E N S O L U M

February 20, 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: Closure Request PLU 18 Brushy Draw TB Incident Number NAPP2334060921 Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared this *Closure Request* to document assessment, excavation, and soil sampling activities performed at the PLU 18 Brushy Draw Tank Battery (TB; Site). The purpose of the Site assessment, excavation, and soil sampling activities was to address waste-containing soil following a release of produced water at the Site. Based on excavation activities and soil sample laboratory analytical results, XTO is submitting this *Closure Request*, describing remediation that has occurred and requesting no further remediation for Incident Number NAPP2334060921. Reclamation and revegetation activities will be completed during pad abandonment.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit E, Section 18, Township 25 South, Range 30 East, in Eddy County, New Mexico (32.13277°, -103.92829°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On November 22, 2023, a pump malfunction caused a coupling to strike a pressure gauge, resulting in the release of approximately 8.30 barrels (bbls) of produced water into a lined containment and onto the surface of the facility pad. A vacuum truck was immediately dispatched to recover free-standing fluids; approximately 4.0 bbls of released fluids were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on December 6, 2023. The release was assigned Incident Number NAPP2334060921.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

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. Depth to groundwater data is based on a soil boring permitted by the New Mexico Office of the State Engineer (NMOSE) located approximately 119 feet north of the Site. The soil boring, permit number C-04529, was drilled to assess depth to groundwater on May 14, 2021. The boring was drilled to a total depth of 101 feet bgs and allowed to equilibrate for at

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least 72 hours to allow for slow infill of water to enter the well if present. Groundwater was not detected during drilling or after the 72-hour waiting period and was subsequently backfilled per the NMOSE permit. The Well Record and Log is included in Appendix A. All wells used to determine depth to groundwater are depicted on Figure 1.

The closest continuously flowing or significant watercourse to the Site is a freshwater emergent wetland, located approximately 3,611 feet north of the Site. The Site is greater than 200 feet from any lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet from any 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). Potential Site receptors are identified on Figure 1.

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

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

SITE ASSESSMENT AND DELINEATION ACTIVITIES

On January 5, 2024, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. The release extent was mapped utilizing a handheld Global Positioning System (GPS) unit and is depicted on Figure 2. Photographic documentation was conducted during the Site assessment and is included in a Photographic Log in Appendix B. Based on visible staining within the release area, delineation and excavation activities appeared to be warranted.

A 48-hour advance notice of liner inspection (C-141L) was submitted to the NMOCD. A liner integrity inspection was conducted on January 17, 2024. No liner breach was identified and the liner appeared to be operating as designed. Photographic documentation was conducted during the inspection and is included in Appendix B.

Four potholes (PH01 through PH04) were advanced within the release extent by use of heavy equipment to assess the vertical extent of the release. Discrete delineation soil samples were collected from each pothole at depths ranging from 0.5 feet to 2 feet bgs. The delineation soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach[®] chloride QuanTab[®] test strips. The delineation soil sample locations are depicted on Figure 2. Field screening results and observations for the potholes were logged on lithologic/soil sampling logs, which are included in Appendix C.

The delineation 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 constituents of concern (COCs): BTEX following United States



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Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0. Soil samples delivered to the laboratory the same day they are collected may not have equilibrated to the 6 degrees Celsius required for shipment and long term storage but are considered to have been received in acceptable condition by the laboratory.

EXCAVATION SOIL SAMPLING ACTIVITIES

While impacted soil related to the November 2023 release was not identified at the Site, waste-containg soil was and in accessible areas. As such, waste-containing soil was excavated from the release area as indicated by field screening concentrations from delineation soil samples collected in potholes PH01 through PH04. Excavation activities were performed utilizing a track hoe and transport vehicles. The entirety of the excavation occurred on the well pad. To direct excavation activities, soil was screened for VOCs and chloride.

Following removal of waste-containing soil, 5-point composite soil samples were collected every 200 square feet from the floor and sidewalls of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Confirmation soil samples FS01 through FS19 were collected from the floor of the excavation at depths ranging from 1-foot to 2 feet bgs. Confirmation soil samples SW01 through SW05 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 2 feet bgs. The excavation confirmation soil samples were handled and analyzed following the same procedures as described above. The excavation extent and excavation confirmation soil sample locations are presented on Figure 3. Photographic documentation of the excavation is included in Appendix B.

The final excavation extent measured approximately 3,345 square feet. A total of approximately 190 cubic yards of waste-containing soil was removed during the excavation activities. The waste-containing soil was transported and properly disposed of at R360 Landfill Disposal Facility in Hobbs, New Mexico.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for all delineation and confirmation soil samples indicated all COC concentrations were compliant with the Closure Criteria. Laboratory analytical results for delineation soil samples PH01 through PH04, collected at 0.5 feet bgs, indicated chloride concentrations exceeded the reclamation requirement and as such, waste-containing soil was removed during excavation activities. No impacted or waste-containing soil remains in place at the Site. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included in Appendix D.

CLOSURE REQUEST

Site assessment, delineation, and excavation activities were conducted at the Site to address the November 2023 release of produced water. Laboratory analytical results for excavation soil samples collected from the final excavation extent indicated all COC concentrations were compliant with the Site Closure Criteria and reclamation requirement. Based on laboratory analytical results, no further remediation is required. The release is vertically defined by confirmation floor soil samples FS01 through FS19 and laterally defined by confirmation sidewall soil samples SW01 through SW05. No additional excavation will be needed at the time of pad abandonment or major facility reconstruction as a result of this release. Following pad abandonment or major facility reconstruction, the work area will be reseeded with the recommended BLM seed mixture. On January 18, 2024, XTO backfilled the northern half of the excavation because the area was subject to high traffic. The caliche material used for the backfill was



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purchased locally and the area recontoured to match pre-existing Site conditions. Photographic documentation of the backfill is included in Appendix B. The remainder of the excavation is scheduled to be backfilled the week of February 19, 2024.

Excavation of soil has mitigated adverse conditions at this Site. The release has been vertically and laterally defined. The lined containment was inspected and appears to be operating as designed. Depth to groundwater is confirmed to be greater than 100 feet bgs and no other sensitive receptors were identified near the release extent. XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests no further remediation for Incident Number NAPP2334060921.

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

Sincerely, Ensolum, LLC

Mariaha O'Dell

Mariaha O'Dell Staff Geologist

Daniel Moir, P.G. Senior Managing Geologist

cc: Garrett Green, XTO Tommee Lambert, XTO Bureau of Land Management

Appendices:

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





FIGURES

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Environmental, Engineering and Hydrogeologic Consultants

XTO Energy, Inc PLU 18 Brushy Draw TB Incident Number: NAPP2334060921 Unit E, Sec 18, T25S, R30E Eddy County, New Mexico

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TABLES

E N S O L U M

TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS PLU 18 Brushy Draw TB XTO Energy, Inc Eddy County, New Mexico

	1									
Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I C	losure Criteria (NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
				Deli	neation Soil Sa	mples				
PH01	01/17/2024	0.5	<0.00200	<0.00399	<50.1	<50.1	<50.1	<50.1	<50.1	2,760
PH01A	01/17/2024	2	<0.00200	<0.00400	<50.1	<50.1	<50.1	<50.1	<50.1	32.3
PH02	01/17/2024	0.5	<0.00199	<0.00398	<50.4	<50.4	<50.4	<50.4	<50.4	3,750
PH02A	01/17/2024	2	<0.00200	< 0.00399	56.3	56.3	56.3	56.3	56.3	73.6
PH03	01/17/2024	0.5	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	988
PH03A	01/17/2024	1	<0.00200	<0.00401	<49.7	<49.7	<49.7	<49.7	<49.7	50.0
PH04	01/17/2024	0.5	<0.00200	<0.00399	<49.6	<49.6	<49.6	<49.6	<49.6	1,380
PH04A	01/17/2024	1	<0.00201	<0.00402	<50.2	<50.2	<50.2	<50.2	<50.2	45.8
				Conf	irmation Soil Sa	amples				
FS01	01/17/2024	1	<0.00200	<0.00401	<50.4	<50.4	<50.4	<50.4	<50.4	90.3
FS02	01/17/2024	1	<0.00202	<0.00403	<50.5	<50.5	<50.5	<50.5	<50.5	218
FS03	01/17/2024	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	85.9
FS04	01/17/2024	1	<0.00198	<0.00397	<49.6	<49.6	<49.6	<49.6	<49.6	37.8
FS05	01/17/2024	1	<0.00199	<0.00398	<49.6	<49.6	<49.6	<49.6	<49.6	86.0
FS06	01/17/2024	1	<0.00200	< 0.00399	<50.3	<50.3	<50.3	<50.3	<50.3	48.4
FS07	01/17/2024	1	<0.00201	<0.00402	<50.1	<50.1	<50.1	<50.1	<50.1	69.8
FS08	01/18/2024	1	<0.00201	<0.00402	<49.6	<49.6	<49.6	<49.6	<49.6	78.8
FS09	01/18/2024	1	<0.00199	<0.00398	<49.7	<49.7	<49.7	<49.7	<49.7	23.4
FS10	01/18/2024	2	<0.00199	<0.00398	<49.5	<49.5	<49.5	<49.5	<49.5	57.9
FS11	01/18/2024	2	<0.00200	< 0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	35.5
FS12	01/18/2024	2	<0.00201	<0.00402	<49.6	<49.6	<49.6	<49.6	<49.6	245
FS13	01/18/2024	2	<0.00200	<0.00401	<50.2	<50.2	<50.2	<50.2	<50.2	379
FS14	01/18/2024	2	<0.00199	<0.00398	<49.7	<49.7	<49.7	<49.7	<49.7	122
FS15	01/18/2024	2	<0.00200	<0.00399	<49.7	<49.7	<49.7	<49.7	<49.7	11.1
FS16	01/18/2024	2	<0.00201	<0.00402	<49.7	<49.7	<49.7	<49.7	<49.7	8.30
FS17	01/18/2024	2	<0.00200	<0.00401	<50.4	<50.4	<50.4	<50.4	<50.4	14.6
FS18	01/18/2024	2	<0.00199	<0.00398	<50.5	<50.5	<50.5	<50.5	<50.5	<5.02
FS19	01/18/2024	2	<0.00199	<0.00398	<50.4	<50.4	<50.4	<50.4	<50.4	8.12
SW01	01/17/2024	0 - 1	<0.00200	<0.00401	<50.5	<50.5	<50.5	<50.5	<50.5	78.5
SW02	01/17/2024	0 - 1	<0.00201	<0.00402	<49.5	<49.5	<49.5	<49.5	<49.5	22.7
SW03	01/18/2024	0 - 2	<0.00199	<0.00398	<50.5	<50.5	<50.5	<50.5	<50.5	28.4

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TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS PLU 18 Brushy Draw TB XTO Energy, Inc Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)		10	50	NE	NE	NE	1,000	2,500	20,000	
SW04	01/18/2024	0 - 2	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	141
SW05	01/18/2024	0 - 2	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	441

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in $\operatorname{\boldsymbol{bold}}$ exceed the NMOCD Table I Closure Criteria

GRO: Gasoline Range Organics DRO: Diesel Range Organics ORO: Oil Range Organics TPH: Total Petroleum Hydrocarbon NMAC: New Mexico Administrative Code

Grey text indicates soil sample removed during excavation activities



APPENDIX A

Referenced Well Records



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

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RM	DRILLING M	IETHOD:	THOD: ROTARY HAMMER CABLE TOOL COTHER - SPECIFY: Hollow Stem Auger										
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	54	59	5		graded, very- fine grained			wn, dr	Y	√N	
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APPENDIX B

Photographic Log







APPENDIX C

Lithologic Soil Sampling Logs

ENSOLUM Site Name: PLU 18 Brushy Draw TB Incident Number: NAPP2334060921 Job Number: 03C1558301	s raded, very	
Job Number: 03C1558301 LITHOLOGIC / SOIL SAMPLING LOG Logged By: M. O'Dell Method: Coordinates: 32.132476, -103.928340 Hole Diameter: 2.5' Total Dep Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloperformed with 1:4 dilution factor of soil to distilled water. All chloride screenings include a +40% correction factor. Mathematication of soil to distilled water. All chloride screenings include a +40% correction factor. Mathematication of soil to distilled water. All chloride screenings include a +40% correction factor. Mathematication of soil to distilled water. All chloride screenings include a +40% correction factor. Mathematication of soil to distilled water. All chloride screenings include a +40% correction factor. Mathematication of soil to distilled water. All chloride screenings include a +40% correction factor. Mathematication of soil to distilled water. All chloride screenings include a +40% correction factor. Mathematication of soil to distilled water. All chloride screenings include a +40% correction factor. Mathematication of soil to distilled water. All chloride screenings include a +40% correction factor. Mathematication of soil to distilled water. All chloride screenings include a +40% correction factor. <th cols<="" td=""><td>pth: 2' pride test S raded, very</td></th>	<td>pth: 2' pride test S raded, very</td>	pth: 2' pride test S raded, very
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performed with 1:4 dilution factor of soil to distilled water. All chloride screenings include a +40% correction factor.	s raded, verv	
an triangle Depth	raded, verv	
D6,6700.0YPH010.5CCHE (fill)Caliche/Sand mixture. Brown, well gr fine to fine grained, dry, fill.D1,7080.0N11SWSand. Brown, very fine to fine grained graded, dryD<168	raded, verv	
D6,6700.0YPH010.5CCHE (fill)Caliche/Sand mixture. Brown, well gr fine to fine grained, dry, fill.D1,7080.0N11SWSand. Brown, very fine to fine grained graded, dryD<168	raded, verv	
D6,6700.0YPH010.5CCHE (fill)Caliche/Sand mixture. Brown, well gr fine to fine grained, dry, fill.D1,7080.0N11SWSand. Brown, very fine to fine grained graded, dryD<168		
D6,6700.0YPH010.5CCHE (fill)Caliche/Sand mixture. Brown, well gr fine to fine grained, dry, fill.D1,7080.0N11SWSand. Brown, very fine to fine grained graded, dryD<168		
D 6,670 0.0 Y PH01 0.5 Image: Second secon	d, well	
D 1,708 0.0 N 1 1 SW Sand. Brown, very fine to fine graine graded, dry D <168	d, well	
D <168 0.0 N PH01A 2 2 2	d, well	
D <168 0.0 N PH01A 2 2 2		
	\sim	

	_						Sample Name: PH02	Date: 01/17/2024		
	E	N		ΟΙ		Μ	Site Name: PLU 18 Brushy Draw			
 		0.01					Job Number: 03C1558301			
			-	SAMPLING	i LOG		Logged By: M. O'Dell	Method: Trackhoe		
Coordinates: 3				the lungue of		Hole Diameter: 2.5'	Total Depth: 2'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. All chloride screenings include a +40% correction factor.										
Moisture Content Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic D			
D 4,833	0.0	N	PH02	0.5	0 	CCHE (fill)	Caliche/Sand mixture. Bro fine to fine grained, dry,	own, well graded, very fill.		
D 3,450	0.0	N		1 _	1	SW	Sand. Brown, very fine to graded, dry	fine grained, well		
D 201.6	0.0	N	PH02A	2	2					

							Sample Name: PH03	Date: 01/17/2024			
							Site Name: PLU 18 Brushy Dra				
				ΟΙ			Incident Number: NAPP2334060921				
							Job Number: 03C1558301				
	LITHOL	OGI		SAMPLING	G LOG		Logged By: M. O'Dell Method: Trackhoe				
Coordinates: 32.132865, -103.928335							Hole Diameter: 2.5'	Total Depth: 1'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. All chloride screenings include a +40% correction factor.											
performed wit	h 1:4 dilu	tion f	actor of so	il to distilled	water. All c	hloride sc	reenings include a +40% corre	ction factor.			
Moisture Content Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Descriptions			
D 2,996	0.0	N	PH03	0.5	<u> </u> 0 -	CCHE (fill)	Caliche/Sand mixture. B fine to fine grained, dry	Brown, well graded, very /, fill.			
D <168	0.0	Ν	PH03A	1	1	SW	Sand. Brown, very fine t graded, dry	to fine grained, well			
					TD	@ 1' bg	IS.				

								D : 01/17/2024			
							Sample Name: PH04	Date: 01/17/2024			
	E	N	S	ΟΙ		Μ	Site Name: PLU 18 Brushy Draw TE Incident Number: NAPP233406092				
		_		-		-	Job Number: 03C1558301				
		0.01		SAMPLING				Method: Trackhoe			
Coordinator			-	SAIVIPLINC			Logged By: M. O'Dell Hole Diameter: 2.5'	Total Depth: 1'			
Coordinates: 32.133109, -103.928345Hole Diameter: 2.5'Total Depth: 1'Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test								•			
performed with 1:4 dilution factor of soil to distilled water. All chloride screenings include a +40% correction factor.											
Moisture Content Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Des				
D 1,708	0.0	N	PH04	۱ 0.5	<u> </u> 0 -	CCHE (fill)	Caliche/Sand mixture. Brow fine to fine grained, dry, fill.	n, well graded, verv			
D <168	0.0	N	PH04A	1	1	SW	Sand. Brown, very fine to fir graded, dry	e grained, well			
					TU	@ 1' bg	I !S.				



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation

Received by OCD: 2/20/2024 3:46:53 PM



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701 Generated 1/31/2024 1:34:38 PM

JOB DESCRIPTION

PLU 18 Brushy Draw TB 03C1558301

JOB NUMBER

890-5982-1

RT OR Belill Jum J St. 400 701

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

See page two for job notes and contact information

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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

AMER

Generated 1/31/2024 1:34:38 PM

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

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

Laboratory Job ID: 890-5982-1 SDG: 03C1558301

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QC Sample Results	23
QC Association Summary	33
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Sample Summary	47
Chain of Custody	48
Receipt Checklists	50

Indicates the analyte was analyzed for but not detected.

U 18 Brushy Draw TB SDG: 03C1558301	2
	3
Qualifier Description	4
LCS and/or LCSD is outside acceptance limits, high biased.	
MS and/or MSD recovery exceeds control limits.	5
Surrogate recovery exceeds control limits, low biased.	
Surrogate recovery exceeds control limits, high biased.	6
Indicates the analyte was analyzed for but not detected.	-
Qualifier Description	
LCS/LCSD RPD exceeds control limits.	8
Surrogate recovery exceeds control limits, low biased.	
Indicates the analyte was analyzed for but not detected.	9
Qualifier Description	10

HPLC/IC Qualifier

Qualifiers GC VOA Qualifier

GC Semi VOA Qualifier

*+

F1

S1-

S1+

U

*1

S1-

U

U

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

Job ID: 890-5982-1

Case Narrative

Client: Ensolum Project: PLU 18 Brushy Draw TB Job ID: 890-5982-1

Job ID: 890-5982-1

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Job Narrative 890-5982-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant

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

quality control (QC) is further explained in narrative comments.

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

Receipt

The samples were received on 1/17/2024 4:35 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 2.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: PH01 (890-5982-1), PH01A (890-5982-2), PH02 (890-5982-3), PH02A (890-5982-4), PH03 (890-5982-5), PH03A (890-5982-6), PH04 (890-5982-7), PH04A (890-5982-8), FS01 (890-5982-9), FS02 (890-5982-10), FS03 (890-5982-11), FS04 (890-5982-12), FS05 (890-5982-13), FS06 (890-5982-14), FS07 (890-5982-15), SW01 (890-5982-16) and SW02 (890-5982-17).

GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-71764 recovered under the lower control limit for Benzene and o-Xylene. The samples associated with this CCV were ran within 12 hours of passing CCV; therefore, the data have been reported.

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-71343 and analytical batch 880-71764 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-71764 recovered above the upper control limit for 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 880-71764/51).

Method 8021B: The matrix spike (MS) and/or matrix spike duplicate (MSD) recovery for preparation batch 880-71633 and analytical batch 880-71772 was outside control limits for the following analyte(s): Benzene, Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. Results may be biased high because this analyte is a common laboratory solvent and contaminant.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (890-5988-A-1-G), (890-5988-A-1-E MS) and (890-5988-A-1-F MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-71633 and analytical batch 880-71772 was outside the control limits.

Method 8021B: The laboratory control sample duplicate (LCSD) for preparation batch 880-71633 and analytical batch 880-71772 recovered outside control limits for the following analytes: m-Xylene & p-Xylene. Since only an acceptable LCS is required per the method, the data has been qualified and reported.

Method 8021B: Surrogate recovery for the following sample was outside control limits: FS03 (890-5982-11). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

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was outside the control limits.

Job ID: 890-5982-1

Client: Ensolum Project: PLU 18 Brushy Draw TB

Job ID: 890-5982-1 (Continued)

Eurofins Carlsbad Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-71537 and analytical batch 880-71915

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-71537 and analytical batch 880-71915 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample duplicate (LCSD) recovery was within acceptance limits.

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-71692 and analytical batch 880-72000 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

Method 8015MOD NM: Surrogate recovery for the following sample was outside control limits: FS03 (890-5982-11). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-71251 and analytical batch 880-71655 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28).

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

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

HPLC/IC

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

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RL

0.00200

0.00200

0.00200

0.00399

0.00200

0.00399

Limits

70 - 130

70 - 130

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

D

Prepared

01/22/24 14:55

01/22/24 14:55

01/22/24 14:55

01/22/24 14:55

01/22/24 14:55

01/22/24 14:55

Prepared

01/22/24 14:55

01/22/24 14:55

Job ID: 890-5982-1 SDG: 03C1558301

Client Sample ID: PH01

Date Collected: 01/17/24 09:30 Date Received: 01/17/24 16:35

Sample Depth: 0.5'

Client: Ensolum

Analyte

Benzene

Toluene

Xylenes, Total

Surrogate

Lab Sample ID: 890-5982-1

Analyzed

01/29/24 12:17

01/29/24 12:17

01/29/24 12:17

01/29/24 12:17

01/29/24 12.17

01/29/24 12:17

Analyzed

01/29/24 12:17

01/29/24 12:17

Matrix: Solid

00001	
982-1 Solid	
oonu	4
	5
Dil Fac 1	6
1	7
1 1	8
Dil Fac	9
1 1	10
Dil Fac	11
1	12
Dil Fac	13

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00399	U	0.00399	mg/Kg			01/29/24 12:17	
- Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)					
Analyte	• •	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<50.1	U	50.1	mg/Kg			01/26/24 19:59	
- Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1	mg/Kg		01/19/24 17:02	01/26/24 19:59	
Diesel Range Organics (Over C10-C28)	<50.1	U *1	50.1	mg/Kg		01/19/24 17:02	01/26/24 19:59	
Oll Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		01/19/24 17:02	01/26/24 19:59	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	86		70 - 130			01/19/24 17:02	01/26/24 19:59	
o-Terphenyl	103		70 - 130			01/19/24 17:02	01/26/24 19:59	
Method: EPA 300.0 - Anions, Ion	Chromatograp	ohy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	2760		24.8	mg/Kg			01/22/24 20:32	
Client Sample ID: PH01A						Lab Sar	nple ID: 890-	5982-
Date Collected: 01/17/24 09:40							Matri	x: Soli
Date Received: 01/17/24 16:35								
Sample Depth: 2'								
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/22/24 14:55	01/29/24 12:38	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/22/24 14:55	01/29/24 12:38	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/22/24 14:55	01/29/24 12:38	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/22/24 14:55	01/29/24 12:38	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/22/24 14:55	01/29/24 12:38	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/22/24 14:55	01/29/24 12:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130			01/22/24 14:55	01/29/24 12:38	1

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Ethylbenzene m-Xylene & p-Xylene o-Xylene

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

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

Method: TAL SOP Total BTEX - Total BTEX Calculation

Result Qualifier

Qualifier

<0.00200 U

<0.00200 U

<0.00200 U

<0.00399 U

<0.00200 U

<0.00399 U

83

81

%Recovery

Client Sample Results

Limits

70 - 130

RL

RL

50.1

RL

50.1

50.1

0.00400

Unit

Unit

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

Job ID: 890-5982-1 SDG: 03C1558301

Client Sample ID: PH01A

Project/Site: PLU 18 Brushy Draw TB

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

Method: TAL SOP Total BTEX - Total BTEX Calculation

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

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

%Recovery Qualifier

Result Qualifier

Ū

Result Qualifier

Result Qualifier

<50.1 U

<50.1 U

<50.1 U*1

76

< 0.00400

Date Collected: 01/17/24 09:40 Date Received: 01/17/24 16:35

Sample Depth: 2'

1,4-Difluorobenzene (Surr)

Gasoline Range Organics

Diesel Range Organics (Over

Client: Ensolum

Surrogate

Analyte

Analyte

Analyte

C10-C28)

(GRO)-C6-C10

Total TPH

Total BTEX

Lab Sample	ID:	890-5982-2

Analyzed

01/29/24 12:38

Analyzed

01/29/24 12:38

Analyzed

01/26/24 21:05

Analyzed

01/26/24 21:05

01/26/24 21:05

Lab Sample ID: 890-5982-3

Prepared

01/22/24 14:55

Prepared

Prepared

Prepared

01/19/24 17:02

01/19/24 17:02

D

D

D

Matrix: Solid

Dil Fac

Dil Fac

Dil Fac

Dil Fac

Dil Fac

Matrix: Solid

1

1

1

-

Oll Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg	01/19/24 17:02	01/26/24 21:05	
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	I
1-Chlorooctane	94		70 - 130		01/19/24 17:02	01/26/24 21:05	
o-Terphenyl	114		70 - 130		01/19/24 17:02	01/26/24 21:05	
Method: EPA 300.0 - Anions. Ion C	bromatogran	by Soluble					

method. El A 000.0 - Amons, ion o	inomatography - oolabic						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	32.3	5.02	mg/Kg			01/22/24 20:39	1

Client Sample ID: PH02

Date Collected: 01/17/24 09:45 Date Received: 01/17/24 16:35 Sample Depth: 0.5'

Method: SW846 8021B - Volatile Organic Compounds (GC) Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Benzene <0.00199 U 0.00199 mg/Kg 01/25/24 18:00 01/30/24 05:11 Toluene <0.00199 U 0.00199 01/25/24 18:00 01/30/24 05.11 mg/Kg 1 Ethylbenzene <0.00199 U 0.00199 mg/Kg 01/25/24 18:00 01/30/24 05:11 01/30/24 05:11 m-Xylene & p-Xylene <0.00398 U*+ 0.00398 mg/Kg 01/25/24 18:00 1 o-Xylene <0.00199 U 0.00199 mg/Kg 01/25/24 18:00 01/30/24 05:11 Xylenes, Total <0.00398 U*+ 0.00398 mg/Kg 01/25/24 18:00 01/30/24 05:11 1 %Recovery Qualifier Limits Dil Fac Surrogate Prepared Analvzed 70 - 130 81 01/25/24 18:00 4-Bromofluorobenzene (Surr) 01/30/24 05.11 1 1,4-Difluorobenzene (Surr) 78 70 - 130 01/25/24 18:00 01/30/24 05:11 1 Method: TAL SOP Total BTEX - Total BTEX Calculation Analvte Result Qualifier RL D Unit Prepared Analyzed Dil Fac Total BTEX <0.00398 Ū 0.00398 01/30/24 05:11 mg/Kg Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Total TPH <50.4 U 50.4 mg/Kg 01/26/24 21:27 1

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Job ID: 890-5982-1 SDG: 03C1558301

Matrix: Solid

Lab Sample ID: 890-5982-3

01/26/24 21:27

Lab Sample ID: 890-5982-4

01/19/24 17:02

Client Sample ID: PH02

Date Collected: 01/17/24 09:45 Date Received: 01/17/24 16:35

Sample Depth: 0.5'

Client: Ensolum

_ Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)				
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4	mg/Kg		01/19/24 17:02	01/26/24 21:27
Diesel Range Organics (Over C10-C28)	<50.4	U *1	50.4	mg/Kg		01/19/24 17:02	01/26/24 21:27
Oll Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg		01/19/24 17:02	01/26/24 21:27
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed
1-Chlorooctane			70 - 130			01/19/24 17:02	01/26/24 21:27

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

119

Method. El A 300.0 - Amons, ion o	momatograpi	ily - Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3750		25.2	mg/Kg			01/22/24 20:46	5

70 - 130

Client Sample ID: PH02A

Date Collected: 01/17/24 09:55

Sample Depth: 2'

o-Terphenyl

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/29/24 10:00	01/30/24 05:32	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/29/24 10:00	01/30/24 05:32	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/29/24 10:00	01/30/24 05:32	1
m-Xylene & p-Xylene	<0.00399	U *+	0.00399	mg/Kg		01/29/24 10:00	01/30/24 05:32	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/29/24 10:00	01/30/24 05:32	1
Xylenes, Total	<0.00399	U *+	0.00399	mg/Kg		01/29/24 10:00	01/30/24 05:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130			01/29/24 10:00	01/30/24 05:32	1
1,4-Difluorobenzene (Surr)	84		70 - 130			01/29/24 10:00	01/30/24 05:32	1
- Method: TAL SOP Total BTEX	- Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			01/30/24 05:32	1
Method: SW846 8015 NM - Die	sel Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	56.3		50.5	mg/Kg			01/26/24 21:48	

