Page 1 of 117

Incident ID	NAPP2216138431
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following item	is must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.11 N	NMAC
Photographs of the remediated site prior to backfill or photos of must be notified 2 days prior to liner inspection)	the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODC D	vistrict office must be notified 2 days prior to final sampling)
☐ Description of remediation activities	
and regulations all operators are required to report and/or file certain re may endanger public health or the environment. The acceptance of a C should their operations have failed to adequately investigate and remed human health or the environment. In addition, OCD acceptance of a C compliance with any other federal, state, or local laws and/or regulation restore, reclaim, and re-vegetate the impacted surface area to the conditaccordance with 19.15.29.13 NMAC including notification to the OCD Printed Name: _Garrett Green Titlesignature: Descriptions.	C-141 report by the OCD does not relieve the operator of liability diate contamination that pose a threat to groundwater, surface water, C-141 report does not relieve the operator of responsibility for ns. The responsible party acknowledges they must substantially tions that existed prior to the release or their final land use in
OCD Only	
Received by:	Date:11/01/2022
	liability should their operations have failed to adequately investigate and ter, human health, or the environment nor does not relieve the responsible regulations.
Closure Approved by: Robert Hamlet	Date: <u>1/11/2023</u>
Printed Name: Robert Hamlet	Title: Environmental Specialist - Advanced

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

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	NAPP2216138431
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party XTO Energy				OGRID 5	5380	
Contact Name Garrett Green			C	Contact Te	Геlephone ₅₇₅₋₂₀₀₋₀₇₂₉	
Contact email garrett.green@exxonmobil.com			I	ncident#	# (assigned by OCD)	
Contact mail	ing address	3104 E. Greene St	reet, Carlsbad, Ne	w Mexico	o, 88220	
1			Location	of Rel	ease So	Source
Latitude 32	.10429			I o	ongitude -	-103.83900
Latitude			(NAD 83 in dec			
Site Name	PLU 25 Bru	shy Draw West C	 ГВ	S	ite Type C	Central Tank Battery
Date Release				A	PI# (if appi	pplicable)
Unit Letter	Section	Township	Danca		Coun	mts.
E	25	25S	Range 30E			<u> </u>
E	23	233	30E		Eddy	dy
Surface Owne	r: State	▼ Federal ☐ Tr	ribal 🗌 Private (A	Name:)
			Nature and	d Volu	me of F	Release
	24					
Crude Oi		Volume Release		calculations	s or specific	volume Recovered (bbls)
roduced	Water	Volume Release	ed (bbls) 6.78			Volume Recovered (bbls) 5.00
Is the concentration of total dissolved solid in the produced water >10,000 mg/l?				s (TDS)	☐ Yes 🗷 No	
Condensa	ite	Volume Release	d (bbls)		3	Volume Recovered (bbls)
☐ Natural Gas Volume Released (Mcf)				Volume Recovered (Mcf)		
Other (describe) Volume/Weight Released (provide units			e units)		Volume/Weight Recovered (provide units)	
Cause of Rel	ease Corrosi	on caused a fitting	on the water trans	ısfer numr	to fail re	releasing fluids to containment and pad. All free fluids
	were re	covered. A third-	party contractor ha	as been re	tained for	or remediation purposes.

Received by OCD: 11/1/2022 2:55:40 PMI State of New Mexico
Page 2 Oil Conservation Division

	Page 3cof 1	17
Incident ID	NAPP2216138431	
District RP		
Facility ID		
Application ID		

Was this a major	If YES, for what reason(s) does the respon	sible party consider this a major release?
release as defined by	N/A	
19.15.29.7(A) NMAC?		
☐ Yes 🗷 No		
If YES, was immediate no	otice given to the OCD? By whom? To wh	om? When and by what means (phone, email, etc)?
N/A		
	Initial Re	esponse
The responsible		vunless they could create a safety hazard that would result in injury
The responsible	purty mast undertake the jollowing actions immediately	amess mey coma create a sayety nazara ma woma resun in injary
The source of the rele	ease has been stopped.	
▼ The impacted area ha	as been secured to protect human health and	the environment.
Released materials ha	ave been contained via the use of berms or d	ikes, absorbent pads, or other containment devices.
▼ All free liquids and re	ecoverable materials have been removed and	l managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain v	vhy:
NA		
		emediation immediately after discovery of a release. If remediation
		efforts have been successfully completed or if the release occurred lease attach all information needed for closure evaluation.
		pest of my knowledge and understand that pursuant to OCD rules and ications and perform corrective actions for releases which may endanger
public health or the environmental to adequately investig	ment. The acceptance of a C-141 report by the O	CD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In
addition, OCD acceptance o		responsibility for compliance with any other federal, state, or local laws
and/or regulations.		
Printed Name: Garrett G	reen	Title: SSHE Coordinator
Signature:	reen M. Suerr	Date:
email: garrett.green@exx	xonmobil.com	Telephone:
OCD Only		
Received by: Jocelyn	n Harimon	Date: 06/10/2022

5.00 bbls

Location:	PLU 25 BD West CTB		
Spill Date:	6/4/2022		
	Area 1		
Approximate A	rea =	28.07	cu.ft.
	VOLUME OF LEAK		
Total Crude Oil	=	0.00	bbls
Total Produced	Water =	5.00	bbls
	Area 2		-
Approximate A	rea =	4003.70	sq. ft.
Average Satura	tion (or depth) of spill =	1.00	inches
Average Porosi	cy Factor =	0.03	
	VOLUME OF LEAK		
Total Crude Oil	=	0.00	bbls
Total Produced	Water =	1.78	bbls
	TOTAL VOLUME OF LEAK		
Total Crude Oil	=	0.00	bbls
Total Produced	Water =	6.78	bbls
	TOTAL VOLUME RECOVERED		-
Total Crude Oil	=	0.00	bbls

Total Produced Water =

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

CONDITIONS

Action 115840

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	115840
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	6/10/2022

	Page 6 of 1	17
Incident ID	NAPP2216138431	
District RP		
Facility ID		
Application ID		

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>>100</u> (ft bgs)	
Did this release impact groundwater or surface water?	☐ Yes ⊠ No	
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No	
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No	
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No	
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No	
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No	
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No	
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No	
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No	
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No	
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No	
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ⊠ No	
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.		
Characterization Report Checklist: Each of the following items must be included in the report.		
 Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data Data table of soil contaminant concentration data 		
Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release		

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Boring or excavation logs

Topographic/Aerial maps

Photographs including date and GIS information

☐ Laboratory data including chain of custody

Received by OCD: 11/1/2022 2:55:40 PM Form C-141 State of New Mexico Page 4 Oil Conservation Division

	Page / 0j 11
ncident ID	NAPP2216138431
istrict RP	
acility ID	

Application ID

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

Printed Name: __Garrett Green______ Title: _Environmental Coordinator______

_____ Date: ______11/01/2022_____

email: _garrett.green@exxonmobil.com______ Telephone: ______575-200-0729______

OCD Only

Received by: _____ Jocelyn Harimon ______ Date: ______11/01/2022_____

Page 8 of 117

Incident ID	NAPP2216138431
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

A scaled site and sampling diagram as described in 19.15.29	P.11 NMAC
Photographs of the remediated site prior to backfill or photomust be notified 2 days prior to liner inspection)	os of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate Ol	DC District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file cert may endanger public health or the environment. The acceptance should their operations have failed to adequately investigate and r human health or the environment. In addition, OCD acceptance compliance with any other federal, state, or local laws and/or regu	olete to the best of my knowledge and understand that pursuant to OCD rules ain release notifications and perform corrective actions for releases which of a C-141 report by the OCD does not relieve the operator of liability remediate contamination that pose a threat to groundwater, surface water, of a C-141 report does not relieve the operator of responsibility for ulations. The responsible party acknowledges they must substantially conditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete.
Printed Name: _Garrett Green	Title: _Environmental Coordinator
Printed Name: _Garrett Green	Date:11/01/2022
email:garrett.green@exxonmobil.com	Telephone:575-200-0729
OCD Only	
Received by:Jocelyn Harimon	Date:11/01/2022
	ty of liability should their operations have failed to adequately investigate and be water, human health, or the environment nor does not relieve the responsible d/or regulations.
Closure Approved by:	Date:
Printed Name:	Title:



November 1, 2022

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 25 Brushy Draw West CTB Incident Number NAPP2216138431 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 site assessment, delineation, and soil sampling activities at the PLU 25 Brushy Draw West Central Tank Battery (CTB, Site). The purpose of the Site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following a release of produced water into a lined containment and onto the well pad. Based on field observations, field screening activities, and soil sample laboratory analytical results, XTO is submitting this *Closure Request*, describing Site assessment and delineation activities that have occurred and requesting no further action for Incident Number NAPP2216138431.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit E, Section 25, Township 25 South, Range 30 East, in Eddy County, New Mexico (32.10429° N, 103.83900° W) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM). On June 4, 2022, corrosion caused a fitting on the water transfer pump to fail, resulting in the release of approximately 6.78 barrels (bbls) of produced water into the lined containment and onto the well pad. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; approximately 5 bbls of produced water 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 June 9, 2022. The release was assigned Incident Number NAPP2216138431.

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 on the Form C-141, Site Assessment/Characterization. Potential site receptors are identified on Figure 1.

Depth to groundwater at the Site is greater than 100 feet below ground surface (bgs) based on a recent soil boring drilled for determination of regional groundwater depth. On Febuary 24, 2021, a soil boring

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 601 North Marienfield Suite 400 | Midland, TX 79701 | ensolum.com XTO Energy, Inc. Closure Request PLU 25 Brushy Draw West CTB



(C-4498) was drilled approximatley 0.3 miles southwest of the Site utilizing a track-mounted hollow-stem auger rig. Soil boring C-4498 was drilled to a depth of 109 feet bgs. A field geologist logged and described soils continuously. No moisture or groundwater was encountered during drilling activites. The borehole was left open for over 72 hours to allow for potential slow infill of groundwater. After the 72-hour waiting period without observing groundwater, it was confirmed that groundwater beneath the Site is greater than 109 feet bgs. The borehole was properly abandoned with drill cuttings and hydrated bentonite chips. All wells used to determing depth to groundwater are depicted on Figure 1. The Well Record and Log is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a dry wash, located approximately 700 feet southwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

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

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

SITE ASSESSMENT ACTIVITIES AND ANALYTICAL RESULTS

A 48-hour advance notice of liner inspection was provided via email to the NMOCD. A liner integrity inspection was conducted following fluid recovery. Upon inspection, the liner was determined to be competent. Photographic documentation is included in Appendix B.

On July 29, 2022, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Eight soil samples (SS01 through SS08) were collected within and around the release extent at a depth of approximately 0.5 feet bgs to assess the lateral extent of the release. The soil samples were field screened for volatile aromatic hydrocarbons (VOCs) and chloride utilizing a calibrated photoionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. The release extent and soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported at or below 4 degrees Celsius (°C) under strict chain-of-custody procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of the following chemicals of conern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

XTO Energy, Inc. Closure Request PLU 25 Brushy Draw West CTB



Laboratory analytical results for preliminary soil samples SS01 through SS08 indicated concentrations of all COCs were compliant with the Site Closure Criteria. In addition, soil samples SS01 through SS04, collected outside the release extent were compliant with the most stringent Table I Closure Criteria and successfully define the lateral extent of the release. Based on laboratory analytical results for the preliminary soil samples, delineation activities were warranted to further confirm the absence of impacted soil.

DELINEATION SOIL SAMPLING ACTIVITIES AND ANALYTICAL RESULTS

On August 29, 2022, Ensolum personnel returned to the Site to oversee delineation activities. Potholes PH01 through PH05 were advanced via backhoe to a depth of 2 feet bgs within the release extent to assess the vertical extent of the release. Delineation soil samples were collected from each pothole at depths of 1-foot and 2 feet bgs. Soil from the delineation potholes was field screened for VOCs and chloride, respectively. Field screening results and observations for the potholes were logged on lithologic/soil sampling logs, which are included in Appendix C. The delineation soil sample locations are depicted on Figure 3.

Laboratory analytical results for all delineation soil samples indicated concentrations of all COCs were compliant with the Site Closure Criteria. Laboratory analytical results are summarized in Table I and laboratory analytical reports are included in Appendix D.

CLOSURE REQUEST

Site assessment and delineation activities were conducted at the Site to address the June 4, 2022, release of produced water. Laboratory analytical results for the preliminary and delineation soil samples indicated all COC concentrations were compliant with the Site Closure Criteria. Additionally, the release was laterally delineated to below the most stringent Table I Closure Criteria. Based on the soil sample laboratory analytical results, no further remediation was required.

Depth to groundwater is greater than 100 feet bgs based on a recent soil boring 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 closure for Incident Number NAPP2216138431.

XTO Energy, Inc. Closure Request PLU 25 Brushy Draw West CTB



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

Sincerely, **Ensolum, LLC**

Tacoma Morrissey Senior Geologist Ashley L. Ager, M.S., P.G. Principal

ashley L. ager

cc: Garrett Green, XTO

Shelby Pennington, XTO Bureau of Land Management

Appendices:

Figure 1 Site Receptor Map

Figure 2 Preliminary Soil Sample Locations
Figure 3 Delineation Soil Sample Locations
Table 1 Soil Sample Analytical Results

Appendix A Well Record and Log Appendix B Photographic Log

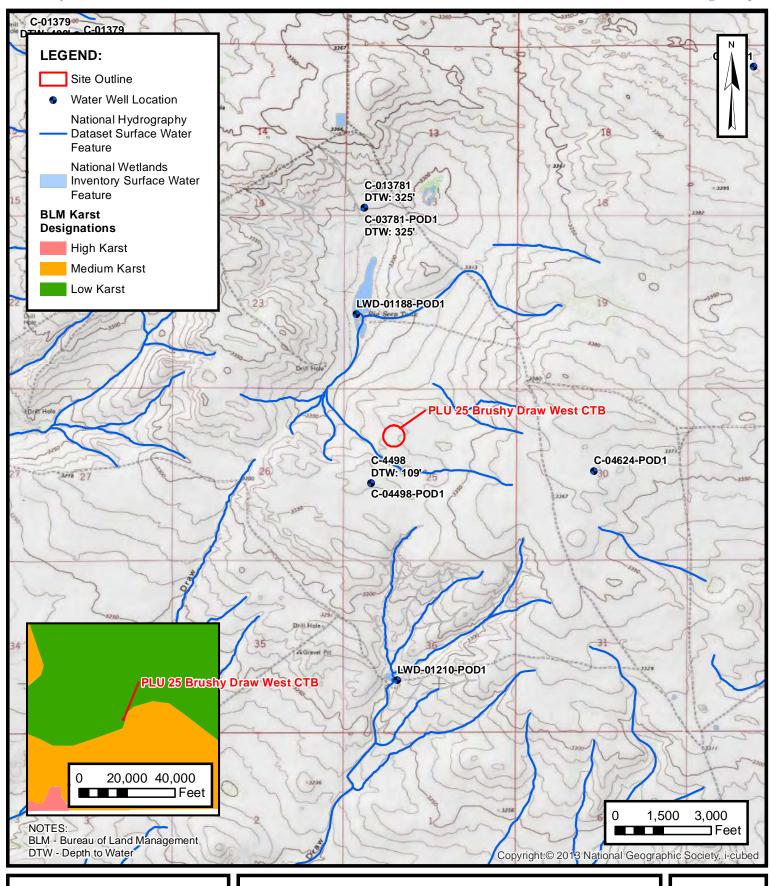
Appendix C Lithologic / Soil Sampling Logs

Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation

Appendix E NMOCD Notifications



FIGURES





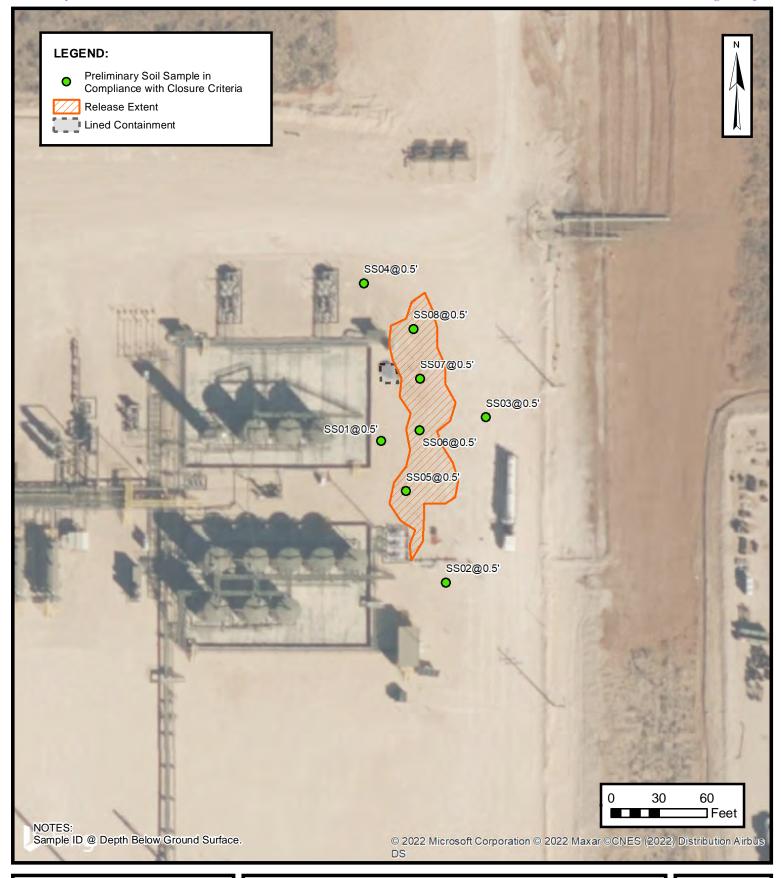
SITE RECEPTOR MAP

XTO ENERGY, INC PLU 25 BRUSHY DRAW WEST CTB NAPP2216138431

Unit E, Sec 25, T25S, R30E Eddy County, New Mexico

FIGURE

Released to Imaging: 1/11/2023 2:08:05 PM



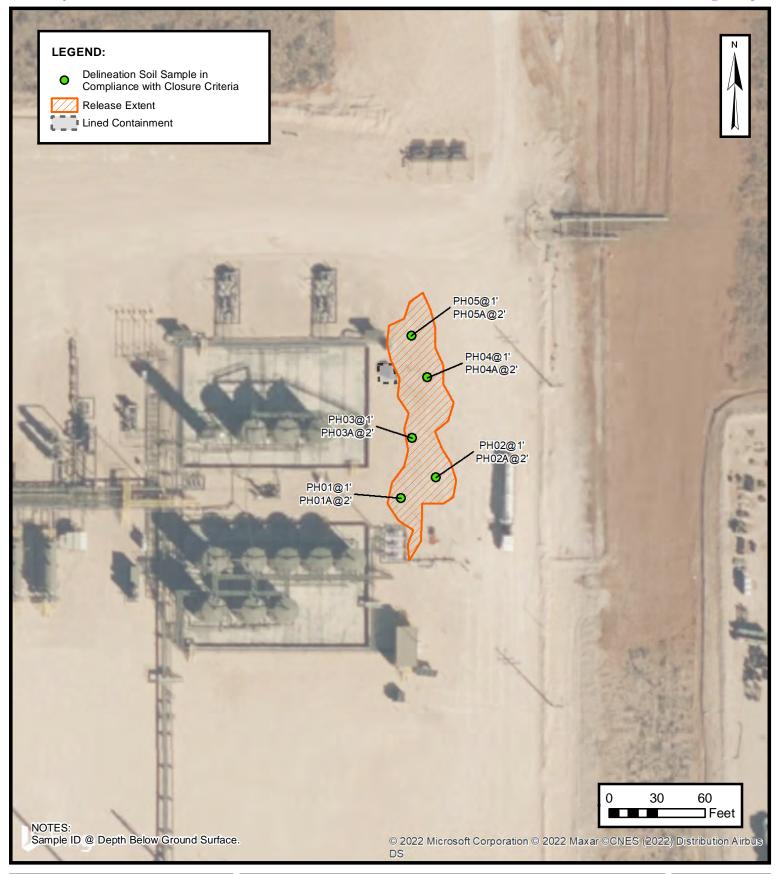


PRELIMINARY SOIL SAMPLE LOCATIONS

XTO ENERGY, INC
PLU 25 BRUSHY DRAW WEST CTB
NAPP2216138431

Unit E, Sec 25, T25S, R30E Eddy County, New Mexico FIGURE

2





DELINEATION SOIL SAMPLE LOCATIONS

XTO ENERGY, INC.
PLU 25 BRUSHY DRAW 25 WEST CTB
NAPP2216138431
Unit E, Sec 25, T25S, R30E
Eddy County, New Mexico

FIGURE

3



TABLES

Received by OCD: 11/1/2022 2:55:40 PM



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS PLU 25 Brushy Draw West CTB 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 1 (Closure Criteria (NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
Preliminary Soil Samples										
SS01	07/29/2022	0.25	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	152
SS02	07/29/2022	0.25	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	121
SS03	07/29/2022	0.25	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	34.7
SS04	07/29/2022	0.25	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	81.0
SS05	07/29/2022	0.25	<0.00201	<0.00402	<49.9	601	151	601	752	10,600
SS06	07/29/2022	0.25	<0.00200	<0.00399	<49.9	114	<49.9	114	114	1,910
SS07	07/29/2022	0.25	<0.00199	<0.00398	<50.0	966	164	966	1,130	17,600
SS08	07/29/2022	0.25	<0.00199	<0.00398	<49.8	57.3	<49.8	57.3	57.3	13,000
				Delir	neation Soil Sa	mples				
PH01	08/29/2022	1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	3,500
PH01A	08/29/2022	2	< 0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	3,320
PH02	08/29/2022	1	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	2,290
PH02A	08/29/2022	2	< 0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	2,070
PH03	08/29/2022	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	1,260
PH03A	08/29/2022	2	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	995
PH04	08/29/2022	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	2,090
PH04A	08/29/2022	2	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	484
PH05	08/29/2022	1	<0.00201	<0.00402	<49.9	80.4	<49.9	80.4	80.4	1,380
PH05A	08/29/2022	2	< 0.00200	<0.00401	<49.9	90.3	<49.9	90.3	90.3	1,810

Notes:

bgs: below ground surface
mg/kg: milligrams per kilogram
NMOCD: New Mexico Oil Conservation Division
BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes
Concentrations in bold exceed the NMOCD Table 1 Closure Criteria or reclamation standard where applicable.

