), FS02 (890-4914-2), FS03 (890-4914-3), FS04 (890-4914-4), FS05 (890-4914-5), FS06 (890-4914-6), FS07 (890-4914-7), FS08 (890-4914-8), FS09 (890-4914-9), FS10 (890-4914-10), SS05A (890-4914-11), SS06A (890-4914-12), SS07A (890-4914-13), SS08A (890-4914-14), SS09A (890-4914-15), SW01 (890-4914-16) and SW02 (890-4914-17).

GC VOA
Method 8021B: Surrogate recovery for the following samples were outside control limits: (LCSD 880-57410/2-A) and (MB 880-57410/5-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following samples were outside control limits: FS02 (890-4914-2), FS03 (890-4914-3), FS05 (890-4914-5) and SS07A (890-4914-13). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-57410 and analytical batch 880-57379 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: LCSD biased low. Since only an acceptable LCS is required per the method, the data has been qualified and reported. (LCSD 880-57410/2-A)

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-57379 recovered below the lower control limit for Benzene. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated samples are impacted: (CCV 880-57379/20) and (CCV 880-57379/51).

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-57381 recovered below the lower control limit for o-Xylene. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-57381/20).

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-57416 and analytical batch 880-57381 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (CCV 880-57560/20), (CCV 880-57560/33), (LCS 880-57410/1-A) and (LCSD 880-57410/2-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following samples were outside control limits: FS01 (890-4914-1), FS02 (890-4914-2), FS03 (890-4914-3), FS04 (890-4914-4), FS07 (890-4914-7), FS08 (890-4914-8), FS09 (890-4914-9), FS10 (890-4914-10), SS05A (890-4914-11), SS06A (890-4914-12), SS07A (890-4914-13), SS08A (890-4914-14) and (890-4913-A-1-C MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-57560 recovered above the upper control limit for Benzene and Ethylbenzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-57560/33).

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

Case Narrative

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

Job ID: 890-4914-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-57501 and analytical batch 880-57664 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-57664/20), (CCV 880-57664/31) and (CCV 880-57664/5). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SS06A (890-4914-12), SS07A (890-4914-13), (890-4915-A-1-E) and (890-4915-A-1-F MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-57801 and analytical batch 880-58259 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-58259/20), (CCV 880-58259/31) and (CCV 880-58259/5). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: FS03 (890-4914-3) and FS04 (890-4914-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: FS06 (890-4914-6), FS08 (890-4914-8) and FS09 (890-4914-9). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-57365 and analytical batch 880-57420 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

Client Sample ID: FS01

Lab Sample ID: 890-4914-1
Matrix: Solid
Date Collected: 07/07/23 10:25
Date Received: 07/07/23 14:57
Sample Depth: 2.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		07/11/23 12:32	07/12/23 02:01	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/11/23 12:32	07/12/23 02:01	1
Ethylbenzene	<0.00198	U *- *1	0.00198		mg/Kg		07/11/23 12:32	07/12/23 02:01	1
m-Xylene & p-Xylene	<0.00396	U *- *1	0.00396		mg/Kg		07/11/23 12:32	07/12/23 02:01	1
o-Xylene	<0.00198	U *- *1	0.00198		mg/Kg		07/11/23 12:32	07/12/23 02:01	1
Xylenes, Total	<0.00396	U *- *1	0.00396		mg/Kg		07/11/23 12:32	07/12/23 02:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*07/11/23 12:32*	*07/12/23 02:01*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*07/11/23 12:32*	*07/12/23 02:01*	*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			07/12/23 11:12	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			07/24/23 14:27	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		07/17/23 09:21	07/22/23 17:10	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/17/23 09:21	07/22/23 17:10	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/17/23 09:21	07/22/23 17:10	1
Total TPH	<49.8	U	49.8		mg/Kg		07/17/23 09:21	07/22/23 17:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*07/17/23 09:21*	*07/22/23 17:10*	*1*
o-Terphenyl	*95*		*70 - 130*	*07/17/23 09:21*	*07/22/23 17:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**76.9**		4.99		mg/Kg			07/11/23 18:29	1

Client Sample ID: FS02

Lab Sample ID: 890-4914-2
Matrix: Solid
Date Collected: 07/07/23 10:30
Date Received: 07/07/23 14:57
Sample Depth: 2.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/11/23 12:32	07/12/23 02:21	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/11/23 12:32	07/12/23 02:21	1
Ethylbenzene	<0.00199	U *- *1	0.00199		mg/Kg		07/11/23 12:32	07/12/23 02:21	1
m-Xylene & p-Xylene	<0.00398	U *- *1	0.00398		mg/Kg		07/11/23 12:32	07/12/23 02:21	1
o-Xylene	<0.00199	U *- *1	0.00199		mg/Kg		07/11/23 12:32	07/12/23 02:21	1
Xylenes, Total	<0.00398	U *- *1	0.00398		mg/Kg		07/11/23 12:32	07/12/23 02:21	1

Client Sample Results

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

Client Sample ID: FS02

Date Collected: 07/07/23 10:30
Date Received: 07/07/23 14:57
Sample Depth: 2.5

Lab Sample ID: 890-4914-2

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*07/11/23 12:32*	*07/12/23 02:21*	*1*
1,4-Difluorobenzene (Surr)	*65*	*S1-*	*70 - 130*	*07/11/23 12:32*	*07/12/23 02:21*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			07/12/23 11:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			07/24/23 14:27	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		07/17/23 09:21	07/22/23 17:32	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		07/17/23 09:21	07/22/23 17:32	1
OII Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		07/17/23 09:21	07/22/23 17:32	1
Total TPH	<50.5	U	50.5		mg/Kg		07/17/23 09:21	07/22/23 17:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*128*		*70 - 130*	*07/17/23 09:21*	*07/22/23 17:32*	*1*
o-Terphenyl	*109*		*70 - 130*	*07/17/23 09:21*	*07/22/23 17:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**137**		4.98		mg/Kg			07/11/23 18:35	1

Client Sample ID: FS03

Date Collected: 07/07/23 10:35
Date Received: 07/07/23 14:57
Sample Depth: 2.5

Lab Sample ID: 890-4914-3

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/11/23 12:32	07/12/23 02:41	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/11/23 12:32	07/12/23 02:41	1
Ethylbenzene	<0.00201	U *- *1	0.00201		mg/Kg		07/11/23 12:32	07/12/23 02:41	1
m-Xylene & p-Xylene	<0.00402	U *- *1	0.00402		mg/Kg		07/11/23 12:32	07/12/23 02:41	1
o-Xylene	<0.00201	U *- *1	0.00201		mg/Kg		07/11/23 12:32	07/12/23 02:41	1
Xylenes, Total	<0.00402	U *- *1	0.00402		mg/Kg		07/11/23 12:32	07/12/23 02:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*07/11/23 12:32*	*07/12/23 02:41*	*1*
1,4-Difluorobenzene (Surr)	*69*	*S1-*	*70 - 130*	*07/11/23 12:32*	*07/12/23 02:41*	*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			07/12/23 11:12	1

Client Sample Results

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

Client Sample ID: FS03

Lab Sample ID: 890-4914-3
Matrix: Solid
Date Collected: 07/07/23 10:35
Date Received: 07/07/23 14:57
Sample Depth: 2.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			07/24/23 14:27	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		07/17/23 09:21	07/22/23 17:54	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		07/17/23 09:21	07/22/23 17:54	1
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		07/17/23 09:21	07/22/23 17:54	1
Total TPH	<50.1	U	50.1		mg/Kg		07/17/23 09:21	07/22/23 17:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*161*	*S1+*	*70 - 130*	*07/17/23 09:21*	*07/22/23 17:54*	*1*
o-Terphenyl	*139*	*S1+*	*70 - 130*	*07/17/23 09:21*	*07/22/23 17:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**67.8**		4.96		mg/Kg			07/11/23 18:40	1

Client Sample ID: FS04

Lab Sample ID: 890-4914-4
Matrix: Solid
Date Collected: 07/07/23 10:40
Date Received: 07/07/23 14:57
Sample Depth: 2.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/11/23 12:32	07/12/23 03:02	1
Toluene	**0.00232**		0.00199		mg/Kg		07/11/23 12:32	07/12/23 03:02	1
Ethylbenzene	<0.00199	U *- *1	0.00199		mg/Kg		07/11/23 12:32	07/12/23 03:02	1
m-Xylene & p-Xylene	<0.00398	U *- *1	0.00398		mg/Kg		07/11/23 12:32	07/12/23 03:02	1
o-Xylene	<0.00199	U *- *1	0.00199		mg/Kg		07/11/23 12:32	07/12/23 03:02	1
Xylenes, Total	<0.00398	U *- *1	0.00398		mg/Kg		07/11/23 12:32	07/12/23 03:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*07/11/23 12:32*	*07/12/23 03:02*	*1*
1,4-Difluorobenzene (Surr)	*71*		*70 - 130*	*07/11/23 12:32*	*07/12/23 03:02*	*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			07/12/23 11:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			07/24/23 14:27	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		07/17/23 09:21	07/22/23 18:16	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		07/17/23 09:21	07/22/23 18:16	1
OII Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		07/17/23 09:21	07/22/23 18:16	1

Client Sample Results

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

Client Sample ID: FS04

Date Collected: 07/07/23 10:40
Date Received: 07/07/23 14:57
Sample Depth: 2.5

Lab Sample ID: 890-4914-4

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg		07/17/23 09:21	07/22/23 18:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*145*	*S1+*	*70 - 130*	*07/17/23 09:21*	*07/22/23 18:16*	*1*
o-Terphenyl	*123*		*70 - 130*	*07/17/23 09:21*	*07/22/23 18:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**104**		5.02		mg/Kg			07/11/23 18:45	1

Client Sample ID: FS05

Date Collected: 07/07/23 10:45
Date Received: 07/07/23 14:57
Sample Depth: 2.5

Lab Sample ID: 890-4914-5

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/11/23 12:32	07/12/23 05:05	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/11/23 12:32	07/12/23 05:05	1
Ethylbenzene	<0.00201	U *- *1	0.00201		mg/Kg		07/11/23 12:32	07/12/23 05:05	1
m-Xylene & p-Xylene	<0.00402	U *- *1	0.00402		mg/Kg		07/11/23 12:32	07/12/23 05:05	1
o-Xylene	<0.00201	U *- *1	0.00201		mg/Kg		07/11/23 12:32	07/12/23 05:05	1
Xylenes, Total	<0.00402	U *- *1	0.00402		mg/Kg		07/11/23 12:32	07/12/23 05:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*07/11/23 12:32*	*07/12/23 05:05*	*1*
1,4-Difluorobenzene (Surr)	*67*	*S1-*	*70 - 130*	*07/11/23 12:32*	*07/12/23 05:05*	*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			07/12/23 11:12	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			07/24/23 14:27	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/17/23 09:21	07/22/23 18:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/17/23 09:21	07/22/23 18:49	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/17/23 09:21	07/22/23 18:49	1
Total TPH	<50.0	U	50.0		mg/Kg		07/17/23 09:21	07/22/23 18:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*118*		*70 - 130*	*07/17/23 09:21*	*07/22/23 18:49*	*1*
o-Terphenyl	*103*		*70 - 130*	*07/17/23 09:21*	*07/22/23 18:49*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

Client Sample ID: FS05

Lab Sample ID: 890-4914-5
Matrix: Solid
Date Collected: 07/07/23 10:45
Date Received: 07/07/23 14:57
Sample Depth: 2.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	67.5		4.97		mg/Kg			07/11/23 18:50	1

Client Sample ID: FS06

Lab Sample ID: 890-4914-6
Matrix: Solid
Date Collected: 07/07/23 10:50
Date Received: 07/07/23 14:57
Sample Depth: 2.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/11/23 12:32	07/12/23 05:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/11/23 12:32	07/12/23 05:25	1
Ethylbenzene	<0.00200	U *- *1	0.00200		mg/Kg		07/11/23 12:32	07/12/23 05:25	1
m-Xylene & p-Xylene	<0.00401	U *- *1	0.00401		mg/Kg		07/11/23 12:32	07/12/23 05:25	1
o-Xylene	<0.00200	U *- *1	0.00200		mg/Kg		07/11/23 12:32	07/12/23 05:25	1
Xylenes, Total	<0.00401	U *- *1	0.00401		mg/Kg		07/11/23 12:32	07/12/23 05:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*07/11/23 12:32*	*07/12/23 05:25*	*1*
1,4-Difluorobenzene (Surr)	*72*		*70 - 130*	*07/11/23 12:32*	*07/12/23 05:25*	*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			07/12/23 11:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			07/24/23 14:27	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		07/17/23 09:21	07/22/23 19:11	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		07/17/23 09:21	07/22/23 19:11	1
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		07/17/23 09:21	07/22/23 19:11	1
Total TPH	<50.1	U	50.1		mg/Kg		07/17/23 09:21	07/22/23 19:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*134*	*S1+*	*70 - 130*	*07/17/23 09:21*	*07/22/23 19:11*	*1*
o-Terphenyl	*114*		*70 - 130*	*07/17/23 09:21*	*07/22/23 19:11*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	116		5.00		mg/Kg			07/11/23 19:05	1