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5	mg/Kg		01/19/24 17:02	01/26/24 21:48	1
Diesel Range Organics (Over C10-C28)	56.3	*1	50.5	mg/Kg		01/19/24 17:02	01/26/24 21:48	1
Oll Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		01/19/24 17:02	01/26/24 21:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130			01/19/24 17:02	01/26/24 21:48	1
o-Terphenyl	117		70 - 130			01/19/24 17:02	01/26/24 21:48	1

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Date Received: 01/17/24 16:35

		Clien	t Sample Re	sults				
Client: Ensolum							Job ID: 890	-5982-1
Project/Site: PLU 18 Brushy Draw 1	В						SDG: 03C1	1558301
Client Sample ID: PH02A						Lab Sar	nple ID: 890-	5982-4
Date Collected: 01/17/24 09:55							-	x: Solid
Date Received: 01/17/24 16:35								
Sample Depth: 2'								
_ Method: EPA 300.0 - Anions, Ion	Chromotogram	why Solubl	•					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	73.6		5.01	mg/Kg			01/22/24 20:53	
- Client Semple ID: DH02						Lob Cor		5002 5
Client Sample ID: PH03						Lap San	nple ID: 890-	
Date Collected: 01/17/24 10:30							Matri	x: Solid
Date Received: 01/17/24 16:35 Sample Depth: 0.5'								
-								
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC))					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00201		0.00201	mg/Kg		01/29/24 10:00	01/30/24 05:52	
Toluene	<0.00201	U	0.00201	mg/Kg		01/29/24 10:00	01/30/24 05:52	
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		01/29/24 10:00	01/30/24 05:52	
m-Xylene & p-Xylene	< 0.00402	U *+	0.00402	mg/Kg		01/29/24 10:00	01/30/24 05:52	
o-Xylene	<0.00201	U	0.00201	mg/Kg		01/29/24 10:00	01/30/24 05:52	
Xylenes, Total	<0.00402	U *+	0.00402	mg/Kg		01/29/24 10:00	01/30/24 05:52	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130			01/29/24 10:00	01/30/24 05:52	
1,4-Difluorobenzene (Surr)	81		70 - 130			01/29/24 10:00	01/30/24 05:52	
_ Method: TAL SOP Total BTEX - T	otal BTEX Cal	sulation						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402		0.00402	mg/Kg			01/30/24 05:52	1
_								
Method: SW846 8015 NM - Diese					_			
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<49.8	U	49.8	mg/Kg			01/26/24 22:11	
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics	<49.8	U	49.8	mg/Kg		01/19/24 17:02	01/26/24 22:11	
(GRO)-C6-C10 Diesel Range Organics (Over	-10.0	11*1	49.8	m~~//~		01/10/24 47:00	01/26/24 22:44	
C10-C28)	<49.8	0 1	49.0	mg/Kg		01/19/24 17:02	01/26/24 22:11	
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		01/19/24 17:02	01/26/24 22:11	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane		qualitiel				01/19/24 17:02	01/26/24 22:11	DIIFa
o-Terphenyl	95		70 - 130 70 - 130			01/19/24 17:02	01/26/24 22:11	
	30		10-100			51/10/27 11.02	5 11 LOI LT 22.11	
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	988		4.98	mg/Kg			01/22/24 21:13	1

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

Result Qualifier

RL

Unit

D

Prepared

Job ID: 890-5982-1 SDG: 03C1558301

Client Sample ID: PH03A

Date Collected: 01/17/24 10:35 Date Received: 01/17/24 16:35

Sample Depth: 1'

Client: Ensolum

Analyte

SDG: 03C1558

Lab Sample ID: 890-5982-6

Analyzed

Matrix: Solid

Analyte	Result	Quaimer	RL	Unit	U	Prepared	Analyzed	Dirrac
Benzene	<0.00200	U	0.00200	mg/Kg		01/29/24 10:00	01/30/24 06:13	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/29/24 10:00	01/30/24 06:13	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/29/24 10:00	01/30/24 06:13	1
m-Xylene & p-Xylene	<0.00401	U *+	0.00401	mg/Kg		01/29/24 10:00	01/30/24 06:13	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/29/24 10:00	01/30/24 06:13	1
Xylenes, Total	<0.00401	U *+	0.00401	mg/Kg		01/29/24 10:00	01/30/24 06:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130			01/29/24 10:00	01/30/24 06:13	1
1,4-Difluorobenzene (Surr)	75		70 - 130			01/29/24 10:00	01/30/24 06:13	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cal	culation						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			01/30/24 06:13	1
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7		49.7	mg/Kg		·	01/26/24 22:34	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		01/19/24 17:02	01/26/24 22:34	1
Diesel Range Organics (Over C10-C28)	<49.7	U *1	49.7	mg/Kg		01/19/24 17:02	01/26/24 22:34	1
Oll Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		01/19/24 17:02	01/26/24 22:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130			01/19/24 17:02	01/26/24 22:34	1
o-Terphenyl	97		70 - 130			01/19/24 17:02	01/26/24 22:34	1
- Method: EPA 300.0 - Anions, Ion	Chromatogra	ohy - Solubl	e					
Analyte	• •	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50.0		4.95	mg/Kg			01/22/24 21:20	1
Client Sample ID: PH04						Lab Sar	nple ID: 890-	5982-7
Date Collected: 01/17/24 10:55							-	ix: Solid
Date Received: 01/17/24 16:35								
Sample Depth: 0.5'								
-								
Method: SW846 8021B - Volatile				11-:4	D	Bronered	Analyzed	
Analyte		Qualifier	RL	Unit		Prepared	Analyzed	Dil Fac
Benzene			0.00200	mg/Kg		01/26/24 11:33	01/31/24 11:56	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/26/24 11:33	01/31/24 11:56	1

4-Bromofluorobenzene (Surr)	85		70 - 130		01/26/24 11:33	01/31/24 11:56	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
Xylenes, Total	<0.00399	U	0.00399	mg/Kg	01/26/24 11:33	01/31/24 11:56	1
o-Xylene	<0.00200	U	0.00200	mg/Kg	01/26/24 11:33	01/31/24 11:56	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg	01/26/24 11:33	01/31/24 11:56	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg	01/26/24 11:33	01/31/24 11:56	1
Toluene	<0.00200	U	0.00200	mg/Kg	01/26/24 11:33	01/31/24 11:56	1
Bolizono	0.00200	0	0.00200	ing/itg	01/20/2111.00	01/01/2111.00	

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Client Sample Results

Job ID: 890-5982-1 SDG: 03C1558301

Matrix: Solid

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Lab Sample ID: 890-5982-7

Client Sample ID: PH04

Date Collected: 01/17/24 10:55 Date Received: 01/17/24 16:35

Sample Depth: 0.5'

Client: Ensolum

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1,4-Difluorobenzene (Surr)	76		70 - 130			01/26/24 11:33	01/31/24 11:56	·
Method: TAL SOP Total BTEX -	Total BTEX Calo	ulation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00399	U	0.00399	mg/Kg			01/31/24 11:56	
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<49.6	U	49.6	mg/Kg			01/26/24 22:57	
Method: SW846 8015B NM - Die	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6	mg/Kg		01/19/24 17:02	01/26/24 22:57	
Diesel Range Organics (Over C10-C28)	<49.6	U *1	49.6	mg/Kg		01/19/24 17:02	01/26/24 22:57	
Oll Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		01/19/24 17:02	01/26/24 22:57	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane			70 - 130			01/19/24 17:02	01/26/24 22:57	
o-Terphenyl	120		70 - 130			01/19/24 17:02	01/26/24 22:57	
Method: EPA 300.0 - Anions, lor	n Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	1380		25.2	mg/Kg			01/22/24 21:41	
lient Sample ID: PH04A						Lab Sar	nple ID: 890-	5092 (

Sample Depth: 1'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		01/26/24 11:33	01/31/24 12:17	1
Toluene	<0.00201	U	0.00201	mg/Kg		01/26/24 11:33	01/31/24 12:17	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		01/26/24 11:33	01/31/24 12:17	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		01/26/24 11:33	01/31/24 12:17	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		01/26/24 11:33	01/31/24 12:17	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		01/26/24 11:33	01/31/24 12:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130			01/26/24 11:33	01/31/24 12:17	1
1,4-Difluorobenzene (Surr)	75		70 - 130			01/26/24 11:33	01/31/24 12:17	1
Method: TAL SOP Total BTEX	- Total BTEX Cald	ulation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			01/31/24 12:17	1
Method: SW846 8015 NM - Die	esel Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
							01/26/24 23:19	

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Job ID: 890-5982-1 SDG: 03C1558301

Matrix: Solid

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Lab Sample ID: 890-5982-8

Lab Sample ID: 890-5982-9

Matrix: Solid

Client Sample ID: PH04A

Date Collected: 01/17/24 11:00 Date Received: 01/17/24 16:35

Sample Depth: 1'

Client: Ensolum

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2	mg/Kg		01/19/24 17:02	01/26/24 23:19	
Diesel Range Organics (Over C10-C28)	<50.2	U *1	50.2	mg/Kg		01/19/24 17:02	01/26/24 23:19	
Oll Range Organics (Over C28-C36)	<50.2	U	50.2	mg/Kg		01/19/24 17:02	01/26/24 23:19	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	83		70 - 130			01/19/24 17:02	01/26/24 23:19	1
o-Terphenyl	100		70 - 130			01/19/24 17:02	01/26/24 23:19	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	45.8	5.02	mg/Kg			01/22/24 21:47	1

Client Sample ID: FS01

Date Collected: 01/17/24 13:40

Date Received: 01/17/24 16:35

oumpie Dopuin i	Sampl	le D	epth	า:	1'
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Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/26/24 11:33	01/31/24 12:37	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/26/24 11:33	01/31/24 12:37	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/26/24 11:33	01/31/24 12:37	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		01/26/24 11:33	01/31/24 12:37	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/26/24 11:33	01/31/24 12:37	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		01/26/24 11:33	01/31/24 12:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130			01/26/24 11:33	01/31/24 12:37	1
1,4-Difluorobenzene (Surr)	72		70 - 130			01/26/24 11:33	01/31/24 12:37	1
Method: TAL SOP Total BTEX	- Total BTEX Cal	culation						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			01/31/24 12:37	1
Method: SW846 8015 NM - Die	esel Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4	mg/Kg			01/26/24 23:40	1
Method: SW846 8015B NM - D	liesel Range Orga	nics (DRO)	(GC)					
method. Offorto of tob him - b					_			
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result <50.4		RL	Unit mg/Kg	D	Prepared 01/19/24 17:02	Analyzed 01/26/24 23:40	Dil Fac

1-Chlorooctane o-Terphenyl	104 126		70 - 130 70 - 130		01/19/24 17:02 01/19/24 17:02	01/26/24 23:40 01/26/24 23:40	1	
			70 100		01/10/01 17 00	01/00/01 00 10		
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac	
Oll Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg	01/19/24 17:02	01/26/24 23:40	1	
C10-C28)								
Diesel Range Organics (Over	<50.4	U *1	50.4	mg/Kg	01/19/24 17:02	01/26/24 23:40	1	
		Clier	t Sample Re	sults				
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Client: Ensolum			•				Job ID: 890)-5982-
Project/Site: PLU 18 Brushy Draw T	В						SDG: 03C	155830
Client Sample ID: FS01						Lab Sar	nple ID: 890-	5982-
Date Collected: 01/17/24 13:40							•	ix: Soli
Date Received: 01/17/24 16:35								
Sample Depth: 1'								
_								
Method: EPA 300.0 - Anions, Ion		hy - Solub Qualifier	le RL	Unit	D	Prepared	Analyzad	Dil Fa
Analyte Chloride	90.3	Quaimer	4.99	Ont mg/Kg		Prepared	Analyzed 01/22/24 21:54	
-								
Client Sample ID: FS02						Lab Sam	ple ID: 890-5	982-1
Date Collected: 01/17/24 13:45							Matr	ix: Soli
Date Received: 01/17/24 16:35								
Sample Depth: 1'								
_ Method: SW846 8021B - Volatile (Organic Comp	ounds (GC)					
Analyte	• •	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00202	U	0.00202	mg/Kg		01/22/24 14:55	01/29/24 17:35	
Toluene	<0.00202	U	0.00202	mg/Kg		01/22/24 14:55	01/29/24 17:35	
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		01/22/24 14:55	01/29/24 17:35	
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		01/22/24 14:55	01/29/24 17:35	
o-Xylene	<0.00202		0.00202	mg/Kg		01/22/24 14:55	01/29/24 17:35	
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		01/22/24 14:55	01/29/24 17:35	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	88		70 - 130			01/22/24 14:55	01/29/24 17:35	
1,4-Difluorobenzene (Surr)	73		70 - 130			01/22/24 14:55	01/29/24 17:35	
_ Method: TAL SOP Total BTEX - To	otal BTEX Cale	sulation						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	< 0.00403		0.00403	mg/Kg			01/29/24 17:35	
-								
Method: SW846 8015 NM - Diesel								
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<50.5	U	50.5	mg/Kg			01/27/24 00:04	
- Method: SW846 8015B NM - Diese	el Range Orga	nics (DRO)	(GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5	mg/Kg		01/19/24 17:02	01/27/24 00:04	
Diesel Range Organics (Over C10-C28)	<50.5	U *1	50.5	mg/Kg		01/19/24 17:02	01/27/24 00:04	
Oll Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		01/19/24 17:02	01/27/24 00:04	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil F
1-Chlorooctane	83		70 - 130			01/19/24 17:02	01/27/24 00:04	
o-Terphenyl	99		70 - 130			01/19/24 17:02	01/27/24 00:04	
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solub	le					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa

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01/22/24 22:01

Chloride

5.03

mg/Kg

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

Method: TAL SOP Total BTEX - Total BTEX Calculation

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

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

Result Qualifier

<0.00199 U

<0.00199 U

<0.00199 U

<0.00398 U

<0.00199 U

<0.00398 U

%Recovery Qualifier

69 S1-

Result Qualifier

Result Qualifier

Result Qualifier

<50.0 U

<50.0 U

<50.0 U*1

<50.0 U

86

<0.00398 U

RL

0.00199

0.00199

0.00199

0.00398

0.00199

0.00398

Limits

70 - 130

70 - 130

RL

RL

50.0

RL

50.0

50.0

50.0

0.00398

Job ID: 890-5982-1 SDG: 03C1558301

Client Sample ID: FS03

Date Collected: 01/17/24 13:50 Date Received: 01/17/24 16:35

Sample Depth: 1'

Client: Ensolum

Analyte

Benzene

Toluene

o-Xylene

Surrogate

Analyte

Analyte

Analyte

C10-C28)

(GRO)-C6-C10

Total TPH

Total BTEX

Ethylbenzene

Xylenes, Total

m-Xylene & p-Xylene

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Gasoline Range Organics

Diesel Range Organics (Over

Oll Range Organics (Over C28-C36)

Lab Sample ID: 890-5982-11

Matrix: Solid

Unit	D	Prepared	Analyzed	Dil Fac	
mg/Kg	_	01/22/24 14:55	01/29/24 17:55	1	6
mg/Kg		01/22/24 14:55	01/29/24 17:55	1	
mg/Kg		01/22/24 14:55	01/29/24 17:55	1	7
mg/Kg		01/22/24 14:55	01/29/24 17:55	1	
mg/Kg		01/22/24 14:55	01/29/24 17:55	1	8
mg/Kg		01/22/24 14:55	01/29/24 17:55	1	0
					0
		Prepared	Analyzed	Dil Fac	3
		01/22/24 14:55	01/29/24 17:55	1	4.0
		01/22/24 14:55	01/29/24 17:55	1	10
	_				11
Unit	D	Prepared	Analyzed	Dil Fac	
mg/Kg			01/29/24 17:55	1	12
Unit	D	Prepared	Analyzed	Dil Fac	13
mg/Kg	_		01/27/24 00:49	1	
					14
Unit	D	Prepared	Analyzed	Dil Fac	
mg/Kg	_	01/19/24 17:02	01/27/24 00:49	1	
mg/Kg		01/19/24 17:02	01/27/24 00:49	1	
mg/Kg		01/19/24 17:02	01/27/24 00:49	1	
		Prepared	Analyzed	Dil Fac	
		01/19/24 17:02	01/27/24 00:49	1	
		01/19/24 17:02	01/27/24 00:49	1	

Lab Sample ID: 890-5982-12

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	59	S1-	70 - 130			01/19/24 17:02	01/27/24 00:49	1
o-Terphenyl	71		70 - 130			01/19/24 17:02	01/27/24 00:49	1
_ Method: EPA 300.0 - Anions, lo	n Chromatograp	ohy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	85.9		5.04	mg/Kg			01/22/24 22:08	1

Client Sample ID: FS04 Date Collected: 01/17/24 14:00

Date Received: 01/17/24 16:35 Sample Depth: 1'

Method: SW846 8021B - Volatile O	rganic Comp	ounds (GC)	
Analyte	Result	Qualifier	R
Benzene	<0.00198	U	0.0019

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		01/22/24 14:55	01/29/24 18:16	1
Toluene	<0.00198	U	0.00198	mg/Kg		01/22/24 14:55	01/29/24 18:16	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		01/22/24 14:55	01/29/24 18:16	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		01/22/24 14:55	01/29/24 18:16	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		01/22/24 14:55	01/29/24 18:16	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		01/22/24 14:55	01/29/24 18:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130			01/22/24 14:55	01/29/24 18:16	1

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Released to Imaging: 4/22/2024 2:45:18 PM

Client Sample Results

Limits

70 - 130

RL

RL

49.6

0.00397

Unit

Unit

Unit

mg/Kg

mg/Kg

mg/Kg

Job ID: 890-5982-1 SDG: 03C1558301

Analyzed

01/29/24 18:16

Analyzed

01/29/24 18:16

Analyzed

01/27/24 01:12

Analyzed

01/27/24 01:12

Client Sample ID: FS04

Date Collected: 01/17/24 14:00 Date Received: 01/17/24 16:35

Sample Depth: 1'

1,4-Difluorobenzene (Surr)

Surrogate

Analyte

Analyte

Total TPH

Total BTEX

Client: Ensolum

Lab Sample ID: 890-5982-12

D

D

D

Prepared

01/22/24 14:55

Prepared

Prepared

Prepared

01/19/24 17:02

Matrix: Solid

Dil Fac

Dil Fac

1

1

1

Dil Fac 1 Dil Fac 1	9
1	
1	
	13

Analyte	Result	Qualifier	RL	
Gasoline Range Organics	<49.6	U	49.6	

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

Method: TAL SOP Total BTEX - Total BTEX Calculation

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

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

%Recovery Qualifier

Result Qualifier

Result Qualifier

<49.6 U

<49.6 U

73

<0.00397 U

(GRO)-C6-C10							
Diesel Range Organics (Over	<49.6	U *1	49.6	mg/Kg	01/19/24 17:02	01/27/24 01:12	1
C10-C28)							
Oll Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg	01/19/24 17:02	01/27/24 01:12	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130		01/19/24 17:02	01/27/24 01:12	1
o-Terphenyl	93		70 - 130		01/19/24 17:02	01/27/24 01:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	37.8	5.04	mg/Kg			01/22/24 22:15	1

Client Sample ID: FS05

Date Collected: 01/17/24 14:10 Date Received: 01/17/24 16:35 Sample Depth: 1'

Lab Sample ID: 890-5982-13

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/22/24 14:55	01/29/24 18:36	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/22/24 14:55	01/29/24 18:36	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/22/24 14:55	01/29/24 18:36	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/22/24 14:55	01/29/24 18:36	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/22/24 14:55	01/29/24 18:36	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/22/24 14:55	01/29/24 18:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		70 - 130			01/22/24 14:55	01/29/24 18:36	1
1,4-Difluorobenzene (Surr)	72		70 - 130			01/22/24 14:55	01/29/24 18:36	1
Method: TAL SOP Total BTEX	- Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/29/24 18:36	1
- Method: SW846 8015 NM - Die	esel Range Organ	ics (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

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01/27/24 01:33

Total TPH

49.6

mg/Kg

Job ID: 890-5982-1 SDG: 03C1558301

Lab Sample ID: 890-5982-14

Matrix: Solid

Matrix: Solid

Client Sample ID: FS05

Date Collected: 01/17/24 14:10 Date Received: 01/17/24 16:35

Sample Depth: 1'

Client: Ensolum

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6	mg/Kg		01/19/24 17:02	01/27/24 01:33	1
Diesel Range Organics (Over C10-C28)	<49.6	U *1	49.6	mg/Kg		01/19/24 17:02	01/27/24 01:33	1
Oll Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		01/19/24 17:02	01/27/24 01:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130			01/19/24 17:02	01/27/24 01:33	1
o-Terphenyl	97		70 - 130			01/19/24 17:02	01/27/24 01:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	86.0	4.98	mg/Kg			01/22/24 22:22	1

Client Sample ID: FS06

Date Collected: 01/17/24 14:15

Date Received: 01/17/24 16:35

Sample Depth: 1'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/22/24 14:55	01/29/24 18:57	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/22/24 14:55	01/29/24 18:57	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/22/24 14:55	01/29/24 18:57	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		01/22/24 14:55	01/29/24 18:57	1
o-Xylene	<0.00200	U	0.00200	mg/Kg 01/22/24 14:55 01/29/24 1		01/29/24 18:57	1	
Xylenes, Total	<0.00399	U	0.00399 mg/Kg 01/22/24 14:55 01/2		01/29/24 18:57	1		
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130			01/22/24 14:55	01/29/24 18:57	1
1,4-Difluorobenzene (Surr)	83		70 - 130			01/22/24 14:55	01/29/24 18:57	1
		culation	101100			011222771.00	•	
		culation	101100			0		
Method: TAL SOP Total BTEX Analyte	- Total BTEX Calo Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte	- Total BTEX Cal	Qualifier		Unit mg/Kg	<u>D</u>			Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX	- Total BTEX Cale Result <0.00399	Qualifier U	RL 0.00399		D		Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die	- Total BTEX Cale Result <0.00399	Qualifier U	RL 0.00399		<u>D</u> 		Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte	- Total BTEX Cale Result <0.00399	Qualifier U ics (DRO) (Qualifier	RL 0.00399	mg/Kg		Prepared	Analyzed 01/29/24 18:57	1
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH	- Total BTEX Cale Result <0.00399 esel Range Organ Result <50.3	Qualifier U ics (DRO) (Qualifier U	RL 0.00399 GC) RL 50.3	mg/Kg Unit		Prepared	Analyzed 01/29/24 18:57 Analyzed	1
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D	- Total BTEX Cale Result <0.00399 esel Range Organ Result <50.3	Qualifier U ics (DRO) (Qualifier U	RL 0.00399 GC) RL 50.3	mg/Kg Unit		Prepared	Analyzed 01/29/24 18:57 Analyzed	1
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte	- Total BTEX Cale Result <0.00399 esel Range Organ Result <50.3	Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier	RL 0.00399	mg/Kg Unit mg/Kg	D	Prepared Prepared	Analyzed 01/29/24 18:57 Analyzed 01/27/24 01:56	1 Dil Fac 1

50.3 01/19/24 17:02 01/27/24 01:56 Oll Range Organics (Over C28-C36) <50.3 U mg/Kg 1 Limits Dil Fac %Recovery Qualifier Prepared Analyzed Surrogate 70 - 130 01/19/24 17:02 01/27/24 01:56 1-Chlorooctane 89 1 o-Terphenyl 106 70 - 130 01/19/24 17:02 01/27/24 01:56 1

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		Clier	nt Sample Re	sults				
Client: Ensolum		-					Job ID: 890	-5982-1
Project/Site: PLU 18 Brushy Draw TB	3						SDG: 03C	1558301
Client Sample ID: FS06						Lab Sam	ple ID: 890-5	982-14
Date Collected: 01/17/24 14:15						Lub Oum		ix: Solid
ate Received: 01/17/24 16:35							indu	
Sample Depth: 1'								
-			-					
Method: EPA 300.0 - Anions, Ion C Analyte		hy - Solub Qualifier	le RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride		Quaimer	4.96	mg/Kg		Fiepaleu	01/22/24 16:26	1
				5.5				
Client Sample ID: FS07						Lab Sam	ple ID: 890-5	
Date Collected: 01/17/24 14:20							Matri	ix: Solid
Date Received: 01/17/24 16:35								
Sample Depth: 1'								
Method: SW846 8021B - Volatile O	rganic Comp	ounds (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		01/22/24 14:55	01/29/24 19:17	1
Toluene	<0.00201	U	0.00201	mg/Kg		01/22/24 14:55	01/29/24 19:17	1
Ethylbenzene	<0.00201		0.00201	mg/Kg		01/22/24 14:55	01/29/24 19:17	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		01/22/24 14:55	01/29/24 19:17	1
o-Xylene	<0.00201		0.00201	mg/Kg		01/22/24 14:55	01/29/24 19:17	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		01/22/24 14:55	01/29/24 19:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130			01/22/24 14:55	01/29/24 19:17	1
1,4-Difluorobenzene (Surr)	76		70 - 130			01/22/24 14:55	01/29/24 19:17	1
Method: TAL SOP Total BTEX - Tot	tal BTEX Calo	culation						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			01/29/24 19:17	1
	_							
Method: SW846 8015 NM - Diesel I Analyte		Qualifier	(GC) RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1		50.1	mg/Kg			01/27/24 02:19	1
	-00.1	0	00.1	1119/119			01/21/21 02.10	•
Method: SW846 8015B NM - Diese	l Range Orga	nics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.1	U	50.1	mg/Kg		01/19/24 17:02	01/27/24 02:19	1
(GRO)-C6-C10	-50.4	11 *4	50.4			04/40/04 47:00	04/07/04 00:40	4
Diesel Range Organics (Over C10-C28)	<50.1	0 1	50.1	mg/Kg		01/19/24 17:02	01/27/24 02:19	1
Oll Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		01/19/24 17:02	01/27/24 02:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane			70 - 130			01/19/24 17:02	01/27/24 02:19	1
o-Terphenyl	98		70 - 130			01/19/24 17:02	01/27/24 02:19	1
Method: EPA 300.0 - Anions, Ion C		-			_	_ .		-
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

 Analyte
 Result
 Qualifier
 RL
 Unit
 D
 Prepared
 Analyzed
 Dil

 Chloride
 69.8
 5.05
 mg/Kg
 01/22/24 16:42
 01/22/24 16:42
 01/22/24 16:42

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Job ID: 890-5982-1 SDG: 03C1558301

Lab Sample ID: 890-5982-16

Client Sample ID: SW01

Date Collected: 01/17/24 14:25 Date Received: 01/17/24 16:35

Sample Depth: 0-1'

Client: Ensolum

Method: SW846 8021B - Volatile C								
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200		0.00200	mg/Kg		01/22/24 14:55	01/29/24 19:38	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/22/24 14:55	01/29/24 19:38	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/22/24 14:55	01/29/24 19:38	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		01/22/24 14:55	01/29/24 19:38	1
o-Xylene	<0.00200 U		0.00200	mg/Kg		01/22/24 14:55	01/29/24 19:38	1
Xylenes, Total	<0.00401	0.00401 U 0.00401 mg/Kg 01/22/24 14:5		01/22/24 14:55	01/29/24 19:38	1		
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130			01/22/24 14:55	01/29/24 19:38	1
1,4-Difluorobenzene (Surr)	83		70 - 130			01/22/24 14:55	01/29/24 19:38	1
_ Method: TAL SOP Total BTEX - To	tal BTEX Cal	culation						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			01/29/24 19:38	1
– Method: SW846 8015 NM - Diesel	Range Organ	ics (DRO) ((GC)					
Analyte	• •	Qualifier	RL	Unit	D	Prepared	Analyzed	
Total TPH	<50.5						•	Dil Fac
_	<50.5	U	50.5	mg/Kg			01/27/24 02:41	Dil Fac
 Method: SW846 8015B NM - Diese				mg/Kg			01/27/24 02:41	Dil Fac
Method: SW846 8015B NM - Diese Analyte	el Range Orga			mg/Kg Unit	 D	Prepared	01/27/24 02:41	Dil Fac
Analyte Gasoline Range Organics	el Range Orga	nics (DRO) Qualifier	(GC)		D	Prepared 01/19/24 17:02		1
Analyte Gasoline Range Organics (GRO)-C6-C10	el Range Orga Result	nics (DRO) Qualifier U	(GC) RL	Unit mg/Kg	D	·	Analyzed	1 Dil Fac
Analyte Gasoline Range Organics	el Range Orga Result <50.5	nics (DRO) Qualifier U	(GC) <u>RL</u> 50.5	Unit	D	01/19/24 17:02	Analyzed 01/27/24 02:41	1 Dil Fac 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	el Range Orga Result <50.5	unics (DRO) Qualifier U U *1	(GC) <u>RL</u> 50.5	Unit mg/Kg	<u>D</u>	01/19/24 17:02	Analyzed 01/27/24 02:41	1 Dil Fac 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	el Range Orga Result <50.5 <50.5	unics (DRO) Qualifier U U *1 U	(GC) <u>RL</u> 50.5 50.5	Unit mg/Kg mg/Kg	D	01/19/24 17:02	Analyzed 01/27/24 02:41 01/27/24 02:41	1 Dil Fac 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	el Range Orga <u>Result</u> <50.5 <50.5 <50.5	unics (DRO) Qualifier U U *1 U	(GC) <u>RL</u> 50.5 50.5 50.5	Unit mg/Kg mg/Kg	D	01/19/24 17:02 01/19/24 17:02 01/19/24 17:02	Analyzed 01/27/24 02:41 01/27/24 02:41 01/27/24 02:41	1 Dil Fac 1 1 1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	78.5		5.04	mg/Kg			01/22/24 16:47	1