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

Ensolum 1 of 1



APPENDIX A

Referenced Well Records

PAGE 1 OF 2



	OSE POD NO. (WELL NO.) WELL TAG I) .		OSE FILE NO	S).					
Į.	POD1 (BH-01) n/a						C-4498							
GENERAL AND WELL LOCATION	WELL OWNER NAME(S) XTO Energy (Kyle Littrell)							PHONE (OPTIONAL)						
07	WELL OWNER MAILING ADDRESS							CITY STATE ZIP						
ELL	6401 Holiday Hill Dr.						Midland		TX	79707	Zir			
N Q			DE	GREES	MINUTES	SECO	MDC	<u>I</u>						
NA.	· WELL			32°	6'		96" N	ACCURACY REQUIRED: ONE TENTH OF A SECOND						
RAI	(FROM GF	PS) 2211	TTUDE	-103°	50'	26	19" W	J	QUIRED: WGS 84					
ENE	DESCRIPTION OF THE PERSON OF T		NGITUDE					ATT ADVE						
1. G	i		T25S R30E	SIREEI ADDI	IARKS – FLS	s (Section, 10	wnshif, range) wh	CRE AV	AILABLE					
LICENSE NO. NAME OF LICENSED DRILLER									NAME OF WELL DRILLING COMPANY					
	124	19			Jackie D. Atkin	s			Atkins Eng	ineerin	g Associates, I	nc.		
	DRILLING S		DRILLING ENDED		OMPLETED WELL (LE DEPTH (FT)	DEPTH WATER FIRS					
	02/24/	2021	02/24/2021	tempo	rary well mater	iai		109		n/a				
Z	COMPLETE	O WELL IS:	ARTESIAN	DRY HO	LE SHALL	OW (UNC	ONFINED)		STATIC WATER LEV	EL IN C		LL (FT)		
OIT	DRILLING F	LUID:	AIR	☐ MUD	ADDITI	VES – SPE	CIFY:							
DRILLING & CASING INFORMATION	DRILLING METHOD: ROTARY HAMMER CAE						✓ OTHE	R – SPECIFY:	Hollow Stem Auger					
INF	DEPTH (feet bgl) FROM TO		BORE HOLE	DIAM (include each casing string, and		C.A	ASING	CASING	CAS	ING WALL	SLOT			
ING						ide each casing string, and		NECTION TYPE	INSIDE DIAM. (inches)		IICKNESS (inches)	SIZE (inches)		
CAS	0 109		±6.5	note sections of screen) (Boring- HSA			ling diameter)	(inches)						
3		109	±0.3		Bornig- nsA		<u> </u>		 					
Ž							-		<u> </u>					
RIL								-						
2. D				-		*								
									USE DII MAR	11.2	021 pm4; 28			
				ļ								<u> </u>		
	<u> </u>		<u> </u>	1			<u> </u>			<u> </u>		<u> </u>		
. 1	DEPTH (feet bgl) BORE HOLE			LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL				1			METHOD OF PLACEMENT			
RIAI	FROM	то	DIAM. (inches)	GRA	VEL PACK SIZI	E-RANG	E BY INTE	KVAL	(cubic feet)		PLACEN	IEN I		
TE														
L M														
TAF			1							+				
ANNULAR MATERIAL			1					•		+				
3. AI														
								_						
FOR	FOR OSE INTERNAL USE WR-20 WELL RECORD & LOG (Version 06/30/17)							0/17)						
FILE	ENO.	449	1 0		POD N	10		TRN		<u></u>) Q			

R 30E Sec 25

WELL TAG ID NO.

LOCATION

				.								
	DEPTH (1	feet bgl)	THICKNESS (feet)	INCLUDE WAT	ND TYPE OF MATER ER-BEARING CAVI pplemental sheets to	TIES OF	R FRAC	TURE ZONES	5	WAT BEAR (YES	ING?	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
ľ	0	34	34	Ca	liche, tan, no odor, no	stain, gr	avel, dr			Y	√ N	
Ì	34	40	6	1	, tan, no odor, no stair		-		1	Y	√ N	
.	40	56	16	sand, tan	, no odor, no stain, m-	f grain, v	vell sort	ied, dry		Y	√N	
	56	72	16	sandstone, low conso	lidation, tan, no odor,	no stain,	m-f gra	ain, well sorted	, dry	Y	√N	
	72	79	7	sand, tan	, no odor, no stain, m-	f grain, v	well sort	ted, dry		Y	√ N	
ا ب	79	109	30	sandstone, low - medi	um consolidation, tan,	no odor	, m-f gr	ained, well sor	ted, m	Y	√ N	
HYDROGEOLOGIC log of well					· · · · · · · · · · · · · · · · · · ·		-			Y	N	
OF.										Y	N	
ý									- 	Y	N	
										Y	N	
DO.						···			- 	Y	N	
EOI										Y	N	
200										Y	N	
									-		N	
4 H										Y	N N	
}									+	Y	N	
}											N N	
											N	
											N	
											N N	
									\dashv	Y	N N	
	METHOD LISED TO DETRIATE VIELD OF WATER READING STRATA.									L ESTIN		
										L YIELD		0.00
NC	WELL TES			ACH A COPY OF DA ME, AND A TABLE S								
ERVISION	MISCELLA	NEOUS INF	ORMATION: To	emporary well mater	ials removed and the	e soil be	oring b	ackfilled usir	ng drill	cuttings	from to	tal depth to ten
SUP				ogs adapted from WS			omp.			·		
TEST; RIG SUPERV								DE	E DII	MAR 1	.1 2021	. PM4,26
EST	PRINTNAN	(E(S) OF D	RILL RIG SUPE	RVISOR(S) THAT PRO	OVIDED ONSITE SU	PERVIS	ION O	F WELL CON	STRUC	TION O	THER TH	IAN LICENSEE:
5. T	Shane Eldri	` ,		(C) 11111 111	, , , , , , , , , , , , , , , , , , ,	22112						
URE	CORRECT	RECORD O	F THE ABOVE I	FIES THAT, TO THE I DESCRIBED HOLE A 30 DAYS AFTER COM	ND THAT HE OR SH	E WILI	FILE					
6. SIGNATURE	Jack d	Atkins		Ja	ackie D. Atkins		_			03/11	/2021	
		SIGNAT	URE OF DRILLE	ER / PRINT SIGNEE	NAME						DATE	<u> </u>
EOT	OGE DITTER	NAL LIGE						WD 20 WE	I DEC	ייש מפטי	I OG OJ	rsion 06/30/2017)
	E NO.	. 449°	3		POD NO.			TRN NO.	68	7.57	<u> </u>	181011 00/30/2017)
\vdash	CATION	132	T2.9	55 R30E	5,125		WELL	TAG ID NO.	<u> </u>	VA		PAGE 2 OF 2

John R. D Antonio, Jr., P.E. State Engineer



koswell Office 1900 WEST SECOND STREET ROSWELL, NM 88201

STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr:

682528

File Nbr:

C 04498

Well File Nbr: C 04498 POD1

Mar. 11, 2021

TACOMA MORRISEY WSP USA 3300 NORTH A STREET BLDG 1 #222 MIDLAND, TX 79705

Greetings:

The above numbered permit was issued in your name on 12/01/2020.

The Well Record was received in this office on 03/11/2021, stating that it had been completed on 02/24/2021, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 12/01/2021.

If you have any questions, please feel free to contact us.

Andrew Dennis (575) 622 - 6521

drywell

Eddy County, New Mexico
Latitude 32°06'46.0", Longitude 103°46'56.3" NAD83
Land-surface elevation 3,374.00 feet above NGVD29
The depth of the well is 400 feet below land surface.
This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer.
This well is completed in the Alluvium, Bolson Deposits and Other

Output formats

Table of data

Tab-separated data

Graph of data

Reselect period

Water Water level, level. Waterfeet Referenced Wat level feet Time 0 Parameter > above \$ vertical Date Method of Measuring ♀ Source of leve below Status datespecific datum code measurement agency app measurement land time vertical stal surface accuracy datum 62610 NGVD29 Z 1959-02-17 D 3055,98 P 1959-02-17 D 62611 3057.66 NAVD88 P Z 318.02 P Z 1959-02-17 D 72019 2013-01-17 19:40 UTC NGVD29 D S 62610 m S 2013-01-17 19:40 UTC 62611 NAVD88 D m 2013-01-17 19:40 UTC 72019 S m

Surface Deposits (110AVMB) local aquifer.