Client Sample Results

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

Client Sample ID: FS07

Lab Sample ID: 890-4914-7
Matrix: Solid
Date Collected: 07/07/23 10:55
Date Received: 07/07/23 14:57
Sample Depth: 1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/11/23 12:32	07/12/23 05:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/11/23 12:32	07/12/23 05:46	1
Ethylbenzene	<0.00200	U *- *1	0.00200		mg/Kg		07/11/23 12:32	07/12/23 05:46	1
m-Xylene & p-Xylene	<0.00399	U *- *1	0.00399		mg/Kg		07/11/23 12:32	07/12/23 05:46	1
o-Xylene	<0.00200	U *- *1	0.00200		mg/Kg		07/11/23 12:32	07/12/23 05:46	1
Xylenes, Total	<0.00399	U *- *1	0.00399		mg/Kg		07/11/23 12:32	07/12/23 05:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*07/11/23 12:32*	*07/12/23 05:46*	*1*
1,4-Difluorobenzene (Surr)	*73*		*70 - 130*	*07/11/23 12:32*	*07/12/23 05:46*	*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			07/12/23 11:12	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			07/24/23 14:27	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/17/23 09:21	07/22/23 19:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/17/23 09:21	07/22/23 19:33	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/17/23 09:21	07/22/23 19:33	1
Total TPH	<50.0	U	50.0		mg/Kg		07/17/23 09:21	07/22/23 19:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*117*		*70 - 130*	*07/17/23 09:21*	*07/22/23 19:33*	*1*
o-Terphenyl	*101*		*70 - 130*	*07/17/23 09:21*	*07/22/23 19:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**67.3**		4.99		mg/Kg			07/11/23 19:10	1

Client Sample ID: FS08

Lab Sample ID: 890-4914-8
Matrix: Solid
Date Collected: 07/07/23 11:00
Date Received: 07/07/23 14:57
Sample Depth: 1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/11/23 12:32	07/12/23 06:06	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/11/23 12:32	07/12/23 06:06	1
Ethylbenzene	<0.00199	U *- *1	0.00199		mg/Kg		07/11/23 12:32	07/12/23 06:06	1
m-Xylene & p-Xylene	<0.00398	U *- *1	0.00398		mg/Kg		07/11/23 12:32	07/12/23 06:06	1
o-Xylene	<0.00199	U *- *1	0.00199		mg/Kg		07/11/23 12:32	07/12/23 06:06	1
Xylenes, Total	<0.00398	U *- *1	0.00398		mg/Kg		07/11/23 12:32	07/12/23 06:06	1

Client Sample Results

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

Client Sample ID: FS08

Lab Sample ID: 890-4914-8
Matrix: Solid
Date Collected: 07/07/23 11:00
Date Received: 07/07/23 14:57
Sample Depth: 1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*	*07/11/23 12:32*	*07/12/23 06:06*	*1*
1,4-Difluorobenzene (Surr)	*72*		*70 - 130*	*07/11/23 12:32*	*07/12/23 06:06*	*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			07/12/23 11:12	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2	mg/Kg			07/24/23 14:27	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2	mg/Kg		07/17/23 09:21	07/22/23 19:56	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2	mg/Kg		07/17/23 09:21	07/22/23 19:56	1
OII Range Organics (Over C28-C36)	<50.2	U	50.2	mg/Kg		07/17/23 09:21	07/22/23 19:56	1
Total TPH	<50.2	U	50.2	mg/Kg		07/17/23 09:21	07/22/23 19:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*141*	*S1+*	*70 - 130*	*07/17/23 09:21*	*07/22/23 19:56*	*1*
o-Terphenyl	*119*		*70 - 130*	*07/17/23 09:21*	*07/22/23 19:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**84.8**		5.01	mg/Kg			07/11/23 19:26	1

Client Sample ID: FS09

Lab Sample ID: 890-4914-9
Matrix: Solid
Date Collected: 07/07/23 12:05
Date Received: 07/07/23 14:57
Sample Depth: 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		07/11/23 12:32	07/12/23 06:27	1
Toluene	<0.00198	U	0.00198	mg/Kg		07/11/23 12:32	07/12/23 06:27	1
Ethylbenzene	<0.00198	U *- *1	0.00198	mg/Kg		07/11/23 12:32	07/12/23 06:27	1
m-Xylene & p-Xylene	<0.00396	U *- *1	0.00396	mg/Kg		07/11/23 12:32	07/12/23 06:27	1
o-Xylene	<0.00198	U *- *1	0.00198	mg/Kg		07/11/23 12:32	07/12/23 06:27	1
Xylenes, Total	<0.00396	U *- *1	0.00396	mg/Kg		07/11/23 12:32	07/12/23 06:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*	*07/11/23 12:32*	*07/12/23 06:27*	*1*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*	*07/11/23 12:32*	*07/12/23 06:27*	*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			07/12/23 11:12	1

Client Sample Results

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

Client Sample ID: FS09

Lab Sample ID: 890-4914-9
Matrix: Solid
Date Collected: 07/07/23 12:05
Date Received: 07/07/23 14:57
Sample Depth: 1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			07/24/23 14:27	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		07/17/23 09:21	07/22/23 20:18	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		07/17/23 09:21	07/22/23 20:18	1
OII Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		07/17/23 09:21	07/22/23 20:18	1
Total TPH	<50.2	U	50.2		mg/Kg		07/17/23 09:21	07/22/23 20:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*142*	*S1+*	*70 - 130*	*07/17/23 09:21*	*07/22/23 20:18*	*1*
o-Terphenyl	*124*		*70 - 130*	*07/17/23 09:21*	*07/22/23 20:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**80.4**		5.03		mg/Kg			07/11/23 19:31	1

Client Sample ID: FS10

Lab Sample ID: 890-4914-10
Matrix: Solid
Date Collected: 07/07/23 12:10
Date Received: 07/07/23 14:57
Sample Depth: 1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/11/23 12:32	07/12/23 06:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/11/23 12:32	07/12/23 06:47	1
Ethylbenzene	<0.00200	U *- *1	0.00200		mg/Kg		07/11/23 12:32	07/12/23 06:47	1
m-Xylene & p-Xylene	<0.00400	U *- *1	0.00400		mg/Kg		07/11/23 12:32	07/12/23 06:47	1
o-Xylene	<0.00200	U *- *1	0.00200		mg/Kg		07/11/23 12:32	07/12/23 06:47	1
Xylenes, Total	<0.00400	U *- *1	0.00400		mg/Kg		07/11/23 12:32	07/12/23 06:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*07/11/23 12:32*	*07/12/23 06:47*	*1*
1,4-Difluorobenzene (Surr)	*74*		*70 - 130*	*07/11/23 12:32*	*07/12/23 06:47*	*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			07/12/23 11:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			07/24/23 14:27	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		07/17/23 09:21	07/22/23 20:41	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		07/17/23 09:21	07/22/23 20:41	1
OII Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		07/17/23 09:21	07/22/23 20:41	1

Client Sample Results

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

Client Sample ID: FS10

Lab Sample ID: 890-4914-10
Matrix: Solid
Date Collected: 07/07/23 12:10
Date Received: 07/07/23 14:57
Sample Depth: 1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg		07/17/23 09:21	07/22/23 20:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*124*		*70 - 130*	*07/17/23 09:21*	*07/22/23 20:41*	*1*
o-Terphenyl	*104*		*70 - 130*	*07/17/23 09:21*	*07/22/23 20:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**60.8**		5.00		mg/Kg			07/11/23 19:36	1

Client Sample ID: SS05A

Lab Sample ID: 890-4914-11
Matrix: Solid
Date Collected: 07/07/23 12:15
Date Received: 07/07/23 14:57
Sample Depth: 1

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		07/11/23 12:32	07/12/23 07:07	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/11/23 12:32	07/12/23 07:07	1
Ethylbenzene	<0.00202	U *- *1	0.00202		mg/Kg		07/11/23 12:32	07/12/23 07:07	1
m-Xylene & p-Xylene	<0.00403	U *- *1	0.00403		mg/Kg		07/11/23 12:32	07/12/23 07:07	1
o-Xylene	<0.00202	U *- *1	0.00202		mg/Kg		07/11/23 12:32	07/12/23 07:07	1
Xylenes, Total	<0.00403	U *- *1	0.00403		mg/Kg		07/11/23 12:32	07/12/23 07:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*07/11/23 12:32*	*07/12/23 07:07*	*1*
1,4-Difluorobenzene (Surr)	*77*		*70 - 130*	*07/11/23 12:32*	*07/12/23 07:07*	*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			07/12/23 11:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			07/17/23 13:24	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		07/12/23 12:11	07/14/23 17:19	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		07/12/23 12:11	07/14/23 17:19	1
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		07/12/23 12:11	07/14/23 17:19	1
Total TPH	<50.1	U	50.1		mg/Kg		07/12/23 12:11	07/14/23 17:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*117*		*70 - 130*	*07/12/23 12:11*	*07/14/23 17:19*	*1*
o-Terphenyl	*99*		*70 - 130*	*07/12/23 12:11*	*07/14/23 17:19*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

Client Sample ID: SS05A
Date Collected: 07/07/23 12:15
Date Received: 07/07/23 14:57
Sample Depth: 1

Lab Sample ID: 890-4914-11
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	67.2		5.01		mg/Kg			07/11/23 19:41	1

Client Sample ID: SS06A
Date Collected: 07/07/23 12:20
Date Received: 07/07/23 14:57
Sample Depth: 1

Lab Sample ID: 890-4914-12
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/11/23 12:32	07/12/23 07:28	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/11/23 12:32	07/12/23 07:28	1
Ethylbenzene	<0.00199	U *- *1	0.00199		mg/Kg		07/11/23 12:32	07/12/23 07:28	1
m-Xylene & p-Xylene	<0.00398	U *- *1	0.00398		mg/Kg		07/11/23 12:32	07/12/23 07:28	1
o-Xylene	<0.00199	U *- *1	0.00199		mg/Kg		07/11/23 12:32	07/12/23 07:28	1
Xylenes, Total	<0.00398	U *- *1	0.00398		mg/Kg		07/11/23 12:32	07/12/23 07:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*	*07/11/23 12:32*	*07/12/23 07:28*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*07/11/23 12:32*	*07/12/23 07:28*	*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			07/12/23 11:12	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			07/17/23 13:24	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		07/12/23 12:11	07/14/23 17:41	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/12/23 12:11	07/14/23 17:41	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/12/23 12:11	07/14/23 17:41	1
Total TPH	<49.8	U	49.8		mg/Kg		07/12/23 12:11	07/14/23 17:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*131*	*S1+*	*70 - 130*	*07/12/23 12:11*	*07/14/23 17:41*	*1*
o-Terphenyl	*107*		*70 - 130*	*07/12/23 12:11*	*07/14/23 17:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	77.9		4.99		mg/Kg			07/11/23 19:46	1

Client Sample Results

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

Client Sample ID: SS07A

Date Collected: 07/07/23 12:25
Date Received: 07/07/23 14:57
Sample Depth: 1

Lab Sample ID: 890-4914-13

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/11/23 12:32	07/12/23 07:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/11/23 12:32	07/12/23 07:49	1
Ethylbenzene	<0.00200	U *- *1	0.00200		mg/Kg		07/11/23 12:32	07/12/23 07:49	1
m-Xylene & p-Xylene	<0.00399	U *- *1	0.00399		mg/Kg		07/11/23 12:32	07/12/23 07:49	1
o-Xylene	<0.00200	U *- *1	0.00200		mg/Kg		07/11/23 12:32	07/12/23 07:49	1
Xylenes, Total	<0.00399	U *- *1	0.00399		mg/Kg		07/11/23 12:32	07/12/23 07:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*07/11/23 12:32*	*07/12/23 07:49*	*1*
1,4-Difluorobenzene (Surr)	*68*	*S1-*	*70 - 130*	*07/11/23 12:32*	*07/12/23 07:49*	*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			07/12/23 11:12	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			07/17/23 13:24	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		07/12/23 12:11	07/14/23 18:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/12/23 12:11	07/14/23 18:03	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/12/23 12:11	07/14/23 18:03	1
Total TPH	<49.9	U	49.9		mg/Kg		07/12/23 12:11	07/14/23 18:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*133*	*S1+*	*70 - 130*	*07/12/23 12:11*	*07/14/23 18:03*	*1*
o-Terphenyl	*110*		*70 - 130*	*07/12/23 12:11*	*07/14/23 18:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**96.5**		4.99		mg/Kg			07/11/23 19:52	1