Client Sample ID: SW02 Date Collected: 01/17/24 14:30

Date Received: 01/17/24 16:35

Sample Depth: 0-1'

Method: SW846 8021B - Volat	ile Organic Comp	ounds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		01/24/24 15:35	01/30/24 13:32	1
Toluene	<0.00201	U	0.00201	mg/Kg		01/24/24 15:35	01/30/24 13:32	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		01/24/24 15:35	01/30/24 13:32	1
m-Xylene & p-Xylene	<0.00402	U *+	0.00402	mg/Kg		01/24/24 15:35	01/30/24 13:32	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		01/24/24 15:35	01/30/24 13:32	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		01/24/24 15:35	01/30/24 13:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130			01/24/24 15:35	01/30/24 13:32	1

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Lab Sample ID: 890-5982-17

Matrix: Solid

D· 890-5982-1

Matrix: Solid

Client Sample Results

Job ID: 890-5982-1 SDG: 03C1558301

Matrix: Solid

5

Lab Sample ID: 890-5982-17

Client Sample ID: SW02

Date Collected: 01/17/24 14:30 Date Received: 01/17/24 16:35

Sample Depth: 0-1'

Client: Ensolum

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	70		70 - 130			01/24/24 15:35	01/30/24 13:32	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	ulation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			01/30/24 13:32	1
- Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.5	U	49.5	mg/Kg			01/27/24 03:03	1
Analyte Gasoline Range Organics (GRO)-C6-C10	<49.5		49.5	Unit mg/Kg	<u> </u>	Prepared 01/19/24 17:02	Analyzed 01/27/24 03:03	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.5	U *1	49.5	mg/Kg		01/19/24 17:02	01/27/24 03:03	1
,	<49.5	U	49.5	mg/Kg		01/19/24 17:02	01/27/24 03:03	1
Oll Range Organics (Over C28-C36)	<49.5 %Recovery		49.5 Limits	mg/Kg		01/19/24 17:02 Prepared	01/27/24 03:03 Analyzed	1 Dil Fac
Oll Range Organics (Over C28-C36) Surrogate				mg/Kg				1
Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	%Recovery		Limits	mg/Kg		Prepared	Analyzed	1
Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	%Recovery 80 96	Qualifier	Limits 70 - 130 70 - 130	mg/Kg		Prepared 01/19/24 17:02	Analyzed 01/27/24 03:03	1 1 1 1
Oll Range Organics (Over C28-C36) Surrogate	%Recovery 80 96 Chromatograp	Qualifier	Limits 70 - 130 70 - 130	mg/Kg Unit	D	Prepared 01/19/24 17:02	Analyzed 01/27/24 03:03	1 Dil Fac

Client: Ensolum Project/Site: PLU 18 Brushy Draw TB

Method: 8021B - Volatile Organic Compounds (GC) Matrix: Solid

		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-38189-A-1-B MS	Vatrix Spike	119	102	
880-38189-A-1-C MSD	Matrix Spike Duplicate	118	99	
880-38301-A-1-B MS	Vatrix Spike	115	107	
380-38301-A-1-C MSD	Matrix Spike Duplicate	91	77	
390-5981-A-1-E MS	Vatrix Spike	109	104	
90-5981-A-1-F MSD	Vatrix Spike Duplicate	115	104	
90-5982-1	PH01	83	81	
90-5982-2	PH01A	89	76	
90-5982-3	PH02	81	78	
90-5982-4	PH02A	77	84	
90-5982-5	PH03	78	81	
	PH03A	81	75	
	PH04	85	76	
	PH04A	86	75	
	FS01	89	72	
	FS02	88	73	
	FS03	86	69 S1-	
	=S04	93	73	
	FS05	75	72	
	=S06	78	83	
	=S07	90	76	
	SW01	77	83	
	SW01 SW02	84	83 70	
		84 280 S1+		
	Matrix Spike		95	
	Matrix Spike Duplicate	504 S1+	93 102	
	Lab Control Sample	118	102	
	Lab Control Sample	111	102	
	Lab Control Sample	116	101	
	Lab Control Sample	112	102	
	_ab Control Sample Dup	128	106	
	_ab Control Sample Dup	109	101	
	Lab Control Sample Dup	115	101	
CSD 880-71692/2-A	ab Control Sample Dup	104	94	
MB 880-71343/5-A	Method Blank	71	84	
MB 880-71537/5-A	Vethod Blank	67 S1-	88	
/IB 880-71633/5-A	Method Blank	69 S1-	83	
MB 880-71690/5-A	Method Blank	76	79	
MB 880-71692/5-A	Method Blank	79	79	
Surrogate Legend				
BFB = 4-Bromofluorobenzene	(Surr)			

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

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-5982-1	PH01	86	103	

5

6

Job ID: 890-5982-1 SDG: 03C1558301

Prep Type: Total/NA

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Prep Type: Total/NA

Job ID: 890-5982-1 SDG: 03C1558301

Client: Ensolum Project/Site: PLU 18 Brushy Draw TB

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

Prep Type: Total/NA

		1CO1	OTPH1	Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		5
890-5982-1 MS	PH01	88	89		5
890-5982-1 MSD	PH01	91	91		6
890-5982-2	PH01A	94	114		Ο
890-5982-3	PH02	100	119		
890-5982-4	PH02A	96	117		
890-5982-5	PH03	78	95		
890-5982-6	PH03A	78	97		8
890-5982-7	PH04	100	120		
890-5982-8	PH04A	83	100		9
890-5982-9	FS01	104	126		
890-5982-10	FS02	83	99		
890-5982-11	FS03	59 S1-	71		
890-5982-12	FS04	77	93		
890-5982-13	FS05	80	97		
890-5982-14	FS06	89	106		
890-5982-15	FS07	81	98		
890-5982-16	SW01	84	102		13
890-5982-17	SW02	80	96		
LCS 880-71251/2-A	Lab Control Sample	81	103		
LCSD 880-71251/3-A	Lab Control Sample Dup	88	108		
MB 880-71251/1-A	Method Blank	98	119		

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Eurofins Carlsbad

Released to Imaging: 4/22/2024 2:45:18 PM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-71343/5-A	
Matrix: Solid	

Analysis Batch: 71764

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/22/24 14:55	01/29/24 10:33	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/22/24 14:55	01/29/24 10:33	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/22/24 14:55	01/29/24 10:33	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/22/24 14:55	01/29/24 10:33	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/22/24 14:55	01/29/24 10:33	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/22/24 14:55	01/29/24 10:33	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	71		70 - 130			01/22/24 14:55	01/29/24 10:33	1
1,4-Difluorobenzene (Surr)	84		70 - 130			01/22/24 14:55	01/29/24 10:33	1

Lab Sample ID: LCS 880-71343/1-A Matrix: Solid

Analysis Batch: 71764

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1109		mg/Kg		111	70 - 130	
Toluene	0.100	0.1084		mg/Kg		108	70 - 130	
Ethylbenzene	0.100	0.1235		mg/Kg		124	70 - 130	
m-Xylene & p-Xylene	0.200	0.2589		mg/Kg		129	70 - 130	
o-Xylene	0.100	0.1258		mg/Kg		126	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: LCSD 880-71343/2-A

Matrix: Solid

	Analysis Batch: 71764							Prep	Batch:	71343
		Spike	LCSD	LCSD				%Rec		RPD
	Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
	Benzene	0.100	0.09840		mg/Kg		98	70 - 130	12	35
	Toluene	0.100	0.1009		mg/Kg		101	70 - 130	7	35
	Ethylbenzene	0.100	0.1248		mg/Kg		125	70 - 130	1	35
	m-Xylene & p-Xylene	0.200	0.2595		mg/Kg		130	70 - 130	0	35
	o-Xylene	0.100	0.1260		mg/Kg		126	70 - 130	0	35
I										

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	128		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 880-38189-A-1-B MS

Matrix: Solid

Analysis Batch: 71764									Pre	Batch: 71343
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00198	U	0.0996	0.09967		mg/Kg		100	70 - 130	
Toluene	<0.00198	U	0.0996	0.1048		mg/Kg		105	70 - 130	

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Prep Type: Total/NA

Client Sample ID: Matrix Spike

Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 71343

Job ID: 890-5982-1

SDG: 03C1558301

3

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 71343

MS MS

0.1245

0.2478

0.1177

Result Qualifier

Unit

mg/Kg

mg/Kg

mg/Kg

Spike

Added

0.0996

0.199

0.0996

Limits 70 - 130

70 - 130

Client: Ensolum Project/Site: PLU 18 Brushy Draw TB

Lab Sample ID: 880-38189-A-1-B MS

Matrix: Solid

Analyte

o-Xylene

Surrogate

Ethylbenzene

m-Xylene & p-Xylene

Analysis Batch: 71764

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

Sample Sample

<0.00198

%Recovery

<0.00396 UF1

<0.00198 UF1

119

102

MS MS

Result Qualifier

U F1

Qualifier

Prep Type: Total/NA

Prep Batch: 71343

Client Sample ID: Matrix Spike

%Rec

Limits

70 - 130

70 - 130

70 - 130

%Rec

125

124

118

D

5
7
8
9

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

Client Sample ID: Method Blank

01/30/24 10:46

01/30/24 10:46

Client Sample ID: Lab Control Sample

01/24/24 15:35

01/24/24 15:35

Prep Type: Total/NA

Prep Batch: 71537

Matrix: Solid Analysis Batch: 71764

Lab Sample ID: 880-38189-A-1-C MSD

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Analysis Batch: 71764									Prep	Batch:	71343	
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	<0.00198	U	0.100	0.1113		mg/Kg		111	70 - 130	11	35	
Toluene	<0.00198	U	0.100	0.1202		mg/Kg		119	70 - 130	14	35	i
Ethylbenzene	<0.00198	U F1	0.100	0.1365	F1	mg/Kg		136	70 - 130	9	35	
m-Xylene & p-Xylene	<0.00396	U F1	0.201	0.2816	F1	mg/Kg		140	70 - 130	13	35	i
o-Xylene	<0.00198	U F1	0.100	0.1336	F1	mg/Kg		133	70 - 130	13	35	

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

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

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

4-Bromofluorobenzene (Surr)	67	S1-	70 - 130
1,4-Difluorobenzene (Surr)	88		70 _ 130

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

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

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Prep Type: Total/NA

Prep Batch: 71537

1

LCS LCS

0.1256

Result Qualifier

Unit

mg/Kg

Spike

Added

0.100

Limits

70 - 130 70 - 130

Client: Ensolum Project/Site: PLU 18 Brushy Draw TB

Lab Sample ID: LCS 880-71537/1-A

Lab Sample ID: LCSD 880-71537/2-A

Matrix: Solid

Analyte

o-Xylene

Surrogate

Matrix: Solid

Analysis Batch: 71915

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Prep Type: Total/NA

Prep Batch: 71537

RPD

7

6

9

8

8

7

RPD

Limit

35

35

35 35

35

Client Sample ID: Lab Control Sample Dup	

Prep Type: Total/NA Prep Batch: 71537

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Client Sample ID: Lab Control Sample

%Rec

Limits

70 - 130

%Rec

126

D

						Pre
Spike	LCSD	LCSD				%Rec
Added	Result	Qualifier	Unit	D	%Rec	Limits
0.100	0.1041		mg/Kg		104	70 - 130
0.100	0.1056		mg/Kg		106	70 - 130
0.100	0.1153		mg/Kg		115	70 - 130
0.200	0.2440		mg/Kg		122	70 - 130
0.100	0.1157		mg/Kg		116	70 - 130
	Added 0.100 0.100 0.100 0.200	Added Result 0.100 0.1041 0.100 0.1056 0.100 0.1153 0.200 0.2440	Added Result Qualifier 0.100 0.1041	Added Result Qualifier Unit 0.100 0.1041 mg/Kg 0.100 0.1056 mg/Kg 0.100 0.1153 mg/Kg 0.200 0.2440 mg/Kg	Added Result Qualifier Unit D 0.100 0.1041 mg/Kg mg/Kg 0.100 0.1056 mg/Kg 0.100 0.1153 mg/Kg 0.200 0.2440 mg/Kg	Added Result Qualifier Unit D %Rec 0.100 0.1041 mg/Kg 104 0.100 0.1056 mg/Kg 106 0.100 0.1153 mg/Kg 115 0.200 0.2440 mg/Kg 122

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

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

LCS LCS

111

102

Qualifier

%Recovery

Lab Sample ID: 890-5981-A-1-E MS Matrix: Solid

Analysis Batch: 71915 Prep Batch: 71537 Spike MS MS Sample Sample %Rec Result Qualifier Analyte Result Qualifier Added Unit D %Rec Limits Benzene <0.00199 U 0.0996 0.09687 mg/Kg 97 70 - 130 Toluene <0.00199 U 0.0996 0.09463 mg/Kg 94 70 - 130 Ethylbenzene <0.00199 U 0.0996 0.1029 mg/Kg 103 70 - 130 m-Xylene & p-Xylene <0.00398 U F1 *+ 0.199 0.2163 mg/Kg 109 70 - 130 o-Xylene <0.00199 U 0.0996 0.1044 mg/Kg 105 70 - 130

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

Lab Sample ID: 890-5981-A-1-F MSD Matrix: Solid

Analysis Batch: 71915									Prep	Batch:	71537
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U	0.0990	0.1214		mg/Kg		123	70 - 130	22	35
Toluene	<0.00199	U	0.0990	0.1155		mg/Kg		116	70 - 130	20	35
Ethylbenzene	<0.00199	U	0.0990	0.1272		mg/Kg		128	70 - 130	21	35
m-Xylene & p-Xylene	<0.00398	U F1 *+	0.198	0.2662	F1	mg/Kg		134	70 - 130	21	35
o-Xylene	<0.00199	U	0.0990	0.1272		mg/Kg		128	70 - 130	20	35

Limits

70 - 130

70 - 130

Client: Ensolum Project/Site: PLU 18 Brushy Draw TB

Lab Sample ID: 890-5981-A-1-F MSD

Lab Sample ID: MB 880-71633/5-A

Matrix: Solid

Matrix: Solid

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

Xylenes, Total

m-Xylene & p-Xylene

Surrogate

Analysis Batch: 71915

4-Bromofluorobenzene (Surr)

Analysis Batch: 71772

1,4-Difluorobenzene (Surr)

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

MSD MSD %Recovery Qualifier

115

104

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Prep Type: Total/NA

Prep Batch: 71537

Client Sample ID: Matrix Spike Duplicate

5

					Client Sa	mple ID: Metho	d Blank	_ /
					Chefft da	Prep Type: 7 Prep Batch	Fotal/NA	8
МВ	МВ							Q
Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	9
<0.00200	U	0.00200	mg/Kg		01/25/24 18:00	01/29/24 22:21	1	
<0.00200	U	0.00200	mg/Kg		01/25/24 18:00	01/29/24 22:21	1	
<0.00200	U	0.00200	mg/Kg		01/25/24 18:00	01/29/24 22:21	1	
<0.00400	U	0.00400	mg/Kg		01/25/24 18:00	01/29/24 22:21	1	
<0.00200	U	0.00200	mg/Kg		01/25/24 18:00	01/29/24 22:21	1	
<0.00400	U	0.00400	mg/Kg		01/25/24 18:00	01/29/24 22:21	1	
МВ	МВ							1:
%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	

	MB MB				
Surrogate %Reco	ery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	69 S1-	70 - 130	01/25/24 18:00	01/29/24 22:21	1
1,4-Difluorobenzene (Surr)	83	70 - 130	01/25/24 18:00	01/29/24 22:21	1

Lab Sample ID: LCS 880-71633/1-A Matrix: Solid Analysis Batch: 71772

Analysis Batch: 71772							Prep B	atch: 71633
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1103		mg/Kg		110	70 - 130	
Toluene	0.100	0.1082		mg/Kg		108	70 - 130	
Ethylbenzene	0.100	0.1273		mg/Kg		127	70 - 130	
m-Xylene & p-Xylene	0.200	0.2599		mg/Kg		130	70 - 130	
o-Xylene	0.100	0.1270		mg/Kg		127	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-71633/2-A Matrix: Solid

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

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analysis Batch: 71772									Prep	Batch:	71633
			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene			0.100	0.1102		mg/Kg		110	70 - 130	0	35
Toluene			0.100	0.1107		mg/Kg		111	70 - 130	2	35
Ethylbenzene			0.100	0.1274		mg/Kg		127	70 - 130	0	35
m-Xylene & p-Xylene			0.200	0.2642	*+	mg/Kg		132	70 - 130	2	35
o-Xylene			0.100	0.1280		mg/Kg		128	70 - 130	1	35
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								

Sunoyate	/artecovery quanner	Linits
4-Bromofluorobenzene (Surr)	115	70 - 130

Client: Ensolum Project/Site: PLU 18 Brushy Draw TB

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

Lab Sample ID: LCSD 880-716 Matrix: Solid					,		Cli	ent	Sam	ple ID: L	ab Control Sar Prep Type:	
Analysis Batch: 71772											Prep Bate	
	1.000	1.00										
Surrogata	LCSD %Recovery			Limits								
Surrogate 1,4-Difluorobenzene (Surr)		Quai		70 - 130								
	101			10 - 100								
Lab Sample ID: 890-5988-A-1-E	EMS									Client S	Sample ID: Mat	rix Spike
Matrix: Solid											· Prep Type:	
Analysis Batch: 71772											Prep Bate	
-	Sample	Sam	ple	Spike	MS	MS					%Rec	
Analyte	Result	Qual	ifier	Added	Result	Qualifier	Unit		D	%Rec	Limits	
Benzene	< 0.00201	U F1		0.0996	0.07314		mg/Kg			73	70 - 130	
Toluene	0.0262	F1		0.0996	0.07949	F1	mg/Kg			54	70 - 130	
Ethylbenzene	0.259	F2 F	1	0.0996	0.2700	F1	mg/Kg			11	70 - 130	
		MS										
Surrogate	%Recovery		ifier	Limits								
4-Bromofluorobenzene (Surr)	280	S1+		70 - 130								
1,4-Difluorobenzene (Surr)	95			70 - 130								
_ 									-		Motrix Spike	Vunligato
Lab Sample ID: 890-5988-A-1-F								Sile	nt 36	ample ID:	Matrix Spike I	-
Matrix: Solid											Prep Type:	
Analysis Batch: 71772	Commis	C		Califo	Men	MOD					Prep Bate	
Amaluta	Sample			Spike		MSD Ovelifier	11		~	% Dee	%Rec	RPD
Analyte Benzene	Result <0.00201	U F1		Added	0.06463	Qualifier F1	Unit		<u>D</u>	%Rec	Limits RF	D Limit 12 35
Toluene	0.0262			0.0990	0.1030	ГІ	mg/Kg			78		26 35
Toldene	0.0202	ΓI		0.0990	0.1030		mg/Kg			10	70 - 130	20 33
	MSD	MSD										
Surrogate	%Recovery	Qual	lifier	Limits								
4-Bromofluorobenzene (Surr)	504	S1+		70 - 130								
1,4-Difluorobenzene (Surr)	93			70 - 130								
_												
Lab Sample ID: MB 880-71690/	/ 5-A									Client Sa	ample ID: Meth	od Blank
Matrix: Solid											Prep Type:	Total/NA
Analysis Batch: 71764											Prep Bate	:h: 71690
		MB	MB									
Analyte	-	••	Qualifier	01		Unit		D	Р	repared	Analyzed	Dil Fac
	R	esult	Quaimer					_				
Benzene	<0.0	0200	U	0.00200		mg/K		_	01/2	6/24 11:23	01/28/24 23:01	1
Toluene	<0.0	0200 0200	U U	0.00200		mg/K mg/K	g	_	01/2	6/24 11:23	01/28/24 23:01 01/28/24 23:01	1 1
	<0.0	0200	U U	0.00200		mg/K mg/K mg/K	g g	_	01/2 01/2	6/24 11:23 6/24 11:23		1 1 1
Toluene Ethylbenzene m-Xylene & p-Xylene	<0.0 <0.0 <0.0	0200 0200	บ บ บ	0.00200 0.00200 0.00200 0.00200 0.00400		mg/K mg/K mg/K mg/K	g g		01/2 01/2 01/2	6/24 11:23 6/24 11:23 6/24 11:23	01/28/24 23:01	1
Toluene Ethylbenzene	<0.0 <0.0 <0.0 <0.0 <0.0	0200 0200 0200	U U U U	0.00200 0.00200 0.00200		mg/K mg/K mg/K	g g	_	01/2 01/2 01/2	6/24 11:23 6/24 11:23	01/28/24 23:01 01/28/24 23:01	1 1
Toluene Ethylbenzene m-Xylene & p-Xylene	<0.0 <0.0 <0.0 <0.0 <0.0 <0.0	0200 0200 0200 0200 0400	U U U U U	0.00200 0.00200 0.00200 0.00200 0.00400		mg/K mg/K mg/K mg/K	g g g	-	01/2 01/2 01/2 01/2	6/24 11:23 6/24 11:23 6/24 11:23	01/28/24 23:01 01/28/24 23:01 01/28/24 23:01	1 1 1
Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene	<0.0 <0.0 <0.0 <0.0 <0.0 <0.0	0200 0200 0200 0400 0200 0400	U U U U U U U	0.00200 0.00200 0.00200 0.00400 0.00400		mg/K mg/K mg/K mg/K	g g g	-	01/2 01/2 01/2 01/2	6/24 11:23 6/24 11:23 6/24 11:23 6/24 11:23	01/28/24 23:01 01/28/24 23:01 01/28/24 23:01 01/28/24 23:01	1 1 1 1 1
Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total	<0.0 <0.0 <0.0 <0.0 <0.0 <0.0	0200 0200 0200 0400 0200 0400 0400 <i>MB</i>	U U U U U U MB	0.00200 0.00200 0.00200 0.00400 0.00200 0.00400		mg/K mg/K mg/K mg/K	g g g	_	01/2 01/2 01/2 01/2 01/2	6/24 11:23 6/24 11:23 6/24 11:23 6/24 11:23 6/24 11:23 6/24 11:23	01/28/24 23:01 01/28/24 23:01 01/28/24 23:01 01/28/24 23:01 01/28/24 23:01	1 1 1 1 1 1
Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate	<0.0 <0.0 <0.0 <0.0 <0.0 <0.0	0200 0200 0200 0400 0200 0400 0400 MB	U U U U U U U	0.00200 0.00200 0.00200 0.00400 0.00200 0.00400 Limits		mg/K mg/K mg/K mg/K	g g g	_	01/2 01/2 01/2 01/2 01/2 01/2	6/24 11:23 6/24 11:23 6/24 11:23 6/24 11:23 6/24 11:23 6/24 11:23 repared	01/28/24 23:01 01/28/24 23:01 01/28/24 23:01 01/28/24 23:01 01/28/24 23:01 01/28/24 23:01	1 1 1 1 1 1 <i>Dil Fac</i>
Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total	<0.0 <0.0 <0.0 <0.0 <0.0 <0.0	0200 0200 0200 0400 0200 0400 0400 <i>MB</i>	U U U U U U MB	0.00200 0.00200 0.00200 0.00400 0.00200 0.00400		mg/K mg/K mg/K mg/K	g g g	_	01/2 01/2 01/2 01/2 01/2 <i>P</i> 01/2	6/24 11:23 6/24 11:23 6/24 11:23 6/24 11:23 6/24 11:23 6/24 11:23	01/28/24 23:01 01/28/24 23:01 01/28/24 23:01 01/28/24 23:01 01/28/24 23:01	1 1 1 1 1 1

Client: Ensolum Project/Site: PLU 18 Brushy Draw TB

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

Lab Sample ID: MB 880-71692/5-A Matrix: Solid						Client Sa	mple ID: Metho Prep Type: 1		
Analysis Batch: 72000							Prep Batch	n: 71692	
	MB	МВ							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200	mg/Kg		01/26/24 11:33	01/31/24 11:14	1	
Toluene	<0.00200	U	0.00200	mg/Kg		01/26/24 11:33	01/31/24 11:14	1	-
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/26/24 11:33	01/31/24 11:14	1	7
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/26/24 11:33	01/31/24 11:14	1	
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/26/24 11:33	01/31/24 11:14	1	8
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/26/24 11:33	01/31/24 11:14	1	
	МВ	МВ							9
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	79		70 - 130			01/26/24 11:33	01/31/24 11:14	1	
1,4-Difluorobenzene (Surr)	79		70 - 130			01/26/24 11:33	01/31/24 11:14	1	

Lab Sample ID: LCS 880-71692/1-A Matrix: Solid

Analysis Batch: 72000

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1010		mg/Kg		101	70 - 130	
Toluene	0.100	0.09485		mg/Kg		95	70 - 130	
Ethylbenzene	0.100	0.09005		mg/Kg		90	70 - 130	
m-Xylene & p-Xylene	0.200	0.1985		mg/Kg		99	70 - 130	
o-Xylene	0.100	0.1164		mg/Kg		116	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: LCSD 880-71692/2-A

Matrix: Solid

Analysis Batch: 72000							Prep	Batch:	71692
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09042		mg/Kg		90	70 - 130	11	35
Toluene	0.100	0.09201		mg/Kg		92	70 - 130	3	35
Ethylbenzene	0.100	0.09967		mg/Kg		100	70 - 130	10	35
m-Xylene & p-Xylene	0.200	0.2074		mg/Kg		104	70 - 130	4	35
o-Xylene	0.100	0.09905		mg/Kg		99	70 - 130	16	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 880-38301-A-1-B MS

Matrix: Solid

Analysis Batch: 72000									Prep	o Batch: 71692
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U F1	0.0990	0.09160		mg/Kg		93	70 - 130	
Toluene	<0.00199	U	0.0990	0.1016		mg/Kg		103	70 - 130	

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Prep Type: Total/NA

Client Sample ID: Matrix Spike

Job ID: 890-5982-1 SDG: 03C1558301

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 71692

1/31/2024

MS MS

0.1170

0.2324

0.1108

Result Qualifier

Unit

mg/Kg

mg/Kg

mg/Kg

Spike

Added

0.0990

0.198

0.0990

Limits 70 - 130

70 - 130

70 - 130

Client: Ensolum Project/Site: PLU 18 Brushy Draw TB

Lab Sample ID: 880-38301-A-1-B MS

Matrix: Solid

Analyte

o-Xylene

Surrogate

Ethylbenzene

m-Xylene & p-Xylene

Analysis Batch: 72000

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Sample Sample

<0.00199

<0.00398 U

<0.00199 U

Result Qualifier

U

MS MS

%Recovery Qualifier

115

107

77

Job ID: 890-5982-1 SDG: 03C1558301

Prep Type: Total/NA

Prep Batch: 71692

Client Sample ID: Matrix Spike

%Rec

Limits

70 - 130

70 - 130

70 - 130

%Rec

118

117

112

D

7

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

Client Sample ID: Method Blank

01/26/24 18:52

Client Sample ID: Lab Control Sample

01/19/24 17:02

Prep Type: Total/NA Prep Batch: 71251

Matrix: Solid Analysis Batch: 72000

Lab Sample ID: 880-38301-A-1-C MSD

Analysis Datch. 72000									Fieh	Datch.	11092	
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	<0.00199	U F1	0.0998	0.06629	F1	mg/Kg		66	70 - 130	32	35	
Toluene	<0.00199	U	0.0998	0.08918		mg/Kg		89	70 - 130	13	35	i
Ethylbenzene	<0.00199	U	0.0998	0.09755		mg/Kg		98	70 - 130	18	35	
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1780		mg/Kg		89	70 - 130	27	35	i
o-Xylene	<0.00199	U	0.0998	0.08585		mg/Kg		86	70 - 130	25	35	
	MSD	MSD										
Surrogate	%Recovery	Qualifier	Limits									
4-Bromofluorobenzene (Surr)	91		70 - 130									

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

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

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/19/24 17:02	01/26/24 18:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/19/24 17:02	01/26/24 18:52	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/19/24 17:02	01/26/24 18:52	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130			01/19/24 17:02	01/26/24 18:52	1

1-Chlorooctane	98	70 - 130
o-Terphenyl	119	70 - 130
_		

Lab Sample ID: LCS 880-71251/2-A Matrix: Solid -Inche Detak -

Analysis Batch: 71655							Prep B	atch: 71251
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	897.3		mg/Kg		90	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	864.5		mg/Kg		86	70 - 130	
C10-C28)								