APPENDIX B

Photographic Log

ENSOLUM

Photographic Log

XTO Energy, Inc.
PLU 25 Brushy Draw West CTB
Incident Number NAPP2216138431



Photograph 1 Date: July 29, 2022

Description: Liner Inspection

View: Southwest



Photograph 1 Date: July 29, 2022

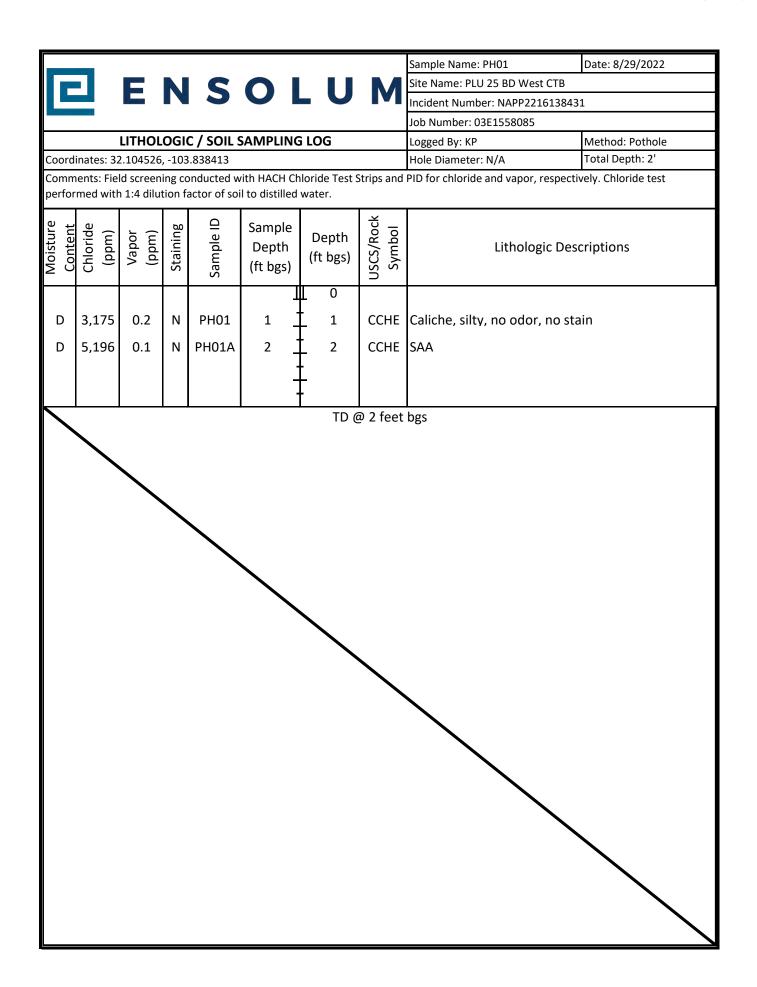
Description: Liner Inspection

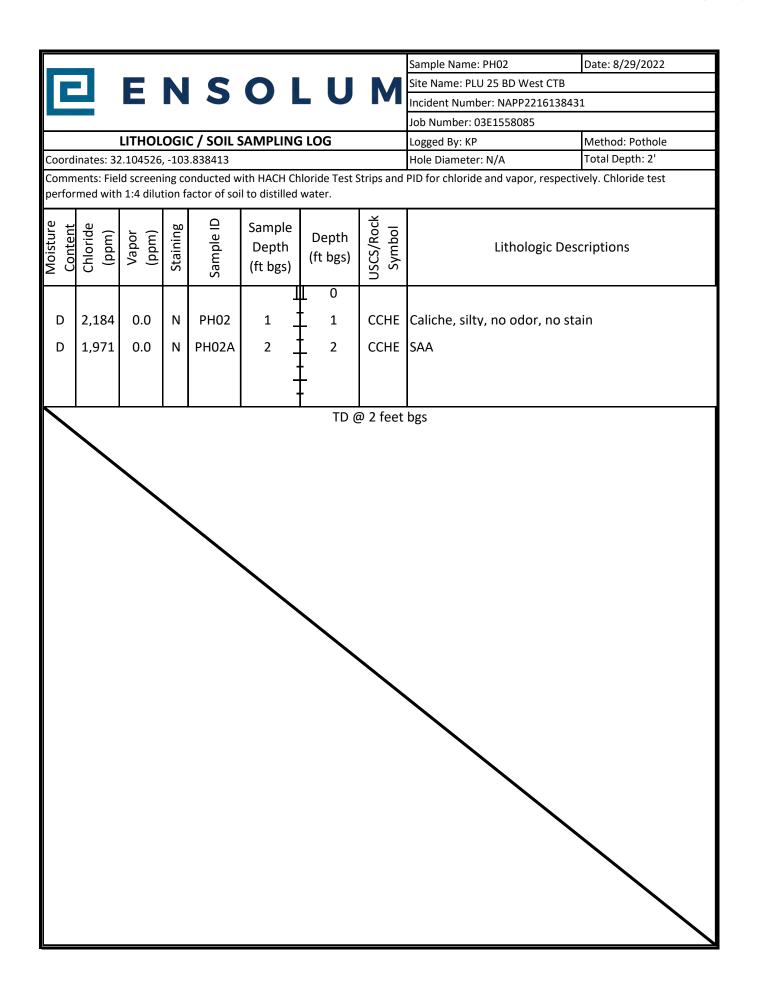
View: East

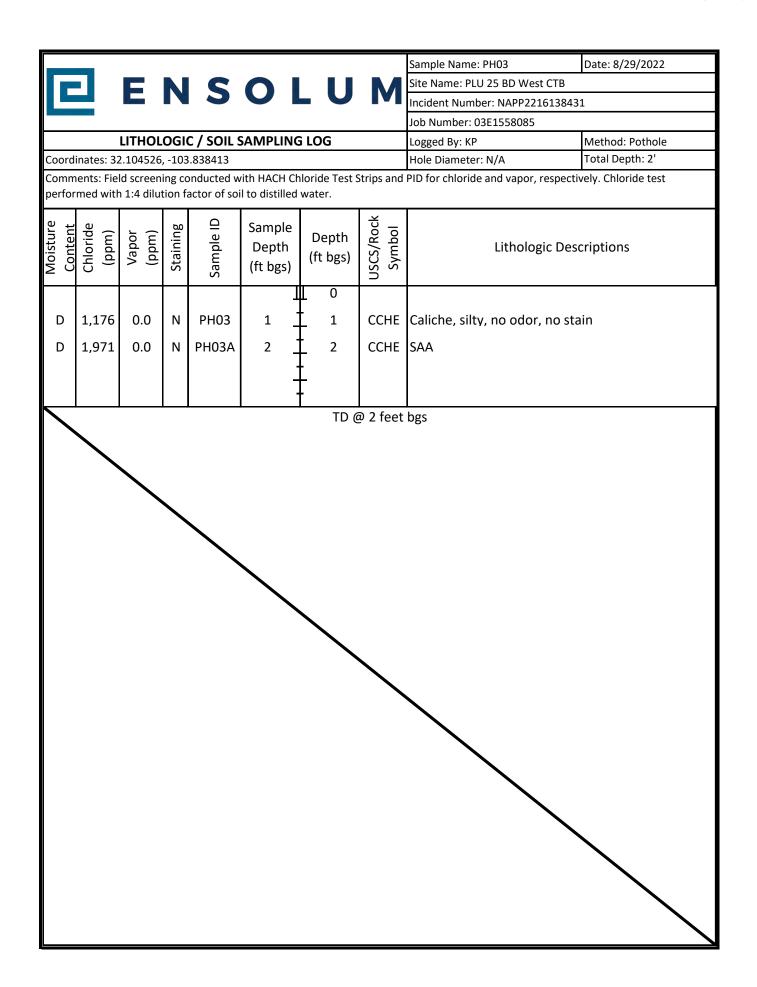


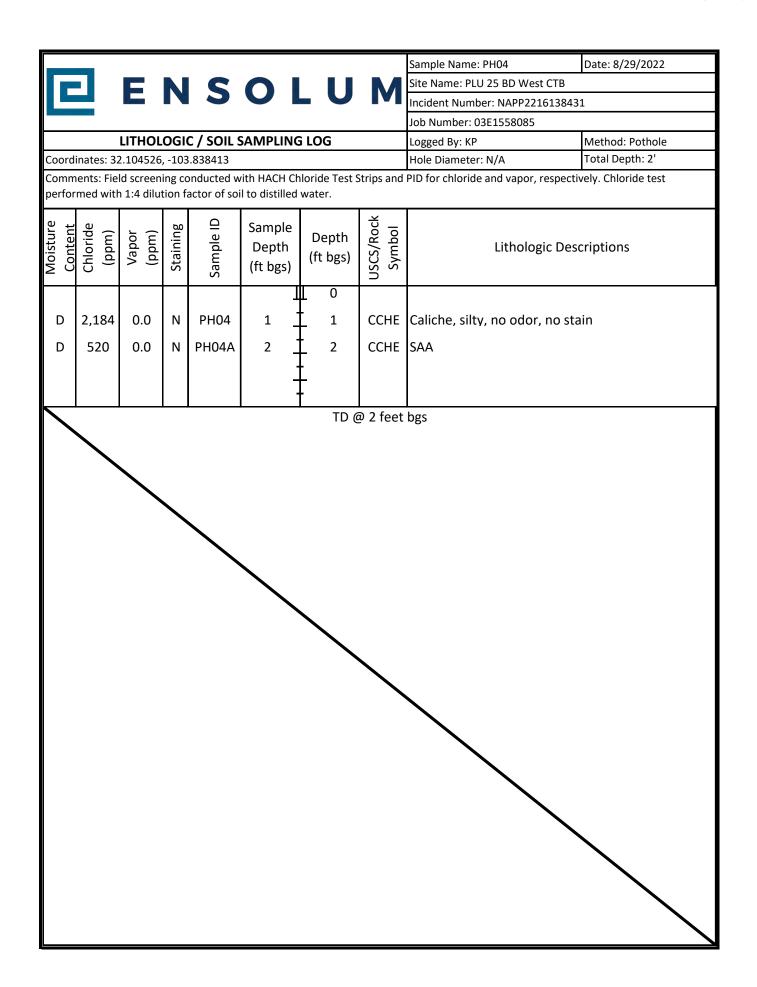
APPENDIX C

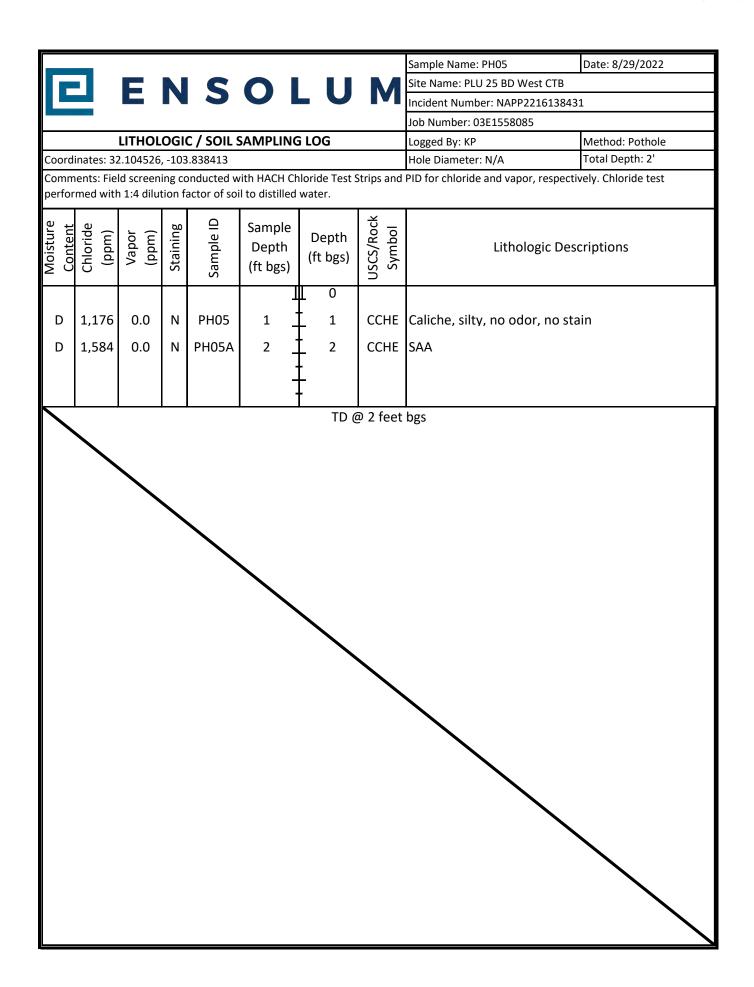
Lithologic Soil Sampling Logs













APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation

Released to Imaging: 1/11/2023 2:08:05 PM

Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-2694-1

Laboratory Sample Delivery Group: 03E1558085

Client Project/Site: Bushy Draw 25 CTB

Revision: 1

For:

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Kalei Jennings

RAMER

Authorized for release by: 8/11/2022 8:09:47 AM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Ensolum
Project/Site: Bushy Draw 25 CTB
Laboratory Job ID: 890-2694-1
SDG: 03E1558085

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	9
QC Sample Results	10
QC Association Summary	14
Lab Chronicle	16
Certification Summary	18
Method Summary	19
Sample Summary	20
Chain of Custody	21
Receint Checklists	22

2

3

4

6

8

10

12

13

14

Definitions/Glossary

Client: Ensolum Job ID: 890-2694-1 Project/Site: Bushy Draw 25 CTB

SDG: 03E1558085

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description** F1 MS and/or MSD recovery exceeds control limits. S1-Surrogate recovery exceeds control limits, low biased. U Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

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

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report. Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery **CFL** Contains Free Liquid **CFU** Colony Forming Unit **CNF** Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE) MCL

EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit ML Minimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

Practical Quantitation Limit PQL

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

Eurofins Carlsbad

Case Narrative

Client: Ensolum

Project/Site: Bushy Draw 25 CTB

Job ID: 890-2694-1

SDG: 03E1558085

Job ID: 890-2694-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2694-1

REVISION

The report being provided is a revision of the original report sent on 8/10/2022. The report (revision 1) is being revised due to Per client email, requesting sample IDs to be updated.

Report revision history

Receipt

The samples were received on 8/1/2022 8:17 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.2°C

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 matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-31442 and analytical batch 880-31457 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

HPLC/IC

Method 300 ORGFM 28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-31444 and analytical batch 880-31665 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client: Ensolum

Job ID: 890-2694-1 Project/Site: Bushy Draw 25 CTB SDG: 03E1558085

Client Sample ID: SS05 Lab Sample ID: 890-2694-1

Date Collected: 07/29/22 09:20 Matrix: Solid Date Received: 08/01/22 08:17

Sample Depth: .2'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		08/05/22 11:28	08/05/22 20:28	1
Toluene	< 0.00201	U	0.00201	mg/Kg		08/05/22 11:28	08/05/22 20:28	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		08/05/22 11:28	08/05/22 20:28	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		08/05/22 11:28	08/05/22 20:28	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		08/05/22 11:28	08/05/22 20:28	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		08/05/22 11:28	08/05/22 20:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130			08/05/22 11:28	08/05/22 20:28	1
1,4-Difluorobenzene (Surr)	109		70 - 130			08/05/22 11:28	08/05/22 20:28	1
- Method: Total BTEX - Total B	BTEX Calcula	tion						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			08/08/22 15:42	1
- Method: 8015 NM - Diesel R	ange Organic	s (DRO) (0	SC)					
Analyte	_	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	752		49.9	mg/Kg			08/05/22 13:04	1
Method: 8015B NM - Diesel	Range Organ	ics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/03/22 16:40	08/04/22 20:59	1
Diesel Range Organics (Over C10-C28)	601	F1	49.9	mg/Kg		08/03/22 16:40	08/04/22 20:59	1
Oll Range Organics (Over C28-C36)	151		49.9	mg/Kg		08/03/22 16:40	08/04/22 20:59	1
Surrogate	%Recovery		Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	63	S1-	70 - 130			08/03/22 16:40	08/04/22 20:59	1
o-Terphenyl	74		70 - 130			08/03/22 16:40	08/04/22 20:59	1
Method: 300.0 - Anions, Ion	Chromatogra	phy - Solu	ible					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10600		101	mg/Kg			08/09/22 15:18	20

Client Sample ID: SS06 Lab Sample ID: 890-2694-2 **Matrix: Solid**

Date Collected: 07/29/22 09:30 Date Received: 08/01/22 08:17

Sample Depth: .2'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/05/22 11:28	08/05/22 20:49	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/05/22 11:28	08/05/22 20:49	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/05/22 11:28	08/05/22 20:49	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		08/05/22 11:28	08/05/22 20:49	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/05/22 11:28	08/05/22 20:49	1
Xylenes, Total	< 0.00399	U	0.00399	mg/Kg		08/05/22 11:28	08/05/22 20:49	1

Job ID: 890-2694-1

SDG: 03E1558085

Client Sample ID: SS06

Date Collected: 07/29/22 09:30 Date Received: 08/01/22 08:17

Project/Site: Bushy Draw 25 CTB

Sample Depth: .2'

Client: Ensolum

Lab Sample ID: 890-2694-2

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130			08/05/22 11:28	08/05/22 20:49	1
1,4-Difluorobenzene (Surr)	92		70 - 130			08/05/22 11:28	08/05/22 20:49	1
Method: Total BTEX - Total B	ΓEX Calcula	tion						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			08/08/22 15:42	1
Method: 8015 NM - Diesel Rar	nge Organic	s (DRO) (0	SC)					
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	114		49.9	mg/Kg			08/05/22 13:04	1
-								
: Method: 8015B NM - Diesel R	ange Organi		•					
-	ange Organi	ics (DRO) Qualifier	(GC)	Unit	D	Prepared	Analyzed	Dil Fac
Method: 8015B NM - Diesel Ranalyte Gasoline Range Organics	ange Organi	Qualifier	•	Unit mg/Kg	<u>D</u>	Prepared 08/03/22 16:40	Analyzed 08/04/22 22:04	Dil Fac
Method: 8015B NM - Diesel Ranalyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ange Organi Result	Qualifier	RL		<u>D</u>	08/03/22 16:40		Dil Fac
Method: 8015B NM - Diesel Ranalyte Gasoline Range Organics (GRO)-C6-C10	ange Organ Result <49.9	Qualifier U	RL 49.9	mg/Kg	<u> </u>	08/03/22 16:40 08/03/22 16:40	08/04/22 22:04	Dil Fac
Method: 8015B NM - Diesel Ranalyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9	Qualifier U	49.9 49.9	mg/Kg	<u>D</u>	08/03/22 16:40 08/03/22 16:40	08/04/22 22:04 08/04/22 22:04	1
Method: 8015B NM - Diesel Ranalyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9 114 <49.9	Qualifier U	49.9 49.9 49.9	mg/Kg	<u>D</u>	08/03/22 16:40 08/03/22 16:40 08/03/22 16:40	08/04/22 22:04 08/04/22 22:04 08/04/22 22:04	Dil Fac

Client Sample ID: SS07

Date Collected: 07/29/22 09:40

Lab Sample ID: 890-2694-3

Matrix: Solid

RL

25.2

Unit

mg/Kg

Prepared

Analyzed

08/09/22 15:25

Date Received: 08/01/22 08:17

Method: 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier

1910

Sample Depth: .2'

Analyte

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		08/05/22 11:28	08/05/22 21:10	1
Toluene	< 0.00199	U	0.00199	mg/Kg		08/05/22 11:28	08/05/22 21:10	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		08/05/22 11:28	08/05/22 21:10	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/05/22 11:28	08/05/22 21:10	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		08/05/22 11:28	08/05/22 21:10	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/05/22 11:28	08/05/22 21:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130			08/05/22 11:28	08/05/22 21:10	1
1,4-Difluorobenzene (Surr)	99		70 - 130			08/05/22 11:28	08/05/22 21:10	1
- Method: Total BTEX - Tota	I BTEX Calcula	tion						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			08/08/22 15:42	1
IOIAI BTEX								
- -		s (DRO) (G	GC)					
Method: 8015 NM - Diesel Analyte	Range Organic	s (DRO) (G Qualifier	SC)	Unit	D	Prepared	Analyzed	Dil Fac

Eurofins Carlsbad

2

A

5

7

9

11

13

Dil Fac

Matrix: Solid

Lab Sample ID: 890-2694-3

Job ID: 890-2694-1

Client: Ensolum Project/Site: Bushy Draw 25 CTB SDG: 03E1558085

Client Sample ID: SS07

Date Collected: 07/29/22 09:40 Date Received: 08/01/22 08:17

Sample Depth: .2'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/03/22 16:40	08/04/22 22:25	1
Diesel Range Organics (Over C10-C28)	966		50.0	mg/Kg		08/03/22 16:40	08/04/22 22:25	1
Oll Range Organics (Over C28-C36)	164		50.0	mg/Kg		08/03/22 16:40	08/04/22 22:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130			08/03/22 16:40	08/04/22 22:25	1
o-Terphenyl	91		70 - 130			08/03/22 16:40	08/04/22 22:25	1

Analyte Result Qualifier RL Unit Dil Fac Prepared Analyzed Chloride 100 08/09/22 15:49 17600 mg/Kg

Client Sample ID: SS08 Lab Sample ID: 890-2694-4 Date Collected: 07/29/22 09:50 Matrix: Solid

Date Received: 08/01/22 08:17

Sample Depth: .2'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		08/05/22 11:28	08/05/22 21:31	1
Toluene	< 0.00199	U	0.00199	mg/Kg		08/05/22 11:28	08/05/22 21:31	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		08/05/22 11:28	08/05/22 21:31	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/05/22 11:28	08/05/22 21:31	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		08/05/22 11:28	08/05/22 21:31	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/05/22 11:28	08/05/22 21:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			08/05/22 11:28	08/05/22 21:31	1
1,4-Difluorobenzene (Surr)	99		70 - 130			08/05/22 11:28	08/05/22 21:31	1
Method: Total BTEX - Total B	ΓEX Calcula	tion						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			08/08/22 15:42	1
Method: 8015 NM - Diesel Rar	nge Organic	s (DRO) (0	GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	57.3		49.8	mg/Kg			08/05/22 13:04	1
Method: 8015B NM - Diesel R	ange Organ	ics (DRO)	(GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		08/03/22 16:40	08/04/22 22:47	1
Diesel Range Organics (Over C10-C28)	57.3		49.8	mg/Kg		08/03/22 16:40	08/04/22 22:47	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/03/22 16:40	08/04/22 22:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	70		70 - 130			08/03/22 16:40	08/04/22 22:47	
Tomoroodane	. •							

Client Sample Results

Client: Ensolum Job ID: 890-2694-1
Project/Site: Bushy Draw 25 CTB SDG: 03E1558085

Client Sample ID: SS08 Lab Sample ID: 890-2694-4

Date Collected: 07/29/22 09:50

Matrix: Solid

Date Received: 08/01/22 08:17 Sample Depth: .2'

Method: 300.0 - Anions, Ion Ch	romatography - Solul	ble					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13000	100	mg/Kg			08/09/22 15:57	20

4

5

9

11

13

Surrogate Summary

Client: Ensolum Job ID: 890-2694-1 Project/Site: Bushy Draw 25 CTB SDG: 03E1558085

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

			Percent	Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-17510-A-1-D MS	Matrix Spike	94	107	
880-17510-A-1-E MSD	Matrix Spike Duplicate	99	99	
890-2694-1	SS05	109	109	
890-2694-2	SS06	114	92	
890-2694-3	SS07	103	99	
890-2694-4	SS08	105	99	
LCS 880-31574/1-A	Lab Control Sample	90	105	
LCSD 880-31574/2-A	Lab Control Sample Dup	108	103	
MB 880-31574/5-A	Method Blank	94	95	
Surrogate Legend				
BFB = 4-Bromofluorob	enzene (Surr)			

DFBZ = 1,4-Difluorobenzene (Surr)

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

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

			Percent Surro	gate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2694-1	SS05	63 S1-	74	
890-2694-1 MS	SS05	68 S1-	69 S1-	
890-2694-1 MSD	SS05	80	82	
890-2694-2	SS06	70	82	
890-2694-3	SS07	80	91	
890-2694-4	SS08	70	87	
LCS 880-31442/2-A	Lab Control Sample	87	101	
LCSD 880-31442/3-A	Lab Control Sample Dup	83	95	
MB 880-31442/1-A	Method Blank	89	113	

Surrogate Legend

1CO = 1-Chlorooctane OTPH = o-Terphenyl

Project/Site: Bushy Draw 25 CTB

Client: Ensolum

Job ID: 890-2694-1

SDG: 03E1558085

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-31574/5-A

Matrix: Solid

Analysis Batch: 31617

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31574

	MB	MR						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/05/22 11:28	08/05/22 18:43	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/05/22 11:28	08/05/22 18:43	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/05/22 11:28	08/05/22 18:43	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/05/22 11:28	08/05/22 18:43	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/05/22 11:28	08/05/22 18:43	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/05/22 11:28	08/05/22 18:43	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	08/05/22 11:28	08/05/22 18:43	1
1,4-Difluorobenzene (Surr)	95		70 - 130	08/05/22 11:28	08/05/22 18:43	1

Lab Sample ID: LCS 880-31574/1-A

Matrix: Solid

Analysis Batch: 31617

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 31574

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1178		mg/Kg		118	70 - 130	
Toluene	0.100	0.1060		mg/Kg		106	70 - 130	
Ethylbenzene	0.100	0.08769		mg/Kg		88	70 - 130	
m-Xylene & p-Xylene	0.200	0.1821		mg/Kg		91	70 - 130	
o-Xylene	0.100	0.08916		mg/Kg		89	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: LCSD 880-31574/2-A

Matrix: Solid

Analysis Batch: 31617

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

Prep Batch: 31574

Spike	LCSD I	LCSD			%Rec		RPD
Added	Result (Qualifier	Unit	D %R	ec Limits	RPD	Limit
0.100	0.08890		mg/Kg		70 - 130	28	35
0.100	0.1103		mg/Kg	1	10 70 - 130	4	35
0.100	0.1009		mg/Kg	1	70 - 130	14	35
0.200	0.2213		mg/Kg	1	11 70 - 130	19	35
0.100	0.1081		mg/Kg	1	08 70 - 130	19	35
	Added 0.100 0.100 0.100 0.200	Added Result 0.100 0.08890 0.100 0.1103 0.100 0.1009 0.200 0.2213	Added Result Qualifier 0.100 0.08890 0.100 0.1103 0.100 0.1009 0.200 0.2213	Added Result Qualifier Unit 0.100 0.08890 mg/Kg 0.100 0.1103 mg/Kg 0.100 0.1009 mg/Kg 0.200 0.2213 mg/Kg	Added Result Qualifier Unit D %Result 0.100 0.08890 mg/Kg 8 0.100 0.1103 mg/Kg 17 0.100 0.1009 mg/Kg 16 0.200 0.2213 mg/Kg 17	Added Result Qualifier Unit D %Rec Limits 0.100 0.08890 mg/Kg 89 70 - 130 0.100 0.1103 mg/Kg 110 70 - 130 0.100 0.1009 mg/Kg 101 70 - 130 0.200 0.2213 mg/Kg 111 70 - 130	Added Result Qualifier Unit D %Rec Limits RPD 0.100 0.08890 mg/Kg 89 70 - 130 28 0.100 0.1103 mg/Kg 110 70 - 130 4 0.100 0.1009 mg/Kg 101 70 - 130 14 0.200 0.2213 mg/Kg 111 70 - 130 19

LCSD LCSD

<0.00200 U

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 880-17510-A-1-D MS

Matrix: Solid

Toluene

Analysis Batch: 31617

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

70 - 130

96

Prep Batch: 31574

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits mg/Kg Benzene <0.00200 U 0.100 0.1056 105 70 - 130

0.100

Eurofins Carlsbad

0.09624

mg/Kg

Client: Ensolum

Project/Site: Bushy Draw 25 CTB

Job ID: 890-2694-1

SDG: 03E1558085

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

Lab Sample ID: 880-17510-A-1-D MS

Matrix: Solid

Analysis Batch: 31617

Client Sample ID: Matrix Spike

Prep Type: Total/NA Prep Batch: 31574

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00200	U	0.100	0.08030		mg/Kg		78	70 - 130	
m-Xylene & p-Xylene	0.00528		0.201	0.1651		mg/Kg		80	70 - 130	
o-Xylene	0.00401		0.100	0.08112		mg/Kg		77	70 - 130	

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 31617

Lab Sample ID: 880-17510-A-1-E MSD

Prep Type: Total/NA

Prep Batch: 31574

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.0998	0.08498		mg/Kg		85	70 - 130	22	35
Toluene	< 0.00200	U	0.0998	0.09819		mg/Kg		98	70 - 130	2	35
Ethylbenzene	<0.00200	U	0.0998	0.08653		mg/Kg		85	70 - 130	7	35
m-Xylene & p-Xylene	0.00528		0.200	0.1858		mg/Kg		90	70 - 130	12	35
o-Xylene	0.00401		0.0998	0.09094		mg/Kg		87	70 - 130	11	35