Client Sample ID: SS08A

Date Collected: 07/07/23 12:30
Date Received: 07/07/23 14:57
Sample Depth: 1

Lab Sample ID: 890-4914-14

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		07/11/23 12:32	07/12/23 08:09	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/11/23 12:32	07/12/23 08:09	1
Ethylbenzene	<0.00199	U *- *1	0.00199		mg/Kg		07/11/23 12:32	07/12/23 08:09	1
m-Xylene & p-Xylene	<0.00398	U *- *1	0.00398		mg/Kg		07/11/23 12:32	07/12/23 08:09	1
o-Xylene	<0.00199	U *- *1	0.00199		mg/Kg		07/11/23 12:32	07/12/23 08:09	1
Xylenes, Total	<0.00398	U *- *1	0.00398		mg/Kg		07/11/23 12:32	07/12/23 08:09	1

Client Sample Results

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

Client Sample ID: SS08A

Lab Sample ID: 890-4914-14
Matrix: Solid
Date Collected: 07/07/23 12:30
Date Received: 07/07/23 14:57
Sample Depth: 1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*07/11/23 12:32*	*07/12/23 08:09*	*1*
1,4-Difluorobenzene (Surr)	*71*		*70 - 130*	*07/11/23 12:32*	*07/12/23 08:09*	*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			07/12/23 11:12	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			07/17/23 13:24	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		07/12/23 12:11	07/15/23 07:36	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		07/12/23 12:11	07/15/23 07:36	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		07/12/23 12:11	07/15/23 07:36	1
Total TPH	<49.8	U	49.8	mg/Kg		07/12/23 12:11	07/15/23 07:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*110*		*70 - 130*	*07/12/23 12:11*	*07/15/23 07:36*	*1*
o-Terphenyl	*93*		*70 - 130*	*07/12/23 12:11*	*07/15/23 07:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**81.7**		4.98	mg/Kg			07/11/23 19:57	1

Client Sample ID: SS09A

Lab Sample ID: 890-4914-15
Matrix: Solid
Date Collected: 07/07/23 12:35
Date Received: 07/07/23 14:57
Sample Depth: 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/11/23 13:40	07/12/23 05:44	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/11/23 13:40	07/12/23 05:44	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/11/23 13:40	07/12/23 05:44	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		07/11/23 13:40	07/12/23 05:44	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/11/23 13:40	07/12/23 05:44	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		07/11/23 13:40	07/12/23 05:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*	*07/11/23 13:40*	*07/12/23 05:44*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*07/11/23 13:40*	*07/12/23 05:44*	*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			07/12/23 14:48	1

Client Sample Results

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

Client Sample ID: SS09A

Date Collected: 07/07/23 12:35
Date Received: 07/07/23 14:57
Sample Depth: 1

Lab Sample ID: 890-4914-15

Matrix: Solid

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			07/17/23 13:24	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		07/12/23 12:11	07/15/23 08:28	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		07/12/23 12:11	07/15/23 08:28	1
OII Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		07/12/23 12:11	07/15/23 08:28	1
Total TPH	<49.7	U	49.7		mg/Kg		07/12/23 12:11	07/15/23 08:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*118*		*70 - 130*	*07/12/23 12:11*	*07/15/23 08:28*	*1*
o-Terphenyl	*100*		*70 - 130*	*07/12/23 12:11*	*07/15/23 08:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**102**	**F1**	5.00		mg/Kg			07/11/23 13:46	1

Client Sample ID: SW01

Date Collected: 07/07/23 12:40
Date Received: 07/07/23 14:57
Sample Depth: 1

Lab Sample ID: 890-4914-16

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/11/23 13:40	07/12/23 06:04	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/11/23 13:40	07/12/23 06:04	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/11/23 13:40	07/12/23 06:04	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/11/23 13:40	07/12/23 06:04	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/11/23 13:40	07/12/23 06:04	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/11/23 13:40	07/12/23 06:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*07/11/23 13:40*	*07/12/23 06:04*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*07/11/23 13:40*	*07/12/23 06:04*	*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			07/12/23 14:48	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			07/17/23 13:24	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		07/12/23 12:11	07/15/23 08:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/12/23 12:11	07/15/23 08:50	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/12/23 12:11	07/15/23 08:50	1

Client Sample Results

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

Client Sample ID: SW01

Lab Sample ID: 890-4914-16
Matrix: Solid
Date Collected: 07/07/23 12:40
Date Received: 07/07/23 14:57
Sample Depth: 1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg		07/12/23 12:11	07/15/23 08:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*118*		*70 - 130*	*07/12/23 12:11*	*07/15/23 08:50*	*1*
o-Terphenyl	*101*		*70 - 130*	*07/12/23 12:11*	*07/15/23 08:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**67.9**		5.03		mg/Kg			07/11/23 14:04	1

Client Sample ID: SW02

Lab Sample ID: 890-4914-17
Matrix: Solid
Date Collected: 07/07/23 12:45
Date Received: 07/07/23 14:57
Sample Depth: 1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/11/23 13:40	07/12/23 06:25	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/11/23 13:40	07/12/23 06:25	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/11/23 13:40	07/12/23 06:25	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/11/23 13:40	07/12/23 06:25	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/11/23 13:40	07/12/23 06:25	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/11/23 13:40	07/12/23 06:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*07/11/23 13:40*	*07/12/23 06:25*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*07/11/23 13:40*	*07/12/23 06:25*	*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			07/12/23 14:48	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			07/17/23 13:24	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		07/12/23 12:11	07/15/23 09:11	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		07/12/23 12:11	07/15/23 09:11	1
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		07/12/23 12:11	07/15/23 09:11	1
Total TPH	<50.1	U	50.1		mg/Kg		07/12/23 12:11	07/15/23 09:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*119*		*70 - 130*	*07/12/23 12:11*	*07/15/23 09:11*	*1*
o-Terphenyl	*101*		*70 - 130*	*07/12/23 12:11*	*07/15/23 09:11*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

Client Sample ID: SW02

Date Collected: 07/07/23 12:45
Date Received: 07/07/23 14:57
Sample Depth: 1

Lab Sample ID: 890-4914-17

Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	55.8		5.02		mg/Kg			07/11/23 14:10	1

Surrogate Summary

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-4913-A-1-B MS	Matrix Spike	106	104
890-4913-A-1-B MS	Matrix Spike	120	83
890-4913-A-1-C MSD	Matrix Spike Duplicate	119	95
890-4913-A-1-C MSD	Matrix Spike Duplicate	137 S1+	63 S1-
890-4914-1	FS01	88	86
890-4914-2	FS02	95	65 S1-
890-4914-3	FS03	93	69 S1-
890-4914-4	FS04	101	71
890-4914-5	FS05	89	67 S1-
890-4914-6	FS06	93	72
890-4914-7	FS07	97	73
890-4914-8	FS08	82	72
890-4914-9	FS09	81	80
890-4914-10	FS10	92	74
890-4914-11	SS05A	91	77
890-4914-12	SS06A	79	87
890-4914-13	SS07A	92	68 S1-
890-4914-14	SS08A	92	71
890-4914-15	SS09A	82	97
890-4914-16	SW01	92	103
890-4914-17	SW02	93	100
890-4915-A-1-C MS	Matrix Spike	88	110
890-4915-A-1-D MSD	Matrix Spike Duplicate	90	106
LCS 880-57410/1-A	Lab Control Sample	102	107
LCS 880-57410/1-A	Lab Control Sample	130	64 S1-
LCS 880-57416/1-A	Lab Control Sample	91	100
LCSD 880-57410/2-A	Lab Control Sample Dup	48 S1-	94
LCSD 880-57410/2-A	Lab Control Sample Dup	138 S1+	80
LCSD 880-57416/2-A	Lab Control Sample Dup	89	105
MB 880-57308/5-A	Method Blank	76	89
MB 880-57324/5-A	Method Blank	97	120
MB 880-57410/5-A	Method Blank	78	68 S1-
MB 880-57410/5-A	Method Blank	78	88
MB 880-57416/5-A	Method Blank	98	119

Surrogate Legend

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

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID		
890-4913-A-1-F MS	Matrix Spike		
890-4913-A-1-G MSD	Matrix Spike Duplicate		

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

Surrogate Summary

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

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)										
890-4914-1	FS01	111	95										
890-4914-2	FS02	128	109										
890-4914-3	FS03	161 S1+	139 S1+										
890-4914-4	FS04	145 S1+	123										
890-4914-5	FS05	118	103										
890-4914-6	FS06	134 S1+	114										
890-4914-7	FS07	117	101										
890-4914-8	FS08	141 S1+	119										
890-4914-9	FS09	142 S1+	124										
890-4914-10	FS10	124	104										
890-4914-11	SS05A	117	99										
890-4914-12	SS06A	131 S1+	107										
890-4914-13	SS07A	133 S1+	110										
890-4914-14	SS08A	110	93										
890-4914-15	SS09A	118	100										
890-4914-16	SW01	118	101										
890-4914-17	SW02	119	101										
890-4915-A-1-F MS	Matrix Spike	140 S1+	103										
890-4915-A-1-G MSD	Matrix Spike Duplicate	124	89										
LCS 880-57501/2-A	Lab Control Sample	106	92										
LCS 880-57801/2-A	Lab Control Sample	95	93										
LCSD 880-57501/3-A	Lab Control Sample Dup	103	91										
LCSD 880-57801/3-A	Lab Control Sample Dup	111	98										
MB 880-57501/1-A	Method Blank	146 S1+	122										
MB 880-57801/1-A	Method Blank	161 S1+	139 S1+										

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-57308/5-A
Matrix: Solid
Analysis Batch: 57379

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 57308

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/10/23 12:59	07/11/23 13:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/10/23 12:59	07/11/23 13:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/10/23 12:59	07/11/23 13:22	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/10/23 12:59	07/11/23 13:22	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/10/23 12:59	07/11/23 13:22	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/10/23 12:59	07/11/23 13:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*76*		*70 - 130*	*07/10/23 12:59*	*07/11/23 13:22*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*07/10/23 12:59*	*07/11/23 13:22*	*1*

Lab Sample ID: MB 880-57324/5-A
Matrix: Solid
Analysis Batch: 57381

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 57324

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/10/23 14:17	07/11/23 12:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/10/23 14:17	07/11/23 12:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/10/23 14:17	07/11/23 12:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/10/23 14:17	07/11/23 12:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/10/23 14:17	07/11/23 12:23	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/10/23 14:17	07/11/23 12:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*07/10/23 14:17*	*07/11/23 12:23*	*1*
1,4-Difluorobenzene (Surr)	*120*		*70 - 130*	*07/10/23 14:17*	*07/11/23 12:23*	*1*

Lab Sample ID: MB 880-57410/5-A
Matrix: Solid
Analysis Batch: 57379

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 57410

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/11/23 12:32	07/12/23 00:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/11/23 12:32	07/12/23 00:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/11/23 12:32	07/12/23 00:17	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/11/23 12:32	07/12/23 00:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/11/23 12:32	07/12/23 00:17	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/11/23 12:32	07/12/23 00:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*78*		*70 - 130*	*07/11/23 12:32*	*07/12/23 00:17*	*1*
1,4-Difluorobenzene (Surr)	*68*	*S1-*	*70 - 130*	*07/11/23 12:32*	*07/12/23 00:17*	*1*

QC Sample Results

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

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

Lab Sample ID: MB 880-57410/5-A
Matrix: Solid
Analysis Batch: 57560

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 57410

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/11/23 12:32	07/13/23 12:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/11/23 12:32	07/13/23 12:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/11/23 12:32	07/13/23 12:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/11/23 12:32	07/13/23 12:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/11/23 12:32	07/13/23 12:16	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/11/23 12:32	07/13/23 12:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*78*		*70 - 130*	*07/11/23 12:32*	*07/13/23 12:16*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*07/11/23 12:32*	*07/13/23 12:16*	*1*