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Prep Type: Total/NA

ep type. Pren Batch: 71692

Client: Ensolum Project/Site: PLU 18 Brushy Draw TB

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

	J	J · · · · (-/(-/(
Lab Sample ID: LCS 880-71251/2 Matrix: Solid	2-A						Client	t Sample	e ID: Lab Co Prep 1	ontrol Sa Type: To		
Analysis Batch: 71655									Prep	Batch:	71251	-
	1.05	LCS										5
Surrogate	%Recovery		Limits									
1-Chlorooctane	81	Quanner	70 - 130									
o-Terphenyl	103		70 - 130 70 - 130									
o-reiphenyi	105		70 - 750									7
Lab Sample ID: LCSD 880-71251	/3-A					Clie	nt Sam	nple ID:	Lab Contro	Sampl	e Dup	-
Matrix: Solid										ype: To		8
Analysis Batch: 71655										Batch:		
			Spike	LCSD	LCSD				%Rec		RPD	0
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	3
Gasoline Range Organics			1000	1085		mg/Kg		108	70 - 130	19	20	
(GRO)-C6-C10												
Diesel Range Organics (Over			1000	1149	*1	mg/Kg		115	70 - 130	28	20	
C10-C28)												
	LCSD	LCSD										
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	88		70 - 130									
o-Terphenyl	108		70 - 130									
Lab Sample ID: 890-5982-1 MS									Client Sar			
Matrix: Solid										Type: To		
Analysis Batch: 71655										Batch:	71251	
	-	Sample	Spike		MS				%Rec			
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits			
Gasoline Range Organics	<50.1	U	997	816.2		mg/Kg		79	70 - 130			
(GRO)-C6-C10 Diesel Range Organics (Over	<50.1	11 *1	997	998.9		mg/Kg		97	70 - 130			
C10-C28)	~ 50.1	0 1	551	990.9		my/ky		51	70 - 150			
0.00020)												
		MS										
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	88		70 - 130									
o-Terphenyl	89		70 - 130									
Lab Sample ID: 890-5982-1 MSD									Client Sar	nnle ID.	PH01	
Matrix: Solid										Type: To		
Analysis Batch: 71655										Batch:		
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	-	Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	<50.1		997	883.0		mg/Kg		86	70 - 130	8	20	
(GRO)-C6-C10						0.0						
Diesel Range Organics (Over	<50.1	U *1	997	1046		mg/Kg		102	70 - 130	5	20	
C10-C28)												

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

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Job ID: 890-5982-1

SDG: 03C1558301

Client: Ensolum

QC Sample Results

Job ID: 890-5982-1 SDG: 03C1558301

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-71219/1-A Matrix: Solid											Client	Sample ID: N Prep 1	/lethod Гуре: S	
Analysis Batch: 71364														
-		МВ	МВ											
Analyte	R	lesult	Qualifier		RL		Unit		D	Ρ	repared	Analyze	ed	Dil Fac
Chloride	~	<5.00	U		5.00		mg/Kg					01/22/24 1	8:57	,
Lab Sample ID: LCS 880-71219/2-A									Cl	ient	Sampl	e ID: Lab Co	ntrol S	Sample
Matrix: Solid													Type: S	
Analysis Batch: 71364														
				Spike		LCS	LCS					%Rec		
Analyte				Added		Result	Qualifier	Unit		D	%Rec	Limits		
Chloride				250		269.5		mg/Kg			108	90 _ 110		
Lab Sample ID: LCSD 880-71219/3-	-A							Cli	ent S	Sam	ple ID:	Lab Control	Samp	le Duj
Matrix: Solid											·		Type: S	
Analysis Batch: 71364														
				Spike		LCSD	LCSD					%Rec		RP
Analyte				Added		Result	Qualifier	Unit		D	%Rec	Limits	RPD	Lim
Chloride				250		267.9		mg/Kg			107	90 _ 110	1	2
Lab Sample ID: 890-5982-4 MS												Client Samp	ole ID:	PH02/
Matrix: Solid												Prep 1	Гуре: S	Solubl
Analysis Batch: 71364														
	Sample	Sam	ple	Spike		MS	MS					%Rec		
Analyte	Result	Qual	ifier	Added		Result	Qualifier	Unit		D	%Rec	Limits		
Chloride	73.6			251		346.1		mg/Kg			109	90 - 110		
Lab Sample ID: 890-5982-4 MSD Matrix: Solid												Client Samp Prep	ole ID: Type: S	
Analysis Batch: 71364														
	Sample		•	Spike		MSD						%Rec		RPI
Analyte	Rosult	Qual	ifier	Added				llmit				Limits	RPD	Lim
							Qualifier	Unit		<u>D</u>	%Rec			
Chloride	73.6			251		346.5	Qualifier	mg/Kg		D	109	90 - 110	0	2
-							Qualifier			_	109		0	
Lab Sample ID: MB 880-71220/1-A							Qualifier			_	109	90 - 110 Sample ID: N	0	l Blan
Lab Sample ID: MB 880-71220/1-A							Qualifier			_	109	90 - 110 Sample ID: N	0 Alethod	l Blan
Lab Sample ID: MB 880-71220/1-A Matrix: Solid		МВ	МВ				Qualifier			_	109	90 - 110 Sample ID: N	0 Alethod	l Blan
Lab Sample ID: MB 880-71220/1-A Matrix: Solid Analysis Batch: 71365 Analyte	73.6 R	MB Result	Qualifier		RL		Unit	mg/Kg	D	_	109	90 - 110 Sample ID: M Prep 7 Analyze	0 Method Гуре: S	l Blani Solubl Dil Fa
Lab Sample ID: MB 880-71220/1-A Matrix: Solid	73.6 R	МВ	Qualifier		RL 5.00			mg/Kg	D	_	109	90 - 110 Sample ID: N Prep 1	0 Method Гуре: S	l Blani Solubic Dil Fac
Lab Sample ID: MB 880-71220/1-A Matrix: Solid Analysis Batch: 71365 Analyte Chloride	73.6	MB Result	Qualifier				Unit	mg/Kg		P	109 Client	90 - 110 Sample ID: M Prep 7 Analyze 01/22/24 1	0 Aethod Type: S ed 6:11	l Blan Solubl Dil Fa
Lab Sample ID: MB 880-71220/1-A Matrix: Solid Analysis Batch: 71365 Analyte Chloride Lab Sample ID: LCS 880-71220/2-A	73.6	MB Result	Qualifier				Unit	mg/Kg		P	109 Client	90 - 110 Sample ID: N Prep 7 Analyze 01/22/24 1 e ID: Lab Co	Aethod Type: S ed 6:11 -	l Blan Solubl Dil Fa
Lab Sample ID: MB 880-71220/1-A Matrix: Solid Analysis Batch: 71365 Analyte Chloride Lab Sample ID: LCS 880-71220/2-A Matrix: Solid	73.6	MB Result	Qualifier				Unit	mg/Kg		P	109 Client	90 - 110 Sample ID: N Prep 7 Analyze 01/22/24 1 e ID: Lab Co	0 Aethod Type: S ed 6:11	l Blan Solubl Dil Fa
Lab Sample ID: MB 880-71220/1-A Matrix: Solid Analysis Batch: 71365 Analyte Chloride Lab Sample ID: LCS 880-71220/2-A	73.6	MB Result	Qualifier			346.5	Unit	mg/Kg		P	109 Client	90 - 110 Sample ID: N Prep 7 Analyze 01/22/24 1 e ID: Lab Co	Aethod Type: S ed 6:11 -	I Blani Solubi Dil Fa
Lab Sample ID: MB 880-71220/1-A Matrix: Solid Analysis Batch: 71365 Analyte Chloride Lab Sample ID: LCS 880-71220/2-A Matrix: Solid Analysis Batch: 71365	73.6	MB Result	Qualifier	251		346.5	Unit mg/Kg	mg/Kg		P	109 Client	90 - 110 Sample ID: N Prep 7 Analyze 01/22/24 1 e ID: Lab Co Prep 7	Aethod Type: S ed 6:11 -	I Blani Solubi Dil Fa
Lab Sample ID: MB 880-71220/1-A Matrix: Solid Analysis Batch: 71365 Analyte Chloride Lab Sample ID: LCS 880-71220/2-A Matrix: Solid Analysis Batch: 71365 Analyte	73.6	MB Result	Qualifier	251		346.5	Unit mg/Kg	mg/Kg		P	109 Client : repared Sampl	90 - 110 Sample ID: N Prep 7 	Aethod Type: S ed 6:11 -	l Blank Soluble Dil Fac
Lab Sample ID: MB 880-71220/1-A Matrix: Solid Analysis Batch: 71365 Analyte Chloride Lab Sample ID: LCS 880-71220/2-A Matrix: Solid Analysis Batch: 71365 Analyte Chloride	73.6	MB Result	Qualifier	251 Spike Added		346.5 LCS Result	Unit mg/Kg	Unit mg/Kg	Cli	Pi ient	109 Client : repared Sampl <u>%Rec</u> 97	90 - 110 Sample ID: N Prep 7 	0 Aethod Type: S ed 6:11 6:11 6:11 Fype: S	l Blan Solubl Dil Fa Sample Solubl
Lab Sample ID: MB 880-71220/1-A Matrix: Solid Analysis Batch: 71365 Analyte Chloride Lab Sample ID: LCS 880-71220/2-A Matrix: Solid Analysis Batch: 71365 Analyte Chloride Lab Sample ID: LCSD 880-71220/3-	73.6	MB Result	Qualifier	251 Spike Added		346.5 LCS Result	Unit mg/Kg	Unit mg/Kg	Cli	Pi ient	109 Client : repared Sampl <u>%Rec</u> 97	90 - 110 Sample ID: N Prep 1 	0 Aethod Type: S ad 6:11 	l Blan Solubl Dil Fa Sampl Solubl
Lab Sample ID: MB 880-71220/1-A Matrix: Solid Analysis Batch: 71365 Analyte Chloride Lab Sample ID: LCS 880-71220/2-A Matrix: Solid Analysis Batch: 71365 Analyte Chloride Lab Sample ID: LCSD 880-71220/3- Matrix: Solid	73.6	MB Result	Qualifier	251 Spike Added		346.5 LCS Result	Unit mg/Kg	Unit mg/Kg	Cli	Pi ient	109 Client : repared Sampl <u>%Rec</u> 97	90 - 110 Sample ID: N Prep 1 	0 Aethod Type: S ed 6:11 6:11 6:11 Fype: S	l Blani Solubi Dil Fa Sample Solubi
Lab Sample ID: MB 880-71220/1-A Matrix: Solid Analysis Batch: 71365 Analyte Chloride Lab Sample ID: LCS 880-71220/2-A Matrix: Solid Analysis Batch: 71365 Analyte Chloride Lab Sample ID: LCSD 880-71220/3- Matrix: Solid	73.6	MB Result	Qualifier	251 Spike Added		346.5 LCS Result	LCS Qualifier	Unit mg/Kg	Cli	Pi ient	109 Client : repared Sampl <u>%Rec</u> 97	90 - 110 Sample ID: N Prep 1 	0 Aethod Type: S ad 6:11 	Dil Fac Dil Fac Sample Soluble
Lab Sample ID: MB 880-71220/1-A Matrix: Solid Analysis Batch: 71365 Analyte Chloride Lab Sample ID: LCS 880-71220/2-A Matrix: Solid	73.6	MB Result	Qualifier	251 Spike Added 250		346.5 LCS Result 242.3 LCSD	LCS Qualifier	Unit mg/Kg	Cli	Pi ient	109 Client : repared Sampl <u>%Rec</u> 97	90 - 110 Sample ID: N Prep 7 Analyze 01/22/24 1 e ID: Lab Co Prep 7 %Rec Limits 90 - 110 Lab Control Prep 7	0 Aethod Type: S ad 6:11 	I Blank Soluble Dil Fae Sample Soluble

Client: Ensolum Project/Site: PLU 18 Brushy Draw TB

Method: 300.0 - Anions, Ion Chromatography

Matrix: Solid Analysis Batch: 71365 Prep Type: Soluble Analysis Batch: 71365 Sample Sample Spike MS MS %Rec Matrix: Matrix Matrix: Qualifier Unit D %Rec Limits													
SampleSampleSpikeMSMS%RecAnalyteResultQualifierAddedResultQualifierUnitD%RecLimitsChloride48.4248296.3mg/Kg10090 - 110for the second	Lab Sample ID: 890-5982-14 MS Matrix: Solid										-		
AnalyteResultQualifierAddedResultQualifierUnitD%RecLimitsChloride48.4248248296.3mg/Kg10090 - 11090 - 110.ab Sample ID: 890-5982-14 MSD Matrix: Solid Analysis Batch: 71365Client Sample ID: FS0 Prep Type: Soluble MSDPrep Type: Soluble MSDPrep Type: Soluble MSDMatrix:SampleSampleSpikeMSD%RecRP 	Analysis Batch: 71365												
hloride 48.4 248 296.3 mg/Kg 100 90 - 110 ab Sample ID: 890-5982-14 MSD fatrix: Solid malysis Batch: 71365 Sample Sample Sample Spike MSD MSD %Rec RP nalyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Lim		Sample	Sample	Spike	MS	MS				%Rec			
ab Sample ID: 890-5982-14 MSD Client Sample ID: FS0 atrix: Solid Prep Type: Solubi nalysis Batch: 71365 Sample Sample Spike MSD MSD %Rec RP nalyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Lim	-		Qualifier	Added	Result	Qualifier	Unit	D	%Rec				
atrix: Solid Prep Type: Soluble nalysis Batch: 71365 Sample Sample Sample Sample Spike MSD %Rec Result Qualifier Added Result Qualifier Unit D %Rec	loride	48.4		248	296.3		mg/Kg		100	90 - 110			
nalysis Batch: 71365 Sample Sample Spike MSD %Rec RP alyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limits	b Sample ID: 890-5982-14 MSD									Client Sa	mple ID:	FS06	
Sample Spike MSD MSD %Rec RP alyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limits	atrix: Solid									Prep	Type: So	oluble	
alyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Lim	alysis Batch: 71365												
		Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
iloride 48.4 248 296.6 mg/Kg 100 90 - 110 0 2	alyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
	loride	48.4		248	296.6		mg/Kg		100	90 - 110	0	20	

Client: Ensolum Project/Site: PLU 18 Brushy Draw TB Job ID: 890-5982-1 SDG: 03C1558301

GC VOA

Prep Batch: 71343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
390-5982-1	PH01	Total/NA	Solid	5035	
390-5982-2	PH01A	Total/NA	Solid	5035	
390-5982-10	FS02	Total/NA	Solid	5035	
890-5982-11	FS03	Total/NA	Solid	5035	
890-5982-12	FS04	Total/NA	Solid	5035	
890-5982-13	FS05	Total/NA	Solid	5035	
890-5982-14	FS06	Total/NA	Solid	5035	
390-5982-15	FS07	Total/NA	Solid	5035	
390-5982-16	SW01	Total/NA	Solid	5035	
MB 880-71343/5-A	Method Blank	Total/NA	Solid	5035	
_CS 880-71343/1-A	Lab Control Sample	Total/NA	Solid	5035	
_CSD 880-71343/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
380-38189-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
		T (1010	0 11 1	5005	
	Matrix Spike Duplicate	Total/NA	Solid	5035	
rep Batch: 71537					Prep Batch
ep Batch: 71537 .ab Sample ID	Client Sample ID SW02	Prep Type Total/NA	Matrix	5035 Method 5035	Prep Batch
rep Batch: 71537 ab Sample ID 390-5982-17	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
rep Batch: 71537 Lab Sample ID 390-5982-17 MB 880-71537/5-A	Client Sample ID SW02	Prep Type Total/NA	Matrix Solid	<u>Method</u> 5035	Prep Batch
rep Batch: 71537 Lab Sample ID 890-5982-17 MB 880-71537/5-A LCS 880-71537/1-A	Client Sample ID SW02 Method Blank	Prep Type Total/NA Total/NA	Matrix Solid Solid	Method 5035 5035	Prep Batch
rep Batch: 71537 Lab Sample ID 890-5982-17 MB 880-71537/5-A LCS 880-71537/1-A LCSD 880-71537/2-A	Client Sample ID SW02 Method Blank Lab Control Sample	Prep Type Total/NA Total/NA Total/NA	Matrix Solid Solid Solid	Method 5035 5035 5035 5035	Prep Batch
rep Batch: 71537 Lab Sample ID 890-5982-17 MB 880-71537/5-A LCS 880-71537/1-A LCSD 880-71537/2-A 890-5981-A-1-E MS	Client Sample ID SW02 Method Blank Lab Control Sample Lab Control Sample Dup	Prep Type Total/NA Total/NA Total/NA Total/NA	Matrix Solid Solid Solid Solid	Method 5035 5035 5035 5035 5035	Prep Batch
rep Batch: 71537 Lab Sample ID 390-5982-17 MB 880-71537/5-A _CS 880-71537/1-A _CSD 880-71537/2-A 390-5981-A-1-E MS 390-5981-A-1-F MSD	Client Sample ID SW02 Method Blank Lab Control Sample Lab Control Sample Dup Matrix Spike	Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA	Matrix Solid Solid Solid Solid Solid Solid	Method 5035 5035 5035 5035 5035 5035 5035	Prep Batch
rep Batch: 71537 Lab Sample ID 890-5982-17 MB 880-71537/5-A LCS 880-71537/1-A LCSD 880-71537/2-A 890-5981-A-1-E MS 890-5981-A-1-F MSD	Client Sample ID SW02 Method Blank Lab Control Sample Lab Control Sample Dup Matrix Spike	Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA	Matrix Solid Solid Solid Solid Solid Solid	Method 5035 5035 5035 5035 5035 5035 5035	Prep Batch
880-38189-A-1-C MSD rep Batch: 71537 Lab Sample ID 890-5982-17 MB 880-71537/5-A LCS 880-71537/1-A LCSD 880-71537/2-A 890-5981-A-1-E MS 890-5981-A-1-F MSD rep Batch: 71633 Lab Sample ID	Client Sample ID SW02 Method Blank Lab Control Sample Lab Control Sample Dup Matrix Spike Matrix Spike Duplicate Client Sample ID	Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Prep Type	Matrix Solid Solid Solid Solid Solid Solid Matrix	Method 5035 5035 5035 5035 5035 5035 5035 5035 5035	Prep Batch
rep Batch: 71537 Lab Sample ID 390-5982-17 MB 880-71537/5-A LCS 880-71537/1-A LCSD 880-71537/2-A 390-5981-A-1-E MS 390-5981-A-1-F MSD rep Batch: 71633 Lab Sample ID	Client Sample ID SW02 Method Blank Lab Control Sample Lab Control Sample Dup Matrix Spike Matrix Spike Duplicate	Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA	Matrix Solid Solid Solid Solid Solid Solid	Method 5035 5035 5035 5035 5035 5035 5035	
rep Batch: 71537 Lab Sample ID 890-5982-17 MB 880-71537/5-A LCS 880-71537/1-A LCSD 880-71537/2-A 890-5981-A-1-E MS 890-5981-A-1-F MSD rep Batch: 71633	Client Sample ID SW02 Method Blank Lab Control Sample Lab Control Sample Dup Matrix Spike Matrix Spike Duplicate Client Sample ID	Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Prep Type	Matrix Solid Solid Solid Solid Solid Solid Matrix	Method 5035 5035 5035 5035 5035 5035 5035 5035 5035	
rep Batch: 71537 Lab Sample ID 890-5982-17 MB 880-71537/5-A LCS 880-71537/1-A LCSD 880-71537/2-A 890-5981-A-1-E MS 890-5981-A-1-F MSD rep Batch: 71633 Lab Sample ID 890-5982-3	Client Sample ID SW02 Method Blank Lab Control Sample Lab Control Sample Dup Matrix Spike Matrix Spike Duplicate Client Sample ID PH02	Prep Type Total/NA Total/NA	Matrix Solid Solid Solid Solid Solid Solid Solid Matrix Solid	Method 5035 5035 5035 5035 5035 5035 5035 5035 5035 5035 5035 5035 5035 5035 5035	

890-5988-A-1-F MSD Prep Batch: 71690

MB 880-71633/5-A

LCS 880-71633/1-A

LCSD 880-71633/2-A

890-5988-A-1-E MS

Method Blank

Matrix Spike

Lab Control Sample

Lab Control Sample Dup

Matrix Spike Duplicate

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-71690/5-A	Method Blank	Total/NA	Solid	5035	

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Solid

Solid

Solid

Solid

Solid

5035

5035

5035

5035

5035

Prep Batch: 71692

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-5982-7	PH04	Total/NA	Solid	5035	
890-5982-8	PH04A	Total/NA	Solid	5035	
890-5982-9	FS01	Total/NA	Solid	5035	
MB 880-71692/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-71692/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-71692/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-38301-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-38301-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Client: Ensolum Project/Site: PLU 18 Brushy Draw TB

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Job ID: 890-5982-1 SDG: 03C1558301

GC VOA

Analysis Batch: 71764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5982-1	PH01	Total/NA	Solid	8021B	71343
890-5982-2	PH01A	Total/NA	Solid	8021B	71343
890-5982-10	FS02	Total/NA	Solid	8021B	71343
890-5982-11	FS03	Total/NA	Solid	8021B	71343
890-5982-12	FS04	Total/NA	Solid	8021B	71343
890-5982-13	FS05	Total/NA	Solid	8021B	71343
890-5982-14	FS06	Total/NA	Solid	8021B	71343
890-5982-15	FS07	Total/NA	Solid	8021B	71343
890-5982-16	SW01	Total/NA	Solid	8021B	71343
MB 880-71343/5-A	Method Blank	Total/NA	Solid	8021B	71343
MB 880-71690/5-A	Method Blank	Total/NA	Solid	8021B	71690
LCS 880-71343/1-A	Lab Control Sample	Total/NA	Solid	8021B	71343
LCSD 880-71343/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	71343
880-38189-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	71343
880-38189-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	71343

Lab Sample ID **Client Sample ID** Prep Type Matrix Method Prep Batch 890-5982-3 PH02 Total/NA 8021B Solid 71633 890-5982-4 PH02A Total/NA Solid 8021B 71633 890-5982-5 PH03 Total/NA Solid 8021B 71633 890-5982-6 PH03A Total/NA Solid 8021B 71633 Total/NA MB 880-71633/5-A Method Blank Solid 8021B 71633 LCS 880-71633/1-A Lab Control Sample Total/NA Solid 8021B 71633 8021B Total/NA Solid LCSD 880-71633/2-A Lab Control Sample Dup 71633 890-5988-A-1-E MS Matrix Spike Total/NA Solid 8021B 71633 890-5988-A-1-F MSD Matrix Spike Duplicate Total/NA Solid 8021B 71633

Analysis Batch: 71829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5982-1	PH01	Total/NA	Solid	Total BTEX	
890-5982-2	PH01A	Total/NA	Solid	Total BTEX	
890-5982-3	PH02	Total/NA	Solid	Total BTEX	
890-5982-4	PH02A	Total/NA	Solid	Total BTEX	
890-5982-5	PH03	Total/NA	Solid	Total BTEX	
890-5982-6	PH03A	Total/NA	Solid	Total BTEX	
890-5982-7	PH04	Total/NA	Solid	Total BTEX	
890-5982-8	PH04A	Total/NA	Solid	Total BTEX	
890-5982-9	FS01	Total/NA	Solid	Total BTEX	
890-5982-10	FS02	Total/NA	Solid	Total BTEX	
890-5982-11	FS03	Total/NA	Solid	Total BTEX	
890-5982-12	FS04	Total/NA	Solid	Total BTEX	
890-5982-13	FS05	Total/NA	Solid	Total BTEX	
890-5982-14	FS06	Total/NA	Solid	Total BTEX	
890-5982-15	FS07	Total/NA	Solid	Total BTEX	
890-5982-16	SW01	Total/NA	Solid	Total BTEX	
890-5982-17	SW02	Total/NA	Solid	Total BTEX	
nalysis Batch: 719	15				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
000 5000 47	014/00	T-+-1/NIA	0-11-1	0004D	74507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5982-17	SW02	Total/NA	Solid	8021B	71537

Client: Ensolum Project/Site: PLU 18 Brushy Draw TB

GC VOA (Continued)

Analysis Batch: 71915 (Continued)

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
MB 880-71537/5-A	Method Blank	Total/NA	Solid	8021B	71537
LCS 880-71537/1-A	Lab Control Sample	Total/NA	Solid	8021B	71537
LCSD 880-71537/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	71537
890-5981-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	71537
890-5981-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	71537
Analysis Batch: 72000					

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-5982-7	PH04	Total/NA	Solid	8021B	71692
890-5982-8	PH04A	Total/NA	Solid	8021B	71692
890-5982-9	FS01	Total/NA	Solid	8021B	71692
MB 880-71692/5-A	Method Blank	Total/NA	Solid	8021B	71692
LCS 880-71692/1-A	Lab Control Sample	Total/NA	Solid	8021B	71692
LCSD 880-71692/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	71692
880-38301-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	71692
880-38301-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	71692

GC Semi VOA

Prep Batch: 71251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
390-5982-1	PH01	Total/NA	Solid	8015NM Prep	
890-5982-2	PH01A	Total/NA	Solid	8015NM Prep	
390-5982-3	PH02	Total/NA	Solid	8015NM Prep	
890-5982-4	PH02A	Total/NA	Solid	8015NM Prep	
390-5982-5	PH03	Total/NA	Solid	8015NM Prep	
390-5982-6	PH03A	Total/NA	Solid	8015NM Prep	
390-5982-7	PH04	Total/NA	Solid	8015NM Prep	
390-5982-8	PH04A	Total/NA	Solid	8015NM Prep	
390-5982-9	FS01	Total/NA	Solid	8015NM Prep	
390-5982-10	FS02	Total/NA	Solid	8015NM Prep	
390-5982-11	FS03	Total/NA	Solid	8015NM Prep	
390-5982-12	FS04	Total/NA	Solid	8015NM Prep	
390-5982-13	FS05	Total/NA	Solid	8015NM Prep	
390-5982-14	FS06	Total/NA	Solid	8015NM Prep	
390-5982-15	FS07	Total/NA	Solid	8015NM Prep	
390-5982-16	SW01	Total/NA	Solid	8015NM Prep	
390-5982-17	SW02	Total/NA	Solid	8015NM Prep	
MB 880-71251/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-71251/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
_CSD 880-71251/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
390-5982-1 MS	PH01	Total/NA	Solid	8015NM Prep	
890-5982-1 MSD	PH01	Total/NA	Solid	8015NM Prep	

Analysis Batch: 71655

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-5982-1	PH01	Total/NA	Solid	8015B NM	71251
890-5982-2	PH01A	Total/NA	Solid	8015B NM	71251
890-5982-3	PH02	Total/NA	Solid	8015B NM	71251
890-5982-4	PH02A	Total/NA	Solid	8015B NM	71251
890-5982-5	PH03	Total/NA	Solid	8015B NM	71251

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Job ID: 890-5982-1 SDG: 03C1558301

Client: Ensolum Project/Site: PLU 18 Brushy Draw TB

GC Semi VOA (Continued)

Analysis Batch: 71655 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5982-6	PH03A	Total/NA	Solid	8015B NM	71251
890-5982-7	PH04	Total/NA	Solid	8015B NM	71251
890-5982-8	PH04A	Total/NA	Solid	8015B NM	71251
890-5982-9	FS01	Total/NA	Solid	8015B NM	71251
890-5982-10	FS02	Total/NA	Solid	8015B NM	71251
890-5982-11	FS03	Total/NA	Solid	8015B NM	71251
890-5982-12	FS04	Total/NA	Solid	8015B NM	71251
890-5982-13	FS05	Total/NA	Solid	8015B NM	71251
890-5982-14	FS06	Total/NA	Solid	8015B NM	71251
890-5982-15	FS07	Total/NA	Solid	8015B NM	71251
890-5982-16	SW01	Total/NA	Solid	8015B NM	71251
890-5982-17	SW02	Total/NA	Solid	8015B NM	71251
MB 880-71251/1-A	Method Blank	Total/NA	Solid	8015B NM	71251
LCS 880-71251/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	71251
LCSD 880-71251/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	71251
890-5982-1 MS	PH01	Total/NA	Solid	8015B NM	71251
890-5982-1 MSD	PH01	Total/NA	Solid	8015B NM	71251

Analysis Batch: 71888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5982-1	PH01	Total/NA	Solid	8015 NM	
890-5982-2	PH01A	Total/NA	Solid	8015 NM	
890-5982-3	PH02	Total/NA	Solid	8015 NM	
890-5982-4	PH02A	Total/NA	Solid	8015 NM	
890-5982-5	PH03	Total/NA	Solid	8015 NM	
890-5982-6	PH03A	Total/NA	Solid	8015 NM	
890-5982-7	PH04	Total/NA	Solid	8015 NM	
890-5982-8	PH04A	Total/NA	Solid	8015 NM	
890-5982-9	FS01	Total/NA	Solid	8015 NM	
890-5982-10	FS02	Total/NA	Solid	8015 NM	
890-5982-11	FS03	Total/NA	Solid	8015 NM	
890-5982-12	FS04	Total/NA	Solid	8015 NM	
890-5982-13	FS05	Total/NA	Solid	8015 NM	
890-5982-14	FS06	Total/NA	Solid	8015 NM	
890-5982-15	FS07	Total/NA	Solid	8015 NM	
890-5982-16	SW01	Total/NA	Solid	8015 NM	
890-5982-17	SW02	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 71219