MSD MSD

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

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

Lab Sample ID: MB 880-31442/1-A

Matrix: Solid

Analysis Batch: 31457

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

Prep Batch: 31442

	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	_	08/03/22 16:40	08/04/22 19:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/03/22 16:40	08/04/22 19:53	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/03/22 16:40	08/04/22 19:53	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	08/03/22 16:40 08/04/22 19:53	1
o-Terphenyl	113		70 - 130	08/03/22 16:40 08/04/22 19:53	1

Lab Sample ID: LCS 880-31442/2-A

Matrix: Solid

Analysis Batch: 31457

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

Prep Batch: 31442

	Spike	a LCS	LCS				%Rec	
Analyte	Added	d Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	0 1004		mg/Kg		100	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	0 972.1		mg/Kg		97	70 - 130	
C10-C28)								

Client: Ensolum Job ID: 890-2694-1 Project/Site: Bushy Draw 25 CTB SDG: 03E1558085

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

Lab Sample ID: LCS 880-31442/2-A

Matrix: Solid

Analysis Batch: 31457

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 31442

LCS LCS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 87 70 - 130 o-Terphenyl 101 70 - 130

Lab Sample ID: LCSD 880-31442/3-A

Matrix: Solid

Analysis Batch: 31457

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 31442

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Gasoline Range Organics 1000 882.1 mg/Kg 88 70 - 130 13 20 (GRO)-C6-C10 1000 Diesel Range Organics (Over 925.8 mg/Kg 93 70 - 130 5 20 C10-C28)

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	83		70 - 130
o-Terphenyl	95		70 - 130

Lab Sample ID: 890-2694-1 MS

Matrix: Solid

Analysis Batch: 31457

Client Sample ID: SS05 Prep Type: Total/NA

Prep Batch: 31442

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Limits Analyte Unit D %Rec Gasoline Range Organics Ū <49.9 999 827.1 mg/Kg 81 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 999 601 F1 1185 F1 mg/Kg 58 70 - 130

C10-C28)

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 68 S1-70 - 130 o-Terphenyl 69 S1-70 - 130

Lab Sample ID: 890-2694-1 MSD

Matrix: Solid

Analysis Batch: 31457

Client Sample ID: SS05 Prep Type: Total/NA

Prep Batch: 31442

%Rec **RPD**

Sample Sample Spike MSD MSD Result Qualifier Added Result Qualifier Limits **RPD** Limit Analyte Unit %Rec <49.9 U 999 934.1 91 70 - 130 12 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 601 F1 999 1431 mg/Kg 83 70 - 130 19 20

C10-C28)

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	80		70 - 130
o-Terphenyl	82		70 - 130

Client: Ensolum Project/Site: Bushy Draw 25 CTB

Job ID: 890-2694-1 SDG: 03E1558085

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-31444/1-A **Matrix: Solid**

Client Sample ID: Method Blank

Prep Type: Soluble

Analysis Batch: 31665

Analyte

Chloride

MB MB Result Qualifier RL Unit Analyzed Dil Fac D Prepared 5.00 08/09/22 14:15 <5.00 U mg/Kg

Lab Sample ID: LCS 880-31444/2-A Client Sample ID: Lab Control Sample **Matrix: Solid**

Prep Type: Soluble

Analysis Batch: 31665

Spike LCS LCS %Rec Added Result Qualifier Unit D %Rec Limits Analyte 250 90 - 110 Chloride 233.6 mg/Kg 93

Lab Sample ID: LCSD 880-31444/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 31665

Spike LCSD LCSD %Rec **RPD** Added Result Qualifier Limits **RPD** Analyte Unit %Rec Limit Chloride 250 234.4 94 90 - 110 20 mg/Kg

Lab Sample ID: 890-2690-A-1-C MS **Client Sample ID: Matrix Spike Matrix: Solid Prep Type: Soluble**

Analysis Batch: 31665

Spike MS MS %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 620 249 828.0 F1 mg/Kg 83 90 - 110

Lab Sample ID: 890-2690-A-1-D MSD **Client Sample ID: Matrix Spike Duplicate Matrix: Solid Prep Type: Soluble**

Analysis Batch: 31665

MSD MSD RPD Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Limit Chloride 620 F1 249 833.1 F1 85 mg/Kg 90 - 110

Lab Sample ID: 890-2695-A-4-C MS **Client Sample ID: Matrix Spike Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 31665

Sample Sample Spike MS MS %Rec Result Qualifier Added Analyte Result Qualifier Unit D %Rec Limits 251 Chloride 81.0 328.8 mg/Kg 99 90 - 110

Lab Sample ID: 890-2695-A-4-D MSD **Client Sample ID: Matrix Spike Duplicate Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 31665

Sample Sample Spike MSD MSD %Rec **RPD** Result Qualifier Added Analyte Result Qualifier Limits RPD Limit Unit D %Rec Chloride 81.0 251 327.2 98 mg/Kg 90 - 110 0

QC Association Summary

Client: Ensolum

Project/Site: Bushy Draw 25 CTB

Job ID: 890-2694-1 SDG: 03E1558085

GC VOA

Prep Batch: 31574

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2694-1	SS05	Total/NA	Solid	5035	
890-2694-2	SS06	Total/NA	Solid	5035	
890-2694-3	SS07	Total/NA	Solid	5035	
890-2694-4	SS08	Total/NA	Solid	5035	
MB 880-31574/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-31574/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-31574/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-17510-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
880-17510-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 31617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2694-1	SS05	Total/NA	Solid	8021B	31574
890-2694-2	SS06	Total/NA	Solid	8021B	31574
890-2694-3	SS07	Total/NA	Solid	8021B	31574
890-2694-4	SS08	Total/NA	Solid	8021B	31574
MB 880-31574/5-A	Method Blank	Total/NA	Solid	8021B	31574
LCS 880-31574/1-A	Lab Control Sample	Total/NA	Solid	8021B	31574
LCSD 880-31574/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	31574
880-17510-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	31574
880-17510-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	31574

Analysis Batch: 31799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2694-1	SS05	Total/NA	Solid	Total BTEX	
890-2694-2	SS06	Total/NA	Solid	Total BTEX	
890-2694-3	SS07	Total/NA	Solid	Total BTEX	
890-2694-4	SS08	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 31442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2694-1	SS05	Total/NA	Solid	8015NM Prep	
890-2694-2	SS06	Total/NA	Solid	8015NM Prep	
890-2694-3	SS07	Total/NA	Solid	8015NM Prep	
890-2694-4	SS08	Total/NA	Solid	8015NM Prep	
MB 880-31442/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-31442/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-31442/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2694-1 MS	SS05	Total/NA	Solid	8015NM Prep	
890-2694-1 MSD	SS05	Total/NA	Solid	8015NM Prep	

Analysis Batch: 31457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2694-1	SS05	Total/NA	Solid	8015B NM	31442
890-2694-2	SS06	Total/NA	Solid	8015B NM	31442
890-2694-3	SS07	Total/NA	Solid	8015B NM	31442
890-2694-4	SS08	Total/NA	Solid	8015B NM	31442
MB 880-31442/1-A	Method Blank	Total/NA	Solid	8015B NM	31442
LCS 880-31442/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	31442

QC Association Summary

Client: Ensolum
Project/Site: Bushy Draw 25 CTB

Job ID: 890-2694-1 SDG: 03E1558085

GC Semi VOA (Continued)

Analysis Batch: 31457 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-31442/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	31442
890-2694-1 MS	SS05	Total/NA	Solid	8015B NM	31442
890-2694-1 MSD	SS05	Total/NA	Solid	8015B NM	31442

Analysis Batch: 31588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2694-1	SS05	Total/NA	Solid	8015 NM	
890-2694-2	SS06	Total/NA	Solid	8015 NM	
890-2694-3	SS07	Total/NA	Solid	8015 NM	
890-2694-4	SS08	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 31444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2694-1	SS05	Soluble	Solid	DI Leach	
890-2694-2	SS06	Soluble	Solid	DI Leach	
890-2694-3	SS07	Soluble	Solid	DI Leach	
890-2694-4	SS08	Soluble	Solid	DI Leach	
MB 880-31444/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-31444/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-31444/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2690-A-1-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2690-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
890-2695-A-4-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2695-A-4-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 31665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2694-1	SS05	Soluble	Solid	300.0	31444
890-2694-2	SS06	Soluble	Solid	300.0	31444
890-2694-3	SS07	Soluble	Solid	300.0	31444
890-2694-4	SS08	Soluble	Solid	300.0	31444
MB 880-31444/1-A	Method Blank	Soluble	Solid	300.0	31444
LCS 880-31444/2-A	Lab Control Sample	Soluble	Solid	300.0	31444
LCSD 880-31444/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	31444
890-2690-A-1-C MS	Matrix Spike	Soluble	Solid	300.0	31444
890-2690-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	31444
890-2695-A-4-C MS	Matrix Spike	Soluble	Solid	300.0	31444
890-2695-A-4-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	31444

Eurofins Carlsbad

3

4

6

8

9

10

12

Job ID: 890-2694-1

SDG: 03E1558085

Client Sample ID: SS05

Project/Site: Bushy Draw 25 CTB

Client: Ensolum

Date Collected: 07/29/22 09:20 Date Received: 08/01/22 08:17 Lab Sample ID: 890-2694-1

Matrix: Solid

Batch Dil Batch Batch Initial Final Prepared Method Number or Analyzed **Prep Type** Type Run **Factor Amount** Amount Analyst Lab Total/NA 5035 31574 08/05/22 11:28 EETSC MID Prep 4.97 g 5 mL MR Total/NA 8021B 31617 08/05/22 20:28 MR EETSC M Analysis 1 5 mL 5 mL Total/NA Analysis **Total BTEX** 31799 08/08/22 15:42 SM EETSC M Total/NA 8015 NM EETSC M Analysis 1 31588 08/05/22 13:04 AJ 31442 EETSC M Total/NA Prep 8015NM Prep 10.02 g 10 mL 08/03/22 16:40 DM Total/NA 8015B NM 31457 EETSC M Analysis 1 08/04/22 20:59 AJ Soluble 31444 08/03/22 17:00 SMC Leach DI Leach 4.96 g 50 mL EETSC M Soluble 300.0 20 31665 08/09/22 15:18 CH EETSC M Analysis

Client Sample ID: SS06

Date Collected: 07/29/22 09:30

Lab Sample ID: 890-2694-2

Matrix: Solid

Date Received: 08/01/22 08:17

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	31574	08/05/22 11:28	MR	EETSC MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31617	08/05/22 20:49	MR	EETSC M
Total/NA	Analysis	Total BTEX		1			31799	08/08/22 15:42	SM	EETSC M
Total/NA	Analysis	8015 NM		1			31588	08/05/22 13:04	AJ	EETSC M
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	31442	08/03/22 16:40	DM	EETSC M
Total/NA	Analysis	8015B NM		1			31457	08/04/22 22:04	AJ	EETSC M
Soluble	Leach	DI Leach			4.96 g	50 mL	31444	08/03/22 17:00	SMC	EETSC M
Soluble	Analysis	300.0		5			31665	08/09/22 15:25	CH	EETSC M

Client Sample ID: SS07

Date Collected: 07/29/22 09:40

Lab Sample ID: 890-2694-3

Matrix: Solid

Date Received: 08/01/22 08:17

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	31574	08/05/22 11:28	MR	EETSC MII
Total/NA	Analysis	8021B		1	5 mL	5 mL	31617	08/05/22 21:10	MR	EETSC M
Total/NA	Analysis	Total BTEX		1			31799	08/08/22 15:42	SM	EETSC M
Total/NA	Analysis	8015 NM		1			31588	08/05/22 13:04	AJ	EETSC M
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31442	08/03/22 16:40	DM	EETSC M
Total/NA	Analysis	8015B NM		1			31457	08/04/22 22:25	AJ	EETSC M
Soluble	Leach	DI Leach			4.98 g	50 mL	31444	08/03/22 17:00	SMC	EETSC M
Soluble	Analysis	300.0		20			31665	08/09/22 15:49	CH	EETSC M

Client Sample ID: SS08

Lab Sample ID: 890-2694-4

Date Collected: 07/29/22 09:50

Matrix: Solid

Date Received: 08/01/22 08:17

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	31574	08/05/22 11:28	MR	EETSC MIC
Total/NA	Analysis	8021B		1	5 mL	5 mL	31617	08/05/22 21:31	MR	EETSC M
Total/NA	Analysis	Total BTEX		1			31799	08/08/22 15:42	SM	EETSC M

Eurofins Carlsbad

2

3

5

6

9

10

Lab Chronicle

Client: Ensolum Job ID: 890-2694-1
Project/Site: Bushy Draw 25 CTB SDG: 03E1558085

Client Sample ID: 890-2694-4

Date Collected: 07/29/22 09:50

Date Received: 08/01/22 08:17

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			31588	08/05/22 13:04	AJ	EETSC MIC
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	31442	08/03/22 16:40	DM	EETSC M
Total/NA	Analysis	8015B NM		1			31457	08/04/22 22:47	AJ	EETSC M
Soluble	Leach	DI Leach			5 g	50 mL	31444	08/03/22 17:00	SMC	EETSC M
Soluble	Analysis	300.0		20			31665	08/09/22 15:57	CH	EETSC M

Laboratory References:

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

E

6

R

9

10

12

13

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-2694-1
Project/Site: Bushy Draw 25 CTB SDG: 03E1558085

Laboratory: Eurofins Midland

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

Authority	Pro	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-22-24	06-30-23
The following analyte:	s are included in this repo	ort, but the laboratory is r	not certified by the governing authority.	This list may include analytes for wh
the agency does not	•	,	g aamensy.	This list may include analytes let wi
the agency does not of Analysis Method	•	Matrix	Analyte	The lot may molade analyses is in
0 ,	offer certification.	•	, , ,	

4

5

6

9

4 4

12

13

Method Summary

Client: Ensolum

Method

Total BTEX

8015 NM

8015B NM

8015NM Prep

DI Leach

300.0

5035

8021B

Project/Site: Bushy Draw 25 CTB

Method Description

Total BTEX Calculation

Microextraction

Volatile Organic Compounds (GC)

Diesel Range Organics (DRO) (GC)

Diesel Range Organics (DRO) (GC)

Deionized Water Leaching Procedure

Anions, Ion Chromatography

Closed System Purge and Trap

Job ID: 890-2694-1

SDG: 03E1558085

		_
Protocol	Laboratory	
SW846	EETSC MID	_
TAL SOP	EETSC MID	
SW846	EETSC MID	
SW846	EETSC MID	
MCAWW	EETSC MID	
SW846	FFTSC MID	

EETSC MID

EETSC MID

SW846

SW846

ASTM

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum

Project/Site: Bushy Draw 25 CTB

Job ID: 890-2694-1

SDG: 03E1558085

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2694-1	SS05	Solid	07/29/22 09:20	08/01/22 08:17	.2'
890-2694-2	SS06	Solid	07/29/22 09:30	08/01/22 08:17	.2'
890-2694-3	SS07	Solid	07/29/22 09:40	08/01/22 08:17	.2'
890-2694-4	SS08	Solid	07/29/22 09:50	08/01/22 08:17	.2'

K Se Ag SiO₂ Na Sr Tl Sn U V Zn

Z

8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo

Hg: 1631 / 245.1 / 7470 / 7471

Sample Identification

tolice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control TCLP/SPLP6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Circle Method(s) and Metal(s) to be analyzed

200.8 / 6020:

Total 200.7 / 6010

Eurofins Xenco. A minimum charge of \$85.00 will t	Furofins Xenco. Aminimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	bmitted to Eurofins Xenco, but not anal	yzed. These terms will be enforced unless previously r	negotiated.	
Relinguished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
11111	0 11 000	K-138/11	2		
MAN	1		4		
			9		
					Revised Date 08/25/2020 Rev. 2020

Chain of Custody

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

Environment Testing

seurofins :

Work Order No:

			www.xenco.com raye
Kalei, Jennins	Bill to: (if different)	General Creen	Work Order Comments
Ersolum	Company Name:	X70 Erryy	Program: UST/PST PRP Brownfields RRC Superfund
2122 Naring	destablishess:	3104 E Chames	State of Project:
Carlehas NM 3	8220/ City, State ZIP:	Carls had NM 88790	Carls had NM 88390 Reporting: Level III DST/UST TRRP Level IV
817-487-2507	Email:		Deliverables: EDD ADaPT Other:

ANALYSIS REQUEST

Pres. Code Turn Around

15.5

Project Name:

Project Number:

Project Location: Sampler's Name:

PO #:

DI Water: H₂O

None: NO Cool: Cool

Preservative Codes

HNO 3: HN MeOH: Me

NaOH: Na

H2SO4: H2 HCL: HC

NaOH+Ascorbic Acid: SAPC

890-2694 Chain of Custody

Zn Acetate+NaOH: Zn

Na 25 203: NaSO NaHSO 4: NABIS

H,PO 4: HP

Sample Comments

00/28/20

TAT starts the day received by the lab, if received by 4:30pm Yes) Due Date: Wet Ice:

Corrected Temperature: Temperature Reading: Correction Factor: Thermometer ID: Yes No

Parameters

TIme Date

Sampled Sampled

of Cont

Depth

Grab/ Comp 5

0470 67-1

727

1-19

Matrix

Yes No N No Say Yes No

Ferap Blank:

SAMPLE RECEIPT

samples Received Intact: Sample Custody Seals: Cooler Custody Seals: Total Containers:

Page 21 of 23

Project Manager Company Name

City, State ZIP:

Phone:

Address:

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-2694-1 SDG Number: 03E1558085

Login Number: 2694 **List Source: Eurofins Carlsbad**

List Number: 1

Creator: Stutzman, Amanda

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.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

8/11/2022 (Rev. 1)

Login Sample Receipt Checklist

 Client: Ensolum
 Job Number: 890-2694-1

 SDG Number: 03E1558085

List Source: Eurofins Midland
List Number: 2
List Creation: 08/02/22 10:44 AM

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	

1

<6mm (1/4").

Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-2695-1

Laboratory Sample Delivery Group: 03E1558085

Client Project/Site: Bushy Draw 25

For:

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Kalei Jennings

RAMER

Authorized for release by: 8/10/2022 7:58:06 AM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Ensolum

Project/Site: Bushy Draw 25

Laboratory Job ID: 890-2695-1

SDG: 03E1558085

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	9
QC Sample Results	10
QC Association Summary	16
Lab Chronicle	19
Certification Summary	21
Method Summary	22
Sample Summary	23
Chain of Custody	24
Receint Checklists	25

3

4

6

8

10

11

13

Definitions/Glossary

Job ID: 890-2695-1 Client: Ensolum Project/Site: Bushy Draw 25

SDG: 03E1558085

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier **Qualifier Description** F1 MS and/or MSD recovery exceeds control limits.

F2 MS/MSD RPD exceeds control limits

S1-Surrogate recovery exceeds control limits, low biased. S1+ Surrogate recovery exceeds control limits, high biased.

HPLC/IC

Qualifier **Qualifier Description**

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

Glossary

%R

Abbreviation	The	se c	omi	nor	nly us	ed al	bre	via	tion	ıs m	ay	or ma	y not be p	resent in	this r	eport.

Indicates the analyte was analyzed for but not detected.