Lab Sample ID: LCS 880-57410/1-A
Matrix: Solid
Analysis Batch: 57379

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 57410

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08469		mg/Kg		85	70 - 130		
Toluene			0.100	0.09997		mg/Kg		100	70 - 130		
Ethylbenzene			0.100	0.08975		mg/Kg		90	70 - 130		
m-Xylene & p-Xylene			0.200	0.1781		mg/Kg		89	70 - 130		
o-Xylene			0.100	0.09104		mg/Kg		91	70 - 130		

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

Lab Sample ID: LCS 880-57410/1-A
Matrix: Solid
Analysis Batch: 57560

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 57410

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08216		mg/Kg		82	70 - 130		
Toluene			0.100	0.07970		mg/Kg		80	70 - 130		
Ethylbenzene			0.100	0.08950		mg/Kg		89	70 - 130		
m-Xylene & p-Xylene			0.200	0.1673		mg/Kg		84	70 - 130		
o-Xylene			0.100	0.08622		mg/Kg		86	70 - 130		

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

Lab Sample ID: LCSD 880-57410/2-A
Matrix: Solid
Analysis Batch: 57379

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 57410

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.07869		mg/Kg		79	70 - 130	7	35
Toluene			0.100	0.07145		mg/Kg		71	70 - 130	33	35

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QC Sample Results

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

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

Lab Sample ID: LCSD 880-57410/2-A
Matrix: Solid
Analysis Batch: 57379

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 57410

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethylbenzene			0.100	0.06092	*- *1	mg/Kg		61	70 - 130	38	35
m-Xylene & p-Xylene			0.200	0.1078	*- *1	mg/Kg		54	70 - 130	49	35
o-Xylene			0.100	0.05119	*- *1	mg/Kg		51	70 - 130	56	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*48*	*S1-*	*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: LCSD 880-57410/2-A
Matrix: Solid
Analysis Batch: 57560

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 57410

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09483		mg/Kg		95	70 - 130	14	35
Toluene			0.100	0.1011		mg/Kg		101	70 - 130	24	35
Ethylbenzene			0.100	0.1066		mg/Kg		107	70 - 130	17	35
m-Xylene & p-Xylene			0.200	0.1963		mg/Kg		98	70 - 130	16	35
o-Xylene			0.100	0.09878		mg/Kg		99	70 - 130	14	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*138*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*

Lab Sample ID: 890-4913-A-1-B MS
Matrix: Solid
Analysis Batch: 57379

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 57410

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00198	U F1	0.0994	0.06309	F1	mg/Kg		63	70 - 130
Toluene	<0.00198	U F1	0.0994	0.06656	F1	mg/Kg		67	70 - 130
Ethylbenzene	<0.00198	U *- *1 F1	0.0994	0.05609	F1	mg/Kg		56	70 - 130
m-Xylene & p-Xylene	<0.00396	U *- *1 F1	0.199	0.1073	F1	mg/Kg		54	70 - 130
o-Xylene	<0.00198	U *- *1 F1	0.0994	0.05310	F1	mg/Kg		53	70 - 130

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

Lab Sample ID: 890-4913-A-1-B MS
Matrix: Solid
Analysis Batch: 57560

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 57410

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00198	U	0.0994	0.1015		mg/Kg		102	70 - 130
Toluene	<0.00198	U	0.0994	0.09426		mg/Kg		95	70 - 130
Ethylbenzene	<0.00198	U	0.0994	0.09460		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	<0.00396	U	0.199	0.1706		mg/Kg		86	70 - 130
o-Xylene	<0.00198	U	0.0994	0.08990		mg/Kg		90	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

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

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	83		70 - 130

Lab Sample ID: 890-4913-A-1-C MSD
Matrix: Solid
Analysis Batch: 57379

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 57410

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U F1	0.0998	0.05752	F1	mg/Kg		58	70 - 130	9	35
Toluene	<0.00198	U F1	0.0998	0.06071	F1	mg/Kg		61	70 - 130	9	35
Ethylbenzene	<0.00198	U *- *1 F1	0.0998	0.05512	F1	mg/Kg		55	70 - 130	2	35
m-Xylene & p-Xylene	<0.00396	U *- *1 F1	0.200	0.1031	F1	mg/Kg		52	70 - 130	4	35
o-Xylene	<0.00198	U *- *1 F1	0.0998	0.05233	F1	mg/Kg		52	70 - 130	1	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 890-4913-A-1-C MSD
Matrix: Solid
Analysis Batch: 57560

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 57410

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.0998	0.1105		mg/Kg		111	70 - 130	8	35
Toluene	<0.00198	U	0.0998	0.1116		mg/Kg		112	70 - 130	17	35
Ethylbenzene	<0.00198	U	0.0998	0.09749		mg/Kg		98	70 - 130	3	35
m-Xylene & p-Xylene	<0.00396	U	0.200	0.1770		mg/Kg		89	70 - 130	4	35
o-Xylene	<0.00198	U	0.0998	0.09498		mg/Kg		95	70 - 130	6	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130
1,4-Difluorobenzene (Surr)	63	S1-	70 - 130

Lab Sample ID: MB 880-57416/5-A
Matrix: Solid
Analysis Batch: 57381

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 57416

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/11/23 13:40	07/12/23 00:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/11/23 13:40	07/12/23 00:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/11/23 13:40	07/12/23 00:21	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/11/23 13:40	07/12/23 00:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/11/23 13:40	07/12/23 00:21	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/11/23 13:40	07/12/23 00:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	07/11/23 13:40	07/12/23 00:21	1
1,4-Difluorobenzene (Surr)	119		70 - 130	07/11/23 13:40	07/12/23 00:21	1

QC Sample Results

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

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

Lab Sample ID: LCS 880-57416/1-A
Matrix: Solid
Analysis Batch: 57381

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 57416

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09913		mg/Kg		99	70 - 130		
Toluene			0.100	0.1184		mg/Kg		118	70 - 130		
Ethylbenzene			0.100	0.09377		mg/Kg		94	70 - 130		
m-Xylene & p-Xylene			0.200	0.1784		mg/Kg		89	70 - 130		
o-Xylene			0.100	0.08677		mg/Kg		87	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 880-57416/2-A
Matrix: Solid
Analysis Batch: 57381

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 57416

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1034		mg/Kg		103	70 - 130	4	35
Toluene			0.100	0.1128		mg/Kg		113	70 - 130	5	35
Ethylbenzene			0.100	0.08936		mg/Kg		89	70 - 130	5	35
m-Xylene & p-Xylene			0.200	0.1669		mg/Kg		83	70 - 130	7	35
o-Xylene			0.100	0.08307		mg/Kg		83	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: 890-4915-A-1-C MS
Matrix: Solid
Analysis Batch: 57381

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 57416

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00198	U	0.0994	0.09105		mg/Kg		92	70 - 130		
Toluene	<0.00198	U	0.0994	0.08376		mg/Kg		84	70 - 130		
Ethylbenzene	<0.00198	U F1	0.0994	0.05554	F1	mg/Kg		56	70 - 130		
m-Xylene & p-Xylene	<0.00396	U F1	0.199	0.1070	F1	mg/Kg		54	70 - 130		
o-Xylene	<0.00198	U F1	0.0994	0.05366	F1	mg/Kg		54	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*

Lab Sample ID: 890-4915-A-1-D MSD
Matrix: Solid
Analysis Batch: 57381

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 57416

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.0998	0.09469		mg/Kg		95	70 - 130	4	35
Toluene	<0.00198	U	0.0998	0.08974		mg/Kg		90	70 - 130	7	35
Ethylbenzene	<0.00198	U F1	0.0998	0.06132	F1	mg/Kg		61	70 - 130	10	35

QC Sample Results

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

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

Lab Sample ID: 890-4915-A-1-D MSD
Matrix: Solid
Analysis Batch: 57381

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 57416

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene	<0.00396	U F1	0.200	0.1226	F1	mg/Kg		61	70 - 130	14	35
o-Xylene	<0.00198	U F1	0.0998	0.06110	F1	mg/Kg		61	70 - 130	13	35

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

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

Lab Sample ID: MB 880-57501/1-A
Matrix: Solid
Analysis Batch: 57664

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 57501

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		07/12/23 12:11	07/14/23 07:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/12/23 12:11	07/14/23 07:48	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/12/23 12:11	07/14/23 07:48	1
Total TPH	<50.0	U	50.0		mg/Kg		07/12/23 12:11	07/14/23 07:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*146*	*S1+*	*70 - 130*	*07/12/23 12:11*	*07/14/23 07:48*	*1*
o-Terphenyl	*122*		*70 - 130*	*07/12/23 12:11*	*07/14/23 07:48*	*1*

Lab Sample ID: LCS 880-57501/2-A
Matrix: Solid
Analysis Batch: 57664

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 57501

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1156		mg/Kg		116	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	990.1		mg/Kg		99	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*106*		*70 - 130*
o-Terphenyl	*92*		*70 - 130*

Lab Sample ID: LCSD 880-57501/3-A
Matrix: Solid
Analysis Batch: 57664

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 57501

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1034		mg/Kg		103	70 - 130	11	20
Diesel Range Organics (Over C10-C28)			1000	873.4		mg/Kg		87	70 - 130	13	20

QC Sample Results

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

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

Lab Sample ID: LCSD 880-57501/3-A
Matrix: Solid
Analysis Batch: 57664

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 57501

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	91		70 - 130

Lab Sample ID: 890-4915-A-1-F MS
Matrix: Solid
Analysis Batch: 57664

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 57501

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	1000	1142		mg/Kg		110	70 - 130
Diesel Range Organics (Over C10-C28)	164		1000	1252		mg/Kg		108	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	140	S1+	70 - 130
o-Terphenyl	103		70 - 130

Lab Sample ID: 890-4915-A-1-G MSD
Matrix: Solid
Analysis Batch: 57664

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 57501

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	999	1002		mg/Kg		97	70 - 130	13	20
Diesel Range Organics (Over C10-C28)	164		999	1081		mg/Kg		92	70 - 130	15	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	124		70 - 130
o-Terphenyl	89		70 - 130

Lab Sample ID: MB 880-57801/1-A
Matrix: Solid
Analysis Batch: 58259

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 57801

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		07/17/23 09:18	07/22/23 09:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/17/23 09:18	07/22/23 09:08	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/17/23 09:18	07/22/23 09:08	1
Total TPH	<50.0	U	50.0	mg/Kg		07/17/23 09:18	07/22/23 09:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	161	S1+	70 - 130	07/17/23 09:18	07/22/23 09:08	1
o-Terphenyl	139	S1+	70 - 130	07/17/23 09:18	07/22/23 09:08	1

QC Sample Results

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

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

Lab Sample ID: LCS 880-57801/2-A
Matrix: Solid
Analysis Batch: 58259

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 57801

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	927.0		mg/Kg		93	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	919.7		mg/Kg		92	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*95*		*70 - 130*
o-Terphenyl	*93*		*70 - 130*

Lab Sample ID: LCSD 880-57801/3-A
Matrix: Solid
Analysis Batch: 58259

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 57801

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1097		mg/Kg		110	70 - 130	17	20
Diesel Range Organics (Over C10-C28)			1000	1045		mg/Kg		105	70 - 130	13	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*111*		*70 - 130*
o-Terphenyl	*98*		*70 - 130*

Lab Sample ID: 890-4913-A-1-F MS
Matrix: Solid
Analysis Batch: 58259

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 57801

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

Lab Sample ID: 890-4913-A-1-G MSD
Matrix: Solid
Analysis Batch: 58259

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 57801

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

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-57317/1-A
Matrix: Solid
Analysis Batch: 57418

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			07/11/23 17:23	1

QC Sample Results

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-57317/2-A
Matrix: Solid
Analysis Batch: 57418

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	252.5		mg/Kg		101	90 - 110		

Lab Sample ID: LCSD 880-57317/3-A
Matrix: Solid
Analysis Batch: 57418

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	252.9		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 890-4914-5 MS
Matrix: Solid
Analysis Batch: 57418

Client Sample ID: FS05
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	67.5		249	324.7		mg/Kg		103	90 - 110		

Lab Sample ID: 890-4914-5 MSD
Matrix: Solid
Analysis Batch: 57418

Client Sample ID: FS05
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	67.5		249	325.1		mg/Kg		104	90 - 110	0	20

Lab Sample ID: MB 880-57365/1-A
Matrix: Solid
Analysis Batch: 57420

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			07/11/23 13:27	1

Lab Sample ID: LCS 880-57365/2-A
Matrix: Solid
Analysis Batch: 57420

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	246.6		mg/Kg		99	90 - 110		

Lab Sample ID: LCSD 880-57365/3-A
Matrix: Solid
Analysis Batch: 57420

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	246.5		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 890-4914-15 MS
Matrix: Solid
Analysis Batch: 57420