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-5982-1	PH01	Soluble	Solid	DI Leach	
890-5982-2	PH01A	Soluble	Solid	DI Leach	
890-5982-3	PH02	Soluble	Solid	DI Leach	
890-5982-4	PH02A	Soluble	Solid	DI Leach	
890-5982-5	PH03	Soluble	Solid	DI Leach	
890-5982-6	PH03A	Soluble	Solid	DI Leach	
890-5982-7	PH04	Soluble	Solid	DI Leach	
890-5982-8	PH04A	Soluble	Solid	DI Leach	
890-5982-9	FS01	Soluble	Solid	DI Leach	

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Job ID: 890-5982-1 SDG: 03C1558301

Client: Ensolum Project/Site: PLU 18 Brushy Draw TB

HPLC/IC (Continued)

Leach Batch: 71219 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5982-10	FS02	Soluble	Solid	DI Leach	
890-5982-11	FS03	Soluble	Solid	DI Leach	
890-5982-12	FS04	Soluble	Solid	DI Leach	
890-5982-13	FS05	Soluble	Solid	DI Leach	
MB 880-71219/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-71219/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-71219/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5982-4 MS	PH02A	Soluble	Solid	DI Leach	
890-5982-4 MSD	PH02A	Soluble	Solid	DI Leach	
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Leach Batch: 71220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
890-5982-14	FS06	Soluble	Solid	DI Leach		
890-5982-15	FS07	Soluble	Solid	DI Leach		
890-5982-16	SW01	Soluble	Solid	DI Leach		
890-5982-17	SW02	Soluble	Solid	DI Leach		
MB 880-71220/1-A	Method Blank	Soluble	Solid	DI Leach		
LCS 880-71220/2-A	Lab Control Sample	Soluble	Solid	DI Leach		
LCSD 880-71220/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach		
890-5982-14 MS	FS06	Soluble	Solid	DI Leach		
890-5982-14 MSD	FS06	Soluble	Solid	DI Leach		

Analysis Batch: 71364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5982-1	PH01	Soluble	Solid	300.0	71219
890-5982-2	PH01A	Soluble	Solid	300.0	71219
890-5982-3	PH02	Soluble	Solid	300.0	71219
890-5982-4	PH02A	Soluble	Solid	300.0	71219
890-5982-5	PH03	Soluble	Solid	300.0	71219
890-5982-6	PH03A	Soluble	Solid	300.0	71219
890-5982-7	PH04	Soluble	Solid	300.0	71219
890-5982-8	PH04A	Soluble	Solid	300.0	71219
890-5982-9	FS01	Soluble	Solid	300.0	71219
890-5982-10	FS02	Soluble	Solid	300.0	71219
890-5982-11	FS03	Soluble	Solid	300.0	71219
890-5982-12	FS04	Soluble	Solid	300.0	71219
890-5982-13	FS05	Soluble	Solid	300.0	71219
MB 880-71219/1-A	Method Blank	Soluble	Solid	300.0	71219
LCS 880-71219/2-A	Lab Control Sample	Soluble	Solid	300.0	71219
LCSD 880-71219/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	71219
890-5982-4 MS	PH02A	Soluble	Solid	300.0	71219
890-5982-4 MSD	PH02A	Soluble	Solid	300.0	71219

Analysis Batch: 71365

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-5982-14	FS06	Soluble	Solid	300.0	71220
890-5982-15	FS07	Soluble	Solid	300.0	71220
890-5982-16	SW01	Soluble	Solid	300.0	71220
890-5982-17	SW02	Soluble	Solid	300.0	71220
MB 880-71220/1-A	Method Blank	Soluble	Solid	300.0	71220
LCS 880-71220/2-A	Lab Control Sample	Soluble	Solid	300.0	71220

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Job ID: 890-5982-1

SDG: 03C1558301

QC Association Summary

Client: Ensolum Project/Site: PLU 18 Brushy Draw TB

HPLC/IC (Continued)

Analysis Batch: 71365 (Continued)

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch	
LCSD 880-71220/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	71220	
890-5982-14 MS	FS06	Soluble	Solid	300.0	71220	
890-5982-14 MSD	FS06	Soluble	Solid	300.0	71220	

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Job ID: 890-5982-1 SDG: 03C1558301

Lab Sample ID: 890-5982-1 Matrix: Solid

Lab Sample ID: 890-5982-2

Date Collected: 01/17/24 09:30 Date Received: 01/17/24 16:35

Client Sample ID: PH01

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	71343	01/22/24 14:55	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71764	01/29/24 12:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71829	01/29/24 12:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			71888	01/26/24 19:59	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	71251	01/19/24 17:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71655	01/26/24 19:59	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	71219	01/19/24 14:36	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	71364	01/22/24 20:32	SMC	EET MID

Client Sample ID: PH01A

Date Collected: 01/17/24 09:40

Date Received: 01/17/24 16:35

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	71343	01/22/24 14:55	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71764	01/29/24 12:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71829	01/29/24 12:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			71888	01/26/24 21:05	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	71251	01/19/24 17:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71655	01/26/24 21:05	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	71219	01/19/24 14:36	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71364	01/22/24 20:39	SMC	EET MID

Client Sample ID: PH02

Date Collected: 01/17/24 09:45

Date Received: 01/17/24 16:35

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	71633	01/25/24 18:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71772	01/30/24 05:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71829	01/30/24 05:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			71888	01/26/24 21:27	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	71251	01/19/24 17:02	ткс	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71655	01/26/24 21:27	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	71219	01/19/24 14:36	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	71364	01/22/24 20:46	SMC	EET MID

Client Sample ID: PH02A Date Collected: 01/17/24 09:55 Date Received: 01/17/24 16:35

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	71633	01/29/24 10:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71772	01/30/24 05:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71829	01/30/24 05:32	SM	EET MID

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Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-5982-3 Matrix: Solid

Lab Sample ID: 890-5982-4

Job ID: 890-5982-1 SDG: 03C1558301

Lab Sample ID: 890-5982-4 Matrix: Solid

Lab Sample ID: 890-5982-5

Date Collected: 01/17/24 09:55 Date Received: 01/17/24 16:35

Client Sample ID: PH02A

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			71888	01/26/24 21:48	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	71251	01/19/24 17:02	ткс	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71655	01/26/24 21:48	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	71219	01/19/24 14:36	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71364	01/22/24 20:53	SMC	EET MID

Client Sample ID: PH03

Date Collected: 01/17/24 10:30 Date Received: 01/17/24 16:35

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	71633	01/29/24 10:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71772	01/30/24 05:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71829	01/30/24 05:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			71888	01/26/24 22:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	71251	01/19/24 17:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71655	01/26/24 22:11	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	71219	01/19/24 14:36	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71364	01/22/24 21:13	SMC	EET MID

Client Sample ID: PH03A

Date Collected: 01/17/24 10:35 Date Received: 01/17/24 16:35

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	71633	01/29/24 10:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71772	01/30/24 06:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71829	01/30/24 06:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			71888	01/26/24 22:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	71251	01/19/24 17:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71655	01/26/24 22:34	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	71219	01/19/24 14:36	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71364	01/22/24 21:20	SMC	EET MID

Client Sample ID: PH04

Date Collected: 01/17/24 10:55 Date Received: 01/17/24 16:35

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	71692	01/26/24 11:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72000	01/31/24 11:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71829	01/31/24 11:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			71888	01/26/24 22:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	71251	01/19/24 17:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71655	01/26/24 22:57	SM	EET MID

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Lab Sample ID: 890-5982-6

Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-5982-7 Matrix: Solid

Lab Chronicle

Job ID: 890-5982-1 SDG: 03C1558301

Lab Sample ID: 890-5982-7 Matrix: Solid

Lab Sample ID: 890-5982-8

Lab Sample ID: 890-5982-9

Date Collected: 01/17/24 10:55 Date Received: 01/17/24 16:35

Client Sample ID: PH04

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	71219	01/19/24 14:36	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	71364	01/22/24 21:41	SMC	EET MID

Client Sample ID: PH04A

Date Collected: 01/17/24 11:00 Date Received: 01/17/24 16:35

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	71692	01/26/24 11:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72000	01/31/24 12:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71829	01/31/24 12:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			71888	01/26/24 23:19	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	71251	01/19/24 17:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71655	01/26/24 23:19	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	71219	01/19/24 14:36	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71364	01/22/24 21:47	SMC	EET MID

Client Sample ID: FS01 Date Collected: 01/17/24 13:40 Date Received: 01/17/24 16:35

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	71692	01/26/24 11:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72000	01/31/24 12:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71829	01/31/24 12:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			71888	01/26/24 23:40	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	71251	01/19/24 17:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71655	01/26/24 23:40	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	71219	01/19/24 14:36	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71364	01/22/24 21:54	SMC	EET MID

Client Sample ID: FS02 Date Collected: 01/17/24 13:45

Lab Sample ID: 890-5982-10 Matrix: Solid

Date Received: 01/17/24 16:35

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	71343	01/22/24 14:55	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71764	01/29/24 17:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71829	01/29/24 17:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			71888	01/27/24 00:04	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	71251	01/19/24 17:02	ткс	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71655	01/27/24 00:04	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	71219	01/19/24 14:36	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71364	01/22/24 22:01	SMC	EET MID

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Matrix: Solid

Matrix: Solid

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Batch

Туре

Prep

Analysis

Analysis

Analysis

Analysis

Analysis

Leach

Prep

Batch

Method

5035

8021B

Total BTEX

8015NM Prep

8015B NM

DI Leach

300.0

8015 NM

Client Sample ID: FS03

Date Collected: 01/17/24 13:50

Date Received: 01/17/24 16:35

Client: Ensolum

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Soluble

Soluble

Initial

Amount

5.02 g

5 mL

10.00 g

1 uL

4.96 g

50 mL

Final

Amount

5 mL

5 mL

10 mL

1 uL

50 mL

50 mL

Batch

71343

71764

71829

71888

71251

71655

71219

71364

Number

Dil

1

1

1

1

1

Factor

Run

Job ID: 890-5982-1 SDG: 03C1558301

Lab Sample ID: 890-5982-11

Analyst

EL

MNR

SM

SM

ткс

SM

SA

SMC

Prepared

or Analyzed

01/22/24 14:55

01/29/24 17:55

01/29/24 17:55

01/27/24 00:49

01/19/24 17:02

01/27/24 00:49

01/19/24 14:36

01/22/24 22:08

Matrix: Solid

Lab

EET MID

Matrix: Solid

5 9

Lab Sample ID: 890-5982-12 Matrix: Solid

Lab Sample ID: 890-5982-13

Lab Sample ID: 890-5982-14

_	
-	3

Date Collected: 01/17/24 14:00

Client Sample ID: FS04

Date Received: 01/17/24 16:35

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	71343	01/22/24 14:55	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71764	01/29/24 18:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71829	01/29/24 18:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			71888	01/27/24 01:12	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	71251	01/19/24 17:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71655	01/27/24 01:12	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	71219	01/19/24 14:36	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71364	01/22/24 22:15	SMC	EET MID

Client Sample ID: FS05

Date Collected: 01/17/24 14:10 Date Received: 01/17/24 16:35

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	71343	01/22/24 14:55	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71764	01/29/24 18:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71829	01/29/24 18:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			71888	01/27/24 01:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	71251	01/19/24 17:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71655	01/27/24 01:33	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	71219	01/19/24 14:36	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71364	01/22/24 22:22	SMC	EET MID

Client Sample ID: FS06 Date Collected: 01/17/24 14:15 Date Received: 01/17/24 16:35

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	71343	01/22/24 14:55	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71764	01/29/24 18:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71829	01/29/24 18:57	SM	EET MID

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Matrix: Solid

Batch

Туре

Prep

Analysis

Analysis

Analysis

Leach

Batch

Method

8015 NM

8015NM Prep

8015B NM

DI Leach

300.0

Client Sample ID: FS06

Date Collected: 01/17/24 14:15

Date Received: 01/17/24 16:35

Client: Ensolum

Prep Type

Total/NA

Total/NA

Total/NA

Soluble

Soluble

Initial

Amount

9.94 g

1 uL

5.04 g

50 mL

Final

Amount

10 mL

1 uL

50 mL

50 mL

Batch

71888

71251

71655

71220

71365

Number

Dil

1

1

1

Factor

Run

Job ID: 890-5982-1 SDG: 03C1558301

Lab Sample ID: 890-5982-14

SM

SM

SA

SMC

Lab Sample ID: 890-5982-15

Lab Sample ID: 890-5982-16

Lab Sample ID: 890-5982-17

Prepared

or Analyzed

01/27/24 01:56

01/19/24 17:02

01/27/24 01:56

01/19/24 14:41

01/22/24 16:26

Matrix: Solid

EET MID

EET MID

EET MID

Matrix: Solid

Matrix: Solid

Matrix: Solid

Analyst Lab EET MID TKC EET MID

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Client Sample ID: FS07 Date Collected: 01/17/24 14:20

Date Received: 01/17/24 16:35

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	71343	01/22/24 14:55	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71764	01/29/24 19:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71829	01/29/24 19:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			71888	01/27/24 02:19	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	71251	01/19/24 17:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71655	01/27/24 02:19	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	71220	01/19/24 14:41	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71365	01/22/24 16:42	SMC	EET MID

Client Sample ID: SW01

Date Collected: 01/17/24 14:25 Date Received: 01/17/24 16:35

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	71343	01/22/24 14:55	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71764	01/29/24 19:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71829	01/29/24 19:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			71888	01/27/24 02:41	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	71251	01/19/24 17:02	ткс	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71655	01/27/24 02:41	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	71220	01/19/24 14:41	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71365	01/22/24 16:47	SMC	EET MID

Client Sample ID: SW02

Date Collected: 01/17/24 14:30 Date Received: 01/17/24 16:35

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	71537	01/24/24 15:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71915	01/30/24 13:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71829	01/30/24 13:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			71888	01/27/24 03:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	71251	01/19/24 17:02	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71655	01/27/24 03:03	SM	EET MID

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Lab Chronicle

Job ID: 890-5982-1 SDG: 03C1558301

Client Sample ID: SW02 Date Collected: 01/17/24 14:30

Date Received: 01/17/24 16:35

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared			
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab	Ę
Soluble	Leach	DI Leach			5.01 g	50 mL	71220	01/19/24 14:41	SA	EET MID	_
Soluble	Analysis	300.0		1	50 mL	50 mL	71365	01/22/24 16:52	SMC	EET MID	

Laboratory References:

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

Lab Sample ID: 890-5982-17 Matrix: Solid

ent: Ensolum					Job ID: 890-5982-1	-
oject/Site: PLU 18 Brush	וy Draw TB				SDG: 03C1558301	
boratory: Eurofins	Midland					
ess otherwise noted, all analy	tes for this laboratory were o	overed under each accredit	tation/certification below.			
uthority	Progra	am	Identification Number	Expiration Date		
exas	NELAF	2	T104704400-23-26	06-30-24		Ì
The following analytes a	are included in this report, bu	it the laboratory is not certif	ied by the governing authority. This lis	t may include analytes		
• •	oes not offer certification.	-		, <u>.</u>		
Analysis Method	Prep Method	Matrix	Analyte			
8015 NM Total BTEX		Solid Solid	Total TPH Total BTEX			
		Solia				

Client: Ensolum

Job ID: 890-5982-1 SDG: 03C1558301

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 Refe	rences:		
ASTM = A	STM 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 Re	eferences:		
EET MID =	= Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440		

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Sample Summary

Client: Ensolum Project/Site: PLU 18 Brushy Draw TB

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-5982-1	PH01	Solid	01/17/24 09:30	01/17/24 16:35	0.5'
890-5982-2	PH01A	Solid	01/17/24 09:40	01/17/24 16:35	2'
890-5982-3	PH02	Solid	01/17/24 09:45	01/17/24 16:35	0.5'
890-5982-4	PH02A	Solid	01/17/24 09:55	01/17/24 16:35	2'
890-5982-5	PH03	Solid	01/17/24 10:30	01/17/24 16:35	0.5'
390-5982-6	PH03A	Solid	01/17/24 10:35	01/17/24 16:35	1'
890-5982-7	PH04	Solid	01/17/24 10:55	01/17/24 16:35	0.5'
890-5982-8	PH04A	Solid	01/17/24 11:00	01/17/24 16:35	1'
890-5982-9	FS01	Solid	01/17/24 13:40	01/17/24 16:35	1'
390-5982-10	FS02	Solid	01/17/24 13:45	01/17/24 16:35	1'
390-5982-11	FS03	Solid	01/17/24 13:50	01/17/24 16:35	1'
390-5982-12	FS04	Solid	01/17/24 14:00	01/17/24 16:35	1'
90-5982-13	FS05	Solid	01/17/24 14:10	01/17/24 16:35	1'
390-5982-14	FS06	Solid	01/17/24 14:15	01/17/24 16:35	1'
390-5982-15	FS07	Solid	01/17/24 14:20	01/17/24 16:35	1'
390-5982-16	SW01	Solid	01/17/24 14:25	01/17/24 16:35	0-1'
890-5982-17	SW02	Solid	01/17/24 14:30	01/17/24 16:35	0-1'

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Page Comments wrfields RR Sr/UST TRR Sr/UST TR Preser None: NO None: NO None: NO HclJ: Hc H ₂ Po4,: Hp Na ₂ S20;: NAS Na ₂ S20;: NAS NA NAPNO C0(1,1, C0(7, C0(7, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10	🐝 eurofins	fins Environment Testing		Crain of Custody Houston, TX (281) 240-4200. Dates. TX (214) 902-0500 Midland, TX (432) 704-5440. San Antonio, TX (210) 509-3334 EL Paso, TX (915) 885-3443. Lubbook, TX (805) 794-1286 Hobbs. NM (575) 382-7550. Cartisbad, NM (575) 988-3198 Little Rock, AR (501) 224-5060	890-5982 Chain of Custody	
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Loc: 890 5982 Page 71 of 123

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Chain of Custody

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Revised Date: 06/25/2020 Rev. 2020 2

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14

Job Number: 890-5982-1 SDG Number: 03C1558301

List Source: Eurofins Carlsbad

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 5982 List Number: 1 Creator: Lopez, Abraham

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	

Job Number: 890-5982-1 SDG Number: 03C1558301

List Source: Eurofins Midland

List Creation: 01/19/24 03:48 PM

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 5982 List Number: 2 Creator: Rodriguez, Leticia

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

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

Received by OCD: 2/20/2024 3:46:53 PM



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701 Generated 2/1/2024 12:45:43 PM

JOB DESCRIPTION

PLU 18 Brushy Draw TB 03C1558301

JOB NUMBER

890-5992-1

RT OR Belill Ium I St. 400 701

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

See page two for job notes and contact information

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

AMER

Generated 2/1/2024 12:45:43 PM

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

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

Laboratory Job ID: 890-5992-1 SDG: 03C1558301

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	Definitions/Glossary		
Client: Ensol		Job ID: 890-5992-1	
Project/Site:	PLU 18 Brushy Draw TB	SDG: 03C1558301	
Qualifiers			3
GC VOA			
Qualifier	Qualifier Description		
*+	LCS and/or LCSD is outside acceptance limits, high biased.		
S1-	Surrogate recovery exceeds control limits, low biased.		5
U	Indicates the analyte was analyzed for but not detected.		
GC Semi VO	A		
Qualifier	Qualifier Description		
S1+	Surrogate recovery exceeds control limits, high biased.		
U	Indicates the analyte was analyzed for but not detected.		
HPLC/IC			8
Qualifier	Qualifier Description		
U	Indicates the analyte was analyzed for but not detected.		9
Glossary			10
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		40
DER	Duplicate Error Ratio (normalized absolute difference)		13
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)		

MDA Minimum Detectable Activity (Radiochemistry)

EPA recommended "Maximum Contaminant Level"

- MDC Minimum Detectable Concentration (Radiochemistry)
- MDLMethod Detection LimitMLMinimum Level (Dioxin)MPNMost Probable NumberMQLMethod Quantitation Limit

MCL

- 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)
- TEQToxicity Equivalent Quotient (Dioxin)TNTCToo Numerous To Count

Case Narrative

Job ID: 890-5992-1

quality control (QC) is further explained in narrative comments.

Job ID: 890-5992-1

Eurofins Carlsbad

Job Narrative 890-5992-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

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

Receipt

The samples were received on 1/18/2024 3:24 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 2.4°C

Receipt Exceptions

method.

The following samples were received and analyzed from an unpreserved bulk soil jar: FS08 (890-5992-1), FS09 (890-5992-2) FS10 (890-5992-3), FS11 (890-5992-4), FS12 (890-5992-5), FS13 (890-5992-6), SW03 (890-5992-7), FS14 (890-5992-8), FS15 (890-5992-9), FS16 (890-5992-10), FS17 (890-5992-11), FS18 (890-5992-12), FS19 (890-5992-13), SW04 (890-5992-14) and SW05 (890-5992-15).

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-71537 and 880-71635 and analytical batch 880-71915 was outside the control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: FS14 (890-5992-8) and FS16 (890-5992-10). 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 880-71915 recovered over the higher control limit for Benzene, Toluene, Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were ran within 12 hours of passing CCV; therefore, the data have been reported.

Method 8021B: Surrogate recovery for the following samples were outside control limits: FS19 (890-5992-13) and SW04 (890-5992-14). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-71635 and analytical batch 880-71915 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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 880-71509 and analytical batch 880-71993 was outside the upper control limits.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: FS08 (890-5992-1), FS10 (890-5992-3) and FS11 (890-5992-4). 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: SW03 (890-5992-7), FS14 (890-5992-8) and FS19 (890-5992-13). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The method blank for preparation batch 880-71509 and analytical batch 880-71993 contained Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte

Client: Ensolum Project: PLU 18 Brushy Draw TB

Job ID: 890-5992-1

Eurofins Carlsbad

Job ID: 890-5992-1 (Continued)

concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

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

HPLC/IC

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

Client Sample Results

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Job ID: 890-5992-1 SDG: 03C1558301

Matrix: Solid

Lab Sample ID: 890-5992-1

Client Sample ID: FS08 Date Collected: 01/18/24 08:30

Client: Ensolum

Date Received: 01/18/24 15:24

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		01/25/24 18:02	01/30/24 21:50	1
Toluene	<0.00201	U	0.00201	mg/Kg		01/25/24 18:02	01/30/24 21:50	1
Ethylbenzene	<0.00201	U *+	0.00201	mg/Kg		01/25/24 18:02	01/30/24 21:50	1
n-Xylene & p-Xylene	<0.00402	U *+	0.00402	mg/Kg		01/25/24 18:02	01/30/24 21:50	
o-Xylene	<0.00201	U *+	0.00201	mg/Kg		01/25/24 18:02	01/30/24 21:50	
Kylenes, Total	<0.00402	U *+	0.00402	mg/Kg		01/25/24 18:02	01/30/24 21:50	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	75		70 - 130			01/25/24 18:02	01/30/24 21:50	
1,4-Difluorobenzene (Surr)	83		70 - 130			01/25/24 18:02	01/30/24 21:50	
Method: TAL SOP Total BTEX - T								
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
fotal BTEX	<0.00402	U	0.00402	mg/Kg			01/30/24 21:50	
Method: SW846 8015 NM - Diese								
Analyte Total TPH		Qualifier		Unit	D	Prepared	Analyzed 01/31/24 10:47	Dil Fa
lethod: SW846 8015B NM - Dies		nice (DRO)		mg/Kg				
Analyte	• •	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics	<49.6		49.6	mg/Kg		01/24/24 10:27	01/31/24 10:47	
GRO)-C6-C10		-						
Diesel Range Organics (Over 210-C28)	<49.6	U	49.6	mg/Kg		01/24/24 10:27	01/31/24 10:47	
Oll Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		01/24/24 10:27	01/31/24 10:47	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
-Chlorooctane	134	S1+	70 - 130			01/24/24 10:27	01/31/24 10:47	
p-Terphenyl	105		70 - 130			01/24/24 10:27	01/31/24 10:47	
Method: EPA 300.0 - Anions, Ion	Chromatograp	ohy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	78.8		5.02	mg/Kg			01/24/24 09:57	
ient Sample ID: FS09						Lab Sar	nple ID: 890-	5992-2
te Collected: 01/18/24 08:35							Matri	x: Soli
ate Received: 01/18/24 15:24								
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC))					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00199	U	0.00199	mg/Kg		01/25/24 18:02	01/30/24 22:10	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/25/24 18:02	01/30/24 22:10	1
Ethylbenzene	<0.00199	U *+	0.00199	mg/Kg		01/25/24 18:02	01/30/24 22:10	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398	mg/Kg		01/25/24 18:02	01/30/24 22:10	1
o-Xylene	<0.00199	U *+	0.00199	mg/Kg		01/25/24 18:02	01/30/24 22:10	1
Xylenes, Total	<0.00398	U *+	0.00398	mg/Kg		01/25/24 18:02	01/30/24 22:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130			01/25/24 18:02	01/30/24 22:10	1
1,4-Difluorobenzene (Surr)	81		70 - 130			01/25/24 18:02	01/30/24 22:10	1

Client Sample Results

Job ID: 890-5992-1 SDG: 03C1558301

Matrix: Solid

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Lab Sample ID: 890-5992-2

Client Sample ID: FS09

Client: Ensolum

Date Collected: 01/18/24 08:35 Date Received: 01/18/24 15:24

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/30/24 22:10	1
Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			01/31/24 11:50	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.7	U	49.7	mg/Kg		01/24/24 10:27	01/31/24 11:50	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.7	U	49.7	mg/Kg		01/24/24 10:27	01/31/24 11:50	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		01/24/24 10:27	01/31/24 11:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130			01/24/24 10:27	01/31/24 11:50	1
o-Terphenyl	91		70 - 130			01/24/24 10:27	01/31/24 11:50	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.4		5.03	mg/Kg			01/24/24 10:12	1

Date Collected: 01/18/24 08:40 Date Received: 01/18/24 15:24 ab Sample ID: 890-5992-3 Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/25/24 18:02	01/30/24 22:31	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/25/24 18:02	01/30/24 22:31	1
Ethylbenzene	<0.00199	U *+	0.00199	mg/Kg		01/25/24 18:02	01/30/24 22:31	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398	mg/Kg		01/25/24 18:02	01/30/24 22:31	1
o-Xylene	<0.00199	U *+	0.00199	mg/Kg		01/25/24 18:02	01/30/24 22:31	1
Xylenes, Total	<0.00398	U *+	0.00398	mg/Kg		01/25/24 18:02	01/30/24 22:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130			01/25/24 18:02	01/30/24 22:31	1
1,4-Difluorobenzene (Surr)	85		70 - 130			01/25/24 18:02	01/30/24 22:31	1

Method: TAL SOP Total BTEX - Total BTEX Calculation Analyte Result Qualifier RL D Unit Prepared Analyzed Dil Fac Total BTEX <0.00398 U 0.00398 mg/Kg 01/30/24 22:31 1 Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL Unit D Analyzed Dil Fac Prepared Total TPH <49.5 U 01/31/24 12:12 49.5 mg/Kg 1 Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac 1

					-	
Gasoline Range Organics	<49.5 U	49.5	mg/Kg	01/24/24 10:27	01/31/24 12:12	
(GRO)-C6-C10						
Diesel Range Organics (Over	<49.5 U	49.5	mg/Kg	01/24/24 10:27	01/31/24 12:12	
C10-C28)						

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Released to Imaging: 4/22/2024 2:45:18 PM

Client Sample Results

Job ID: 890-5992-1 SDG: 03C1558301

Matrix: Solid

Matrix: Solid

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Client Sample ID: FS10 Date Collected: 01/18/24 08:40

Client: Ensolum

Date Received: 01/18/24 15:24

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.5	U	49.5	mg/Kg		01/24/24 10:27	01/31/24 12:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	148	S1+	70 - 130			01/24/24 10:27	01/31/24 12:12	1
o-Terphenyl	118		70 - 130			01/24/24 10:27	01/31/24 12:12	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	57.9		4.97	mg/Kg			01/24/24 10:18	1

Client Sample ID: FS11

Date Collected: 01/18/24 08:45

Date Received: 01/18/24 15:24

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00200	U	0.00200	mg/Kg		01/25/24 18:02	01/30/24 22:51	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/25/24 18:02	01/30/24 22:51	1
Ethylbenzene	<0.00200	U *+	0.00200	mg/Kg		01/25/24 18:02	01/30/24 22:51	1
m-Xylene & p-Xylene	<0.00399	U *+	0.00399	mg/Kg		01/25/24 18:02	01/30/24 22:51	1
o-Xylene	<0.00200	U *+	0.00200	mg/Kg		01/25/24 18:02	01/30/24 22:51	1
Xylenes, Total	<0.00399	U *+	0.00399	mg/Kg		01/25/24 18:02	01/30/24 22:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130			01/25/24 18:02	01/30/24 22:51	1
1,4-Difluorobenzene (Surr)	77		70 - 130			01/25/24 18:02	01/30/24 22:51	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			01/30/24 22:51	1

Method: SW846 8015 NM - Diesel	l Range Organics (DRO) (G	C)					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U	49.9	mg/Kg			01/31/24 12:33	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		01/24/24 10:27	01/31/24 12:33	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		01/24/24 10:27	01/31/24 12:33	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/24/24 10:27	01/31/24 12:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	138	S1+	70 - 130			01/24/24 10:27	01/31/24 12:33	1
o-Terphenyl	108		70 - 130			01/24/24 10:27	01/31/24 12:33	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	35.5		4.97	mg/Kg			01/24/24 10:23	1