¤ Listed under the "D" column to designate that the result is reported on a dry weight basis

CFL Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid

Percent Recovery

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

Decision Level Concentration (Radiochemistry) DLC

EDL Estimated Detection Limit (Dioxin) Limit of Detection (DoD/DOE) LOD LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" Minimum Detectable Activity (Radiochemistry) MDA Minimum Detectable Concentration (Radiochemistry) MDC

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**

Presumptive **PRES** QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

Toxicity Equivalent Factor (Dioxin) TEF Toxicity Equivalent Quotient (Dioxin) TFO

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Project/Site: Bushy Draw 25

Job ID: 890-2695-1 SDG: 03E1558085

1558085

Job ID: 890-2695-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2695-1

Receipt

The samples were received on 8/1/2022 8:17 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.2°C

GC VOA

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 matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-31438 and analytical batch 880-31455 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-31438 and analytical batch 880-31455 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-31438/2-A) and (890-2702-A-1-B MS). Evidence of matrix interferences is not obvious.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-31444 and analytical batch 880-31665 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

4

5

6

9

11

14

Eurofins Carlsbad 8/10/2022
 Client: Ensolum
 Job ID: 890-2695-1

 Project/Site: Bushy Draw 25
 SDG: 03E1558085

Client Sample ID: SS01 Lab Sample ID: 890-2695-1

Date Collected: 07/29/22 10:10 Matrix: Solid
Date Received: 08/01/22 08:17

Sample Depth: .2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		08/05/22 11:52	08/07/22 16:48	1
Toluene	<0.00201	U	0.00201	mg/Kg		08/05/22 11:52	08/07/22 16:48	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		08/05/22 11:52	08/07/22 16:48	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		08/05/22 11:52	08/07/22 16:48	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		08/05/22 11:52	08/07/22 16:48	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		08/05/22 11:52	08/07/22 16:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130			08/05/22 11:52	08/07/22 16:48	1
1,4-Difluorobenzene (Surr)	102		70 - 130			08/05/22 11:52	08/07/22 16:48	1
Method: Total BTEX - Total BTEX	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			08/09/22 16:25	1
Method: 8015 NM - Diesel Range	Organics (DIX	o) (GC)						
Analyte Total TDU		Qualifier	RL	Unit ma/Ka	D	Prepared	Analyzed	
Analyte Total TPH	Result <50.0		RL 50.0	Mnit mg/Kg	<u>D</u>	Prepared	Analyzed 08/05/22 08:59	
	<50.0	U			<u>D</u>	Prepared		
Total TPH Method: 8015B NM - Diesel Ran	<50.0	U			<u>D</u> 	Prepared Prepared		1
Total TPH	<50.0	RO) (GC) Qualifier	50.0	mg/Kg		<u> </u>	08/05/22 08:59	1 Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	<50.0 ge Organics (D	RO) (GC) Qualifier	50.0	mg/Kg		Prepared	08/05/22 08:59 Analyzed	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<50.0 ge Organics (Di Result <50.0	RO) (GC) Qualifier U	50.0 RL 50.0	mg/Kg Unit mg/Kg		Prepared 08/03/22 15:56	08/05/22 08:59 Analyzed 08/04/22 16:38	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<50.0 ge Organics (Di Result <50.0 <50.0	RO) (GC) Qualifier U	50.0 RL 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 08/03/22 15:56 08/03/22 15:56	08/05/22 08:59 Analyzed 08/04/22 16:38 08/04/22 16:38	1 Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<50.0 ge Organics (Di Result <50.0 <50.0 <50.0	U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 08/03/22 15:56 08/03/22 15:56 08/03/22 15:56	08/05/22 08:59 Analyzed 08/04/22 16:38 08/04/22 16:38	Dil Face 1 1 1 Dil Face
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<50.0 ge Organics (D) Result <50.0 <50.0 <50.0 %Recovery 58	U RO) (GC) Qualifier U U Qualifier	50.0 RL 50.0 50.0 50.0 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 08/03/22 15:56 08/03/22 15:56 08/03/22 15:56 Prepared	Analyzed 08/04/22 16:38 08/04/22 16:38 08/04/22 16:38 Analyzed	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<50.0 ge Organics (D) Result <50.0 <50.0 <50.0 %Recovery 58 66	CONTROL (GC) Qualifier U U Qualifier S1- S1-	50.0 RL 50.0 50.0 50.0 Limits 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 08/03/22 15:56 08/03/22 15:56 08/03/22 15:56 Prepared 08/03/22 15:56	08/05/22 08:59 Analyzed 08/04/22 16:38 08/04/22 16:38 Analyzed 08/04/22 16:38	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<50.0 ge Organics (D) Result <50.0 <50.0 <50.0 <50.0 %Recovery 58 66 omatography -	CONTROL (GC) Qualifier U U Qualifier S1- S1-	50.0 RL 50.0 50.0 50.0 Limits 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 08/03/22 15:56 08/03/22 15:56 08/03/22 15:56 Prepared 08/03/22 15:56	08/05/22 08:59 Analyzed 08/04/22 16:38 08/04/22 16:38 Analyzed 08/04/22 16:38	Dil Fac 1 Dil Fac 1 1 Dil Fac 1 Dil Fac 1 Dil Fac

Client Sample ID: SS02 Lab Sample ID: 890-2695-2

Date Collected: 07/29/22 10:20
Date Received: 08/01/22 08:17

Sample Depth: .2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/05/22 11:52	08/07/22 17:09	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/05/22 11:52	08/07/22 17:09	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/05/22 11:52	08/07/22 17:09	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		08/05/22 11:52	08/07/22 17:09	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/05/22 11:52	08/07/22 17:09	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		08/05/22 11:52	08/07/22 17:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130			08/05/22 11:52	08/07/22 17:09	1

Eurofins Carlsbad

Matrix: Solid

2

3

4

6

8

10

12

Matrix: Solid

Lab Sample ID: 890-2695-2

Job ID: 890-2695-1

Client: Ensolum Project/Site: Bushy Draw 25 SDG: 03E1558085

Client Sample ID: SS02

Date Collected: 07/29/22 10:20 Date Received: 08/01/22 08:17

Sample Depth: .2

Method: 8021B - Volatile O	rganic Compou	nds (GC)	(Continued)
Michiga: OUL 1B Volume C	i gaino compou	1145 (55)	(Goillinaca)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	114		70 - 130	08/05/22 11:52	08/07/22 17:09	1

Mothod:	Total	RTFY	- Total	RTFY	Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			08/09/22 16:25	1

Mothod: 9015 NM - Diocol Pango Oro	rapice (DPO) (CC)

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U	49.9	mg/Kg			08/05/22 08:59	1

		_			
Method: 8015B	NM - Diesel	Range Org	ranics ('DROL	GC
motriou. ou rob	THE DIGGOL	itunge or	garnoo (D. (U)	(–

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		08/03/22 15:56	08/04/22 16:59	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		08/03/22 15:56	08/04/22 16:59	1
C10-C28)								
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/03/22 15:56	08/04/22 16:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

our oguto	,	~~~~~			, .	
1-Chlorooctane	63	S1-	70 - 130	08/03/22 15:56	08/04/22 16:59	
o-Terphenyl	69	S1-	70 - 130	08/03/22 15:56	08/04/22 16:59	
_						

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	121	5.04	mg/Kg			08/09/22 16:12	1

Client Sample ID: SS03 Lab Sample ID: 890-2695-3 Matrix: Solid

Date Collected: 07/29/22 10:30 Date Received: 08/01/22 08:17

Sample Depth: .2

Michiga. 002 1D - Volatile Orga	ine compounds	(30)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/05/22 11:52	08/07/22 17:30	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/05/22 11:52	08/07/22 17:30	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/05/22 11:52	08/07/22 17:30	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		08/05/22 11:52	08/07/22 17:30	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/05/22 11:52	08/07/22 17:30	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		08/05/22 11:52	08/07/22 17:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130			08/05/22 11:52	08/07/22 17:30	1
1,4-Difluorobenzene (Surr)	117		70 - 130			08/05/22 11:52	08/07/22 17:30	1

Mothod:	Total RT	EY Tota	I DTEY	Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00399	U	0.00399	ma/Ka			08/09/22 16:25	1

Analyte		Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH		<50.0	U	50.0	mg/Kg		-	08/05/22 08:59	1

Matrix: Solid

Lab Sample ID: 890-2695-3

Client: Ensolum Job ID: 890-2695-1 Project/Site: Bushy Draw 25 SDG: 03E1558085

Client Sample ID: SS03

Date Collected: 07/29/22 10:30 Date Received: 08/01/22 08:17

Sample Depth: .2

Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		08/03/22 15:09	08/05/22 03:52	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		08/03/22 15:09	08/05/22 03:52	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/03/22 15:09	08/05/22 03:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130			08/03/22 15:09	08/05/22 03:52	1
o-Terphenyl	127		70 - 130			08/03/22 15:09	08/05/22 03:52	1
- Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	34.7		4.98	mg/Kg			08/09/22 16:20	1

Client Sample ID: SS04 Lab Sample ID: 890-2695-4 Date Collected: 07/29/22 10:40 **Matrix: Solid**

Date Received: 08/01/22 08:17

Sample Depth: .2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		08/05/22 11:52	08/07/22 17:51	1
Toluene	< 0.00199	U	0.00199	mg/Kg		08/05/22 11:52	08/07/22 17:51	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		08/05/22 11:52	08/07/22 17:51	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/05/22 11:52	08/07/22 17:51	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		08/05/22 11:52	08/07/22 17:51	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/05/22 11:52	08/07/22 17:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130			08/05/22 11:52	08/07/22 17:51	1
1,4-Difluorobenzene (Surr)	110		70 - 130			08/05/22 11:52	08/07/22 17:51	1
- Method: Total BTEX - Total B	TEX Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			08/09/22 16:25	1
- Method: 8015 NM - Diesel Rai	nge Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			08/05/22 08:59	1
_ Method: 8015B NM - Diesel R	ange Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Surrogate 1-Chlorooctane	%Recovery 93	Qualifier	70 - 130		Prepared 08/03/22 15:09	Analyzed 08/05/22 04:14	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg	08/03/22 15:09	08/05/22 04:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg	08/03/22 15:09	08/05/22 04:14	1
(GRO)-C6-C10							

70 - 130

49.9

mg/Kg

<49.9 U

106

Eurofins Carlsbad

08/05/22 04:14

08/05/22 04:14

08/03/22 15:09

08/03/22 15:09

8/10/2022

Gasoline Range Organics

o-Terphenyl

Client Sample Results

 Client: Ensolum
 Job ID: 890-2695-1

 Project/Site: Bushy Draw 25
 SDG: 03E1558085

Client Sample ID: SS04 Lab Sample ID: 890-2695-4

Date Collected: 07/29/22 10:40 Matrix: Solid

Date Collected: 07/29/22 10:40 Matrix: Soil

Date Received: 08/01/22 08:17

Sample Depth: .2

Method: 300.0 - Anions, Ion Chromatography - Soluble											
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac			
Chloride	81.0		5.01	mg/Kg			08/09/22 16:28	1			

5

Я

40

11

13

Surrogate Summary

Client: Ensolum Job ID: 890-2695-1 Project/Site: Bushy Draw 25 SDG: 03E1558085

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2692-A-1-F MS	Matrix Spike	98	104	
890-2692-A-1-G MSD	Matrix Spike Duplicate	96	102	
890-2695-1	SS01	113	102	
890-2695-2	SS02	104	114	
890-2695-3	SS03	109	117	
890-2695-4	SS04	114	110	
LCS 880-31576/1-A	Lab Control Sample	96	106	
LCSD 880-31576/2-A	Lab Control Sample Dup	92	103	
MB 880-31576/5-A	Method Blank	98	95	
Surrogate Legend				
BFB = 4-Bromofluorober	nzene (Surr)			

DFBZ = 1,4-Difluorobenzene (Surr)

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

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

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-17544-A-1-D MS	Matrix Spike	69 S1-	73	
880-17544-A-1-E MSD	Matrix Spike Duplicate	79	81	
890-2695-1	SS01	58 S1-	66 S1-	
890-2695-2	SS02	63 S1-	69 S1-	
890-2695-3	SS03	110	127	
890-2695-4	SS04	93	106	
890-2702-A-1-B MS	Matrix Spike	67 S1-	76	
890-2702-A-1-C MSD	Matrix Spike Duplicate	79	88	
LCS 880-31438/2-A	Lab Control Sample	124	131 S1+	
LCS 880-31439/2-A	Lab Control Sample	86	97	
LCSD 880-31438/3-A	Lab Control Sample Dup	121	129	
LCSD 880-31439/3-A	Lab Control Sample Dup	88	101	
MB 880-31438/1-A	Method Blank	88	104	
MB 880-31439/1-A	Method Blank	96	118	

1CO = 1-Chlorooctane OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-2695-1 SDG: 03E1558085 Project/Site: Bushy Draw 25

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-31576/5-A

Lab Sample ID: LCS 880-31576/1-A

Matrix: Solid

Analysis Batch: 31656

Matrix: Solid Analysis Batch: 31656 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31576

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/05/22 11:52	08/07/22 14:43	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/05/22 11:52	08/07/22 14:43	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/05/22 11:52	08/07/22 14:43	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/05/22 11:52	08/07/22 14:43	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/05/22 11:52	08/07/22 14:43	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/05/22 11:52	08/07/22 14:43	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	08/05/22 11.	52 08/07/22 14:43	1
1,4-Difluorobenzene (Surr)	95		70 - 130	08/05/22 11.	52 08/07/22 14:43	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 31576

Prep Type: Total/NA

Prep Batch: 31576

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09840		mg/Kg		98	70 - 130	
Toluene	0.100	0.1101		mg/Kg		110	70 - 130	
Ethylbenzene	0.100	0.09388		mg/Kg		94	70 - 130	
m-Xylene & p-Xylene	0.200	0.2024		mg/Kg		101	70 - 130	
o-Xylene	0.100	0.09923		mg/Kg		99	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	96	70 - 130
1,4-Difluorobenzene (Surr)	106	70 - 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 31656

Lab Sample ID: LCSD 880-31576/2-A

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1124		mg/Kg		112	70 - 130	13	35
Toluene	0.100	0.1077		mg/Kg		108	70 - 130	2	35
Ethylbenzene	0.100	0.08729		mg/Kg		87	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.1826		mg/Kg		91	70 - 130	10	35
o-Xylene	0.100	0.08974		mg/Kg		90	70 - 130	10	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
1.4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 890-2692-A-1-F MS

Matrix: Solid

Analysis Batch: 31656

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

Prep Batch: 31576

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.101	0.1015		mg/Kg		101	70 - 130	
Toluene	<0.00201	U	0.101	0.09221		mg/Kg		92	70 - 130	

Client: Ensolum

Project/Site: Bushy Draw 25

Job ID: 890-2695-1 SDG: 03E1558085

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

Lab Sample ID: 890-2692-A-1-F MS

Lab Sample ID: 890-2692-A-1-G MSD

Matrix: Solid

Matrix: Solid

Analysis Batch: 31656

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 31576

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00201	U	0.101	0.07243		mg/Kg		72	70 - 130	
m-Xylene & p-Xylene	<0.00402	U	0.201	0.1505		mg/Kg		75	70 - 130	
o-Xylene	<0.00201	U	0.101	0.07369		mg/Kg		73	70 - 130	

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 31576

Analysis Batch: 31656 Sample Sample Spike MSD MSD RPD Result Qualifier Added Result Qualifier RPD Limit Analyte Unit %Rec Limits 0.0998 Benzene <0.00201 U 0.1015 mg/Kg 102 70 - 130 0 35 Toluene 0.0998 0.09175 <0.00201 U mg/Kg 92 70 - 130 35 Ethylbenzene <0.00201 U 0.0998 0.07057 mg/Kg 71 70 - 130 3 35 <0.00402 U 0.200 0.1460 73 70 - 130 35 m-Xylene & p-Xylene mg/Kg 3 0.0998 <0.00201 U 0.07205 72 70 - 130 2 o-Xylene mg/Kg

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

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

Lab Sample ID: MB 880-31438/1-A

Matrix: Solid

Analysis Batch: 31455

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31438

	MB	MR						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/03/22 15:09	08/04/22 19:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/03/22 15:09	08/04/22 19:53	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/03/22 15:09	08/04/22 19:53	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130	08/03/22 15:09	08/04/22 19:53	1
o-Terphenyl	104		70 - 130	08/03/22 15:09	08/04/22 19:53	1

Lab Sample ID: LCS 880-31438/2-A

Matrix: Solid

Analysis Batch: 31455

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 31438

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	905.8		mg/Kg		91	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	923.2		mg/Kg		92	70 - 130	
C10-C28)								

Job ID: 890-2695-1

SDG: 03E1558085

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

Lab Sample ID: LCS 880-31438/2-A

Matrix: Solid

Client: Ensolum

Analysis Batch: 31455

Project/Site: Bushy Draw 25

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 31438

LCS LCS

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 124 70 - 130 o-Terphenyl 131 S1+ 70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Batch: 31438

Lab Sample ID: LCSD 880-31438/3-A **Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 31455**

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 1071 107 70 - 13017 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 92 915.2 mg/Kg 70 - 13020 C10-C28)

LCSD LCSD

Surrogate %Recovery Qualifier Limits 121 70 - 130 1-Chlorooctane 129 70 - 130 o-Terphenyl

Lab Sample ID: 890-2702-A-1-B MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 31455

Prep Type: Total/NA

Prep Batch: 31438

Sample Sample MS MS Spike Added Analyte Result Qualifier Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.9 U F2 999 757.0 mg/Kg 76 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 UF1 999 642.2 F1 mg/Kg 60 70 - 130

C10-C28)

MS MS %Recovery Qualifier Surrogate Limits S1-70 - 130 1-Chlorooctane 67 70 - 130 o-Terphenyl 76

Lab Sample ID: 890-2702-A-1-C MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 31455

Prep Type: Total/NA

Prep Batch: 31438

Sample Sample MSD MSD RPD Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit U F2 999 1090 F2 109 Gasoline Range Organics <49.9 70 - 130 36 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.9 UF1 999 755.7 mg/Kg 71 70 - 130 16 20

C10-C28)

MSD MSD

Surrogate	%Recovery C	Qualifier	Limits
1-Chlorooctane	79		70 - 130
o-Terphenyl	88		70 - 130

Client: Ensolum Job ID: 890-2695-1 Project/Site: Bushy Draw 25

SDG: 03E1558085

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

Lab Sample ID: MB 880-31439/1-A

Matrix: Solid

Analysis Batch: 31457

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31439

	MB	MR						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		08/03/22 15:56	08/04/22 10:03	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		08/03/22 15:56	08/04/22 10:03	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/03/22 15:56	08/04/22 10:03	1
	5	*						
	MB	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

70 - 130

70 - 130

Lab Sample ID: LCS 880-31439/2-A

Matrix: Solid

1-Chlorooctane

o-Terphenyl

Analysis Batch: 31457

Client Sample ID: Lab Control Sample

08/04/22 10:03

08/04/22 10:03

08/03/22 15:56

08/03/22 15:56

Prep Type: Total/NA

Prep Batch: 31439

LCS LCS Spike Added Analyte Result Qualifier Unit D %Rec Limits Gasoline Range Organics 1000 974.8 mg/Kg 97 70 - 130 (GRO)-C6-C10 1000 Diesel Range Organics (Over 955.3 mg/Kg 96 70 - 130C10-C28)

LCS LCS

96

118

Surrogate	%Recovery Qualifi	ier Limits
1-Chlorooctane	86	70 - 130
o-Terphenyl	97	70 - 130

Lab Sample ID: LCSD 880-31439/3-A

Matrix: Solid

Analysis Batch: 31457

Client Sample ID: Lab (Control Sample Dup
-------------------------	--------------------

Prep Type: Total/NA

Prep Batch: 31439

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	1034		mg/Kg		103	70 - 130	6	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	985.7		mg/Kg		99	70 - 130	3	20
C10-C28)									

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	88		70 - 130
o-Terphenyl	101		70 - 130

Lab Sample ID: 880-17544-A-1-D MS

Matrix: Solid

Analysis Batch: 31457

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 31439

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.9	U	999	936.9		mg/Kg		91	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.9	U	999	766.8		mg/Kg		77	70 - 130	
C10-C28)										

Prep Batch: 31439

Job ID: 890-2695-1

Client: Ensolum Project/Site: Bushy Draw 25 SDG: 03E1558085

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

Lab Sample ID: 880-17544-A-1-D MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid Analysis Batch: 31457

мв мв

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 69 S1-70 - 130 o-Terphenyl 73 70 - 130

Lab Sample ID: 880-17544-A-1-E MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 31457** Prep Batch: 31439

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit <49.9 U 999 908.2 88 70 - 1303 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 999 866.8 <49.9 U mg/Kg 87 70 - 13012 20

MSD MSD %Recovery Surrogate Qualifier Limits 70 - 130 1-Chlorooctane 79 81 70 - 130 o-Terphenyl