Client Sample ID: SS09A
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	102	F1	250	323.7	F1	mg/Kg		89	90 - 110		

QC Sample Results

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-4914-15 MSD
Matrix: Solid
Analysis Batch: 57420

Client Sample ID: SS09A
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	102	F1	250	322.5	F1	mg/Kg		88	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

GC VOA

Prep Batch: 57308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-57308/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 57324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-57324/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 57379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4914-1	FS01	Total/NA	Solid	8021B	57410
890-4914-2	FS02	Total/NA	Solid	8021B	57410
890-4914-3	FS03	Total/NA	Solid	8021B	57410
890-4914-4	FS04	Total/NA	Solid	8021B	57410
890-4914-5	FS05	Total/NA	Solid	8021B	57410
890-4914-6	FS06	Total/NA	Solid	8021B	57410
890-4914-7	FS07	Total/NA	Solid	8021B	57410
890-4914-8	FS08	Total/NA	Solid	8021B	57410
890-4914-9	FS09	Total/NA	Solid	8021B	57410
890-4914-10	FS10	Total/NA	Solid	8021B	57410
890-4914-11	SS05A	Total/NA	Solid	8021B	57410
890-4914-12	SS06A	Total/NA	Solid	8021B	57410
890-4914-13	SS07A	Total/NA	Solid	8021B	57410
890-4914-14	SS08A	Total/NA	Solid	8021B	57410
MB 880-57308/5-A	Method Blank	Total/NA	Solid	8021B	57308
MB 880-57410/5-A	Method Blank	Total/NA	Solid	8021B	57410
LCS 880-57410/1-A	Lab Control Sample	Total/NA	Solid	8021B	57410
LCSD 880-57410/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	57410
890-4913-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	57410
890-4913-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	57410

Analysis Batch: 57381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4914-15	SS09A	Total/NA	Solid	8021B	57416
890-4914-16	SW01	Total/NA	Solid	8021B	57416
890-4914-17	SW02	Total/NA	Solid	8021B	57416
MB 880-57324/5-A	Method Blank	Total/NA	Solid	8021B	57324
MB 880-57416/5-A	Method Blank	Total/NA	Solid	8021B	57416
LCS 880-57416/1-A	Lab Control Sample	Total/NA	Solid	8021B	57416
LCSD 880-57416/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	57416
890-4915-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	57416
890-4915-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	57416

Prep Batch: 57410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4914-1	FS01	Total/NA	Solid	5035	
890-4914-2	FS02	Total/NA	Solid	5035	
890-4914-3	FS03	Total/NA	Solid	5035	
890-4914-4	FS04	Total/NA	Solid	5035	
890-4914-5	FS05	Total/NA	Solid	5035	
890-4914-6	FS06	Total/NA	Solid	5035	
890-4914-7	FS07	Total/NA	Solid	5035	
890-4914-8	FS08	Total/NA	Solid	5035	

QC Association Summary

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

GC VOA (Continued)

Prep Batch: 57410 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4914-9	FS09	Total/NA	Solid	5035	
890-4914-10	FS10	Total/NA	Solid	5035	
890-4914-11	SS05A	Total/NA	Solid	5035	
890-4914-12	SS06A	Total/NA	Solid	5035	
890-4914-13	SS07A	Total/NA	Solid	5035	
890-4914-14	SS08A	Total/NA	Solid	5035	
MB 880-57410/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-57410/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-57410/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4913-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
890-4913-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 57416

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4914-15	SS09A	Total/NA	Solid	5035	
890-4914-16	SW01	Total/NA	Solid	5035	
890-4914-17	SW02	Total/NA	Solid	5035	
MB 880-57416/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-57416/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-57416/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4915-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-4915-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 57491

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4914-1	FS01	Total/NA	Solid	Total BTEX	
890-4914-2	FS02	Total/NA	Solid	Total BTEX	
890-4914-3	FS03	Total/NA	Solid	Total BTEX	
890-4914-4	FS04	Total/NA	Solid	Total BTEX	
890-4914-5	FS05	Total/NA	Solid	Total BTEX	
890-4914-6	FS06	Total/NA	Solid	Total BTEX	
890-4914-7	FS07	Total/NA	Solid	Total BTEX	
890-4914-8	FS08	Total/NA	Solid	Total BTEX	
890-4914-9	FS09	Total/NA	Solid	Total BTEX	
890-4914-10	FS10	Total/NA	Solid	Total BTEX	
890-4914-11	SS05A	Total/NA	Solid	Total BTEX	
890-4914-12	SS06A	Total/NA	Solid	Total BTEX	
890-4914-13	SS07A	Total/NA	Solid	Total BTEX	
890-4914-14	SS08A	Total/NA	Solid	Total BTEX	
890-4914-15	SS09A	Total/NA	Solid	Total BTEX	
890-4914-16	SW01	Total/NA	Solid	Total BTEX	
890-4914-17	SW02	Total/NA	Solid	Total BTEX	

Analysis Batch: 57560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-57410/5-A	Method Blank	Total/NA	Solid	8021B	57410
LCS 880-57410/1-A	Lab Control Sample	Total/NA	Solid	8021B	57410
LCSD 880-57410/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	57410
890-4913-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	57410
890-4913-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	57410

QC Association Summary

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

GC Semi VOA

Prep Batch: 57501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4914-11	SS05A	Total/NA	Solid	8015NM Prep	
890-4914-12	SS06A	Total/NA	Solid	8015NM Prep	
890-4914-13	SS07A	Total/NA	Solid	8015NM Prep	
890-4914-14	SS08A	Total/NA	Solid	8015NM Prep	
890-4914-15	SS09A	Total/NA	Solid	8015NM Prep	
890-4914-16	SW01	Total/NA	Solid	8015NM Prep	
890-4914-17	SW02	Total/NA	Solid	8015NM Prep	
MB 880-57501/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-57501/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-57501/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4915-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4915-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 57664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4914-11	SS05A	Total/NA	Solid	8015B NM	57501
890-4914-12	SS06A	Total/NA	Solid	8015B NM	57501
890-4914-13	SS07A	Total/NA	Solid	8015B NM	57501
890-4914-14	SS08A	Total/NA	Solid	8015B NM	57501
890-4914-15	SS09A	Total/NA	Solid	8015B NM	57501
890-4914-16	SW01	Total/NA	Solid	8015B NM	57501
890-4914-17	SW02	Total/NA	Solid	8015B NM	57501
MB 880-57501/1-A	Method Blank	Total/NA	Solid	8015B NM	57501
LCS 880-57501/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	57501
LCSD 880-57501/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	57501
890-4915-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	57501
890-4915-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	57501

Prep Batch: 57801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4914-1	FS01	Total/NA	Solid	8015NM Prep	
890-4914-2	FS02	Total/NA	Solid	8015NM Prep	
890-4914-3	FS03	Total/NA	Solid	8015NM Prep	
890-4914-4	FS04	Total/NA	Solid	8015NM Prep	
890-4914-5	FS05	Total/NA	Solid	8015NM Prep	
890-4914-6	FS06	Total/NA	Solid	8015NM Prep	
890-4914-7	FS07	Total/NA	Solid	8015NM Prep	
890-4914-8	FS08	Total/NA	Solid	8015NM Prep	
890-4914-9	FS09	Total/NA	Solid	8015NM Prep	
890-4914-10	FS10	Total/NA	Solid	8015NM Prep	
MB 880-57801/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-57801/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-57801/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4913-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4913-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 57842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4914-1	FS01	Total/NA	Solid	8015 NM	
890-4914-2	FS02	Total/NA	Solid	8015 NM	
890-4914-3	FS03	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

GC Semi VOA (Continued)

Analysis Batch: 57842 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4914-4	FS04	Total/NA	Solid	8015 NM	
890-4914-5	FS05	Total/NA	Solid	8015 NM	
890-4914-6	FS06	Total/NA	Solid	8015 NM	
890-4914-7	FS07	Total/NA	Solid	8015 NM	
890-4914-8	FS08	Total/NA	Solid	8015 NM	
890-4914-9	FS09	Total/NA	Solid	8015 NM	
890-4914-10	FS10	Total/NA	Solid	8015 NM	
890-4914-11	SS05A	Total/NA	Solid	8015 NM	
890-4914-12	SS06A	Total/NA	Solid	8015 NM	
890-4914-13	SS07A	Total/NA	Solid	8015 NM	
890-4914-14	SS08A	Total/NA	Solid	8015 NM	
890-4914-15	SS09A	Total/NA	Solid	8015 NM	
890-4914-16	SW01	Total/NA	Solid	8015 NM	
890-4914-17	SW02	Total/NA	Solid	8015 NM	

Analysis Batch: 58259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4914-1	FS01	Total/NA	Solid	8015B NM	57801
890-4914-2	FS02	Total/NA	Solid	8015B NM	57801
890-4914-3	FS03	Total/NA	Solid	8015B NM	57801
890-4914-4	FS04	Total/NA	Solid	8015B NM	57801
890-4914-5	FS05	Total/NA	Solid	8015B NM	57801
890-4914-6	FS06	Total/NA	Solid	8015B NM	57801
890-4914-7	FS07	Total/NA	Solid	8015B NM	57801
890-4914-8	FS08	Total/NA	Solid	8015B NM	57801
890-4914-9	FS09	Total/NA	Solid	8015B NM	57801
890-4914-10	FS10	Total/NA	Solid	8015B NM	57801
MB 880-57801/1-A	Method Blank	Total/NA	Solid	8015B NM	57801
LCS 880-57801/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	57801
LCSD 880-57801/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	57801
890-4913-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	57801
890-4913-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	57801

HPLC/IC

Leach Batch: 57317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4914-1	FS01	Soluble	Solid	DI Leach	
890-4914-2	FS02	Soluble	Solid	DI Leach	
890-4914-3	FS03	Soluble	Solid	DI Leach	
890-4914-4	FS04	Soluble	Solid	DI Leach	
890-4914-5	FS05	Soluble	Solid	DI Leach	
890-4914-6	FS06	Soluble	Solid	DI Leach	
890-4914-7	FS07	Soluble	Solid	DI Leach	
890-4914-8	FS08	Soluble	Solid	DI Leach	
890-4914-9	FS09	Soluble	Solid	DI Leach	
890-4914-10	FS10	Soluble	Solid	DI Leach	
890-4914-11	SS05A	Soluble	Solid	DI Leach	
890-4914-12	SS06A	Soluble	Solid	DI Leach	
890-4914-13	SS07A	Soluble	Solid	DI Leach	
890-4914-14	SS08A	Soluble	Solid	DI Leach	

QC Association Summary

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

HPLC/IC (Continued)

Leach Batch: 57317 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-57317/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-57317/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-57317/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4914-5 MS	FS05	Soluble	Solid	DI Leach	
890-4914-5 MSD	FS05	Soluble	Solid	DI Leach	

Leach Batch: 57365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4914-15	SS09A	Soluble	Solid	DI Leach	
890-4914-16	SW01	Soluble	Solid	DI Leach	
890-4914-17	SW02	Soluble	Solid	DI Leach	
MB 880-57365/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-57365/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-57365/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4914-15 MS	SS09A	Soluble	Solid	DI Leach	
890-4914-15 MSD	SS09A	Soluble	Solid	DI Leach	

Analysis Batch: 57418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4914-1	FS01	Soluble	Solid	300.0	57317
890-4914-2	FS02	Soluble	Solid	300.0	57317
890-4914-3	FS03	Soluble	Solid	300.0	57317
890-4914-4	FS04	Soluble	Solid	300.0	57317
890-4914-5	FS05	Soluble	Solid	300.0	57317
890-4914-6	FS06	Soluble	Solid	300.0	57317
890-4914-7	FS07	Soluble	Solid	300.0	57317
890-4914-8	FS08	Soluble	Solid	300.0	57317
890-4914-9	FS09	Soluble	Solid	300.0	57317
890-4914-10	FS10	Soluble	Solid	300.0	57317
890-4914-11	SS05A	Soluble	Solid	300.0	57317
890-4914-12	SS06A	Soluble	Solid	300.0	57317
890-4914-13	SS07A	Soluble	Solid	300.0	57317
890-4914-14	SS08A	Soluble	Solid	300.0	57317
MB 880-57317/1-A	Method Blank	Soluble	Solid	300.0	57317
LCS 880-57317/2-A	Lab Control Sample	Soluble	Solid	300.0	57317
LCSD 880-57317/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	57317
890-4914-5 MS	FS05	Soluble	Solid	300.0	57317
890-4914-5 MSD	FS05	Soluble	Solid	300.0	57317