Lab Sample ID: 890-5992-3

Released to Imaging: 4/22/2024 2:45:18 PM

Client Sample Results

Job ID: 890-5992-1 SDG: 03C1558301

Lab Sample ID: 890-5992-5

Client Sample ID: FS12 Date Collected: 01/18/24 08:50

Client: Ensolum

Date Received: 01/18/24 15:24

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		01/25/24 18:02	01/30/24 23:12	
Toluene	<0.00201	U	0.00201	mg/Kg		01/25/24 18:02	01/30/24 23:12	
Ethylbenzene	<0.00201	U *+	0.00201	mg/Kg		01/25/24 18:02	01/30/24 23:12	
m-Xylene & p-Xylene	<0.00402	U *+	0.00402	mg/Kg		01/25/24 18:02	01/30/24 23:12	
o-Xylene	<0.00201	U *+	0.00201	mg/Kg		01/25/24 18:02	01/30/24 23:12	
Xylenes, Total	<0.00402	U *+	0.00402	mg/Kg		01/25/24 18:02	01/30/24 23:12	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	79		70 - 130			01/25/24 18:02	01/30/24 23:12	3
1,4-Difluorobenzene (Surr)	77		70 - 130			01/25/24 18:02	01/30/24 23:12	1
Method: TAL SOP Total BTEX - 1								
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			01/30/24 23:12	
Method: SW846 8015 NM - Diese								
Analyte Total TPH	Result <49.6	Qualifier	RL 49.6	Unit mg/Kg	D	Prepared	Analyzed 01/31/24 12:55	Dil Fa
Method: SW846 8015B NM - Dies Analyte		nics (DRO) Qualifier	(GC) RL	Unit	D	Prepared	Analyzed	Dil Fa
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6	mg/Kg		01/24/24 10:27	01/31/24 12:55	
Diesel Range Organics (Over	<49.6	U	49.6	mg/Kg		01/24/24 10:27	01/31/24 12:55	
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		01/24/24 10:27	01/31/24 12:55	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	127		70 - 130			01/24/24 10:27	01/31/24 12:55	
o-Terphenyl	96		70 - 130			01/24/24 10:27	01/31/24 12:55	
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	245		4.96	mg/Kg			01/24/24 10:28	
lient Sample ID: FS13						Lab San	nple ID: 890-	5992-6
ate Collected: 01/18/24 09:35 ate Received: 01/18/24 15:24							Matri	x: Solie
	Ormania Carro							
Method: SW846 8021B - Volatile	organic comp	ounus (GC)					

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00200	U	0.00200	mg/Kg		01/25/24 18:02	01/30/24 23:32	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/25/24 18:02	01/30/24 23:32	1
Ethylbenzene	<0.00200	U *+	0.00200	mg/Kg		01/25/24 18:02	01/30/24 23:32	1
m-Xylene & p-Xylene	<0.00401	U *+	0.00401	mg/Kg		01/25/24 18:02	01/30/24 23:32	1
o-Xylene	<0.00200	U *+	0.00200	mg/Kg		01/25/24 18:02	01/30/24 23:32	1
Xylenes, Total	<0.00401	U *+	0.00401	mg/Kg		01/25/24 18:02	01/30/24 23:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130			01/25/24 18:02	01/30/24 23:32	1
1,4-Difluorobenzene (Surr)	80		70 - 130			01/25/24 18:02	01/30/24 23:32	1

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Matrix: Solid

Job ID: 890-5992-1 SDG: 03C1558301

Matrix: Solid

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Lab Sample ID: 890-5992-6

Client Sample ID: FS13

Client: Ensolum

Date Collected: 01/18/24 09:35 Date Received: 01/18/24 15:24

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			01/30/24 23:32	1
Method: SW846 8015 NM - Diesel	Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2	mg/Kg			01/31/24 13:28	1
Method: SW846 8015B NM - Diese	el Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.2	U	50.2	mg/Kg		01/24/24 10:27	01/31/24 13:28	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.2	U	50.2	mg/Kg		01/24/24 10:27	01/31/24 13:28	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.2	U	50.2	mg/Kg		01/24/24 10:27	01/31/24 13:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130			01/24/24 10:27	01/31/24 13:28	1
o-Terphenyl	92		70 - 130			01/24/24 10:27	01/31/24 13:28	1
Method: EPA 300.0 - Anions, Ion (Chromatograp	hy - Solubl	le					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	379		4.99	mg/Kg			01/24/24 10:43	1

Client Sample ID: SW03

Date Collected: 01/18/24 09:40 Date Received: 01/18/24 15:24

Lab Sample ID: 890-5992-7 Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/25/24 18:02	01/30/24 23:53	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/25/24 18:02	01/30/24 23:53	1
Ethylbenzene	<0.00199	U *+	0.00199	mg/Kg		01/25/24 18:02	01/30/24 23:53	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398	mg/Kg		01/25/24 18:02	01/30/24 23:53	1
o-Xylene	<0.00199	U *+	0.00199	mg/Kg		01/25/24 18:02	01/30/24 23:53	1
Xylenes, Total	<0.00398	U *+	0.00398	mg/Kg		01/25/24 18:02	01/30/24 23:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130			01/25/24 18:02	01/30/24 23:53	1
1,4-Difluorobenzene (Surr)	83		70 - 130			01/25/24 18:02	01/30/24 23:53	1

Method: TAL SOP Total BTEX - Total BTEX Calculation Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac 0.00398 Total BTEX <0.00398 U mg/Kg 01/30/24 23:53 1 Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL Unit D Analyzed Dil Fac Prepared Total TPH <50.5 U 50.5 01/31/24 13:49 mg/Kg 1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac <50.5 U 50.5 01/24/24 10:27 01/31/24 13:49 Gasoline Range Organics mg/Kg 1 (GRO)-C6-C10 <50.5 U 50.5 01/24/24 10:27 01/31/24 13:49 Diesel Range Organics (Over mg/Kg 1 C10-C28)

Client Sample Results

Job ID: 890-5992-1 SDG: 03C1558301

Matrix: Solid

Matrix: Solid

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12 13

Lab Sample ID: 890-5992-7

Client Sample ID: SW03 Date Collected: 01/18/24 09:40

Date Received: 01/18/24 15:24

Client: Ensolum

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		01/24/24 10:27	01/31/24 13:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	146	S1+	70 - 130			01/24/24 10:27	01/31/24 13:49	1
o-Terphenyl	114		70 - 130			01/24/24 10:27	01/31/24 13:49	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubi	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride			4.95	mg/Kg			01/24/24 10:48	1

Date Collected: 01/18/24 09:45

Date Received: 01/18/24 15:24

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00199	U	0.00199	mg/Kg		01/25/24 18:02	01/31/24 00:13	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/25/24 18:02	01/31/24 00:13	1
Ethylbenzene	<0.00199	U *+	0.00199	mg/Kg		01/25/24 18:02	01/31/24 00:13	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398	mg/Kg		01/25/24 18:02	01/31/24 00:13	1
o-Xylene	<0.00199	U *+	0.00199	mg/Kg		01/25/24 18:02	01/31/24 00:13	1
Xylenes, Total	<0.00398	U *+	0.00398	mg/Kg		01/25/24 18:02	01/31/24 00:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130			01/25/24 18:02	01/31/24 00:13	1
1,4-Difluorobenzene (Surr)	69	S1-	70 - 130			01/25/24 18:02	01/31/24 00:13	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/31/24 00:13	1

	Method: SW846 8015 NM - Diesel R	Range Organi	ics (DRO) (G	SC)					
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
L	Total TPH	<49.7	U	49.7	mg/Kg			01/31/24 14:11	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.7	U	49.7	mg/Kg		01/24/24 10:27	01/31/24 14:11	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.7	U	49.7	mg/Kg		01/24/24 10:27	01/31/24 14:11	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		01/24/24 10:27	01/31/24 14:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	148	S1+	70 - 130			01/24/24 10:27	01/31/24 14:11	1
o-Terphenyl	118		70 - 130			01/24/24 10:27	01/31/24 14:11	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	ohy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	122		5.01	mg/Kg			01/24/24 10:54	1

Client Sample Results

Client: Ensolum Project/Site: PLU 18 Brushy Draw TB

Client Sample ID: FS15 Date Collected: 01/18/24 09:50

Date Received: 01/18/24 15:24

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/25/24 18:02	01/31/24 00:34	
Toluene	<0.00200	U	0.00200	mg/Kg		01/25/24 18:02	01/31/24 00:34	
Ethylbenzene	<0.00200	U *+	0.00200	mg/Kg		01/25/24 18:02	01/31/24 00:34	1
m-Xylene & p-Xylene	<0.00399	U *+	0.00399	mg/Kg		01/25/24 18:02	01/31/24 00:34	1
o-Xylene	<0.00200	U *+	0.00200	mg/Kg		01/25/24 18:02	01/31/24 00:34	1
Xylenes, Total	<0.00399	U *+	0.00399	mg/Kg		01/25/24 18:02	01/31/24 00:34	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	79		70 - 130			01/25/24 18:02	01/31/24 00:34	
1,4-Difluorobenzene (Surr)	76		70 - 130			01/25/24 18:02	01/31/24 00:34	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			01/31/24 00:34	1
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			01/31/24 14:33	1
			· · · ·		_			
Analyte	Result	Qualifier		Unit	<u>D</u>	Prepared	Analyzed	
Analyte Gasoline Range Organics		Qualifier	· · · ·	Unit mg/Kg	<u>D</u>	Prepared 01/24/24 10:27	Analyzed 01/31/24 14:33	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U			<u>D</u>			1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.7	Qualifier U U	RL 49.7	mg/Kg	<u> </u>	01/24/24 10:27	01/31/24 14:33	Dil Fac 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.7 <49.7	Qualifier U U U	RL 49.7 49.7	mg/Kg mg/Kg	<u> </u>	01/24/24 10:27	01/31/24 14:33	1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <49.7 <49.7 <49.7	Qualifier U U U	RL 49.7 49.7 49.7 49.7	mg/Kg mg/Kg	<u>D</u>	01/24/24 10:27 01/24/24 10:27 01/24/24 10:27	01/31/24 14:33 01/31/24 14:33 01/31/24 14:33	1 1 1 Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result <49.7 <49.7 <49.7 <49.7 %Recovery	Qualifier U U U	RL 49.7 49.7 49.7 Limits	mg/Kg mg/Kg	<u> </u>	01/24/24 10:27 01/24/24 10:27 01/24/24 10:27 <i>Prepared</i>	01/31/24 14:33 01/31/24 14:33 01/31/24 14:33 01/31/24 14:33 Analyzed	1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) DII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane p-Terphenyl	Result <49.7 <49.7 <49.7 <49.7 %Recovery 127 97	Qualifier U U Qualifier	RL 49.7 49.7 49.7 Limits 70 - 130 70 - 130	mg/Kg mg/Kg	<u> </u>	01/24/24 10:27 01/24/24 10:27 01/24/24 10:27 Prepared 01/24/24 10:27	01/31/24 14:33 01/31/24 14:33 01/31/24 14:33 01/31/24 14:33 <u>Analyzed</u> 01/31/24 14:33	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: EPA 300.0 - Anions, Ion	Result <49.7	Qualifier U U Qualifier	RL 49.7 49.7 49.7 Limits 70 - 130 70 - 130	mg/Kg mg/Kg	D	01/24/24 10:27 01/24/24 10:27 01/24/24 10:27 Prepared 01/24/24 10:27	01/31/24 14:33 01/31/24 14:33 01/31/24 14:33 01/31/24 14:33 <u>Analyzed</u> 01/31/24 14:33	1
Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) DII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane b-Terphenyl Method: EPA 300.0 - Anions, Ion Analyte	Result <49.7	Qualifier U U Qualifier	RL 49.7 49.7 49.7	mg/Kg mg/Kg mg/Kg		01/24/24 10:27 01/24/24 10:27 01/24/24 10:27 Prepared 01/24/24 10:27 01/24/24 10:27	01/31/24 14:33 01/31/24 14:33 01/31/24 14:33 01/31/24 14:33 <i>Analyzed</i> 01/31/24 14:33 01/31/24 14:33	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane p-Terphenyl Method: EPA 300.0 - Anions, Ion Analyte Chloride	Result <49.7	Qualifier U U Qualifier	RL 49.7 49.7 49.7 <u>Limits</u> 70 - 130 70 - 130 RL	mg/Kg mg/Kg mg/Kg Unit		01/24/24 10:27 01/24/24 10:27 01/24/24 10:27 Prepared 01/24/24 10:27 01/24/24 10:27 01/24/24 10:27 Prepared	01/31/24 14:33 01/31/24 14:33 01/31/24 14:33 01/31/24 14:33 <i>Analyzed</i> 01/31/24 14:33 01/31/24 14:33	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <49.7	Qualifier U U Qualifier	RL 49.7 49.7 49.7 <u>Limits</u> 70 - 130 70 - 130 RL	mg/Kg mg/Kg mg/Kg Unit		01/24/24 10:27 01/24/24 10:27 01/24/24 10:27 Prepared 01/24/24 10:27 01/24/24 10:27 01/24/24 10:27 Prepared	01/31/24 14:33 01/31/24 14:33 01/31/24 14:33 Analyzed 01/31/24 14:33 01/31/24 14:33 01/31/24 14:33 01/31/24 14:33 Analyzed 01/24/24 10:59 ple ID: 890-5	Dil Fac

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		01/25/24 18:02	01/31/24 00:54	1
Toluene	<0.00201	U	0.00201	mg/Kg		01/25/24 18:02	01/31/24 00:54	1
Ethylbenzene	<0.00201	U *+	0.00201	mg/Kg		01/25/24 18:02	01/31/24 00:54	1
m-Xylene & p-Xylene	<0.00402	U *+	0.00402	mg/Kg		01/25/24 18:02	01/31/24 00:54	1
o-Xylene	<0.00201	U *+	0.00201	mg/Kg		01/25/24 18:02	01/31/24 00:54	1
Xylenes, Total	<0.00402	U *+	0.00402	mg/Kg		01/25/24 18:02	01/31/24 00:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130			01/25/24 18:02	01/31/24 00:54	1
1,4-Difluorobenzene (Surr)	68	S1-	70 - 130			01/25/24 18:02	01/31/24 00:54	1

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Job ID: 890-5992-1

SDG: 03C1558301

Lab Sample ID: 890-5992-9

Matrix: Solid

Released to Imaging: 4/22/2024 2:45:18 PM

Job ID: 890-5992-1 SDG: 03C1558301

Lab Sample ID: 890-5992-10

Client Sample ID: FS16

Client: Ensolum

Date Collected: 01/18/24 09:55 Date Received: 01/18/24 15:24

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			01/31/24 00:54	1
Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			01/31/24 14:54	
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.7	U	49.7	mg/Kg		01/24/24 10:27	01/31/24 14:54	
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.7	U	49.7	mg/Kg		01/24/24 10:27	01/31/24 14:54	
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		01/24/24 10:27	01/31/24 14:54	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	128		70 - 130			01/24/24 10:27	01/31/24 14:54	
o-Terphenyl	98		70 - 130			01/24/24 10:27	01/31/24 14:54	
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	• •	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.30		4.99	mg/Kg			01/24/24 11:04	

Client Sample ID: FS17

Date Collected: 01/18/24 10:00 Date Received: 01/18/24 15:24

890-5992-11 Sample ID: Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/25/24 18:02	01/31/24 02:17	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/25/24 18:02	01/31/24 02:17	1
Ethylbenzene	<0.00200	U *+	0.00200	mg/Kg		01/25/24 18:02	01/31/24 02:17	1
m-Xylene & p-Xylene	<0.00401	U *+	0.00401	mg/Kg		01/25/24 18:02	01/31/24 02:17	1
o-Xylene	<0.00200	U *+	0.00200	mg/Kg		01/25/24 18:02	01/31/24 02:17	1
Xylenes, Total	<0.00401	U *+	0.00401	mg/Kg		01/25/24 18:02	01/31/24 02:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130			01/25/24 18:02	01/31/24 02:17	1
1,4-Difluorobenzene (Surr)	82		70 - 130			01/25/24 18:02	01/31/24 02:17	1

Method: TAL SOP Total BTEX - Total BTEX Calculation Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Total BTEX <0.00401 U 0.00401 mg/Kg 01/31/24 02:17 1 Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL Unit D Analyzed Dil Fac Prepared Total TPH <50.4 U 01/31/24 15:37 50.4 mg/Kg 1 Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RI Unit п Prepared Analyzed Dil Fac

Analyte	Result	Quanner		onic	ricparca	Analyzea	Dirruc
Gasoline Range Organics	<50.4	U	50.4	mg/Kg	 01/24/24 10:27	01/31/24 15:37	1
(GRO)-C6-C10							
Diesel Range Organics (Over	<50.4	U	50.4	mg/Kg	01/24/24 10:27	01/31/24 15:37	1
C10-C28)							

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Matrix: Solid

Job ID: 890-5992-1 SDG: 03C1558301

Matrix: Solid

5

Lab Sample ID: 890-5992-11

Client Sample ID: FS17 Date Collected: 01/18/24 10:00

Client: Ensolum

Date Received: 01/18/24 15:24

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg		01/24/24 10:27	01/31/24 15:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane			70 - 130			01/24/24 10:27	01/31/24 15:37	1
o-Terphenyl	90		70 - 130			01/24/24 10:27	01/31/24 15:37	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.6		5.05	mg/Kg			01/24/24 11:09	1
Client Sample ID: FS18						Lab Sam	ple ID: 890-5	992-12
ate Collected: 01/18/24 10:05							Matri	x: Solid
Date Received: 01/18/24 15:24								

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00199	U	0.00199	mg/Kg		01/25/24 18:02	01/31/24 02:38	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/25/24 18:02	01/31/24 02:38	1
Ethylbenzene	<0.00199	U *+	0.00199	mg/Kg		01/25/24 18:02	01/31/24 02:38	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398	mg/Kg		01/25/24 18:02	01/31/24 02:38	1
o-Xylene	<0.00199	U *+	0.00199	mg/Kg		01/25/24 18:02	01/31/24 02:38	1
Xylenes, Total	<0.00398	U *+	0.00398	mg/Kg		01/25/24 18:02	01/31/24 02:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130			01/25/24 18:02	01/31/24 02:38	1
1,4-Difluorobenzene (Surr)	72		70 - 130			01/25/24 18:02	01/31/24 02:38	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/31/24 02:38	1
_								

	Method: SW846 8015 NM - Diesel Ra	ange Organi	ics (DRO) (GO	C)					
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
L	Total TPH	<50.5	U	50.5	mg/Kg			01/31/24 15:58	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.5	U	50.5	mg/Kg		01/24/24 10:27	01/31/24 15:58	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.5	U	50.5	mg/Kg		01/24/24 10:27	01/31/24 15:58	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		01/24/24 10:27	01/31/24 15:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	127		70 - 130			01/24/24 10:27	01/31/24 15:58	1
o-Terphenyl	96		70 - 130			01/24/24 10:27	01/31/24 15:58	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.02	U	5.02	mg/Kg			01/24/24 11:24	1

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Client Sample Results

Client: Ensolum Project/Site: PLU 18 Brushy Draw TB

Client Sample ID: FS19

Date Collected: 01/18/24 10:20 Date Received: 01/18/24 15:24

	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/25/24 18:02	01/31/24 02:58	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/25/24 18:02	01/31/24 02:58	1
Ethylbenzene	<0.00199	U *+	0.00199	mg/Kg		01/25/24 18:02	01/31/24 02:58	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398	mg/Kg		01/25/24 18:02	01/31/24 02:58	1
o-Xylene	<0.00199	U *+	0.00199	mg/Kg		01/25/24 18:02	01/31/24 02:58	1
Xylenes, Total	<0.00398	U *+	0.00398	mg/Kg		01/25/24 18:02	01/31/24 02:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130			01/25/24 18:02	01/31/24 02:58	1
1,4-Difluorobenzene (Surr)	68	S1-	70 - 130			01/25/24 18:02	01/31/24 02:58	1
Method: TAL SOP Total BTEX -	Total BTEX Calo	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/31/24 02:58	1
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4	mg/Kg			01/31/24 16:19	1
				mg/rtg			0.00.021.00.00	
 Method: SW846 8015B NM - Die	sel Range Orga	nics (DRO)		mgridg			0.00.021.101.10	
Method: SW846 8015B NM - Die Analyte		<mark>INICS (DRO)</mark> Qualifier		Unit	D	Prepared	Analyzed	Dil Fac
		Qualifier	(GC)		<u>D</u>	Prepared 01/24/24 10:27		Dil Fac
Analyte	Result	Qualifier	(GC)	Unit	<u>D</u>		Analyzed	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U	(GC)	Unit	<u>D</u>		Analyzed	
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <50.4	Qualifier U U	(GC) <u>RL</u> <u>50.4</u>	Unit mg/Kg	<u> </u>	01/24/24 10:27	Analyzed 01/31/24 16:19	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.4 <50.4	Qualifier U U U	(GC) <u>RL</u> 50.4 50.4	Unit mg/Kg mg/Kg	<u>D</u>	01/24/24 10:27	Analyzed 01/31/24 16:19 01/31/24 16:19	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.4 <50.4 <50.4	Qualifier U U U Qualifier	(GC) <u>RL</u> 50.4 50.4 50.4	Unit mg/Kg mg/Kg	<u>D</u>	01/24/24 10:27 01/24/24 10:27 01/24/24 10:27	Analyzed 01/31/24 16:19 01/31/24 16:19 01/31/24 16:19	1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <50.4	Qualifier U U U Qualifier	(GC) <u>RL</u> 50.4 50.4 50.4 Limits	Unit mg/Kg mg/Kg	<u>D</u>	01/24/24 10:27 01/24/24 10:27 01/24/24 10:27 Prepared	Analyzed 01/31/24 16:19 01/31/24 16:19 01/31/24 16:19 Analyzed	1 1 1 Dil Fac 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <50.4	Qualifier U U Q Qualifier S1+	(GC) <u>RL</u> 50.4 50.4 50.4 <u>Limits</u> 70 - 130 70 - 130	Unit mg/Kg mg/Kg	<u>D</u>	01/24/24 10:27 01/24/24 10:27 01/24/24 10:27 01/24/24 10:27 Prepared 01/24/24 10:27	Analyzed 01/31/24 16:19 01/31/24 16:19 01/31/24 16:19 Analyzed 01/31/24 16:19	1 1 1 <i>Dil Fac</i>
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result <50.4	Qualifier U U Q Qualifier S1+	(GC) <u>RL</u> 50.4 50.4 50.4 <u>Limits</u> 70 - 130 70 - 130	Unit mg/Kg mg/Kg	D	01/24/24 10:27 01/24/24 10:27 01/24/24 10:27 01/24/24 10:27 Prepared 01/24/24 10:27	Analyzed 01/31/24 16:19 01/31/24 16:19 01/31/24 16:19 Analyzed 01/31/24 16:19	1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: EPA 300.0 - Anions, Ior	Result <50.4	Qualifier U U Q Qualifier S1+	(GC) <u>RL</u> 50.4 50.4 50.4 <u>Limits</u> 70 - 130 70 - 130	Unit mg/Kg mg/Kg mg/Kg		01/24/24 10:27 01/24/24 10:27 01/24/24 10:27 Prepared 01/24/24 10:27 01/24/24 10:27	Analyzed 01/31/24 16:19 01/31/24 16:19 01/31/24 16:19 Analyzed 01/31/24 16:19 01/31/24 16:19	1 1 1 Dil Fac 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: EPA 300.0 - Anions, Ior Analyte	Result <50.4	Qualifier U U Q Qualifier S1+	(GC) <u>RL</u> 50.4 50.4 <u>Limits</u> 70 - 130 70 - 130 70 - 130 RL	Unit mg/Kg mg/Kg mg/Kg		01/24/24 10:27 01/24/24 10:27 01/24/24 10:27 Prepared 01/24/24 10:27 01/24/24 10:27 01/24/24 10:27 Prepared	Analyzed 01/31/24 16:19 01/31/24 16:19 01/31/24 16:19 Analyzed 01/31/24 16:19 01/31/24 16:19 Analyzed	1 1 Dil Fac

Method: SW846 8021B	- Volatile Organi	ic Compounds (GC)	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/25/24 18:02	01/31/24 03:19	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/25/24 18:02	01/31/24 03:19	1
Ethylbenzene	<0.00200	U *+	0.00200	mg/Kg		01/25/24 18:02	01/31/24 03:19	1
m-Xylene & p-Xylene	<0.00399	U *+	0.00399	mg/Kg		01/25/24 18:02	01/31/24 03:19	1
o-Xylene	<0.00200	U *+	0.00200	mg/Kg		01/25/24 18:02	01/31/24 03:19	1
Xylenes, Total	<0.00399	U *+	0.00399	mg/Kg		01/25/24 18:02	01/31/24 03:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130			01/25/24 18:02	01/31/24 03:19	1
1,4-Difluorobenzene (Surr)	62	S1-	70 - 130			01/25/24 18:02	01/31/24 03:19	1

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Job ID: 890-5992-1 SDG: 03C1558301

Lab Sample ID: 890-5992-13

Matrix: Solid

Released to Imaging: 4/22/2024 2:45:18 PM

Job ID: 890-5992-1 SDG: 03C1558301

Lab Sample ID: 890-5992-14

Client Sample ID: SW04

Client: Ensolum

Date Collected: 01/18/24 10:10 Date Received: 01/18/24 15:24

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			01/31/24 03:19	1
Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			01/31/24 16:40	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8	mg/Kg		01/24/24 10:27	01/31/24 16:40	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.8	U	49.8	mg/Kg		01/24/24 10:27	01/31/24 16:40	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		01/24/24 10:27	01/31/24 16:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	128		70 - 130			01/24/24 10:27	01/31/24 16:40	1
o-Terphenyl	99		70 - 130			01/24/24 10:27	01/31/24 16:40	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hv - Solubl	e					
Analyte	•••	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	141		4.97	mg/Kg			01/24/24 11:45	1

Client Sample ID: SW05

Date Collected: 01/18/24 10:15 Date Received: 01/18/24 15:24

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		01/25/24 18:02	01/31/24 03:39	1
Toluene	<0.00201	U	0.00201	mg/Kg		01/25/24 18:02	01/31/24 03:39	1
Ethylbenzene	<0.00201	U *+	0.00201	mg/Kg		01/25/24 18:02	01/31/24 03:39	1
m-Xylene & p-Xylene	<0.00402	U *+	0.00402	mg/Kg		01/25/24 18:02	01/31/24 03:39	1
o-Xylene	<0.00201	U *+	0.00201	mg/Kg		01/25/24 18:02	01/31/24 03:39	1
Xylenes, Total	<0.00402	U *+	0.00402	mg/Kg		01/25/24 18:02	01/31/24 03:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130			01/25/24 18:02	01/31/24 03:39	1
1,4-Difluorobenzene (Surr)	71		70 - 130			01/25/24 18:02	01/31/24 03:39	1

Method: TAL SOP Total BTEX - Total BTEX Calculation Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Total BTEX <0.00402 U 0.00402 mg/Kg 01/31/24 03:39 1 Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL Unit D Analyzed Dil Fac Prepared Total TPH <49.9 U 01/31/24 17:01 49.9 mg/Kg 1 Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		01/24/24 10:27	01/31/24 17:01	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		01/24/24 10:27	01/31/24 17:01	1
C10-C28)								

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Matrix: Solid

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Lab Sample ID: 890-5992-15 Matrix: Solid

Client Sample Results

Client: Ensolum Project/Site: PLU 18 Brushy Draw TB

Client Sample ID: SW05

Date Collected: 01/18/24 10:15 Date Received: 01/18/24 15:24

Job ID: 890-5992-1 SDG: 03C1558301

Lab Sample ID: 890-5992-15

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/24/24 10:27	01/31/24 17:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130			01/24/24 10:27	01/31/24 17:01	1
o-Terphenyl	93		70 - 130			01/24/24 10:27	01/31/24 17:01	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	ohy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride			4.97	mg/Kg			01/24/24 11:50	1

Client: Ensolum Project/Site: PLU 18 Brushy Draw TB

Method: 8021B - Volatile Organic Compounds (GC) Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		5
890-5992-1	FS08	75	83		
890-5992-1 MS	FS08	119	97		6
890-5992-1 MSD	FS08	120	104		
890-5992-2	FS09	82	81		
890-5992-3	FS10	82	85		
890-5992-4	FS11	78	77		8
890-5992-5	FS12	79	77		
890-5992-6	FS13	79	80		9
890-5992-7	SW03	81	83		3
890-5992-8	FS14	86	69 S1-		
890-5992-9	FS15	79	76		
890-5992-10	FS16	93	68 S1-		
890-5992-11	FS17	77	82		
890-5992-12	FS18	100	72		
890-5992-13	FS19	84	68 S1-		
890-5992-14	SW04	86	62 S1-		
890-5992-15	SW05	92	71		13
LCS 880-71635/1-A	Lab Control Sample	112	99		
LCSD 880-71635/2-A	Lab Control Sample Dup	117	83		
MB 880-71537/5-A	Method Blank	67 S1-	88		
MB 880-71635/5-A	Method Blank	68 S1-	88		