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-31444/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 31665

C10-C28)

Analyte Result Qualifier RL Unit D Dil Fac Prepared Analyzed 5.00 Chloride <5.00 U mg/Kg 08/09/22 14:15

Lab Sample ID: LCS 880-31444/2-A Client Sample ID: Lab Control Sample

Matrix: Solid Prep Type: Soluble

Analysis Batch: 31665

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 233.6 mg/Kg 93 90 - 110

Lab Sample ID: LCSD 880-31444/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid**

Analysis Batch: 31665

Released to Imaging: 1/11/2023 2:08:05 PM

Spike LCSD LCSD %Rec Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit Chloride 250 234.4 94 90 - 110 20 mg/Kg

Lab Sample ID: 890-2690-A-1-C MS Client Sample ID: Matrix Spike

Matrix: Solid Prep Type: Soluble Analysis Batch: 31665

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier %Rec Limits Unit F1 Chloride 620 249 828.0 F1 mg/Kg 83 90 - 110

Eurofins Carlsbad

Prep Type: Soluble

RPD

QC Sample Results

Client: Ensolum Job ID: 890-2695-1 Project/Site: Bushy Draw 25

SDG: 03E1558085

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-2690-A-1-D MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 31665

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	620	F1	249	833.1	F1	mg/Kg		85	90 - 110	1	20	

Lab Sample ID: 890-2695-4 MS **Client Sample ID: SS04 Matrix: Solid Prep Type: Soluble**

Analysis Batch: 31665

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	81.0		251	328.8	-	mg/Kg		99	90 - 110	

Lab Sample ID: 890-2695-4 MSD Client Sample ID: SS04 **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 31665

MSD MSD %Rec RPD Sample Sample Spike Result Qualifier Added Limit Analyte Result Qualifier Unit Limits **RPD** Chloride 81.0 251 327.2 90 - 110 mg/Kg

QC Association Summary

Client: Ensolum

Project/Site: Bushy Draw 25

Job ID: 890-2695-1 SDG: 03E1558085

GC VOA

Prep Batch: 31576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2695-1	SS01	Total/NA	Solid	5035	
890-2695-2	SS02	Total/NA	Solid	5035	
890-2695-3	SS03	Total/NA	Solid	5035	
890-2695-4	SS04	Total/NA	Solid	5035	
MB 880-31576/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-31576/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-31576/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2692-A-1-F MS	Matrix Spike	Total/NA	Solid	5035	
890-2692-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 31656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2695-1	SS01	Total/NA	Solid	8021B	31576
890-2695-2	SS02	Total/NA	Solid	8021B	31576
890-2695-3	SS03	Total/NA	Solid	8021B	31576
890-2695-4	SS04	Total/NA	Solid	8021B	31576
MB 880-31576/5-A	Method Blank	Total/NA	Solid	8021B	31576
LCS 880-31576/1-A	Lab Control Sample	Total/NA	Solid	8021B	31576
LCSD 880-31576/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	31576
890-2692-A-1-F MS	Matrix Spike	Total/NA	Solid	8021B	31576
890-2692-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	31576

Analysis Batch: 31865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch
890-2695-1	SS01	Total/NA	Solid	Total BTEX
890-2695-2	SS02	Total/NA	Solid	Total BTEX
890-2695-3	SS03	Total/NA	Solid	Total BTEX
890-2695-4	SS04	Total/NA	Solid	Total BTEX

GC Semi VOA

Prep Batch: 31438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2695-3	SS03	Total/NA	Solid	8015NM Prep	
890-2695-4	SS04	Total/NA	Solid	8015NM Prep	
MB 880-31438/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-31438/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-31438/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2702-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2702-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 31439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2695-1	SS01	Total/NA	Solid	8015NM Prep	
890-2695-2	SS02	Total/NA	Solid	8015NM Prep	
MB 880-31439/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-31439/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-31439/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-17544-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-17544-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

QC Association Summary

 Client: Ensolum
 Job ID: 890-2695-1

 Project/Site: Bushy Draw 25
 SDG: 03E1558085

GC Semi VOA

Analysis Batch: 31455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2695-3	SS03	Total/NA	Solid	8015B NM	31438
890-2695-4	SS04	Total/NA	Solid	8015B NM	31438
MB 880-31438/1-A	Method Blank	Total/NA	Solid	8015B NM	31438
LCS 880-31438/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	31438
LCSD 880-31438/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	31438
890-2702-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	31438
890-2702-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	31438

Analysis Batch: 31457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2695-1	SS01	Total/NA	Solid	8015B NM	31439
890-2695-2	SS02	Total/NA	Solid	8015B NM	31439
MB 880-31439/1-A	Method Blank	Total/NA	Solid	8015B NM	31439
LCS 880-31439/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	31439
LCSD 880-31439/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	31439
880-17544-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	31439
880-17544-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	31439

Analysis Batch: 31553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2695-1	SS01	Total/NA	Solid	8015 NM	
890-2695-2	SS02	Total/NA	Solid	8015 NM	
890-2695-3	SS03	Total/NA	Solid	8015 NM	
890-2695-4	SS04	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 31444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2695-1	SS01	Soluble	Solid	DI Leach	
890-2695-2	SS02	Soluble	Solid	DI Leach	
890-2695-3	SS03	Soluble	Solid	DI Leach	
890-2695-4	SS04	Soluble	Solid	DI Leach	
MB 880-31444/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-31444/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-31444/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2690-A-1-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2690-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
890-2695-4 MS	SS04	Soluble	Solid	DI Leach	
890-2695-4 MSD	SS04	Soluble	Solid	DI Leach	

Analysis Batch: 31665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2695-1	SS01	Soluble	Solid	300.0	31444
890-2695-2	SS02	Soluble	Solid	300.0	31444
890-2695-3	SS03	Soluble	Solid	300.0	31444
890-2695-4	SS04	Soluble	Solid	300.0	31444
MB 880-31444/1-A	Method Blank	Soluble	Solid	300.0	31444
LCS 880-31444/2-A	Lab Control Sample	Soluble	Solid	300.0	31444
LCSD 880-31444/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	31444
890-2690-A-1-C MS	Matrix Spike	Soluble	Solid	300.0	31444

Eurofins Carlsbad

2

3

6

Ω

9

10

10

13

Client: Ensolum Job ID: 890-2695-1 Project/Site: Bushy Draw 25 SDG: 03E1558085

HPLC/IC (Continued)

Analysis Batch: 31665 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2690-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	31444
890-2695-4 MS	SS04	Soluble	Solid	300.0	31444
890-2695-4 MSD	SS04	Soluble	Solid	300.0	31444

Project/Site: Bushy Draw 25 **Client Sample ID: SS01**

Client: Ensolum

Lab Sample ID: 890-2695-1

Matrix: Solid

Date Collected: 07/29/22 10:10 Date Received: 08/01/22 08:17

	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	31576	08/05/22 11:52	MR	EETSC MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31656	08/07/22 16:48	MR	EETSC MIC
Total/NA	Analysis	Total BTEX		1			31865	08/09/22 16:25	SM	EETSC MIC
Total/NA	Analysis	8015 NM		1			31553	08/05/22 08:59	AJ	EETSC MIC
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	31439	08/03/22 15:56	DM	EETSC MIC
Total/NA	Analysis	8015B NM		1			31457	08/04/22 16:38	AJ	EETSC MIC
Soluble	Leach	DI Leach			5.05 g	50 mL	31444	08/03/22 17:00	SMC	EETSC MIC
Soluble	Analysis	300.0		1			31665	08/09/22 16:05	CH	EETSC MIE

Client Sample ID: SS02 Lab Sample ID: 890-2695-2 **Matrix: Solid**

Date Collected: 07/29/22 10:20 Date Received: 08/01/22 08:17

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	31576	08/05/22 11:52	MR	EETSC MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31656	08/07/22 17:09	MR	EETSC MIC
Total/NA	Analysis	Total BTEX		1			31865	08/09/22 16:25	SM	EETSC MIE
Total/NA	Analysis	8015 NM		1			31553	08/05/22 08:59	AJ	EETSC MIE
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	31439	08/03/22 15:56	DM	EETSC MIE
Total/NA	Analysis	8015B NM		1			31457	08/04/22 16:59	AJ	EETSC MIC
Soluble	Leach	DI Leach			4.96 g	50 mL	31444	08/03/22 17:00	SMC	EETSC MII
Soluble	Analysis	300.0		1			31665	08/09/22 16:12	CH	EETSC MID

Client Sample ID: SS03 Lab Sample ID: 890-2695-3 Date Collected: 07/29/22 10:30

Date Received: 08/01/22 08:17

Dil Final Batch Batch Initial Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA Prep 5035 5.01 g 5 mL 31576 08/05/22 11:52 MR EETSC MID Total/NA Analysis 8021B 5 mL 5 mL 31656 08/07/22 17:30 MR EETSC MID Total/NA Analysis Total BTEX 31865 08/09/22 16:25 SM EETSC MIE 1 Total/NA Analysis 8015 NM 31553 08/05/22 08:59 ΑJ EETSC MIE 08/03/22 15:09 Total/NA Prep 8015NM Prep 10.00 g 10 mL 31438 DM EETSC MID Total/NA Analysis 8015B NM 31455 08/05/22 03:52 EETSC MIE 1 ΑJ Soluble Leach DI Leach 5.02 g 50 mL 31444 08/03/22 17:00 SMC EETSC MID Soluble Analysis 300.0 31665 08/09/22 16:20 СН EETSC MIE

Lab Sample ID: 890-2695-4 Client Sample ID: SS04

Date Collected: 07/29/22 10:40 Date Received: 08/01/22 08:17

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	31576	08/05/22 11:52	MR	EETSC MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31656	08/07/22 17:51	MR	EETSC MIC
Total/NA	Analysis	Total BTEX		1			31865	08/09/22 16:25	SM	EETSC MIC

Eurofins Carlsbad

Matrix: Solid

Matrix: Solid

Lab Chronicle

 Client: Ensolum
 Job ID: 890-2695-1

 Project/Site: Bushy Draw 25
 SDG: 03E1558085

Client Sample ID: SS04

Lab Sample ID: 890-2695-4

Matrix: Solid

Date Collected: 07/29/22 10:40 Date Received: 08/01/22 08:17

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			31553	08/05/22 08:59	AJ	EETSC MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	31438	08/03/22 15:09	DM	EETSC MIE
Total/NA	Analysis	8015B NM		1			31455	08/05/22 04:14	AJ	EETSC MIE
Soluble	Leach	DI Leach			4.99 g	50 mL	31444	08/03/22 17:00	SMC	EETSC MIC
Soluble	Analysis	300.0		1			31665	08/09/22 16:28	CH	EETSC MIC

Laboratory References:

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

40

11

13

14

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-2695-1 Project/Site: Bushy Draw 25 SDG: 03E1558085

Laboratory: Eurofins Midland

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

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-22-24	06-30-23
The following analytes	are included in this report, bu	it the laboratory is not certific	ed by the governing authority. This list ma	av include analytes for
the agency does not of	fer certification.	•	, , ,	·, ·····
the agency does not of Analysis Method	fer certification . Prep Method	Matrix	Analyte	,
0 ,		Matrix Solid	, , ,	

Method Summary

Client: Ensolum Job ID: 890-2695-1 Project/Site: Bushy Draw 25

SDG: 03E1558085

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

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum

Project/Site: Bushy Draw 25

Job ID: 890-2695-1

SDG: 03E1558085

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2695-1	SS01	Solid	07/29/22 10:10	08/01/22 08:17	.2
890-2695-2	SS02	Solid	07/29/22 10:20	08/01/22 08:17	.2
890-2695-3	SS03	Solid	07/29/22 10:30	08/01/22 08:17	.2
890-2695-4	SS04	Solid	07/29/22 10:40	08/01/22 08:17	.2

Work Order No:

Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334

Environment Testing Xenco

eurofins 💸

Chain of Custody

Hobbs, NM (575) 392-7550, Carisbad, NM (575) 988-3199 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296

Revised Date: 08/25/2020 Rev. 2020

Date/Time

Received by: (Signature)

sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotlated

Relinquished by: (Signature)

Date/Time

Received by: (Signature)

Reling

otice. Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control

Project Manager:	Kale: Jen	enings		Bill to: (if different)	ent)	Croner	Tollett Green	Work Order Comments	omments
Company Name:	rsolan			Company Name:	e:	+10 Ch	May	Program: UST/PST	Brownfields RRC Superfund
16	2 Norman	/ Fall	5,	Address:		3104 6	Greek ST	State of Project:	
City, State ZIP:	Sheet	M 88220	2	City, State ZIP:		Carlsba	d NM 88220	Reporting: Level III Level III PST/UST TRRP Level IV	PST/UST TRRP Level IV
Phone: 8778	188 3 250)	2	Email:					Deliverables: EDD ADa	ADaPT ☐ Other:
Project Name:	uds Day	77	Turn	Turn Around			ANALYSIS REQUEST	JEST	Preservative Codes
er:	16	5	Routine	Rush	Pres. Code				None: NO DI Water: H ₂ C
Project Location:	the Cours	٨	Due Date:						Cool: Cool
Sampler's Name:	3/		TAT starts the	TAT starts the day received by				_	
PO #:		(the lab, if rec	eived by 4:30pm				-	H ₂ S0 ₄ : H ₂ NaOH: Na
SAMPLE RECEIPT	Temp Blank:	(Yes No	Wet Ice:	Kes No	eters				H ₃ PO ₄ : HP
Samples Received Intact:	Ves No	Thermometer ID:	i Di	1WW 00	19				NaHSO 4: NABIS
Cooler Custody Seals:	Yes No. NY	Correction Factor:	actor:	~ 0.3	ed				Na ₂ S ₂ O ₃ :NaSO 3
Sample Custody Seals:	Yes No N/A	Temperature Reading:	e Reading:	5.4		X 7			Zn Acetate+NaOH: Zn
Total Containers:		Corrected To	Corrected Temperature:	5.3	T	10 31	890-2695 Chain of Custody	(Policy)	NaOH+Ascorbic Acid: SAPC
Sample Identification	Matrix	Date Sampled	Time	Depth Grab/	o/ # of p Cont	2			Sample Comments
550	~	7-29	0/0/	2 4	-	1111			The ID
2055	\ <u>\</u>	7-29	1020	2	-	111			NAPP 22/613843
503	2	129	1000	7	-	/			
Kon	\ <u>\</u>	7.7.9	0401	7		/			2
									2)91859001
Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	200.8 / 6020: etal(s) to be and		BRCRA 13PPM TCLP / SPLP	M Texas 11	Al Sb	Al Sb As Ba Be B Cd	Ca Cr	Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Tl Sn U V Zn u Pb Mn Mo Ni Se Ag Tl U Hg: 1631/245.1/7470 /7471	r Tl Sn U V Zn I /7470 /7471

Login Sample Receipt Checklist

 Client: Ensolum
 Job Number: 890-2695-1

 SDG Number: 03E1558085

List Source: Eurofins Carlsbad
List Number: 1

Creator: Stutzman, Amanda

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.	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	

3

4

6

8

10

12

13

14

<6mm (1/4").

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2695-1 SDG Number: 03E1558085

Login Number: 2695 **List Source: Eurofins Midland** List Number: 2

List Creation: 08/02/22 10:44 AM

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	

<6mm (1/4").





ANALYTICAL REPORT

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-2858-1

Laboratory Sample Delivery Group: 03E1558085 Client Project/Site: Brushy Draw 25 West CTB

For:

eurofins

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Kalei Jennings

RAMER

Authorized for release by: 9/9/2022 10:18:18 AM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten

Results relate only to the items tested and the sample(s) as received by the laboratory.



.....LINKS

Review your project results through

EOL

Have a Question?

www.eurofinsus.com/Env

Released to Imaging: 1/11/2023 2:08:05 PM

Visit us at:

Received by OCD: 11/1/2022 2:55:40 PM

Laboratory Job ID: 890-2858-1 Client: Ensolum SDG: 03E1558085 Project/Site: Brushy Draw 25 West CTB

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	13
QC Sample Results	14
QC Association Summary	18
Lab Chronicle	21
Certification Summary	25
Method Summary	26
Sample Summary	27
Chain of Custody	28
Receipt Checklists	29

Definitions/Glossary

Job ID: 890-2858-1 Client: Ensolum Project/Site: Brushy Draw 25 West CTB

SDG: 03E1558085

Qualifiers

GC VOA Qualifier

F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

Qualifier Description

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

DLC

Abbreviation	These commonly used abbreviations may or may not be present in this report.
n	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

Decision Level Concentration (Radiochemistry) EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level" MCL MDA Minimum Detectable Activity (Radiochemistry) Minimum Detectable Concentration (Radiochemistry) MDC

MDL Method Detection Limit MI 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 Practical Quantitation Limit PQL

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) **TEQ** Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Project/Site: Brushy Draw 25 West CTB

Job ID: 890-2858-1

SDG: 03E1558085

Job ID: 890-2858-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2858-1

Receipt

The samples were received on 8/29/2022 2:49 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 29.0°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-33944 and analytical batch 880-33982 were outside control limits. Sample matrix interference and/or non-homogeneity are 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 samples were outside control limits: (LCS 880-33502/2-A), (LCSD 880-33502/3-A) and (MB 880-33502/1-A). Evidence of matrix interferences is not obvious.

Method 8015MOD NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-33502 and analytical batch 880-33584 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

HPLC/IC

Method 300 ORGFM 28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-33618 and 880-33618 and analytical batch 880-33669 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Project/Site: Brushy Draw 25 West CTB

Client: Ensolum

Job ID: 890-2858-1

SDG: 03E1558085

Matrix: Solid

Lab Sample ID: 890-2858-1

Client Sample ID: PH01

Date Collected: 08/29/22 09:20 Date Received: 08/29/22 14:49

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F1 F2	0.00200	mg/Kg		09/07/22 16:02	09/09/22 02:15	1
Toluene	<0.00200	U F1 F2	0.00200	mg/Kg		09/07/22 16:02	09/09/22 02:15	1
Ethylbenzene	<0.00200	U F1 F2	0.00200	mg/Kg		09/07/22 16:02	09/09/22 02:15	1
m-Xylene & p-Xylene	<0.00399	U F1 F2	0.00399	mg/Kg		09/07/22 16:02	09/09/22 02:15	1
o-Xylene	<0.00200	U F1 F2	0.00200	mg/Kg		09/07/22 16:02	09/09/22 02:15	1
Xylenes, Total	<0.00399	U F1 F2	0.00399	mg/Kg		09/07/22 16:02	09/09/22 02:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130			09/07/22 16:02	09/09/22 02:15	1
1,4-Difluorobenzene (Surr)	72		70 - 130			09/07/22 16:02	09/09/22 02:15	1
Method: Total BTEX - Total BTE	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			09/09/22 10:34	1
Method: 2015 NM Diocel Paner	Organies (DB)	O) (CC)						
Method: 8015 NM - Diesel Range Analyte		O) (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
_		Qualifier	RL 49.9	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 09/06/22 12:59	Dil Fac
Analyte		Qualifier U			<u>D</u>	Prepared		Dil Fac
Analyte Total TPH	Result <49.9 ge Organics (Di	Qualifier U			<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: 8015B NM - Diesel Rang	Result <49.9 ge Organics (Di	Qualifier U RO) (GC) Qualifier	49.9	mg/Kg		· ·	09/06/22 12:59	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 ge Organics (Dige Result	Qualifier U RO) (GC) Qualifier U F1	49.9	mg/Kg		Prepared	09/06/22 12:59 Analyzed	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10		Qualifier U RO) (GC) Qualifier U F1 U F1	49.9 RL 49.9	mg/Kg Unit mg/Kg		Prepared 09/01/22 09:04	09/06/22 12:59 Analyzed 09/02/22 10:34	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U RO) (GC) Qualifier U F1 U F1	49.9 RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 09/01/22 09:04 09/01/22 09:04	09/06/22 12:59 Analyzed 09/02/22 10:34 09/02/22 10:34	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9	Qualifier U RO) (GC) Qualifier U F1 U F1	49.9 RL 49.9 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 09/01/22 09:04 09/01/22 09:04	09/06/22 12:59 Analyzed 09/02/22 10:34 09/02/22 10:34	Dil Fac 1 1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <49.9	Qualifier U RO) (GC) Qualifier U F1 U F1	49.9 RL 49.9 49.9 49.9 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 09/01/22 09:04 09/01/22 09:04 09/01/22 09:04 Prepared	09/06/22 12:59 Analyzed 09/02/22 10:34 09/02/22 10:34 09/02/22 10:34 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <49.9	Qualifier U RO) (GC) Qualifier U F1 U F1 U Qualifier	49.9 RL 49.9 49.9 49.9 Limits 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 09/01/22 09:04 09/01/22 09:04 09/01/22 09:04 Prepared 09/01/22 09:04	Analyzed 09/02/22 10:34 09/02/22 10:34 09/02/22 10:34 Analyzed 09/02/22 10:34	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range 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	Qualifier U RO) (GC) Qualifier U F1 U F1 U Qualifier	49.9 RL 49.9 49.9 49.9 Limits 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 09/01/22 09:04 09/01/22 09:04 09/01/22 09:04 Prepared 09/01/22 09:04	Analyzed 09/02/22 10:34 09/02/22 10:34 09/02/22 10:34 Analyzed 09/02/22 10:34	1 Dil Fac

Client Sample ID: PH01A

Date Collected: 08/29/22 09:25

Date Received: 08/29/22 14:49

Sample Depth: 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/07/22 16:02	09/09/22 02:41	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/07/22 16:02	09/09/22 02:41	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/07/22 16:02	09/09/22 02:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		09/07/22 16:02	09/09/22 02:41	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/07/22 16:02	09/09/22 02:41	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/07/22 16:02	09/09/22 02:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130			09/07/22 16:02	09/09/22 02:41	

Eurofins Carlsbad

Lab Sample ID: 890-2858-2

Matrix: Solid

6

8

10

12

. .