Analysis Batch: 57420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4914-15	SS09A	Soluble	Solid	300.0	57365
890-4914-16	SW01	Soluble	Solid	300.0	57365
890-4914-17	SW02	Soluble	Solid	300.0	57365
MB 880-57365/1-A	Method Blank	Soluble	Solid	300.0	57365
LCS 880-57365/2-A	Lab Control Sample	Soluble	Solid	300.0	57365
LCSD 880-57365/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	57365
890-4914-15 MS	SS09A	Soluble	Solid	300.0	57365
890-4914-15 MSD	SS09A	Soluble	Solid	300.0	57365

Lab Chronicle

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

Client Sample ID: FS01
Date Collected: 07/07/23 10:25
Date Received: 07/07/23 14:57

Lab Sample ID: 890-4914-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	57410	07/11/23 12:32	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57379	07/12/23 02:01	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57491	07/12/23 11:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			57842	07/24/23 14:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	57801	07/17/23 09:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58259	07/22/23 17:10	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	57317	07/10/23 13:53	KS	EET MID
Soluble	Analysis	300.0		1			57418	07/11/23 18:29	CH	EET MID

Client Sample ID: FS02
Date Collected: 07/07/23 10:30
Date Received: 07/07/23 14:57

Lab Sample ID: 890-4914-2
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			5.02 g	5 mL	57410	07/11/23 12:32	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57379	07/12/23 02:21	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57491	07/12/23 11:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			57842	07/24/23 14:27	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	57801	07/17/23 09:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58259	07/22/23 17:32	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	57317	07/10/23 13:53	KS	EET MID
Soluble	Analysis	300.0		1			57418	07/11/23 18:35	CH	EET MID

Client Sample ID: FS03
Date Collected: 07/07/23 10:35
Date Received: 07/07/23 14:57

Lab Sample ID: 890-4914-3
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			4.97 g	5 mL	57410	07/11/23 12:32	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57379	07/12/23 02:41	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57491	07/12/23 11:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			57842	07/24/23 14:27	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	57801	07/17/23 09:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58259	07/22/23 17:54	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	57317	07/10/23 13:53	KS	EET MID
Soluble	Analysis	300.0		1			57418	07/11/23 18:40	CH	EET MID

Client Sample ID: FS04
Date Collected: 07/07/23 10:40
Date Received: 07/07/23 14:57

Lab Sample ID: 890-4914-4
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	57410	07/11/23 12:32	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57379	07/12/23 03:02	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57491	07/12/23 11:12	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

Client Sample ID: FS04

Date Collected: 07/07/23 10:40
Date Received: 07/07/23 14:57

Lab Sample ID: 890-4914-4

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			57842	07/24/23 14:27	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	57801	07/17/23 09:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58259	07/22/23 18:16	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	57317	07/10/23 13:53	KS	EET MID
Soluble	Analysis	300.0		1			57418	07/11/23 18:45	CH	EET MID

Client Sample ID: FS05

Date Collected: 07/07/23 10:45
Date Received: 07/07/23 14:57

Lab Sample ID: 890-4914-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	57410	07/11/23 12:32	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57379	07/12/23 05:05	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57491	07/12/23 11:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			57842	07/24/23 14:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	57801	07/17/23 09:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58259	07/22/23 18:49	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	57317	07/10/23 13:53	KS	EET MID
Soluble	Analysis	300.0		1			57418	07/11/23 18:50	CH	EET MID

Client Sample ID: FS06

Date Collected: 07/07/23 10:50
Date Received: 07/07/23 14:57

Lab Sample ID: 890-4914-6

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			4.99 g	5 mL	57410	07/11/23 12:32	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57379	07/12/23 05:25	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57491	07/12/23 11:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			57842	07/24/23 14:27	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	57801	07/17/23 09:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58259	07/22/23 19:11	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	57317	07/10/23 13:53	KS	EET MID
Soluble	Analysis	300.0		1			57418	07/11/23 19:05	CH	EET MID

Client Sample ID: FS07

Date Collected: 07/07/23 10:55
Date Received: 07/07/23 14:57

Lab Sample ID: 890-4914-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	57410	07/11/23 12:32	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57379	07/12/23 05:46	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57491	07/12/23 11:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			57842	07/24/23 14:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	57801	07/17/23 09:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58259	07/22/23 19:33	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

Client Sample ID: FS07
Date Collected: 07/07/23 10:55
Date Received: 07/07/23 14:57

Lab Sample ID: 890-4914-7
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	57317	07/10/23 13:53	KS	EET MID
Soluble	Analysis	300.0		1			57418	07/11/23 19:10	CH	EET MID

Client Sample ID: FS08
Date Collected: 07/07/23 11:00
Date Received: 07/07/23 14:57

Lab Sample ID: 890-4914-8
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			5.02 g	5 mL	57410	07/11/23 12:32	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57379	07/12/23 06:06	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57491	07/12/23 11:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			57842	07/24/23 14:27	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	57801	07/17/23 09:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58259	07/22/23 19:56	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	57317	07/10/23 13:53	KS	EET MID
Soluble	Analysis	300.0		1			57418	07/11/23 19:26	CH	EET MID

Client Sample ID: FS09
Date Collected: 07/07/23 12:05
Date Received: 07/07/23 14:57

Lab Sample ID: 890-4914-9
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	57410	07/11/23 12:32	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57379	07/12/23 06:27	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57491	07/12/23 11:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			57842	07/24/23 14:27	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	57801	07/17/23 09:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58259	07/22/23 20:18	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	57317	07/10/23 13:53	KS	EET MID
Soluble	Analysis	300.0		1			57418	07/11/23 19:31	CH	EET MID

Client Sample ID: FS10
Date Collected: 07/07/23 12:10
Date Received: 07/07/23 14:57

Lab Sample ID: 890-4914-10
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	57410	07/11/23 12:32	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57379	07/12/23 06:47	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57491	07/12/23 11:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			57842	07/24/23 14:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	57801	07/17/23 09:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58259	07/22/23 20:41	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	57317	07/10/23 13:53	KS	EET MID
Soluble	Analysis	300.0		1			57418	07/11/23 19:36	CH	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

Client Sample ID: SS05A
Date Collected: 07/07/23 12:15
Date Received: 07/07/23 14:57

Lab Sample ID: 890-4914-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	57410	07/11/23 12:32	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57379	07/12/23 07:07	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57491	07/12/23 11:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			57842	07/17/23 13:24	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	57501	07/12/23 12:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57664	07/14/23 17:19	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	57317	07/10/23 13:53	KS	EET MID
Soluble	Analysis	300.0		1			57418	07/11/23 19:41	CH	EET MID

Client Sample ID: SS06A
Date Collected: 07/07/23 12:20
Date Received: 07/07/23 14:57

Lab Sample ID: 890-4914-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	57410	07/11/23 12:32	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57379	07/12/23 07:28	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57491	07/12/23 11:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			57842	07/17/23 13:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	57501	07/12/23 12:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57664	07/14/23 17:41	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	57317	07/10/23 13:53	KS	EET MID
Soluble	Analysis	300.0		1			57418	07/11/23 19:46	CH	EET MID

Client Sample ID: SS07A
Date Collected: 07/07/23 12:25
Date Received: 07/07/23 14:57

Lab Sample ID: 890-4914-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	57410	07/11/23 12:32	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57379	07/12/23 07:49	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57491	07/12/23 11:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			57842	07/17/23 13:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	57501	07/12/23 12:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57664	07/14/23 18:03	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	57317	07/10/23 13:53	KS	EET MID
Soluble	Analysis	300.0		1			57418	07/11/23 19:52	CH	EET MID

Client Sample ID: SS08A
Date Collected: 07/07/23 12:30
Date Received: 07/07/23 14:57

Lab Sample ID: 890-4914-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	57410	07/11/23 12:32	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57379	07/12/23 08:09	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57491	07/12/23 11:12	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

Client Sample ID: SS08A
Date Collected: 07/07/23 12:30
Date Received: 07/07/23 14:57

Lab Sample ID: 890-4914-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			57842	07/17/23 13:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	57501	07/12/23 12:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57664	07/15/23 07:36	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	57317	07/10/23 13:53	KS	EET MID
Soluble	Analysis	300.0		1			57418	07/11/23 19:57	CH	EET MID

Client Sample ID: SS09A
Date Collected: 07/07/23 12:35
Date Received: 07/07/23 14:57

Lab Sample ID: 890-4914-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	57416	07/11/23 13:40	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57381	07/12/23 05:44	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57491	07/12/23 14:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			57842	07/17/23 13:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	57501	07/12/23 12:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57664	07/15/23 08:28	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	57365	07/11/23 12:00	KS	EET MID
Soluble	Analysis	300.0		1			57420	07/11/23 13:46	CH	EET MID

Client Sample ID: SW01
Date Collected: 07/07/23 12:40
Date Received: 07/07/23 14:57

Lab Sample ID: 890-4914-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	57416	07/11/23 13:40	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57381	07/12/23 06:04	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57491	07/12/23 14:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			57842	07/17/23 13:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	57501	07/12/23 12:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57664	07/15/23 08:50	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	57365	07/11/23 12:00	KS	EET MID
Soluble	Analysis	300.0		1			57420	07/11/23 14:04	CH	EET MID

Client Sample ID: SW02
Date Collected: 07/07/23 12:45
Date Received: 07/07/23 14:57

Lab Sample ID: 890-4914-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	57416	07/11/23 13:40	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57381	07/12/23 06:25	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57491	07/12/23 14:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			57842	07/17/23 13:24	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	57501	07/12/23 12:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57664	07/15/23 09:11	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

Client Sample ID: SW02

Date Collected: 07/07/23 12:45
Date Received: 07/07/23 14:57

Lab Sample ID: 890-4914-17

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			4.98 g	50 mL	57365	07/11/23 12:00	KS	EET MID
Soluble	Analysis	300.0		1			57420	07/11/23 14:10	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

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

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

Method Summary

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

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: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4914-1	FS01	Solid	07/07/23 10:25	07/07/23 14:57	2.5
890-4914-2	FS02	Solid	07/07/23 10:30	07/07/23 14:57	2.5
890-4914-3	FS03	Solid	07/07/23 10:35	07/07/23 14:57	2.5
890-4914-4	FS04	Solid	07/07/23 10:40	07/07/23 14:57	2.5
890-4914-5	FS05	Solid	07/07/23 10:45	07/07/23 14:57	2.5
890-4914-6	FS06	Solid	07/07/23 10:50	07/07/23 14:57	2.5
890-4914-7	FS07	Solid	07/07/23 10:55	07/07/23 14:57	1
890-4914-8	FS08	Solid	07/07/23 11:00	07/07/23 14:57	1
890-4914-9	FS09	Solid	07/07/23 12:05	07/07/23 14:57	1
890-4914-10	FS10	Solid	07/07/23 12:10	07/07/23 14:57	1
890-4914-11	SS05A	Solid	07/07/23 12:15	07/07/23 14:57	1
890-4914-12	SS06A	Solid	07/07/23 12:20	07/07/23 14:57	1
890-4914-13	SS07A	Solid	07/07/23 12:25	07/07/23 14:57	1
890-4914-14	SS08A	Solid	07/07/23 12:30	07/07/23 14:57	1
890-4914-15	SS09A	Solid	07/07/23 12:35	07/07/23 14:57	1
890-4914-16	SW01	Solid	07/07/23 12:40	07/07/23 14:57	1
890-4914-17	SW02	Solid	07/07/23 12:45	07/07/23 14:57	1

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Chain of Custody

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

Work Order No: _____

www.xenco.com Page 1 of 2

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

Work Order Comments

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

Project Name:	Brinninstool Unit 003H	Turn Around	
Project Number:	03D2024197	☑ Routine ☐ Rush	
Project Location:	32.29733,-103.58598	Due Date:	
Sampler's Name:	Peter Van Patten	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	Thermo07
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	3.2
Total Containers:		Corrected Temperature:	3.0

Preservative Codes

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)	Sample Comments
FS01	Soil	7/7/2023	1025	2.5	Comp	1		x	x	x	
FS02	Soil	7/7/2023	1030	2.5	Comp	1		x	x	x	
FS03	Soil	7/7/2023	1035	2.5	Comp	1		x	x	x	
FS04	Soil	7/7/2023	1040	2.5	Comp	1		x	x	x	
FS05	Soil	7/7/2023	1045	2.5	Comp	1		x	x	x	
FS06	Soil	7/7/2023	1050	2.5	Comp	1		x	x	x	
FS07	Soil	7/7/2023	1055	1	Comp	1		x	x	x	
FS08	Soil	7/7/2023	1100	1	Comp	1		x	x	x	
FS09	Soil	7/7/2023	1205	1	Comp	1		x	x	x	
FS10	Soil	7/7/2023	1210	1	Comp	1		x	x	x	