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

1CO1 Lab Sample ID **Client Sample ID** (70-130) 890-5992-1 FS08 134 S1+

•	•		
890-5992-1	FS08	134 S1+	105
890-5992-1 MS	FS08	125	85
890-5992-1 MSD	FS08	123	84
890-5992-2	FS09	120	91
890-5992-3	FS10	148 S1+	118
890-5992-4	FS11	138 S1+	108
890-5992-5	FS12	127	96
890-5992-6	FS13	121	92
890-5992-7	SW03	146 S1+	114
890-5992-8	FS14	148 S1+	118
890-5992-9	FS15	127	97
890-5992-10	FS16	128	98
890-5992-11	FS17	114	90
890-5992-12	FS18	127	96
890-5992-13	FS19	132 S1+	105
890-5992-14	SW04	128	99
890-5992-15	SW05	120	93
LCS 880-71509/2-A	Lab Control Sample	95	80

OTPH1

(70-130)

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

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Prep Type: Total/NA

Surrogate Summary Client: Ensolum Job ID: 890-5992-1 Project/Site: PLU 18 Brushy Draw TB SDG: 03C1558301 Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued) Matrix: Solid Prep Type: Total/NA Percent Surrogate Recovery (Acceptance Limits) 1CO1 OTPH1 5 Lab Sample ID Client Sample ID (70-130) (70-130) LCSD 880-71509/3-A Lab Control Sample Dup 102 95 MB 880-71509/1-A Method Blank 140 S1+ 113 6 Surrogate Legend 1CO = 1-Chlorooctane OTPH = o-Terphenyl

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-71537/5-A Matrix: Solid	L.								Client Sa	mple ID: Metho Prep Type:	Total/NA
Analysis Batch: 71915										Prep Batc	h: 71537
Analyta		3 MB It Qualifier	Ы		L In	.14		Б	repored	Apolyzod	
Analyte Benzene	<0.0020		RL 0.00200		Ur		<u>D</u>		repared 4/24 15:35	Analyzed 01/30/24 10:46	Dil Fac
Toluene	<0.0020		0.00200		-	g/Kg g/Kg			4/24 15:35	01/30/24 10:46	1
Ethylbenzene	<0.0020		0.00200		-	g/Kg g/Kg			4/24 15:35	01/30/24 10:46	1
	<0.0020		0.00200						4/24 15:35	01/30/24 10:46	
m-Xylene & p-Xylene						g/Kg				01/30/24 10:46	1
o-Xylene	<0.0020		0.00200		-	g/Kg			4/24 15:35		-
Xylenes, Total	<0.0040	5 0	0.00400		mç	g/Kg		01/2	4/24 15:35	01/30/24 10:46	1
	M	3 <i>MB</i>									
Surrogate	%Recover		Limits					P	repared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	6	7 S1-	70 - 130					01/2	4/24 15:35	01/30/24 10:46	1
1,4-Difluorobenzene (Surr)	8	8	70 - 130					01/2	4/24 15:35	01/30/24 10:46	1
- Lab Sample ID: MB 880-71635/5-A									Client Sa	mple ID: Metho	od Blank
Matrix: Solid										Prep Type:	
Analysis Batch: 71915										Prep Batc	
· · · · · · · · · · · · · · · · · · ·	м	З МВ									
Analyte	Resu	t Qualifier	RL		Un	it	D	Р	repared	Analyzed	Dil Fac
Benzene	<0.0020	D U	0.00200		mg	g/Kg	_	01/2	5/24 18:02	01/30/24 21:28	1
Toluene	<0.0020	D U	0.00200			g/Kg		01/2	5/24 18:02	01/30/24 21:28	1
Ethylbenzene	<0.0020		0.00200			g/Kg		01/2	5/24 18:02	01/30/24 21:28	1
m-Xylene & p-Xylene	<0.0040		0.00400			g/Kg			5/24 18:02	01/30/24 21:28	1
o-Xylene	<0.0020		0.00200		-	g/Kg			5/24 18:02	01/30/24 21:28	1
Xylenes, Total	<0.0040		0.00400		-	g/Kg			5/24 18:02	01/30/24 21:28	1
	М	3 <i>MB</i>									
Surrogate	%Recover		Limits					P	repared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	6		70 - 130						25/24 18:02	01/30/24 21:28	<u></u>
1,4-Difluorobenzene (Surr)	8		70 - 130						25/24 18:02	01/30/24 21:28	1
	_								_		
Lab Sample ID: LCS 880-71635/1-/	A						C	lient	Sample	ID: Lab Control	
Matrix: Solid										Prep Type:	
Analysis Batch: 71915			• "							Prep Batc	h: 71635
• • •			Spike		LCS			_		%Rec	
Analyte			Added		Qualifie			_ <u>D</u>	%Rec	Limits	
Benzene			0.100	0.1170		mg/Kg			117	70 - 130	
Toluene			0.100	0.1224	.	mg/Kg			122	70 - 130	
Ethylbenzene			0.100	0.1364		mg/Kg			136	70 - 130	
m-Xylene & p-Xylene			0.200	0.2868	*+	mg/Kg			143	70 - 130	
o-Xylene			0.100	0.1392	*+	mg/Kg			139	70 - 130	
	LCS LC										
		alifier	Limits								
4-Bromofluorobenzene (Surr)	112		70 - 130								
1,4-Difluorobenzene (Surr)	99		70 - 130								
- Lab Sample ID: LCSD 880-71635/2	2-A					Cli	ient	Sam	nple ID: La	ab Control Sam	ple Dup
Matrix: Solid										Prep Type:	
Analysis Batch: 71915										Prep Batc	
			Spike	LCSD	LCSD					%Rec	RPD

Job ID: 890-5992-1 SDG: 03C1558301

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C	3
1	

Result Qualifier Analyte Added Unit D %Rec Limits RPD Limit Benzene 0.100 0.1110 mg/Kg 111 70 - 130 5 35

Client: Ensolum Project/Site: PLU 18 Brushy Draw TB Job ID: 890-5992-1 SDG: 03C1558301

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

Lab Sample ID: LCSD 880-7163	5/2-A					Clie	nt Sam	ple ID:	Lab Contro		
Matrix: Solid										ype: To	
Analysis Batch: 71915			• "							Batch:	
			Spike		LCSD		_	~ =	%Rec		RPD
Analyte			Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limi
Toluene			0.100	0.1192		mg/Kg		119	70 - 130	3	3
Ethylbenzene			0.100	0.1370		mg/Kg		137	70 - 130	0	3
m-Xylene & p-Xylene			0.200		*+	mg/Kg		144	70 - 130	0	3
o-Xylene			0.100	0.1386	*+	mg/Kg		139	70 - 130	0	3
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	117		70 - 130								
1,4-Difluorobenzene (Surr)	83		70 - 130								
A h. 4	•	Sample	Spike		MS	1114		0/ D	%Rec		
Analysis Batch: 71915	• "							Batch:	7163
Analyte	•	Qualifier	Added		Qualifier	Unit	D	%Rec	Limits		
Benzene	<0.00201		0.0996	0.09181		mg/Kg		92	70 - 130		
Toluene	<0.00201		0.0996	0.1004		mg/Kg		100	70 - 130		
Ethylbenzene	<0.00201	U *+	0.0996	0.1170		mg/Kg		117	70 - 130		
m-Xylene & p-Xylene	<0.00402	U *+	0.199	0.2380		mg/Kg		119	70 - 130		
o-Xylene	<0.00201	U *+	0.0996	0.1137		mg/Kg		114	70 - 130		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	119		70 - 130								
1,4-Difluorobenzene (Surr)	97		70 - 130								
Lab Sample ID: 890-5992-1 MSE)								Client Sa	mple ID:	FSO
Matrix: Solid										ype: To	
Analysis Batch: 71915										Batch:	
	Sample	Sample	Spike	MSD	MSD				%Rec	Daton	RPE
Analyta	-	Qualifian		Desult	Qualifier	11	_	0/ Dee	, incite	000	L inch

	eampie	•	• pinte						/01.000		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U	0.0990	0.09254		mg/Kg		93	70 - 130	1	35
Toluene	<0.00201	U	0.0990	0.09780		mg/Kg		98	70 - 130	3	35
Ethylbenzene	<0.00201	U *+	0.0990	0.1158		mg/Kg		117	70 - 130	1	35
m-Xylene & p-Xylene	<0.00402	U *+	0.198	0.2366		mg/Kg		120	70 - 130	1	35
o-Xylene	<0.00201	U *+	0.0990	0.1127		mg/Kg		114	70 - 130	1	35
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								

70 - 130

70 - 130

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

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Lab Sample ID: MB 880-71509/1-A Matrix: Solid Analysis Batch: 71993	мв	МВ				Client Sa	mple ID: Metho Prep Type: ⁻ Prep Batcl	Total/NA
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/24/24 10:27	01/31/24 08:11	1

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4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Client: Ensolum Project/Site: PLU 18 Brushy Draw TB

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

ietilou. 6015B Nill - Diesei Ka	inge org	Janics (D		ontinue	-u)						
Lab Sample ID: MB 880-71509/1-A								Client Sa	ample ID: N	lethod	Blank
Matrix: Solid									Prep Ty	/pe: To	tal/NA
Analysis Batch: 71993									Prep l	Batch:	71509
	I	MB MB									
Analyte	Res	ult Qualifier	F	RL	Unit		D	Prepared	Analyze	d	Dil Fac
Diesel Range Organics (Over	<5	0.0 U	50	.0	mg/K	g	_ (01/24/24 10:27	01/31/24 0	8:11	1
C10-C28)											
Oll Range Organics (Over C28-C36)	<5	0.0 U	50	.0	mg/K	g	(01/24/24 10:27	01/31/24 0	8:11	1
		ИВ МВ									
Surrogate			Lingita					Dramarad	Analyza		
-Chlorooctane	%Recov	ery Qualifier	Limits 70 - 130				-	Prepared	Analyze		Dil Fac
		113	70 - 130 70 - 130					01/24/24 10:27 01/24/24 10:27	01/31/24 0		1
p-Terphenyl		113	70 - 130				()1/24/24 10.27	01/31/24 0	0.11	1
_ab Sample ID: LCS 880-71509/2-A							Cli	ent Sample	ID: Lah Co	ntrol S	amplo
Aatrix: Solid	•						01	on cample	Prep Ty		
										Batch:	
Analysis Batch: 71993			Spike	1.09	LCS				%Rec	Datch.	71509
a shife			-		Qualifier	11			Limits		
Analyte Gasoline Range Organics			Added	1097	Quaimer			D %Rec			
GRO)-C6-C10			1000	1097		mg/Kg		110	70 - 130		
Diesel Range Organics (Over			1000	985.1		mg/Kg		99	70 - 130		
C10-C28)			1000	000.1		mg/rtg		00	10-100		
	LCS L										
		Qualifier	Limits								
-Chlorooctane	95		70 - 130								
p-Terphenyl	80		70 - 130								
ch Somple ID: 1 CSD 990 74500/2						0		emple ID. I	ah Cantual	Comm	- Dum
Lab Sample ID: LCSD 880-71509/3	-A					CI	ent s	ample ID: L		-	
Matrix: Solid									Prep Ty	-	
Analysis Batch: 71993			• "							Batch:	
			Spike		LCSD				%Rec		RPD
Analyte			Added		Qualifier	Unit		D %Rec	Limits	RPD	Limit
Gasoline Range Organics			1000	1063		mg/Kg		106	70 - 130	3	20
GRO)-C6-C10 Diesel Range Organics (Over			1000	945.1		malka		95	70 - 130	4	20
C10-C28)			1000	940.1		mg/Kg		90	10 - 130	4	20
	LCSD L	.CSD									
Surrogate %	Recovery (Qualifier	Limits								
l-Chlorooctane	102		70 - 130								
p-Terphenyl	95		70 - 130								
ab Sample ID: 890-5992-1 MS									Client Sam	-	
Matrix: Solid									Prep Ty	/pe: To	tal/NA
Analysis Batch: 71993									Prep l	Batch:	71509
	Sample S	Sample	Spike	MS	MS				%Rec		
Analyte	Result C	Qualifier	Added	Result	Qualifier	Unit		D %Rec	Limits		
Gasoline Range Organics	<49.6 l	J	1010	996.3		mg/Kg		97	70 - 130		
GRO)-C6-C10											
	. 10 0 1		1010	1000				105	70 400		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	125		70 - 130
o-Terphenyl	85		70 - 130

<49.6 U

Eurofins Carlsbad

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Job ID: 890-5992-1

SDG: 03C1558301

Diesel Range Organics (Over

C10-C28)

1010

1288

mg/Kg

125

70 - 130

Job ID: 890-5992-1 SDG: 03C1558301

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

Lab Sample ID: 890-5992-1 I	MSD								Client Sa	mple ID:	: г аџ
Matrix: Solid										Туре: То	
Analysis Batch: 71993										Batch:	
	Sample	Sample	Spike	MSD	MSD				%Rec	, Batom	RP
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Lim
Gasoline Range Organics	<49.6	· · ·	1010	984.8		mg/Kg		96	70 - 130	1	2
(GRO)-C6-C10		0	1010	004.0		mg/rtg		50	10 - 100	I	2
Diesel Range Organics (Over	<49.6	U	1010	1282		mg/Kg		125	70 - 130	0	2
C10-C28)											
	MSD	MED									
Surrogata			Limits								
Surrogate 1-Chlorooctane	% <i>Recovery</i>	Quaimer	70 - 130								
	84		70 - 130 70 - 130								
o-Terphenyl	04		70 - 130								
lethod: 300.0 - Anions,	Ion Chromat	ography									
Lab Sample ID: MB 880-713	10/1-A							Client S	Sample ID:		
Matrix: Solid									Prep	Type: So	olub
Analysis Batch: 71389											
		MB MB									
Analyte	Re	esult Qualifier			Unit		D P	repared	Analyz		Dil Fa
										09.41	
Chloride	<	<5.00 U		5.00	mg/Kg)			01/24/24	00.41	
		\$5.00 U		5.00	mg/Kę]	Client	Sample			amnl
Lab Sample ID: LCS 880-713		5.00 U		5.00	mg/Kg]	Client	Sample	e ID: Lab C	ontrol Sa	
Lab Sample ID: LCS 880-713 Matrix: Solid		≤5.00 U		5.00	mg/K]	Client	Sample	e ID: Lab C		
Lab Sample ID: LCS 880-713 Matrix: Solid		:5.00 U	Snike		-]	Client	Sample	e ID: Lab C Prep	ontrol Sa	
Lab Sample ID: LCS 880-713 Matrix: Solid Analysis Batch: 71389		≈5.00 U	Spike	LCS	LCS			-	e ID: Lab C Prep %Rec	ontrol Sa	
Lab Sample ID: LCS 880-713 Matrix: Solid Analysis Batch: 71389 ^{Analyte}		:5.00 U	Added	LCS Result	-	Unit	Client	%Rec	e ID: Lab C Prep %Rec Limits	ontrol Sa	
Lab Sample ID: LCS 880-713 Matrix: Solid Analysis Batch: 71389 ^{Analyte}		:5.00 U		LCS	LCS			-	e ID: Lab C Prep %Rec	ontrol Sa	
Lab Sample ID: LCS 880-713 Matrix: Solid Analysis Batch: 71389 Analyte Chloride	310/2-A	<5.00 U	Added	LCS Result	LCS	Unit mg/Kg	D	%Rec 95	B ID: Lab C Prep %Rec Limits 90 - 110	ontrol Sa Type: So	olub
Lab Sample ID: LCS 880-713 Matrix: Solid Analysis Batch: 71389 Analyte Chloride Lab Sample ID: LCSD 880-7	310/2-A	<5.00 U	Added	LCS Result	LCS	Unit mg/Kg	D	%Rec 95	 ID: Lab Control Prep %Rec Limits 90 - 110 Lab Control 	ontrol Sampl	olub e Du
Lab Sample ID: LCS 880-713 Matrix: Solid Analysis Batch: 71389 Analyte Chloride Lab Sample ID: LCSD 880-7 Matrix: Solid	310/2-A	<5.00 U	Added	LCS Result	LCS	Unit mg/Kg	D	%Rec 95	 ID: Lab Control Prep %Rec Limits 90 - 110 Lab Control 	ontrol Sa Type: So	olub e Du
Lab Sample ID: LCS 880-713 Matrix: Solid Analysis Batch: 71389 Analyte Chloride Lab Sample ID: LCSD 880-7 Matrix: Solid	310/2-A	<5.00 U	Added 250	LCS Result 238.7	LCS Qualifier	Unit mg/Kg	D	%Rec 95	e ID: Lab C Prep %Rec Limits 90 - 110 Lab Contro Prep	ontrol Sampl	e Du olub
Lab Sample ID: LCS 880-713 Matrix: Solid Analysis Batch: 71389 Analyte Chloride Lab Sample ID: LCSD 880-7 Matrix: Solid Analysis Batch: 71389	310/2-A	<5.00 U	Added 250 Spike	LCS Result 238.7 LCSD	LCS Qualifier LCSD	Unit mg/Kg Clie	D_ ent San	%Rec 95	e ID: Lab C Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec	ontrol Sa Type: So ol Sampl Type: So	olub e Du olub RF
Lab Sample ID: LCS 880-713 Matrix: Solid Analysis Batch: 71389 Analyte Chloride Lab Sample ID: LCSD 880-7 Matrix: Solid Analysis Batch: 71389 Analyte	310/2-A	<5.00 U	Added 250 Spike Added	LCS Result 238.7 LCSD Result	LCS Qualifier	Unit mg/Kg Clia	D	%Rec 95 nple ID: %Rec	e ID: Lab C Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits	ontrol Sampl	e Du olub olub RP Lim
Lab Sample ID: LCS 880-713 Matrix: Solid Analysis Batch: 71389 Analyte Chloride Lab Sample ID: LCSD 880-7 Matrix: Solid Analysis Batch: 71389 Analyte	310/2-A	<	Added 250 Spike	LCS Result 238.7 LCSD	LCS Qualifier LCSD	Unit mg/Kg Clie	D_ ent San	%Rec 95	e ID: Lab C Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec	ontrol Sa Type: So ol Sampl Type: So 	e Du olub olub RP Lim
Lab Sample ID: LCS 880-713 Matrix: Solid Analysis Batch: 71389 Analyte Chloride Lab Sample ID: LCSD 880-7 Matrix: Solid Analysis Batch: 71389 Analyte Chloride	310/2-A 1310/3-A 	<	Added 250 Spike Added	LCS Result 238.7 LCSD Result	LCS Qualifier LCSD	Unit mg/Kg Clia	D_ ent San	%Rec 95 nple ID: %Rec	e ID: Lab C Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits	ontrol Sa Type: So ol Sampl Type: So <u>RPD</u> 0	e Du olub olub RP Lim
Lab Sample ID: LCS 880-713 Matrix: Solid Analysis Batch: 71389 Analyte Chloride Lab Sample ID: LCSD 880-7 Matrix: Solid Analysis Batch: 71389 Analyte Chloride Lab Sample ID: 890-5992-1 I	310/2-A 1310/3-A 	<5.00 U	Added 250 Spike Added	LCS Result 238.7 LCSD Result	LCS Qualifier LCSD	Unit mg/Kg Clia	D_ ent San	%Rec 95 nple ID: %Rec	e ID: Lab C Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Client Sa	ontrol Sa Type: So ol Sampl Type: So <u>RPD</u> 0 mple ID:	e Du olub olub RP Lim 2 : FS0
Lab Sample ID: LCS 880-713 Matrix: Solid Analysis Batch: 71389 Analyte Chloride Lab Sample ID: LCSD 880-7 Matrix: Solid Analysis Batch: 71389 Analyte Chloride Lab Sample ID: 890-5992-1 I Matrix: Solid	310/2-A 1310/3-A 	<	Added 250 Spike Added	LCS Result 238.7 LCSD Result	LCS Qualifier LCSD	Unit mg/Kg Clia	D_ ent San	%Rec 95 nple ID: %Rec	e ID: Lab C Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Client Sa	ontrol Sa Type: So ol Sampl Type: So <u>RPD</u> 0	e Du olubi RP Lim 2 : FS0
Lab Sample ID: LCS 880-713 Matrix: Solid Analysis Batch: 71389 Analyte Chloride Lab Sample ID: LCSD 880-7 Matrix: Solid Analysis Batch: 71389 Analyte Chloride Lab Sample ID: 890-5992-1 I Matrix: Solid	310/2-A 1310/3-A		Added 250 Spike Added 250	LCS Result 238.7 LCSD Result 238.0	LCS Qualifier LCSD	Unit mg/Kg Clia	D_ ent San	%Rec 95 nple ID: %Rec	e ID: Lab C Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Client Sa	ontrol Sa Type: So ol Sampl Type: So <u>RPD</u> 0 mple ID:	e Du olubi RP Lim 2 : FS0
Lab Sample ID: LCS 880-713 Matrix: Solid Analysis Batch: 71389 Analyte Chloride Lab Sample ID: LCSD 880-7 Matrix: Solid Analysis Batch: 71389 Analyte Chloride Lab Sample ID: 890-5992-1 I Matrix: Solid Analysis Batch: 71389	810/2-A 1310/3-A VIS Sample		Added 250 Spike Added	LCS Result 238.7 LCSD Result 238.0	LCS Qualifier LCSD Qualifier	Unit mg/Kg Clie Unit mg/Kg	D	%Rec 95 aple ID: %Rec 95 95	e ID: Lab C Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Client Sa Prep %Rec	ontrol Sa Type: So ol Sampl Type: So <u>RPD</u> 0 mple ID:	e Du olubi RP Lim 2 : FS0
Lab Sample ID: LCS 880-713 Matrix: Solid Analysis Batch: 71389 Analyte Chloride Lab Sample ID: LCSD 880-7 Matrix: Solid Analysis Batch: 71389 Analyte Chloride Lab Sample ID: 890-5992-1 I Matrix: Solid Analysis Batch: 71389 Analyte	810/2-A 1310/3-A VIS Sample		Added 250 Spike Added 250 Spike	LCS Result 238.7 LCSD Result 238.0	LCS Qualifier LCSD Qualifier	Unit mg/Kg Clia	D_ ent San	%Rec 95 nple ID: %Rec	e ID: Lab C Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Client Sa Prep	ontrol Sa Type: So ol Sampl Type: So <u>RPD</u> 0 mple ID:	e Du olubi RP Lim 2 : FS0
Lab Sample ID: LCS 880-713 Matrix: Solid Analysis Batch: 71389 Analyte Chloride Lab Sample ID: LCSD 880-7 Matrix: Solid Analysis Batch: 71389 Analyte Chloride Lab Sample ID: 890-5992-1 I Matrix: Solid Analysis Batch: 71389 Analyte	810/2-A 1310/3-A VIS Sample Result		Added 250 Spike Added 250 Spike Added	LCS Result 238.7 LCSD Result 238.0 MS Result	LCS Qualifier LCSD Qualifier	Unit mg/Kg Clia Unit Mg/Kg	D	%Rec 95 mple ID: %Rec 95	e ID: Lab C Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Client Sa Prep %Rec Limits	ontrol Sa Type: So ol Sampl Type: So <u>RPD</u> 0 mple ID:	e Du olub olub RP Lim 2 : FS0
Lab Sample ID: LCS 880-713 Matrix: Solid Analysis Batch: 71389 Analyte Chloride Lab Sample ID: LCSD 880-7 Matrix: Solid Analysis Batch: 71389 Analyte Chloride Lab Sample ID: 890-5992-1 I Matrix: Solid Analysis Batch: 71389 Analyte Chloride	810/2-A 1310/3-A VIS Sample Result 78.8		Added 250 Spike Added 250 Spike Added	LCS Result 238.7 LCSD Result 238.0 MS Result	LCS Qualifier LCSD Qualifier	Unit mg/Kg Clia Unit Mg/Kg	D	%Rec 95 mple ID: %Rec 95	e ID: Lab C Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Client Sa Prep %Rec Limits	ontrol Sa Type: So DI Sampl Type: So <u>RPD</u> 0 mple ID: Type: So	olub e Du olub RP Lim 2 : FS0 olub
Lab Sample ID: LCS 880-713 Matrix: Solid Analysis Batch: 71389 Analyte Chloride Lab Sample ID: LCSD 880-7 Matrix: Solid Analysis Batch: 71389 Analyte Chloride Lab Sample ID: 890-5992-1 I Matrix: Solid Analysis Batch: 71389 Analyte Chloride Lab Sample ID: 890-5992-1 I	810/2-A 1310/3-A VIS Sample Result 78.8		Added 250 Spike Added 250 Spike Added	LCS Result 238.7 LCSD Result 238.0 MS Result	LCS Qualifier LCSD Qualifier	Unit mg/Kg Clia Unit Mg/Kg	D	%Rec 95 mple ID: %Rec 95	e ID: Lab C Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Client Sa 90 - 110 Client Sa	ontrol Sa Type: So DI Sampl Type: So <u>RPD</u> 0 mple ID: Type: So	e Du olub RF Lin : FSC olub
Lab Sample ID: LCS 880-713 Matrix: Solid Analysis Batch: 71389 Analyte Chloride Lab Sample ID: LCSD 880-7 Matrix: Solid Analysis Batch: 71389 Analyte Chloride Lab Sample ID: 890-5992-1 I Matrix: Solid Analysis Batch: 71389 Analyte Chloride Lab Sample ID: 890-5992-1 I Matrix: Solid	810/2-A 1310/3-A VIS Sample Result 78.8		Added 250 Spike Added 250 Spike Added	LCS Result 238.7 LCSD Result 238.0 MS Result	LCS Qualifier LCSD Qualifier	Unit mg/Kg Clia Unit Mg/Kg	D	%Rec 95 mple ID: %Rec 95	e ID: Lab C Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Client Sa 90 - 110 Client Sa	ontrol Sa Type: So ol Sampl Type: So <u>RPD</u> 0 mple ID: Type: So mple ID:	e Du olub RF Lin 2 5 FS0 olub
Lab Sample ID: LCS 880-713 Matrix: Solid Analysis Batch: 71389 Analyte Chloride Lab Sample ID: LCSD 880-7 Matrix: Solid Analysis Batch: 71389 Analyte Chloride Lab Sample ID: 890-5992-1 I Matrix: Solid Analysis Batch: 71389 Analyte Chloride Lab Sample ID: 890-5992-1 I Matrix: Solid	810/2-A 1310/3-A VIS Sample Result 78.8	Sample Qualifier	Added 250 Spike Added 250 Spike Added	LCS Result 238.7 LCSD Result 238.0 MS Result 325.0	LCS Qualifier LCSD Qualifier	Unit mg/Kg Clia Unit Mg/Kg	D	%Rec 95 mple ID: %Rec 95	e ID: Lab C Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Client Sa 90 - 110 Client Sa	ontrol Sa Type: So ol Sampl Type: So <u>RPD</u> 0 mple ID: Type: So mple ID:	e Du olub RP Lim 2 : FS0 olub : FS0 olub
Chloride Lab Sample ID: LCS 880-713 Matrix: Solid Analysis Batch: 71389 Analyte Chloride Lab Sample ID: LCSD 880-7 Matrix: Solid Analysis Batch: 71389 Analyte Chloride Lab Sample ID: 890-5992-1 I Matrix: Solid Analysis Batch: 71389 Analyte Chloride Lab Sample ID: 890-5992-1 I Matrix: Solid Analysis Batch: 71389 Analyte Chloride Lab Sample ID: 890-5992-1 I Matrix: Solid Analysis Batch: 71389 Analyte Chloride Lab Sample ID: 890-5992-1 I	810/2-A 1310/3-A MS <u>Result</u> 78.8 MSD Sample	Sample Qualifier	Added 250 Spike Added 250 Spike Added 251	LCS Result 238.7 LCSD Result 238.0 MS Result 325.0	LCS Qualifier LCSD Qualifier MS Qualifier	Unit mg/Kg Clia Unit Mg/Kg	D	%Rec 95 mple ID: %Rec 95	e ID: Lab C Prep %Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Client Sa Prep %Rec Limits 90 - 110 Client Sa Prep	ontrol Sa Type: So ol Sampl Type: So <u>RPD</u> 0 mple ID: Type: So mple ID:	e Du olubi RP Lim 2 : FS0 olubi

Client: Ensolum Project/Site: PLU 18 Brushy Draw TB Job ID: 890-5992-1 SDG: 03C1558301

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-5992-11 MS Matrix: Solid									Client Sar Prep	mple ID Type: S	
Analysis Batch: 71389											
-	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	14.6		253	263.1		mg/Kg		98	90 - 110		
Lab Sample ID: 890-5992-11 MSD									Client Sar	mple ID	: FS17
Matrix: Solid									Prep	Type: S	oluble
Analysis Batch: 71389											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	14.6		253	266.4		mg/Kg		100	90 - 110	1	20

Client: Ensolum Project/Site: PLU 18 Brushy Draw TB Job ID: 890-5992-1

SDG: 03C1558301

GC VOA

Prep Batch: 71537

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
MB 880-71537/5-A	Method Blank	Total/NA	Solid	5035	
Prep Batch: 71635					