Client: Ensolum

Job ID: 890-2858-1 Project/Site: Brushy Draw 25 West CTB SDG: 03E1558085

Client Sample ID: PH01A Lab Sample ID: 890-2858-2

Date Collected: 08/29/22 09:25 Date Received: 08/29/22 14:49

Sample Depth: 2

Method: 8021B -	Volatile Or	ganic Com	nounds (G	C) (Continued)
Michiga, our in	Volutile Of	garne com	poullus (O) (Continued)

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1.4-Difluorobenzene (Surr)	98	70 - 130	09/07/22 16:02	09/09/22 02:41	1

ı						
	Method:	Total	RTFY	- Total	RTFY	Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			09/09/22 10:34	1

Method: 8015 NM - Diesel Range Organics (DRO)	(GC)
incured to the Picsci Range Organics (Dixo)	\cdot

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			09/06/22 12:59	1

Method: 8015B NM - Diese	I Range Organics (D	RO) (GC)
--------------------------	---------------------	----------

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		09/01/22 09:04	09/02/22 11:39	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		09/01/22 09:04	09/02/22 11:39	1
C10-C28)								
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/01/22 09:04	09/02/22 11:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130			09/01/22 09:04	09/02/22 11:39	1

1-Chlorooctane	97	70 - 130
o-Terphenyl	95	70 - 130
-		

Method: 300.0 - Anions, ion Chron	iatograpny - 🤅	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3320		25.1	mg/Kg			09/07/22 00:58	5

Client Sample ID: PH02 Lab Sample ID: 890-2858-3

Date Collected: 08/29/22 09:30 Date Received: 08/29/22 14:49

Sample Depth: 1

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

mountain colling and and and and		(/						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/07/22 16:02	09/09/22 03:06	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/07/22 16:02	09/09/22 03:06	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/07/22 16:02	09/09/22 03:06	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		09/07/22 16:02	09/09/22 03:06	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/07/22 16:02	09/09/22 03:06	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/07/22 16:02	09/09/22 03:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130			09/07/22 16:02	09/09/22 03:06	1
1,4-Difluorobenzene (Surr)	79		70 - 130			09/07/22 16:02	09/09/22 03:06	1

Mothod:	Total RTF	Y - Total R	TFX Calculatio	n

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	DII Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			09/09/22 10:34	1

Analyte	•	•	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH			<50.0	U	50.0	mg/Kg			09/06/22 12:59	1

Eurofins Carlsbad

09/01/22 09:04

09/02/22 11:39

Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-2858-3

Job ID: 890-2858-1

Client: Ensolum Project/Site: Brushy Draw 25 West CTB SDG: 03E1558085

Client Sample ID: PH02

Date Collected: 08/29/22 09:30 Date Received: 08/29/22 14:49

Sample Depth: 1

Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		09/01/22 09:04	09/02/22 12:01	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		09/01/22 09:04	09/02/22 12:01	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/01/22 09:04	09/02/22 12:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130			09/01/22 09:04	09/02/22 12:01	1
o-Terphenyl	115		70 - 130			09/01/22 09:04	09/02/22 12:01	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2290		25.0	mg/Kg			09/07/22 01:05	5

Lab Sample ID: 890-2858-4 Client Sample ID: PH02A

Date Collected: 08/29/22 09:35 Date Received: 08/29/22 14:49

Sample Depth: 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/07/22 16:02	09/09/22 03:32	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/07/22 16:02	09/09/22 03:32	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/07/22 16:02	09/09/22 03:32	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		09/07/22 16:02	09/09/22 03:32	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/07/22 16:02	09/09/22 03:32	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/07/22 16:02	09/09/22 03:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130			09/07/22 16:02	09/09/22 03:32	1
1,4-Difluorobenzene (Surr)	82		70 - 130			09/07/22 16:02	09/09/22 03:32	1
Method: Total BTEX - Total BTEX	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			09/09/22 10:34	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			09/06/22 12:59	1
Method: 8015B NM - Diesel Rang	je Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/01/22 09:04	09/02/22 12:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/01/22 09:04	09/02/22 12:22	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/01/22 09:04	09/02/22 12:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130			09/01/22 09:04	09/02/22 12:22	1
o-Terphenyl	97		70 - 130			09/01/22 09:04	09/02/22 12:22	1

Client: Ensolum Job ID: 890-2858-1 Project/Site: Brushy Draw 25 West CTB SDG: 03E1558085

Client Sample ID: PH02A Lab Sample ID: 890-2858-4 Matrix: Solid

Date Collected: 08/29/22 09:35 Date Received: 08/29/22 14:49

Sample Depth: 2

Method: 300.0 - Anions, Ion Chromatography - Soluble								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2070	F1	25.3	mg/Kg			09/07/22 01:12	5

Client Sample ID: PH03 Lab Sample ID: 890-2858-5

Date Collected: 08/29/22 09:40 Date Received: 08/29/22 14:49

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199	mg/Kg		09/07/22 16:02	09/09/22 03:58	
Toluene	<0.00199	U	0.00199	mg/Kg		09/07/22 16:02	09/09/22 03:58	•
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		09/07/22 16:02	09/09/22 03:58	
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		09/07/22 16:02	09/09/22 03:58	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/07/22 16:02	09/09/22 03:58	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/07/22 16:02	09/09/22 03:58	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130			09/07/22 16:02	09/09/22 03:58	1
1,4-Difluorobenzene (Surr)	84		70 - 130			09/07/22 16:02	09/09/22 03:58	1
Method: Total BTEX - Total BTEX	K Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			09/09/22 10:34	1
Analyte		Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Total TPH	<49.9		49.9	mg/Kg	— <u>-</u>		09/06/22 12:59	
Method: 8015B NM - Diesel Rand	ne Organics (D	RO) (GC)						
Method: 8015B NM - Diesel Rang Analyte	•	RO) (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Gasoline Range Organics	•	Qualifier	RL 49.9	Unit mg/Kg	<u>D</u>	Prepared 09/01/22 09:04	Analyzed 09/02/22 12:44	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10	Result	Qualifier U			<u>D</u>			
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U	49.9	mg/Kg	<u>D</u>	09/01/22 09:04	09/02/22 12:44	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9 <49.9	Qualifier U U U	49.9	mg/Kg	<u> </u>	09/01/22 09:04 09/01/22 09:04	09/02/22 12:44	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <49.9 <49.9 <49.9	Qualifier U U U	49.9 49.9 49.9	mg/Kg	<u>D</u>	09/01/22 09:04 09/01/22 09:04 09/01/22 09:04	09/02/22 12:44 09/02/22 12:44 09/02/22 12:44	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <49.9 <49.9 <49.9 <49.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80	Qualifier U U U	49.9 49.9 49.9 <i>Limits</i>	mg/Kg	<u>D</u>	09/01/22 09:04 09/01/22 09:04 09/01/22 09:04 Prepared	09/02/22 12:44 09/02/22 12:44 09/02/22 12:44 Analyzed	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate	Result <49.9 <49.9 <49.9 <49.9 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0	Qualifier U U Qualifier	49.9 49.9 49.9 Limits 70 - 130	mg/Kg	<u> </u>	09/01/22 09:04 09/01/22 09:04 09/01/22 09:04 Prepared 09/01/22 09:04	09/02/22 12:44 09/02/22 12:44 09/02/22 12:44 Analyzed 09/02/22 12:44	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U Qualifier	49.9 49.9 49.9 Limits 70 - 130	mg/Kg	<u>D</u>	09/01/22 09:04 09/01/22 09:04 09/01/22 09:04 Prepared 09/01/22 09:04	09/02/22 12:44 09/02/22 12:44 09/02/22 12:44 Analyzed 09/02/22 12:44	1

Eurofins Carlsbad

9/9/2022

Lab Sample ID: 890-2858-6

Client Sample Results

Client: Ensolum Job ID: 890-2858-1
Project/Site: Brushy Draw 25 West CTB SDG: 03E1558085

Client Sample ID: PH03A

Date Collected: 08/29/22 09:45 Date Received: 08/29/22 14:49

Sample Depth: 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/07/22 16:02	09/09/22 04:24	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/07/22 16:02	09/09/22 04:24	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/07/22 16:02	09/09/22 04:24	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		09/07/22 16:02	09/09/22 04:24	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/07/22 16:02	09/09/22 04:24	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/07/22 16:02	09/09/22 04:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130			09/07/22 16:02	09/09/22 04:24	
1,4-Difluorobenzene (Surr)	99		70 - 130			09/07/22 16:02	09/09/22 04:24	1
Method: Total BTEX - Total BTE	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			09/09/22 10:34	1
_								
_		O) (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte		Qualifier	RL	<mark>Unit</mark> mg/Kg	<u>D</u>	Prepared	Analyzed 09/06/22 12:59	
Method: 8015 NM - Diesel Range Analyte Total TPH		Qualifier U			<u>D</u>	Prepared		
Analyte Total TPH Method: 8015B NM - Diesel Ran	Result <50.0 ge Organics (Diameter)	Qualifier U RO) (GC)	50.0	mg/Kg	<u> </u>		09/06/22 12:59	1
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte	Result <50.0 ge Organics (Dige Result	Qualifier U RO) (GC) Qualifier	50.0	mg/Kg	<u>D</u>	Prepared	09/06/22 12:59 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	Result <50.0 ge Organics (Diameter)	Qualifier U RO) (GC) Qualifier	50.0	mg/Kg	<u> </u>		09/06/22 12:59	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 ge Organics (Dige Result	Qualifier U RO) (GC) Qualifier U	50.0	mg/Kg	<u> </u>	Prepared	09/06/22 12:59 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10		Qualifier U RO) (GC) Qualifier U	50.0 RL 50.0	mg/Kg Unit mg/Kg	<u> </u>	Prepared 09/01/22 09:04	09/06/22 12:59 Analyzed 09/02/22 13:05	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0	Qualifier U RO) (GC) Qualifier U	50.0 RL 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg	<u> </u>	Prepared 09/01/22 09:04 09/01/22 09:04	09/06/22 12:59 Analyzed 09/02/22 13:05 09/02/22 13:05	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0	Qualifier U RO) (GC) Qualifier U	50.0 RL 50.0 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg	<u> </u>	Prepared 09/01/22 09:04 09/01/22 09:04	09/06/22 12:59 Analyzed 09/02/22 13:05 09/02/22 13:05	Dil Face 1 Dil Face 1 Dil Face
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <50.0	Qualifier U RO) (GC) Qualifier U	50.0 RL 50.0 50.0 50.0 Limits	mg/Kg Unit mg/Kg mg/Kg	<u> </u>	Prepared 09/01/22 09:04 09/01/22 09:04 09/01/22 09:04 Prepared	Analyzed 09/02/22 13:05 09/02/22 13:05 09/02/22 13:05 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <50.0	Qualifier U RO) (GC) Qualifier U U Qualifier	50.0 RL 50.0 50.0 50.0 Limits 70 - 130	mg/Kg Unit mg/Kg mg/Kg	<u> </u>	Prepared 09/01/22 09:04 09/01/22 09:04 09/01/22 09:04 Prepared 09/01/22 09:04	Analyzed 09/02/22 13:05 09/02/22 13:05 09/02/22 13:05 Analyzed 09/02/22 13:05	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U RO) (GC) Qualifier U U Qualifier	50.0 RL 50.0 50.0 50.0 Limits 70 - 130	mg/Kg Unit mg/Kg mg/Kg	<u> </u>	Prepared 09/01/22 09:04 09/01/22 09:04 09/01/22 09:04 Prepared 09/01/22 09:04	Analyzed 09/02/22 13:05 09/02/22 13:05 09/02/22 13:05 Analyzed 09/02/22 13:05	Dil Face 1 Dil Face 1 Dil Face 1 Dil Face 1 Dil Face

Client Sample ID: PH04

Date Collected: 08/29/22 09:50 Date Received: 08/29/22 14:49

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/07/22 16:02	09/09/22 04:50	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/07/22 16:02	09/09/22 04:50	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/07/22 16:02	09/09/22 04:50	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		09/07/22 16:02	09/09/22 04:50	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/07/22 16:02	09/09/22 04:50	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/07/22 16:02	09/09/22 04:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130			09/07/22 16:02	09/09/22 04:50	1

Eurofins Carlsbad

Lab Sample ID: 890-2858-7

2

3

5

7

3

11

12

14

Matrix: Solid

Client: Ensolum

Job ID: 890-2858-1 Project/Site: Brushy Draw 25 West CTB SDG: 03E1558085

Client Sample ID: PH04 Lab Sample ID: 890-2858-7

Date Collected: 08/29/22 09:50 Date Received: 08/29/22 14:49

Sample Depth: 1

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

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1.4-Difluorobenzene (Surr)	91	70 - 130	09/07/22 16:02	09/09/22 04:50	

Mathad:	Total	RTFY.	. Total	RTEY	Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	ma/Ka			09/09/22 10:34	1

Method: 8015 NM - Diese	I Range Organics (DRO) (GC)
motifical contribution bicoc	in italigo organios (bito) (oo)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/06/22 12:59	1

Method: 8015B NM - Diese	I Range Organics	(DRO)	(GC)
moundar of ros run Sido	tungo organioo	()	1/

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		09/01/22 09:04	09/02/22 13:27	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		09/01/22 09:04	09/02/22 13:27	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/01/22 09:04	09/02/22 13:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Julioguio	70110001019	Quamici		rrepared	rinaryzou	<i>Dii i</i> ao
1-Chlorooctane	106		70 - 130	09/01/22 09:04	09/02/22 13:27	1
o-Terphenyl	105		70 - 130	09/01/22 09:04	09/02/22 13:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2090	24.8	mg/Kg			09/07/22 02:02	5

Client Sample ID: PH04A Lab Sample ID: 890-2858-8 Matrix: Solid

Date Collected: 08/29/22 09:55 Date Received: 08/29/22 14:49

Sample Depth: 2

Mathad.	0024D	V-1-4:1-	O	Compounds	
wethod:	OUZID -	voiatile	Organic (Jompounas.	166

	, , , , , , , , , , , , , , , , , , , ,	/						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/07/22 16:02	09/09/22 05:16	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/07/22 16:02	09/09/22 05:16	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/07/22 16:02	09/09/22 05:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		09/07/22 16:02	09/09/22 05:16	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/07/22 16:02	09/09/22 05:16	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/07/22 16:02	09/09/22 05:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130			09/07/22 16:02	09/09/22 05:16	1
1,4-Difluorobenzene (Surr)	93		70 - 130			09/07/22 16:02	09/09/22 05:16	1

Method:	Total	RTFY -	Total RTFY	Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00398	U	0.00398	ma/Ka			09/09/22 10:34	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			09/06/22 12:59	1

Lab Sample ID: 890-2858-8

Job ID: 890-2858-1

Client: Ensolum Project/Site: Brushy Draw 25 West CTB SDG: 03E1558085

Client Sample ID: PH04A Date Collected: 08/29/22 09:55

Date Received: 08/29/22 14:49

Sample Depth: 2

Method: 8015B NM - Diesel Rang	je Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8	mg/Kg		09/01/22 09:04	09/02/22 13:48	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.8	U	49.8	mg/Kg		09/01/22 09:04	09/02/22 13:48	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/01/22 09:04	09/02/22 13:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130			09/01/22 09:04	09/02/22 13:48	1
o-Terphenyl	92		70 - 130			09/01/22 09:04	09/02/22 13:48	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	484		4.96	mg/Kg			09/07/22 02:09	1

Lab Sample ID: 890-2858-9 **Client Sample ID: PH05** Matrix: Solid

Date Collected: 08/29/22 10:00 Date Received: 08/29/22 14:49

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/07/22 16:02	09/09/22 05:43	
Toluene	<0.00201	U	0.00201	mg/Kg		09/07/22 16:02	09/09/22 05:43	
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/07/22 16:02	09/09/22 05:43	
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		09/07/22 16:02	09/09/22 05:43	
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/07/22 16:02	09/09/22 05:43	,
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/07/22 16:02	09/09/22 05:43	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130			09/07/22 16:02	09/09/22 05:43	1
1,4-Difluorobenzene (Surr)	90		70 - 130			09/07/22 16:02	09/09/22 05:43	1
Method: Total BTEX - Total BTEX	(Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			09/09/22 10:34	1
•								
: Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
•	•	O) (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH	•	, , ,	RL 49.9		<u>D</u>	Prepared	Analyzed 09/06/22 12:59	
Analyte	Result 80.4	Qualifier		Unit	<u>D</u>	Prepared		
Analyte Total TPH Method: 8015B NM - Diesel Rang	Result 80.4 ge Organics (D	Qualifier		Unit	<u>D</u>	Prepared Prepared		1
Analyte Total TPH	Result 80.4 ge Organics (D	Qualifier RO) (GC) Qualifier	49.9	Unit mg/Kg		<u> </u>	09/06/22 12:59	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 80.4 ge Organics (D Result	Qualifier RO) (GC) Qualifier	49.9	Unit mg/Kg		Prepared	09/06/22 12:59 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	Result 80.4 ge Organics (D Result < 49.9	Qualifier RO) (GC) Qualifier U	49.9 RL 49.9	Unit mg/Kg Unit mg/Kg		Prepared 09/01/22 09:04	09/06/22 12:59 Analyzed 09/02/22 14:10	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result ge Organics (D Result <49.9 80.4	Qualifier RO) (GC) Qualifier U	49.9 RL 49.9 49.9	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 09/01/22 09:04 09/01/22 09:04	09/06/22 12:59 Analyzed 09/02/22 14:10 09/02/22 14:10	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result 80.4 ge Organics (D Result < 49.9 80.4	Qualifier RO) (GC) Qualifier U	49.9 RL 49.9 49.9 49.9	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 09/01/22 09:04 09/01/22 09:04	Analyzed 09/02/22 14:10 09/02/22 14:10 09/02/22 14:10	Dil Fac

Client: Ensolum

Job ID: 890-2858-1 Project/Site: Brushy Draw 25 West CTB SDG: 03E1558085

Client Sample ID: PH05 Lab Sample ID: 890-2858-9

Date Collected: 08/29/22 10:00 Date Received: 08/29/22 14:49

Sample Depth: 1

Method: 300.0 - Anions, Ion Chrom	natography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1380		5.00	mg/Kg			09/07/22 02:16	1