890-4914 Chain of Custody

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		7.7.23 1457	4		
3			6		
5					

Revised Date: 08/25/2020 Rev. 2020.2

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Chain of Custody

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

Work Order No: _____

www.xenco.com Page 2 of 2

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

Work Order Comments

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

Project Name:	Brinninstool Unit 003H	Turn Around	☑ Routine ☐ Rush
Project Number:	03D2024197	Due Date:	
Project Location:	32.29733,-103.58598	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Peter Van Patten		
PO #:			

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

Preservative Codes

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)	Sample Comments
SS05A	Soil	7/7/2023	1215	1	Comp	1		x	x	x	
SS06A	Soil	7/7/2023	1220	1	Comp	1		x	x	x	
SS07A	Soil	7/7/2023	1225	1	Comp	1		x	x	x	
SS08A	Soil	7/7/2023	1230	1	Comp	1		x	x	x	
SS09A	Soil	7/7/2023	1235	1	Comp	1		x	x	x	
SW01	Soil	7/7/2023	1240	1	Comp	1		x	x	x	
SW02	Soil	7/7/2023	1245	1	Comp	1		x	x	x	

Peter Van Patten

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

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

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	Peter Van Patten		7.7.23 1457			
3				4		
5				6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4914-1
SDG Number: 03D2024197

Login Number: 4914
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4914-1
SDG Number: 03D2024197

Login Number: 4914
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 07/11/23 11:07 AM

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

ENSOLUM

APPENDIX D

NMOCD Notifications

[**EXTERNAL EMAIL**]

Hadlie,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JH

Jocelyn Harimon ● Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
http:// **www.emnrd.nm.gov**

From: Hadlie Green <hgreen@ensolum.com>
Sent: Thursday, June 29, 2023 8:15 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Kalei Jennings <kjennings@ensolum.com>; Peter Van Patten <pvanpatten@ensolum.com>
Subject: [EXTERNAL] COP - Sampling Notification (Week of 7/3/2023)

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

ConocoPhillips Company (COP) plans to complete sampling activities at the following site the week of July 3, 2023.

- Red Raider BKS Battery / NAPP2315734307
  - Sampling Date: 7/6/2023 @ 10:00 AM MST
- Brinninstool Unit 3H / NAPP2315635182
  - Sampling Date: 7/7/2023 @ 10:00 AM MST

Thank you,

Hadlie Green
Project Geologist
432-557-8895
hgreen@ensolum.com
Ensolum, LLC

ENSOLUM

APPENDIX E

Final C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NAPP2315635182
District RP	
Facility ID	fAPP2203246737
Application ID	

Release Notification

Responsible Party

Responsible Party	COG Operating, LLC	OGRID	217817
Contact Name	Jacob Laird	Contact Telephone	(575) 703-5482
Contact email	Jacob.Laird@ConocoPhillips.com	Incident # *(assigned by OCD)*	NAPP2315635182
Contact mailing address	600 West Illinois Avenue, Midland, Texas 79701		

Location of Release Source

Latitude 32.2973 Longitude -103.5859
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Brinninstool Unit 003H	Site Type	Flowline
Date Release Discovered	May 29, 2023	API# *(if applicable)*	

Unit Letter	Section	Township	Range	County
A	20	23S	33E	Lea

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (*Name:* Hughes Properties)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 2.3059	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☒ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

The release was caused by transfer line damage.
The release was off the pad.
Evaluation will be made of the site to determine if we may commence remediation immediately or delineate any possible impact from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation activities.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2315635182
District RP	
Facility ID	fAPP2203246737
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ■ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

- ■ The source of the release has been stopped.
- ■ The impacted area has been secured to protect human health and the environment.
- ■ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- ■ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Brittany N. Esparza Title: Environmental Technician

Signature: Brittany Esparza Date: 6/5/2023

email: Brittany.Esparza@ConocoPhillips.com Telephone: (432) 221-0398

OCD Only

Received by: Jocelyn Harimon Date: 06/05/2023

Convert irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Average Depth (in.)	On/Off Pad (dropdown)	Soil Spilled-Fluid Saturation (%.)	Estimated volume of each area (bbl.)	Total Estimated Volume of Spill (bbl.)	[redacted]	Total Estimated Contaminated Soil, uncompacted, 25% (yd^3.)	Current Yard Waste - RMR Handover Volume, (yd^3.)
Rectangle A	60.0	30.0	0.4	Off-Pad	15.02%	10.01	1.50		2.60	
Rectangle B	60.0	30.0	0.2	Off-Pad	15.02%	5.34	0.80		1.39	
Rectangle C						0.00			0.00	
Rectangle D						0.00			0.00	
Rectangle E						0.00			0.00	750
Rectangle F						0.00			0.00	
Rectangle G						0.00			0.00	
Rectangle H						0.00			0.00	
Rectangle I						0.00			0.00	
Rectangle J						0.00			0.00	
					Total Subsurface Volume Released:		2.3059		3.99	BU

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 223771
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	6/5/2023

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2315635182
District RP	
Facility ID	fAPP2203246737
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	>100 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☒ Yes ☐ No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: ***Each of the following items must be included in the report.***

☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
☒ Field data
☒ Data table of soil contaminant concentration data
☒ Depth to water determination
☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
☒ Boring or excavation logs
☒ Photographs including date and GIS information
☒ Topographic/Aerial maps
☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2315635182
District RP	
Facility ID	fAPP2203246737
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: __Jacob Laird_____ Title: __Environmental Engineer_____

Signature: Jacob Laird_____ Date: _____9/14/2023_____

email: __Jacob.Laird@conocophillips.com_____ Telephone: ___575-703-5482_____

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2315635182
District RP	
Facility ID	fAPP2203246737
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: ***Each of the following items must be included in the closure report.***

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

I hereby certify that the information given above is true and complete to 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.

Printed Name: __Jacob Laird_____ Title: _Environmental Engineer_____

Signature: _Jacob Laird_____ Date: _____9/14/2023_____

email: __Jacob.Laird@conocophillips.com_____ Telephone:___575-703-5482_____

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Nelson Velez Date: 01/12/2024

Printed Name: Nelson Velez Title: Environmental Specialist - Adv

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 266282
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Release did not require notification per 19.15.29.10 NMAC (<= 5 bbls). Should accept for the record; however, documentation submitted met the applicable closure standards; therefore, the remediation closure report is approved. Release resolved.	1/12/2024

ENSOLUM

APPENDIX B

Photographic Log

ENSOLUM

Photographic Log
COG Operating, LLC
Brinninstool Unit 003H
NAPP2315635182

Photograph: 1 Date: 10/23/2024
Description: BLM seed mix
View: Direct

Photograph: 2 Date: 10/23/2024
Description: Reseeding activities
View: West

Photograph: 3 Date: 11/18/2024
Description: Backfill sampling activities
View: Northwest

Photograph: 4 Date: 11/18/2024
Description: Backfill sampling activities
View: Southeast

ENSOLUM

APPENDIX C

Laboratory Analytical Reports & Chain of Custody Documentation

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 11/20/2024 2:53:52 PM

JOB DESCRIPTION

Brinninstool Unit 3H
Lea County, NM

JOB NUMBER

880-51210-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Eurofins Midland

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
11/20/2024 2:53:52 PM

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

Client: Ensolum
Project/Site: Brinninstool Unit 3H

Laboratory Job ID: 880-51210-1
SDG: Lea County, NM

Table of Contents

Definitions/Glossary

Client: Ensolum Job ID: 880-51210-1
Project/Site: Brinninstool Unit 3H SDG: Lea County, NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
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 Job ID: 880-51210-1
Project: Brinninstool Unit 3H

Job ID: 880-51210-1 Eurofins Midland

Job Narrative
880-51210-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

Receipt
The samples were received on 11/18/2024 4:05 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.2°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: CS-1 (Caliche backfill) (880-51210-1) and CS-2 (Topsoil backfill) (880-51210-2).

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 880-96013 and analytical batch 880-96065 was outside the upper control limits.

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

HPLC/IC
Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-96074 and analytical batch 880-96095 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.

Client Sample Results

Client: Ensolum
Project/Site: Brinninstool Unit 3H

Job ID: 880-51210-1
SDG: Lea County, NM

Client Sample ID: CS-1 (Caliche backfill)

Lab Sample ID: 880-51210-1
Matrix: Solid
Date Collected: 11/18/24 11:35
Date Received: 11/18/24 16:05
Sample Depth: 0.25

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		11/19/24 08:56	11/19/24 18:18	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/19/24 08:56	11/19/24 18:18	1
Ethylbenzene	**0.00349**		0.00201		mg/Kg		11/19/24 08:56	11/19/24 18:18	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/19/24 08:56	11/19/24 18:18	1
o-Xylene	**0.0648**		0.00201		mg/Kg		11/19/24 08:56	11/19/24 18:18	1
Xylenes, Total	**0.0648**		0.00402		mg/Kg		11/19/24 08:56	11/19/24 18:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*11/19/24 08:56*	*11/19/24 18:18*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*11/19/24 08:56*	*11/19/24 18:18*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0683**		0.00402		mg/Kg			11/19/24 18:18	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			11/19/24 17:04	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		11/18/24 15:17	11/19/24 17:04	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/18/24 15:17	11/19/24 17:04	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/18/24 15:17	11/19/24 17:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*11/18/24 15:17*	*11/19/24 17:04*	*1*
o-Terphenyl	*71*		*70 - 130*	*11/18/24 15:17*	*11/19/24 17:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**117**		9.98		mg/Kg			11/19/24 20:58	1

Client Sample ID: CS-2 (Topsoil backfill)

Lab Sample ID: 880-51210-2
Matrix: Solid
Date Collected: 11/18/24 11:37
Date Received: 11/18/24 16:05
Sample Depth: 0.25

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		11/19/24 08:56	11/19/24 18:39	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/19/24 08:56	11/19/24 18:39	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/19/24 08:56	11/19/24 18:39	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		11/19/24 08:56	11/19/24 18:39	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/19/24 08:56	11/19/24 18:39	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		11/19/24 08:56	11/19/24 18:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*11/19/24 08:56*	*11/19/24 18:39*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Brinninstool Unit 3H

Job ID: 880-51210-1
SDG: Lea County, NM

Client Sample ID: CS-2 (Topsoil backfill)

Date Collected: 11/18/24 11:37
Date Received: 11/18/24 16:05
Sample Depth: 0.25

Lab Sample ID: 880-51210-2

Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*11/19/24 08:56*	*11/19/24 18:39*	*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			11/19/24 18:39	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			11/19/24 17:20	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		11/18/24 15:17	11/19/24 17:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/18/24 15:17	11/19/24 17:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/18/24 15:17	11/19/24 17:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*11/18/24 15:17*	*11/19/24 17:20*	*1*
o-Terphenyl	*80*		*70 - 130*	*11/18/24 15:17*	*11/19/24 17:20*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**64.1**		10.0		mg/Kg			11/19/24 21:06	1

Surrogate Summary

Client: Ensolum
Project/Site: Brinninstool Unit 3H

Job ID: 880-51210-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)											
		BFB1	DFBZ1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
880-51210-1	CS-1 (Caliche backfill)	119	97										
880-51210-2	CS-2 (Topsoil backfill)	116	95										
LCS 880-96057/1-A	Lab Control Sample	102	95										
LCSD 880-96057/2-A	Lab Control Sample Dup	105	101										
MB 880-96057/5-A	Method Blank	111	90										

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)											
		1CO1	OTPH1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
880-51210-1	CS-1 (Caliche backfill)	89	71										
880-51210-2	CS-2 (Topsoil backfill)	102	80										
LCS 880-96013/2-A	Lab Control Sample	93	85										
LCSD 880-96013/3-A	Lab Control Sample Dup	93	84										
MB 880-96013/1-A	Method Blank	166 S1+	132 S1+										

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Brinninstool Unit 3H

Job ID: 880-51210-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-96057/5-A
Matrix: Solid
Analysis Batch: 96051

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 96057

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/19/24 08:56	11/19/24 11:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/19/24 08:56	11/19/24 11:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/19/24 08:56	11/19/24 11:26	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/19/24 08:56	11/19/24 11:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/19/24 08:56	11/19/24 11:26	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/19/24 08:56	11/19/24 11:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*11/19/24 08:56*	*11/19/24 11:26*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*11/19/24 08:56*	*11/19/24 11:26*	*1*