Lab Sample ID **Client Sample ID** Prep Type Matrix Method Prep Batch 890-5992-1 FS08 Total/NA Solid 5035 890-5992-2 FS09 Total/NA Solid 5035 890-5992-3 FS10 Total/NA Solid 5035 8 890-5992-4 FS11 Total/NA 5035 Solid 890-5992-5 FS12 Total/NA Solid 5035 890-5992-6 FS13 Total/NA Solid 5035 890-5992-7 SW03 Total/NA Solid 5035 890-5992-8 FS14 Total/NA Solid 5035 890-5992-9 FS15 Total/NA Solid 5035 890-5992-10 FS16 Total/NA Solid 5035 890-5992-11 FS17 Total/NA Solid 5035 890-5992-12 FS18 Total/NA Solid 5035 890-5992-13 FS19 Total/NA Solid 5035 13 890-5992-14 SW04 Total/NA Solid 5035 890-5992-15 SW05 Total/NA Solid 5035 Total/NA MB 880-71635/5-A Method Blank Solid 5035 Total/NA Solid 5035 LCS 880-71635/1-A Lab Control Sample LCSD 880-71635/2-A Lab Control Sample Dup Total/NA Solid 5035 FS08 890-5992-1 MS Total/NA Solid 5035 890-5992-1 MSD FS08 Total/NA Solid 5035

Analysis Batch: 71915

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-5992-1	FS08	Total/NA	Solid	8021B	71635
890-5992-2	FS09	Total/NA	Solid	8021B	71635
890-5992-3	FS10	Total/NA	Solid	8021B	71635
890-5992-4	FS11	Total/NA	Solid	8021B	71635
890-5992-5	FS12	Total/NA	Solid	8021B	71635
890-5992-6	FS13	Total/NA	Solid	8021B	71635
890-5992-7	SW03	Total/NA	Solid	8021B	71635
890-5992-8	FS14	Total/NA	Solid	8021B	71635
890-5992-9	FS15	Total/NA	Solid	8021B	71635
890-5992-10	FS16	Total/NA	Solid	8021B	71635
890-5992-11	FS17	Total/NA	Solid	8021B	71635
890-5992-12	FS18	Total/NA	Solid	8021B	71635
890-5992-13	FS19	Total/NA	Solid	8021B	71635
890-5992-14	SW04	Total/NA	Solid	8021B	71635
890-5992-15	SW05	Total/NA	Solid	8021B	71635
MB 880-71537/5-A	Method Blank	Total/NA	Solid	8021B	71537
MB 880-71635/5-A	Method Blank	Total/NA	Solid	8021B	71635
LCS 880-71635/1-A	Lab Control Sample	Total/NA	Solid	8021B	71635
LCSD 880-71635/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	71635
890-5992-1 MS	FS08	Total/NA	Solid	8021B	71635
890-5992-1 MSD	FS08	Total/NA	Solid	8021B	71635

Client: Ensolum Project/Site: PLU 18 Brushy Draw TB

Job ID: 890-5992-1 SDG: 03C1558301

GC VOA

Analysis Batch: 72053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5992-1	FS08	Total/NA	Solid	Total BTEX	
890-5992-2	FS09	Total/NA	Solid	Total BTEX	
890-5992-3	FS10	Total/NA	Solid	Total BTEX	
890-5992-4	FS11	Total/NA	Solid	Total BTEX	
890-5992-5	FS12	Total/NA	Solid	Total BTEX	
890-5992-6	FS13	Total/NA	Solid	Total BTEX	
890-5992-7	SW03	Total/NA	Solid	Total BTEX	
890-5992-8	FS14	Total/NA	Solid	Total BTEX	
890-5992-9	FS15	Total/NA	Solid	Total BTEX	
890-5992-10	FS16	Total/NA	Solid	Total BTEX	
890-5992-11	FS17	Total/NA	Solid	Total BTEX	
890-5992-12	FS18	Total/NA	Solid	Total BTEX	
890-5992-13	FS19	Total/NA	Solid	Total BTEX	
890-5992-14	SW04	Total/NA	Solid	Total BTEX	
890-5992-15	SW05	Total/NA	Solid	Total BTEX	
C Semi VOA					
rep Batch: 71509					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5992-1	FS08	Total/NA	Solid	8015NM Prep	

GC Semi VOA

Prep Batch: 71509

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5992-1	FS08	Total/NA	Solid	8015NM Prep	
890-5992-2	FS09	Total/NA	Solid	8015NM Prep	
890-5992-3	FS10	Total/NA	Solid	8015NM Prep	
890-5992-4	FS11	Total/NA	Solid	8015NM Prep	
890-5992-5	FS12	Total/NA	Solid	8015NM Prep	
890-5992-6	FS13	Total/NA	Solid	8015NM Prep	
890-5992-7	SW03	Total/NA	Solid	8015NM Prep	
890-5992-8	FS14	Total/NA	Solid	8015NM Prep	
890-5992-9	FS15	Total/NA	Solid	8015NM Prep	
890-5992-10	FS16	Total/NA	Solid	8015NM Prep	
890-5992-11	FS17	Total/NA	Solid	8015NM Prep	
890-5992-12	FS18	Total/NA	Solid	8015NM Prep	
890-5992-13	FS19	Total/NA	Solid	8015NM Prep	
890-5992-14	SW04	Total/NA	Solid	8015NM Prep	
890-5992-15	SW05	Total/NA	Solid	8015NM Prep	
MB 880-71509/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-71509/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-71509/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5992-1 MS	FS08	Total/NA	Solid	8015NM Prep	
890-5992-1 MSD	FS08	Total/NA	Solid	8015NM Prep	

Analysis Batch: 71993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5992-1	FS08	Total/NA	Solid	8015B NM	71509
890-5992-2	FS09	Total/NA	Solid	8015B NM	71509
890-5992-3	FS10	Total/NA	Solid	8015B NM	71509
890-5992-4	FS11	Total/NA	Solid	8015B NM	71509
890-5992-5	FS12	Total/NA	Solid	8015B NM	71509
890-5992-6	FS13	Total/NA	Solid	8015B NM	71509
890-5992-7	SW03	Total/NA	Solid	8015B NM	71509
890-5992-8	FS14	Total/NA	Solid	8015B NM	71509

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Client: Ensolum Project/Site: PLU 18 Brushy Draw TB

GC Semi VOA (Continued)

Analysis Batch: 71993 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5992-9	FS15	Total/NA	Solid	8015B NM	71509
890-5992-10	FS16	Total/NA	Solid	8015B NM	71509
890-5992-11	FS17	Total/NA	Solid	8015B NM	71509
890-5992-12	FS18	Total/NA	Solid	8015B NM	71509
890-5992-13	FS19	Total/NA	Solid	8015B NM	71509
890-5992-14	SW04	Total/NA	Solid	8015B NM	71509
890-5992-15	SW05	Total/NA	Solid	8015B NM	71509
MB 880-71509/1-A	Method Blank	Total/NA	Solid	8015B NM	71509
LCS 880-71509/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	71509
LCSD 880-71509/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	71509
890-5992-1 MS	FS08	Total/NA	Solid	8015B NM	71509
890-5992-1 MSD	FS08	Total/NA	Solid	8015B NM	71509

Analysis Batch: 72146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5992-1	FS08	Total/NA	Solid	8015 NM	
890-5992-2	FS09	Total/NA	Solid	8015 NM	
890-5992-3	FS10	Total/NA	Solid	8015 NM	
890-5992-4	FS11	Total/NA	Solid	8015 NM	
890-5992-5	FS12	Total/NA	Solid	8015 NM	
890-5992-6	FS13	Total/NA	Solid	8015 NM	
890-5992-7	SW03	Total/NA	Solid	8015 NM	
890-5992-8	FS14	Total/NA	Solid	8015 NM	
890-5992-9	FS15	Total/NA	Solid	8015 NM	
890-5992-10	FS16	Total/NA	Solid	8015 NM	
890-5992-11	FS17	Total/NA	Solid	8015 NM	
890-5992-12	FS18	Total/NA	Solid	8015 NM	
890-5992-13	FS19	Total/NA	Solid	8015 NM	
890-5992-14	SW04	Total/NA	Solid	8015 NM	
890-5992-15	SW05	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 71310

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-5992-1	FS08	Soluble	Solid	DI Leach	
890-5992-2	FS09	Soluble	Solid	DI Leach	
890-5992-3	FS10	Soluble	Solid	DI Leach	
890-5992-4	FS11	Soluble	Solid	DI Leach	
890-5992-5	FS12	Soluble	Solid	DI Leach	
890-5992-6	FS13	Soluble	Solid	DI Leach	
890-5992-7	SW03	Soluble	Solid	DI Leach	
890-5992-8	FS14	Soluble	Solid	DI Leach	
890-5992-9	FS15	Soluble	Solid	DI Leach	
890-5992-10	FS16	Soluble	Solid	DI Leach	
890-5992-11	FS17	Soluble	Solid	DI Leach	
890-5992-12	FS18	Soluble	Solid	DI Leach	
890-5992-13	FS19	Soluble	Solid	DI Leach	
890-5992-14	SW04	Soluble	Solid	DI Leach	
890-5992-15	SW05	Soluble	Solid	DI Leach	
MB 880-71310/1-A	Method Blank	Soluble	Solid	DI Leach	

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Job ID: 890-5992-1 SDG: 03C1558301

Client: Ensolum Project/Site: PLU 18 Brushy Draw TB

HPLC/IC (Continued)

Leach Batch: 71310 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-71310/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-71310/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5992-1 MS	FS08	Soluble	Solid	DI Leach	
890-5992-1 MSD	FS08	Soluble	Solid	DI Leach	
890-5992-11 MS	FS17	Soluble	Solid	DI Leach	
890-5992-11 MSD	FS17	Soluble	Solid	DI Leach	

Analysis Batch: 71389

each Batch: 71310 (C	ontinued)				
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
LCS 880-71310/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-71310/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5992-1 MS	FS08	Soluble	Solid	DI Leach	
890-5992-1 MSD	FS08	Soluble	Solid	DI Leach	
890-5992-11 MS	FS17	Soluble	Solid	DI Leach	
890-5992-11 MSD	FS17	Soluble	Solid	DI Leach	
nalysis Batch: 71389					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5992-1	FS08	Soluble	Solid	300.0	71310
890-5992-2	FS09	Soluble	Solid	300.0	71310
890-5992-3	FS10	Soluble	Solid	300.0	71310
890-5992-4	FS11	Soluble	Solid	300.0	71310
890-5992-5	FS12	Soluble	Solid	300.0	71310
890-5992-6	FS13	Soluble	Solid	300.0	71310
890-5992-7	SW03	Soluble	Solid	300.0	71310
890-5992-8	FS14	Soluble	Solid	300.0	71310
890-5992-9	FS15	Soluble	Solid	300.0	71310
890-5992-10	FS16	Soluble	Solid	300.0	71310
890-5992-11	FS17	Soluble	Solid	300.0	71310
890-5992-12	FS18	Soluble	Solid	300.0	71310
890-5992-13	FS19	Soluble	Solid	300.0	71310
890-5992-14	SW04	Soluble	Solid	300.0	71310
890-5992-15	SW05	Soluble	Solid	300.0	71310
MB 880-71310/1-A	Method Blank	Soluble	Solid	300.0	71310
LCS 880-71310/2-A	Lab Control Sample	Soluble	Solid	300.0	71310
LCSD 880-71310/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	71310
890-5992-1 MS	FS08	Soluble	Solid	300.0	71310
890-5992-1 MSD	FS08	Soluble	Solid	300.0	71310
890-5992-11 MS	FS17	Soluble	Solid	300.0	71310
890-5992-11 MSD	FS17	Soluble	Solid	300.0	71310

Job ID: 890-5992-1

SDG: 03C1558301

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Job ID: 890-5992-1 SDG: 03C1558301

Lab Sample ID: 890-5992-1 Matrix: Solid

Lab Sample ID: 890-5992-2

Lab Sample ID: 890-5992-3

Lab Sample ID: 890-5992-4

Matrix: Solid

Matrix: Solid

Date Collected: 01/18/24 08:30 Date Received: 01/18/24 15:24

Client Sample ID: FS08

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	71635	01/25/24 18:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71915	01/30/24 21:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72053	01/30/24 21:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			72146	01/31/24 10:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	71509	01/24/24 10:27	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71993	01/31/24 10:47	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	71310	01/22/24 10:36	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71389	01/24/24 09:57	SMC	EET MID

Client Sample ID: FS09

Date Collected: 01/18/24 08:35

Date Received: 01/18/24 15:24

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	71635	01/25/24 18:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71915	01/30/24 22:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72053	01/30/24 22:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			72146	01/31/24 11:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	71509	01/24/24 10:27	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71993	01/31/24 11:50	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	71310	01/22/24 10:36	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71389	01/24/24 10:12	SMC	EET MID

Client Sample ID: FS10

Date Collected: 01/18/24 08:40 Date Received: 01/18/24 15:24

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	71635	01/25/24 18:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71915	01/30/24 22:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72053	01/30/24 22:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			72146	01/31/24 12:12	SM	EET MID
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	71509	01/24/24 10:27	ткс	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71993	01/31/24 12:12	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	71310	01/22/24 10:36	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71389	01/24/24 10:18	SMC	EET MID

Client Sample ID: FS11 Date Collected: 01/18/24 08:45 Date Received: 01/18/24 15:24

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	71635	01/25/24 18:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71915	01/30/24 22:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72053	01/30/24 22:51	SM	EET MID

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Matrix: Solid

Job ID: 890-5992-1 SDG: 03C1558301

Lab Sample ID: 890-5992-4 Matrix: Solid

Date Collected: 01/18/24 08:45 Date Received: 01/18/24 15:24

Client Sample ID: FS11

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			72146	01/31/24 12:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	71509	01/24/24 10:27	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71993	01/31/24 12:33	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	71310	01/22/24 10:36	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71389	01/24/24 10:23	SMC	EET MID

Client Sample ID: FS12 Date Collected: 01/18/24 08:50

Date Received: 01/18/24 15:24

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	71635	01/25/24 18:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71915	01/30/24 23:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72053	01/30/24 23:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			72146	01/31/24 12:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	71509	01/24/24 10:27	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71993	01/31/24 12:55	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	71310	01/22/24 10:36	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71389	01/24/24 10:28	SMC	EET MID

Client Sample ID: FS13

Date Collected: 01/18/24 09:35 Date Received: 01/18/24 15:24

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	71635	01/25/24 18:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71915	01/30/24 23:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72053	01/30/24 23:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			72146	01/31/24 13:28	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	71509	01/24/24 10:27	ткс	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71993	01/31/24 13:28	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	71310	01/22/24 10:36	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71389	01/24/24 10:43	SMC	EET MID

Client Sample ID: SW03

Date Collected: 01/18/24 09:40 Date Received: 01/18/24 15:24

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	71635	01/25/24 18:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71915	01/30/24 23:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72053	01/30/24 23:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			72146	01/31/24 13:49	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	71509	01/24/24 10:27	ткс	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71993	01/31/24 13:49	SM	EET MID

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5 Lab Sample ID: 890-5992-5 9 Matrix: Solid

Lab Sample ID: 890-5992-6

Matrix: Solid

Lab Sample ID: 890-5992-7 Matrix: Solid

Lab Chronicle

Job ID: 890-5992-1 SDG: 03C1558301

Lab Sample ID: 890-5992-7 Matrix: Solid

Lab Sample ID: 890-5992-8

Lab Sample ID: 890-5992-9

Date Collected: 01/18/24 09:40 Date Received: 01/18/24 15:24

Client Sample ID: SW03

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	71310	01/22/24 10:36	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71389	01/24/24 10:48	SMC	EET MID

Client Sample ID: FS14

Date Collected: 01/18/24 09:45 Date Received: 01/18/24 15:24

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	71635	01/25/24 18:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71915	01/31/24 00:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72053	01/31/24 00:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			72146	01/31/24 14:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	71509	01/24/24 10:27	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71993	01/31/24 14:11	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	71310	01/22/24 10:36	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71389	01/24/24 10:54	SMC	EET MID

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	71635	01/25/24 18:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71915	01/31/24 00:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72053	01/31/24 00:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			72146	01/31/24 14:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	71509	01/24/24 10:27	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71993	01/31/24 14:33	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	71310	01/22/24 10:36	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71389	01/24/24 10:59	SMC	EET MID

Client Sample ID: FS16 Date Collected: 01/18/24 09:55 Date Received: 01/18/24 15:24

Lab Sample ID: 890-5992-10

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	71635	01/25/24 18:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71915	01/31/24 00:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72053	01/31/24 00:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			72146	01/31/24 14:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	71509	01/24/24 10:27	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71993	01/31/24 14:54	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	71310	01/22/24 10:36	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71389	01/24/24 11:04	SMC	EET MID

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Matrix: Solid

Matrix: Solid

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Client Sample ID: FS15 Date Collected: 01/18/24 09:50 Date Received: 01/18/24 15:24

Released to Imaging: 4/22/2024 2:45:18 PM

Batch

Batch

Client Sample ID: FS17

Date Collected: 01/18/24 10:00

Date Received: 01/18/24 15:24

Client: Ensolum

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Soluble

Soluble

Initial

Job ID: 890-5992-1 SDG: 03C1558301

Lab Sample ID: 890-5992-11

Analyst

MNR

MNR

SM

SM

ткс

SM

SA

SMC

Lab Sample ID: 890-5992-12

Lab Sample ID: 890-5992-13

Lab Sample ID: 890-5992-14

Prepared

Matrix: Solid

Lab

EET MID

Matrix: Solid

Matrix: Solid

Client Sample ID: FS18 Date Collected: 01/18/24 10:05

Date Received: 01/18/24 15:24

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	71635	01/25/24 18:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71915	01/31/24 02:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72053	01/31/24 02:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			72146	01/31/24 15:58	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	71509	01/24/24 10:27	ткс	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71993	01/31/24 15:58	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	71310	01/22/24 10:36	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71389	01/24/24 11:24	SMC	EET MID

Client Sample ID: FS19 Date Collected: 01/18/24 10:20

Date Received: 01/18/24 15:24

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	71635	01/25/24 18:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71915	01/31/24 02:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72053	01/31/24 02:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			72146	01/31/24 16:19	SM	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	71509	01/24/24 10:27	ткс	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71993	01/31/24 16:19	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	71310	01/22/24 10:36	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71389	01/24/24 11:30	SMC	EET MID

Client Sample ID: SW04 Date Collected: 01/18/24 10:10 Date Received: 01/18/24 15:24

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	71635	01/25/24 18:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71915	01/31/24 03:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72053	01/31/24 03:19	SM	EET MID

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Matrix: Solid

Batch

Final

Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	
Prep	5035			4.99 g	5 mL	71635	01/25/24 18:02	Ì
Analysis	8021B		1	5 mL	5 mL	71915	01/31/24 02:17	
Analysis	Total BTEX		1			72053	01/31/24 02:17	;
Analysis	8015 NM		1			72146	01/31/24 15:37	;
Prep	8015NM Prep			9.92 g	10 mL	71509	01/24/24 10:27	
Analysis	8015B NM		1	1 uL	1 uL	71993	01/31/24 15:37	;
Leach	DI Leach			4.95 g	50 mL	71310	01/22/24 10:36	;
Analysis	300.0		1	50 mL	50 mL	71389	01/24/24 11:09	

Dil

Released to Imaging: 4/22/2024 2:45:18 PM

Job ID: 890-5992-1 SDG: 03C1558301

Lab Sample ID: 890-5992-14

Lab Sample ID: 890-5992-15

Matrix: Solid

Matrix: Solid

Client Sample ID: SW04 Date Collected: 01/18/24 10:10 Date Received: 01/18/24 15:24

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			72146	01/31/24 16:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	71509	01/24/24 10:27	ткс	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71993	01/31/24 16:40	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	71310	01/22/24 10:36	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71389	01/24/24 11:45	SMC	EET MID

Client Sample ID: SW05 Date Collected: 01/18/24 10:15

Date Received: 01/18/24 15:24

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	71635	01/25/24 18:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71915	01/31/24 03:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72053	01/31/24 03:39	SM	EET MID
Total/NA	Analysis	8015 NM		1			72146	01/31/24 17:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	71509	01/24/24 10:27	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71993	01/31/24 17:01	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	71310	01/22/24 10:36	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71389	01/24/24 11:50	SMC	EET MID

Laboratory References:

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

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	Acc	reditation/Cerf	tification Summary			
lient: Ensolum roject/Site: PLU 18 Brusł	hy Draw TB				Job ID: 890-5992-1 SDG: 03C1558301	2
aboratory: Eurofins nless otherwise noted, all analy		overed under each accredi	tation/certification below.			
Authority	Progra		Identification Number	Expiration Date		
Texas	NELAP	,	T104704400-23-26	06-30-24		
• ,	are included in this report, but oes not offer certification.	the laboratory is not certifi	fied by the governing authority. This lis	st may include analytes		
Analysis Method	Prep Method	Matrix	Analyte			
8015 NM		Solid	Total TPH			
Total BTEX		Solid	Total BTEX			
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						Ī

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Released to Imaging: 4/22/2024 2:45:18 PM

Project/Site: PLU 18 Brushy Draw TB

Client: Ensolum

Job ID: 890-5992-1 SDG: 03C1558301

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 Refe	rences:		
ASTM = A	STM International		
EPA = US	Environmental Protection Agency		
SW846 = "	Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third E	dition, November 1986 And Its Updates.	

Laboratory References:

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

Eurofins Carlsbad

Released to Imaging: 4/22/2024 2:45:18 PM

Sample Summary

Client: Ensolum Project/Site: PLU 18 Brushy Draw TB

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-5992-1	FS08	Solid	01/18/24 08:30	01/18/24 15:24
890-5992-2	FS09	Solid	01/18/24 08:35	01/18/24 15:24
890-5992-3	FS10	Solid	01/18/24 08:40	01/18/24 15:24
890-5992-4	FS11	Solid	01/18/24 08:45	01/18/24 15:24
890-5992-5	FS12	Solid	01/18/24 08:50	01/18/24 15:24
890-5992-6	FS13	Solid	01/18/24 09:35	01/18/24 15:24
890-5992-7	SW03	Solid	01/18/24 09:40	01/18/24 15:24
890-5992-8	FS14	Solid	01/18/24 09:45	01/18/24 15:24
890-5992-9	FS15	Solid	01/18/24 09:50	01/18/24 15:24
890-5992-10	FS16	Solid	01/18/24 09:55	01/18/24 15:24
890-5992-11	FS17	Solid	01/18/24 10:00	01/18/24 15:24
890-5992-12	FS18	Solid	01/18/24 10:05	01/18/24 15:24
890-5992-13	FS19	Solid	01/18/24 10:20	01/18/24 15:24
890-5992-14	SW04	Solid	01/18/24 10:10	01/18/24 15:24
890-5992-15	SW05	Solid	01/18/24 10:15	01/18/24 15:24

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		Date/Time Relinquished by: (Signature) Received by: (Signature) (ちごてい パノルロ	of Eurofins Xenco. A minimum charge of \$55.00 will be applied to each project and a charge of \$5 for ea	ty for any losses or expense ch sample submitted to Eur	is incurred by the client if such losses are du ofins Xenro, but not analyzed. These terms	Le to dircumstances beyond the control Will be anforced unless previously negotiate	bd.	
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13

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 5992 List Number: 1 Creator: Lopez, Abraham

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	

Job Number: 890-5992-1 SDG Number: 03C1558301

List Source: Eurofins Carlsbad

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 5992 List Number: 2 Creator: Rodriguez, Leticia

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

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

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Job Number: 890-5992-1 SDG Number: 03C1558301

List Source: Eurofins Midland List Creation: 01/22/24 08:25 AM

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

QUESTIONS

Action 316120

QUESTION	15
Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	316120
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2334060921
Incident Name	NAPP2334060921 PLU 18 BRUSHY DRAW CTB @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received

Location of Release Source

Please answer all the questions in this group.	
Site Name	PLU 18 Brushy Draw CTB
Date Release Discovered	11/22/2023
Surface Owner	Federal

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	Cause: Equipment Failure Pump Produced Water Released: 8 BBL Recovered: 4 BBL Lost: 4 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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

QUESTIONS, Page 2

Action 316120

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	316120
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a majo release	r 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 s	safety hazard that would result in injury.
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	iation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of evaluation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releat the OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Garrett Green Title: SHE Coordinator Email: garrett.green@exxonmobil.com Date: 12/06/2023

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QUESTIONS, Page 3

Action 316120

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	316120
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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	OCD Imaging Records Lookup	
Did this release impact groundwater or surface water	No	
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:		
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (mi.)	
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)	
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 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 ½ and 1 (mi.)	
A subsurface mine	Greater than 5 (mi.)	
An (non-karst) unstable area	Greater than 5 (mi.)	
Categorize the risk of this well / site being in a karst geology	Low	
A 100-year floodplain	Between 1 and 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 CI B) 441 TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M) 56.3 GRO+DRO (EPA SW-846 Method 8015M) 56.3 BTEX (EPA SW-846 Method 8021B or 8260B) 0 (EPA SW-846 Method 8021B or 8260B) Benzene 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 01/17/2024 On what date will (or did) the final sampling or liner inspection occur 01/18/2024 On what date will (or was) the remediation complete(d) 01/18/2024 What is the estimated surface area (in square feet) that will be reclaimed 3345 What is the estimated volume (in cubic yards) that will be reclaimed 190 What is the estimated surface area (in square feet) that will be remediated 3345 What is the estimated volume (in cubic yards) that will be remediated 190 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, Page 4

Action 316120

QUESTIONS (continued)		
Operator:	OGRID:	
XTO ENERGY, INC	5380	
6401 Holiday Hill Road	Action Number:	
Midland, TX 79707	316120	
	Action Type:	
	IC-1411 Remediation Closure Request C-141 (C-141-V-Closure)	

QUESTIONS

Remediation Plan (continued)

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date. This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants: (Select all answers below that apply.) (Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.) Yes Which OCD approved facility will be used for off-site disposal HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510] OR which OCD approved well (API) will be used for off-site disposal Not answered. OR is the off-site disposal site, to be used, out-of-state Not answered. OR is the off-site disposal site, to be used, an NMED facility Not answered. (Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms) Not answered (In Situ) Soil Vapor Extraction Not answered. (In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.) Not answered. (In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.) Not answered. (In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.) Not answered. Ground Water Abatement pursuant to 19.15.30 NMAC Not answered. OTHER (Non-listed remedial process) Not answered. Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Name: Garrett Green Title: SHE Coordinator I hereby agree and sign off to the above statement Email: garrett.green@exxonmobil.com

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.

Date: 02/20/2024

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QUESTIONS, Page 5

Action 316120

QUESTIONS (continued)	
Operator: XTO ENERGY, INC	OGRID: 5380
6401 Holiday Hill Road Midland, TX 79707	Action Number: 316120
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)
QUESTIONS	
Deferral Requests Only	

Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.		
Requesting a deferral of the remediation closure due date with the approval of this submission	No	

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QUESTIONS, Page 6

Action 316120

QUESTIONS (continued)	
Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	316120
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	302589
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/19/2024
What was the (estimated) number of samples that were to be gathered	30
What was the sampling surface area in square feet	6000

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all r	
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	3345
What was the total volume (cubic yards) remediated	190
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	3345
What was the total volume (in cubic yards) reclaimed	190
Summarize any additional remediation activities not included by answers (above)	Site assessment, delineation, and excavation activities were conducted at the Site to address the November 2023 release of produced water. Laboratory analytical results for excavation soil samples collected from the final excavation extent indicated all COC concentrations were compliant with the Site Closure Criteria and reclamation requirement. Based on laboratory analytical results, no further remediation is required. The release is vertically defined by confirmation floor soil samples FS01 through FS19 and laterally defined by confirmation foor soil samples SW01 through SW05. No additional excavation will be needed at the time of pad abandonment or major facility reconstruction as a result of this release. Following pad abandonment or major facility reconstruction, the work area will be reseeded with the recommended BLM seed mixture. On January 18, 2024, XTO backfilled the northern half of the excavation because the area was subject to high traffic. The caliche material used for the backfill was purchased locally and the area recontoured to match pre-existing Site conditions. Photographic documentation of the backfilled the week of February 19, 2024. Excavation of soil has mitigated adverse conditions at this Site. The release has been vertically and laterally defined. The lined containment was inspected and appears to be operating as designed. Depth to groundwater is confirmed to be greater than 100 feet bgs and no other sensitive receptors were identified near the release extent. XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests no further remediation for Incident Number NAPP2334060921.
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.	

, human health or the environment. In additi not relieve the operator of resp any other federal, 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: Garrett Green Title: SHE Coordinator
	Email: garrett.green@exxonmobil.com
	Date: 02/20/2024

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QUESTIONS, Page 7

Action 316120

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QUESTIONS (continued) Operator: OGRID: XTO ENERGY, INC 5380 6401 Holiday Hill Road Action Number: Midland, TX 79707 316120 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure) QUESTIONS Reclamation Report

Only answer the questions in this group if all reclamation steps have been completed. Requesting a reclamation approval with this submission

No

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CONDITIONS

Action 316120

CONDITIONS Operator: OGRID: **XTO ENERGY, INC** 5380 6401 Holiday Hill Road Action Number: Midland, TX 79707 316120 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2334060921 PLU 18 BRUSHY DRAW CTB, thank you. This Remediation Closure Report is approved.	4/22/2024