Lab Sample ID: LCS 880-96057/1-A
Matrix: Solid
Analysis Batch: 96051

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 96057

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1185		mg/Kg		119	70 - 130		
Toluene			0.100	0.1133		mg/Kg		113	70 - 130		
Ethylbenzene			0.100	0.1111		mg/Kg		111	70 - 130		
m-Xylene & p-Xylene			0.200	0.2266		mg/Kg		113	70 - 130		
o-Xylene			0.100	0.1217		mg/Kg		122	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: LCSD 880-96057/2-A
Matrix: Solid
Analysis Batch: 96051

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 96057

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1220		mg/Kg		122	70 - 130	3	35
Toluene			0.100	0.1141		mg/Kg		114	70 - 130	1	35
Ethylbenzene			0.100	0.1211		mg/Kg		121	70 - 130	9	35
m-Xylene & p-Xylene			0.200	0.2336		mg/Kg		117	70 - 130	3	35
o-Xylene			0.100	0.1201		mg/Kg		120	70 - 130	1	35

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

QC Sample Results

Client: Ensolum
Project/Site: Brinninstool Unit 3H

Job ID: 880-51210-1
SDG: Lea County, NM

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

Lab Sample ID: MB 880-96013/1-A
Matrix: Solid
Analysis Batch: 96065

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 96013

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		11/18/24 15:17	11/19/24 07:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/18/24 15:17	11/19/24 07:11	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/18/24 15:17	11/19/24 07:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*166*	*S1+*	*70 - 130*	*11/18/24 15:17*	*11/19/24 07:11*	*1*
o-Terphenyl	*132*	*S1+*	*70 - 130*	*11/18/24 15:17*	*11/19/24 07:11*	*1*

Lab Sample ID: LCS 880-96013/2-A
Matrix: Solid
Analysis Batch: 96065

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 96013

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	987.4		mg/Kg		99	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	790.7		mg/Kg		79	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*93*		*70 - 130*
o-Terphenyl	*85*		*70 - 130*

Lab Sample ID: LCSD 880-96013/3-A
Matrix: Solid
Analysis Batch: 96065

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 96013

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	988.8		mg/Kg		99	70 - 130	0	20
Diesel Range Organics (Over C10-C28)			1000	781.2		mg/Kg		78	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*93*		*70 - 130*
o-Terphenyl	*84*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-96074/1-A
Matrix: Solid
Analysis Batch: 96095

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			11/19/24 19:12	1

QC Sample Results

Client: Ensolum
Project/Site: Brinninstool Unit 3H

Job ID: 880-51210-1
SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-96074/2-A
Matrix: Solid
Analysis Batch: 96095

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	256.0		mg/Kg		102	90 - 110

Lab Sample ID: LCSD 880-96074/3-A
Matrix: Solid
Analysis Batch: 96095

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	255.7		mg/Kg		102	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: Brinninstool Unit 3H

Job ID: 880-51210-1
SDG: Lea County, NM

GC VOA

Analysis Batch: 96051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51210-1	CS-1 (Caliche backfill)	Total/NA	Solid	8021B	96057
880-51210-2	CS-2 (Topsoil backfill)	Total/NA	Solid	8021B	96057
MB 880-96057/5-A	Method Blank	Total/NA	Solid	8021B	96057
LCS 880-96057/1-A	Lab Control Sample	Total/NA	Solid	8021B	96057
LCSD 880-96057/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	96057

Prep Batch: 96057

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51210-1	CS-1 (Caliche backfill)	Total/NA	Solid	5035	
880-51210-2	CS-2 (Topsoil backfill)	Total/NA	Solid	5035	
MB 880-96057/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-96057/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-96057/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 96196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51210-1	CS-1 (Caliche backfill)	Total/NA	Solid	Total BTEX	
880-51210-2	CS-2 (Topsoil backfill)	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 96013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51210-1	CS-1 (Caliche backfill)	Total/NA	Solid	8015NM Prep	
880-51210-2	CS-2 (Topsoil backfill)	Total/NA	Solid	8015NM Prep	
MB 880-96013/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-96013/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-96013/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 96065

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51210-1	CS-1 (Caliche backfill)	Total/NA	Solid	8015B NM	96013
880-51210-2	CS-2 (Topsoil backfill)	Total/NA	Solid	8015B NM	96013
MB 880-96013/1-A	Method Blank	Total/NA	Solid	8015B NM	96013
LCS 880-96013/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	96013
LCSD 880-96013/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	96013

Analysis Batch: 96177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51210-1	CS-1 (Caliche backfill)	Total/NA	Solid	8015 NM	
880-51210-2	CS-2 (Topsoil backfill)	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 96074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51210-1	CS-1 (Caliche backfill)	Soluble	Solid	DI Leach	
880-51210-2	CS-2 (Topsoil backfill)	Soluble	Solid	DI Leach	
MB 880-96074/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-96074/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-96074/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

QC Association Summary

Client: Ensolum
Project/Site: Brinninstool Unit 3H

Job ID: 880-51210-1
SDG: Lea County, NM

HPLC/IC

Analysis Batch: 96095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51210-1	CS-1 (Caliche backfill)	Soluble	Solid	300.0	96074
880-51210-2	CS-2 (Topsoil backfill)	Soluble	Solid	300.0	96074
MB 880-96074/1-A	Method Blank	Soluble	Solid	300.0	96074
LCS 880-96074/2-A	Lab Control Sample	Soluble	Solid	300.0	96074
LCSD 880-96074/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	96074

Lab Chronicle

Client: Ensolum
Project/Site: Brinninstool Unit 3H

Job ID: 880-51210-1
SDG: Lea County, NM

Client Sample ID: CS-1 (Caliche backfill)

Lab Sample ID: 880-51210-1
Date Collected: 11/18/24 11:35
Matrix: Solid
Date Received: 11/18/24 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			96057	MNR	EET MID	11/19/24 08:56
Total/NA	Analysis	8021B		1	96051	MNR	EET MID	11/19/24 18:18
Total/NA	Analysis	Total BTEX		1	96196	SM	EET MID	11/19/24 18:18
Total/NA	Analysis	8015 NM		1	96177	SM	EET MID	11/19/24 17:04
Total/NA	Prep	8015NM Prep			96013	EL	EET MID	11/18/24 15:17
Total/NA	Analysis	8015B NM		1	96065	TKC	EET MID	11/19/24 17:04
Soluble	Leach	DI Leach			96074	SA	EET MID	11/19/24 09:43
Soluble	Analysis	300.0		1	96095	CH	EET MID	11/19/24 20:58

Client Sample ID: CS-2 (Topsoil backfill)

Lab Sample ID: 880-51210-2
Date Collected: 11/18/24 11:37
Matrix: Solid
Date Received: 11/18/24 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			96057	MNR	EET MID	11/19/24 08:56
Total/NA	Analysis	8021B		1	96051	MNR	EET MID	11/19/24 18:39
Total/NA	Analysis	Total BTEX		1	96196	SM	EET MID	11/19/24 18:39
Total/NA	Analysis	8015 NM		1	96177	SM	EET MID	11/19/24 17:20
Total/NA	Prep	8015NM Prep			96013	EL	EET MID	11/18/24 15:17
Total/NA	Analysis	8015B NM		1	96065	TKC	EET MID	11/19/24 17:20
Soluble	Leach	DI Leach			96074	SA	EET MID	11/19/24 09:43
Soluble	Analysis	300.0		1	96095	CH	EET MID	11/19/24 21:06

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Brinninstool Unit 3H

Job ID: 880-51210-1
SDG: Lea County, NM

Laboratory: Eurofins Midland

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

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

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: Brinninstool Unit 3H

Job ID: 880-51210-1
SDG: Lea County, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	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: Brinninstool Unit 3H

Job ID: 880-51210-1
SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-51210-1	CS-1 (Caliche backfill)	Solid	11/18/24 11:35	11/18/24 16:05	0.25
880-51210-2	CS-2 (Topsoil backfill)	Solid	11/18/24 11:37	11/18/24 16:05	0.25

eurofins | Environ Xenco

880-51210 Chain of Custody

# of Custody

-4200, Dallas, TX (214) 902-0300
40, San Antonio, TX (210) 509-3334
[illegible]-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: 20

www.xenco.com Page 1 of 1

Project Manager:	03D2024197 (Hadlie Green)	Bill to: (if different)	Hadlie Green
Company Name:	Ensolum, LLC	Company Name:	Ensolum, LLC
Address:	601 N Marienfield	Address:	
City, State ZIP:	Midland, Texas, 79701	City, State ZIP:	
Phone:	432-557-8895	Email:	hgreen@ensolum.com

Work Order Comments

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

Project Name:	Brinninstool Unit 3H	Turn Around	
Project Number:	03D2024197	☒Routine ☐Rush	
Project Location:	Lea County NM	Due Date:	
Sampler's Name:	Udeh Azuka	TAT starts the day received by the lab, if received by 4:30pm	
PO #:	03D2024197		

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	IR6
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-.1
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	3.3
Total Containers:		Corrected Temperature:	3.2

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: BTEX 8021	TPH 8015	Chloride 300
CS-1 (caliche backfill)	S	11/18/24	1135	0:25	C	1		x	x	x
CS-2 (Topsoil backfill)	S	11/18/24	1137	0:25	C	1		x	x	x

Preservative Codes

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

Sample Comments

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

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 11/18/24		11/18/24 1605	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-51210-1
SDG Number: Lea County, NM

Login Number: 51210
List Number: 1
Creator: Vasquez, Julisa

List Source: Eurofins Midland

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	

Sante Fe Main Office
Phone: (505) 476-3441

General Information
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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 417949

QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 417949
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2315635182**
Incident Name	**NAPP2315635182 BRINNINSTOOL UNIT 003H @ 30-025-41371**
Incident Type	**Produced Water Release**
Incident Status	**Reclamation Report Received**
Incident Well	**[30-025-41371] BRINNINSTOOL UNIT #003H**
Incident Facility	**[fAPP2203246737] BRINNINSTOOL UNIT 3H BATTERY**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	BRINNINSTOOL UNIT 003H
Date Release Discovered	05/29/2023
Surface Owner	Private

Incident Details	
Please answer all the questions in this group.	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	*Not answered.*
Produced Water Released (bbls) Details	*Not answered.*
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	Cause: | | Other (Specify) | Released: 0 (Unknown Released Amount) | Recovered: 0 | Lost: 0 .
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 (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 417949
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	**More info needed to determine if 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	*Unavailable.*
Reasons why this would be considered a submission for a notification of a major release	*Unavailable.*
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	NA
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: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 01/07/2025

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QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 417949
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	None
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	3890
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	262
GRO+DRO (EPA SW-846 Method 8015M)	155
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
On what estimated date will the remediation commence	06/21/2023
On what date will (or did) the final sampling or liner inspection occur	07/07/2023
On what date will (or was) the remediation complete(d)	07/07/2023
What is the estimated surface area (in square feet) that will be reclaimed	1405
What is the estimated volume (in cubic yards) that will be reclaimed	120
What is the estimated surface area (in square feet) that will be remediated	1405
What is the estimated volume (in cubic yards) that will be remediated	120
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 417949
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for **off-site** disposal	BRINNINSTOOL UNIT 3H BATTERY [fAPP2203246737]
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)	No
(In Situ) Soil Vapor Extraction	*Not answered.*
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	*Not answered.*
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	*Not answered.*
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	*Not answered.*
Ground Water Abatement pursuant to 19.15.30 NMAC	*Not answered.*
OTHER (Non-listed remedial process)	*Not answered.*
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 01/07/2025
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 417949
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

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 (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 417949
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**417964**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**07/07/2023**
What was the (estimated) number of samples that were to be gathered	**5**
What was the sampling surface area in square feet	**3**

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	1405
What was the total volume (cubic yards) remediated	120
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	1405
What was the total volume (in cubic yards) reclaimed	120
Summarize any additional remediation activities not included by answers (above)	excavation of impacted and waste-containing soil

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: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 01/07/2025

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QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 417949
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	1405
What was the total volume of replacement material (in cubic yards) for this site	120
Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeding commence(d)	10/23/2024
Summarize any additional reclamation activities not included by answers (above)	Reseeded entire release and excavation area to promote vegetation growth
The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeding plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 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: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 01/07/2025

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QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 417949
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Revegetation Report	
Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.	
Requesting a restoration complete approval with this submission	No
Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.	

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CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 417949
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By	Condition	Condition Date
jburdine	The reclamation report has been approved pursuant to 19.15.29.13 E. NMAC. The acceptance of this 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; or if the location fails to revegetate properly. In addition, the OCD approval does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.	3/31/2025