Client Sample ID: PH05A Lab Sample ID: 890-2858-10 **Matrix: Solid**

Date Collected: 08/29/22 10:05 Date Received: 08/29/22 14:49

Method: Total BTEX - Total BTEX Calculation

Sample Depth: 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/07/22 16:02	09/09/22 06:09	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/07/22 16:02	09/09/22 06:09	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/07/22 16:02	09/09/22 06:09	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		09/07/22 16:02	09/09/22 06:09	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/07/22 16:02	09/09/22 06:09	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/07/22 16:02	09/09/22 06:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130			09/07/22 16:02	09/09/22 06:09	1
1,4-Difluorobenzene (Surr)	85		70 - 130			09/07/22 16:02	09/09/22 06:09	1

otal TPH	103	49.9	mg/Kg			09/06/22 12:59	1
nalyte	Result Qualifier	RL	Unit	D _	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Orgar	nics (DRO) (GC)						
otal BTEX	<0.00401 U	0.00401	mg/Kg			09/09/22 10:34	1
			otal BTEX <0.00401 U 0.00401				

Unit

Michiga. 00 10D Min - Diesel Rang	je Organies (Di	110) (00)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		09/01/22 09:04	09/02/22 14:31	1
(GRO)-C6-C10								
Diesel Range Organics (Over	90.3		49.9	mg/Kg		09/01/22 09:04	09/02/22 14:31	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/01/22 09:04	09/02/22 14:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130			09/01/22 09:04	09/02/22 14:31	1
o-Terphenyl	115		70 - 130			09/01/22 09:04	09/02/22 14:31	1
-								

Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	1810		24.9	mg/Kg			09/07/22 02:24	5	

Eurofins Carlsbad

Analyzed

Prepared

Surrogate Summary

Client: Ensolum Job ID: 890-2858-1 Project/Site: Brushy Draw 25 West CTB SDG: 03E1558085

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2858-1	PH01	104	72	
890-2858-1 MS	PH01	89	115	
890-2858-1 MSD	PH01	127	83	
890-2858-2	PH01A	95	98	
890-2858-3	PH02	116	79	
890-2858-4	PH02A	127	82	
890-2858-5	PH03	131 S1+	84	
890-2858-6	PH03A	98	99	
890-2858-7	PH04	103	91	
890-2858-8	PH04A	126	93	
890-2858-9	PH05	115	90	
890-2858-10	PH05A	118	85	
LCS 880-33944/1-A	Lab Control Sample	91	78	
LCSD 880-33944/2-A	Lab Control Sample Dup	111	76	
MB 880-33944/5-A	Method Blank	80	74	
MB 880-33982/8	Method Blank	70	81	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
90-2858-1	PH01	94	94	
90-2858-1 MS	PH01	99	85	
90-2858-1 MSD	PH01	105	89	
90-2858-2	PH01A	97	95	
390-2858-3	PH02	118	115	
390-2858-4	PH02A	99	97	
390-2858-5	PH03	118	115	
390-2858-6	PH03A	98	98	
90-2858-7	PH04	106	105	
90-2858-8	PH04A	92	92	
390-2858-9	PH05	93	92	
390-2858-10	PH05A	118	115	
.CS 880-33502/2-A	Lab Control Sample	139 S1+	137 S1+	
CSD 880-33502/3-A	Lab Control Sample Dup	144 S1+	142 S1+	
MB 880-33502/1-A	Method Blank	133 S1+	134 S1+	

Eurofins Carlsbad

OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-2858-1 SDG: 03E1558085 Project/Site: Brushy Draw 25 West CTB

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-33944/5-A

Analysis Batch: 33982

Matrix: Solid

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33944

	INID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/07/22 16:02	09/09/22 01:49	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/07/22 16:02	09/09/22 01:49	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/07/22 16:02	09/09/22 01:49	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		09/07/22 16:02	09/09/22 01:49	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/07/22 16:02	09/09/22 01:49	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/07/22 16:02	09/09/22 01:49	1

мв мв

MD MD

Surrogate	%Recovery Qu	ualifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80	70 - 130	09/07/22 16:02	09/09/22 01:49	1
1,4-Difluorobenzene (Surr)	74	70 - 130	09/07/22 16:02	09/09/22 01:49	1

Lab Sample ID: LCS 880-33944/1-A

Matrix: Solid

Analysis Batch: 33982

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33944

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08825	-	mg/Kg		88	70 - 130	
Toluene	0.100	0.1024		mg/Kg		102	70 - 130	
Ethylbenzene	0.100	0.1040		mg/Kg		104	70 - 130	
m-Xylene & p-Xylene	0.200	0.2047		mg/Kg		102	70 - 130	
o-Xylene	0.100	0.09568		mg/Kg		96	70 - 130	

LCS LCS

Surrogate	%Recovery Qualified	r Limits
4-Bromofluorobenzene (Surr)	91	70 - 130
1,4-Difluorobenzene (Surr)	78	70 - 130

Lab Sample ID: LCSD 880-33944/2-A

Matrix: Solid

Analysis Batch: 33982

Prep Type: Total/NA

Prep Batch: 33944

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1046		mg/Kg		105	70 - 130	17	35	
Toluene	0.100	0.1068		mg/Kg		107	70 - 130	4	35	
Ethylbenzene	0.100	0.1050		mg/Kg		105	70 - 130	1	35	
m-Xylene & p-Xylene	0.200	0.2095		mg/Kg		105	70 - 130	2	35	
o-Xylene	0.100	0.1027		mg/Kg		103	70 - 130	7	35	

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1.4-Difluorobenzene (Surr)	76		70 - 130

Lab Sample ID: 890-2858-1 MS

Matrix: Solid

Analysis Batch: 33982

Client Sample ID: PH01 Prep Type: Total/NA

Prep Batch: 33944

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U F1 F2	0.0998	0.03455	F1	mg/Kg		35	70 - 130	
Toluene	< 0.00200	U F1 F2	0.0998	0.03528	F1	mg/Kg		35	70 - 130	

Eurofins Carlsbad

Page 14 of 30

QC Sample Results

Client: Ensolum

Project/Site: Brushy Draw 25 West CTB

Job ID: 890-2858-1

SDG: 03E1558085

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

Lab Sample ID: 890-2858-1 MS Matrix: Solid

Analysis Batch: 33982

Client Sample ID: PH01
Prep Type: Total/NA

Prep Batch: 33944

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00200	U F1 F2	0.0998	0.03343	F1	mg/Kg		33	70 - 130	
m-Xylene & p-Xylene	<0.00399	U F1 F2	0.200	0.07001	F1	mg/Kg		35	70 - 130	
o-Xylene	<0.00200	U F1 F2	0.0998	0.03721	F1	mg/Kg		37	70 - 130	

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		70 - 130
1,4-Difluorobenzene (Surr)	115		70 - 130

Lab Sample ID: 890-2858-1 MSD Matrix: Solid

Analysis Batch: 33982

Client Sample ID: PH01
Prep Type: Total/NA

Prep Batch: 33944

Sample Sample Spike MSD MSD Result Qualifier Added Result Qualifier %Rec RPD Limit Analyte Unit Limits 0.100 0.09876 F2 Benzene <0.00200 U F1 F2 mg/Kg 99 70 - 130 96 35 0.100 Toluene <0.00200 U F1 F2 0.1023 F2 mg/Kg 102 70 - 130 97 35 Ethylbenzene <0.00200 U F1 F2 0.100 0.09731 F2 mg/Kg 97 70 - 130 98 35 <0.00399 U F1 F2 0.200 0.1927 F2 70 - 130 35 m-Xylene & p-Xylene mg/Kg 96 93 0.100 <0.00200 U F1 F2 0.09421 F2 94 70 - 130 87 o-Xylene mg/Kg

MSD MSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	127	70 - 130
1,4-Difluorobenzene (Surr)	83	70 - 130

Lab Sample ID: MB 880-33982/8

Matrix: Solid

Analysis Batch: 33982

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg			09/08/22 11:40	1
Toluene	<0.00200	U	0.00200	mg/Kg			09/08/22 11:40	1
Ethylbenzene	< 0.00200	U	0.00200	mg/Kg			09/08/22 11:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg			09/08/22 11:40	1
o-Xylene	< 0.00200	U	0.00200	mg/Kg			09/08/22 11:40	1
Xylenes, Total	< 0.00400	U	0.00400	mg/Kg			09/08/22 11:40	1

MB MB

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	70		70 - 130		09/08/22 11:40	1
1,4-Difluorobenzene (Surr)	81		70 - 130		09/08/22 11:40	1

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

Lab Sample ID: MB 880-33502/1-A

Matrix: Solid

Analysis Batch: 33584

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 33502

Analyzed Dil Fac
09/02/22 09:30 1

 Analyte
 Result
 Qualifier
 RL
 Unit
 D
 Prepared

 Gasoline Range Organics
 <50.0</td>
 U
 50.0
 mg/Kg
 09/01/22 09:04

 (GRO)-C6-C10

Eurofins Carlsbad

4

6

8

10

13

ino Ganobac

Analyte

Project/Site: Brushy Draw 25 West CTB

Job ID: 890-2858-1 SDG: 03E1558085

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

Lab Sample ID: MB 880-33502/1-A **Matrix: Solid**

Analysis Batch: 33584

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 33502

MB MB Result Qualifier RL Unit Prepared Analyzed Dil Fac

<50.0 U 50.0 09/01/22 09:04 09/02/22 09:30 Diesel Range Organics (Over mg/Kg C10-C28) OII Range Organics (Over C28-C36) 50.0 09/01/22 09:04 09/02/22 09:30 <50.0 U mg/Kg

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	133	S1+	70 - 130	09/01/22 09:04	09/02/22 09:30	1
o-Terphenyl	134	S1+	70 - 130	09/01/22 09:04	09/02/22 09:30	1

Lab Sample ID: LCS 880-33502/2-A Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 33584

Prep Type: Total/NA Prep Batch: 33502

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 801.9 80 70 - 130 mg/Kg (GRO)-C6-C10 1000 877.6 Diesel Range Organics (Over mg/Kg 88 70 - 130C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits		
1-Chlorooctane	139	S1+	70 - 130		
o-Terphenyl	137	S1+	70 - 130		

Lab Sample ID: LCSD 880-33502/3-A

Matrix: Solid

Analysis Batch: 33584

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 33502

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier %Rec Limits RPD Limit Unit D Gasoline Range Organics 1000 868.7 mg/Kg 87 70 - 130 8 20 (GRO)-C6-C10 Diesel Range Organics (Over 1000 912.6 mg/Kg 91 70 - 130 4 20 C10-C28)

LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 144 S1+ 70 - 130 142 S1+ 70 - 130

Lab Sample ID: 890-2858-1 MS

Matrix: Solid

o-Terphenyl

Analysis Batch: 33584

Client Sample ID: PH01

Prep Type: Total/NA

Prep Batch: 33502

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.9	U F1	999	696.4	F1	mg/Kg		67	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.9	U F1	999	1009		mg/Kg		98	70 - 130	
040,000)										

C10-C28)

	IVIS	IVIS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	85		70 - 130

Job ID: 890-2858-1 Client: Ensolum Project/Site: Brushy Draw 25 West CTB

SDG: 03E1558085

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

Lab Sample ID: 890-2858-1 MSD **Client Sample ID: PH01 Matrix: Solid** Prep Type: Total/NA Analysis Batch: 33584 Prep Batch: 33502

Sample Sample MSD MSD RPD Spike Result Qualifier Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Gasoline Range Organics <49.9 U F1 998 716.6 F1 mg/Kg 69 70 - 130 3 20 (GRO)-C6-C10 998 1063 104 70 - 130Diesel Range Organics (Over <49.9 U F1 mg/Kg 5 20

C10-C28)

MSD MSD %Recovery Qualifier Limits Surrogate 1-Chlorooctane 70 - 130 105 o-Terphenyl 89 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-33618/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 33669

MB MB Result Qualifier RL Unit Analyte D Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 mg/Kg 09/06/22 23:11

Lab Sample ID: LCS 880-33618/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 33669

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits Chloride 250 236.7 90 - 110 mg/Kg

Lab Sample ID: LCSD 880-33618/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 33669

Spike LCSD LCSD RPD %Rec Analyte Added Result Qualifier Unit %Rec RPD Limit Chloride 250 237.4 95 90 - 110 mg/Kg 0

Lab Sample ID: 890-2858-4 MS Client Sample ID: PH02A **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 33669

Sample Sample Spike MS MS %Rec Qualifier Added Result Qualifier Analyte Result Unit %Rec Limits Chloride F1 1260 3893 F1 145 90 - 110 2070 mg/Kg

Lab Sample ID: 890-2858-4 MSD

Matrix: Solid

Analysis Batch: 33669

Sample Sample Spike MSD MSD %Rec RPD Result Qualifier Added Analyte Result Qualifier %Rec Limits RPD Limit Unit D 2070 F1 1260 Chloride 3895 F1 145 90 - 110 20 mg/Kg 0

Eurofins Carlsbad

Client Sample ID: PH02A

Prep Type: Soluble

Prep Type: Soluble

Released to Imaging: 1/11/2023 2:08:05 PM

Client: Ensolum Job ID: 890-2858-1 Project/Site: Brushy Draw 25 West CTB SDG: 03E1558085

GC VOA

Prep Batch: 33944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2858-1	PH01	Total/NA	Solid	5035	
890-2858-2	PH01A	Total/NA	Solid	5035	
890-2858-3	PH02	Total/NA	Solid	5035	
890-2858-4	PH02A	Total/NA	Solid	5035	
890-2858-5	PH03	Total/NA	Solid	5035	
890-2858-6	PH03A	Total/NA	Solid	5035	
890-2858-7	PH04	Total/NA	Solid	5035	
890-2858-8	PH04A	Total/NA	Solid	5035	
890-2858-9	PH05	Total/NA	Solid	5035	
890-2858-10	PH05A	Total/NA	Solid	5035	
MB 880-33944/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-33944/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-33944/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2858-1 MS	PH01	Total/NA	Solid	5035	
890-2858-1 MSD	PH01	Total/NA	Solid	5035	

Analysis Batch: 33982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2858-1	PH01	Total/NA	Solid	8021B	33944
890-2858-2	PH01A	Total/NA	Solid	8021B	33944
890-2858-3	PH02	Total/NA	Solid	8021B	33944
890-2858-4	PH02A	Total/NA	Solid	8021B	33944
890-2858-5	PH03	Total/NA	Solid	8021B	33944
890-2858-6	PH03A	Total/NA	Solid	8021B	33944
890-2858-7	PH04	Total/NA	Solid	8021B	33944
890-2858-8	PH04A	Total/NA	Solid	8021B	33944
890-2858-9	PH05	Total/NA	Solid	8021B	33944
890-2858-10	PH05A	Total/NA	Solid	8021B	33944
MB 880-33944/5-A	Method Blank	Total/NA	Solid	8021B	33944
MB 880-33982/8	Method Blank	Total/NA	Solid	8021B	
LCS 880-33944/1-A	Lab Control Sample	Total/NA	Solid	8021B	33944
LCSD 880-33944/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	33944
890-2858-1 MS	PH01	Total/NA	Solid	8021B	33944
890-2858-1 MSD	PH01	Total/NA	Solid	8021B	33944

Analysis Batch: 34083

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2858-1	PH01	Total/NA	Solid	Total BTEX	_
890-2858-2	PH01A	Total/NA	Solid	Total BTEX	
890-2858-3	PH02	Total/NA	Solid	Total BTEX	
890-2858-4	PH02A	Total/NA	Solid	Total BTEX	
890-2858-5	PH03	Total/NA	Solid	Total BTEX	
890-2858-6	PH03A	Total/NA	Solid	Total BTEX	
890-2858-7	PH04	Total/NA	Solid	Total BTEX	
890-2858-8	PH04A	Total/NA	Solid	Total BTEX	
890-2858-9	PH05	Total/NA	Solid	Total BTEX	
890-2858-10	PH05A	Total/NA	Solid	Total BTEX	

Client: Ensolum

Project/Site: Brushy Draw 25 West CTB

Job ID: 890-2858-1 SDG: 03E1558085

GC Semi VOA

Prep Batch: 33502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2858-1	PH01	Total/NA	Solid	8015NM Prep	
890-2858-2	PH01A	Total/NA	Solid	8015NM Prep	
890-2858-3	PH02	Total/NA	Solid	8015NM Prep	
890-2858-4	PH02A	Total/NA	Solid	8015NM Prep	
890-2858-5	PH03	Total/NA	Solid	8015NM Prep	
890-2858-6	PH03A	Total/NA	Solid	8015NM Prep	
890-2858-7	PH04	Total/NA	Solid	8015NM Prep	
890-2858-8	PH04A	Total/NA	Solid	8015NM Prep	
890-2858-9	PH05	Total/NA	Solid	8015NM Prep	
890-2858-10	PH05A	Total/NA	Solid	8015NM Prep	
MB 880-33502/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-33502/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-33502/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2858-1 MS	PH01	Total/NA	Solid	8015NM Prep	
890-2858-1 MSD	PH01	Total/NA	Solid	8015NM Prep	

Analysis Batch: 33584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2858-1	PH01	Total/NA	Solid	8015B NM	33502
890-2858-2	PH01A	Total/NA	Solid	8015B NM	33502
890-2858-3	PH02	Total/NA	Solid	8015B NM	33502
890-2858-4	PH02A	Total/NA	Solid	8015B NM	33502
890-2858-5	PH03	Total/NA	Solid	8015B NM	33502
890-2858-6	PH03A	Total/NA	Solid	8015B NM	33502
890-2858-7	PH04	Total/NA	Solid	8015B NM	33502
890-2858-8	PH04A	Total/NA	Solid	8015B NM	33502
890-2858-9	PH05	Total/NA	Solid	8015B NM	33502
890-2858-10	PH05A	Total/NA	Solid	8015B NM	33502
MB 880-33502/1-A	Method Blank	Total/NA	Solid	8015B NM	33502
LCS 880-33502/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	33502
LCSD 880-33502/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	33502
890-2858-1 MS	PH01	Total/NA	Solid	8015B NM	33502
890-2858-1 MSD	PH01	Total/NA	Solid	8015B NM	33502

Analysis Batch: 33842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2858-1	PH01	Total/NA	Solid	8015 NM	
890-2858-2	PH01A	Total/NA	Solid	8015 NM	
890-2858-3	PH02	Total/NA	Solid	8015 NM	
890-2858-4	PH02A	Total/NA	Solid	8015 NM	
890-2858-5	PH03	Total/NA	Solid	8015 NM	
890-2858-6	PH03A	Total/NA	Solid	8015 NM	
890-2858-7	PH04	Total/NA	Solid	8015 NM	
890-2858-8	PH04A	Total/NA	Solid	8015 NM	
890-2858-9	PH05	Total/NA	Solid	8015 NM	
890-2858-10	PH05A	Total/NA	Solid	8015 NM	

Client: Ensolum

Project/Site: Brushy Draw 25 West CTB

Job ID: 890-2858-1 SDG: 03E1558085

HPLC/IC

Leach Batch: 33618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-2858-1	PH01	Soluble	Solid	DI Leach	
890-2858-2	PH01A	Soluble	Solid	DI Leach	
890-2858-3	PH02	Soluble	Solid	DI Leach	
890-2858-4	PH02A	Soluble	Solid	DI Leach	
890-2858-5	PH03	Soluble	Solid	DI Leach	
890-2858-6	PH03A	Soluble	Solid	DI Leach	
890-2858-7	PH04	Soluble	Solid	DI Leach	
890-2858-8	PH04A	Soluble	Solid	DI Leach	
890-2858-9	PH05	Soluble	Solid	DI Leach	
890-2858-10	PH05A	Soluble	Solid	DI Leach	
MB 880-33618/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-33618/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-33618/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2858-4 MS	PH02A	Soluble	Solid	DI Leach	
890-2858-4 MSD	PH02A	Soluble	Solid	DI Leach	

Analysis Batch: 33669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2858-1	PH01	Soluble	Solid	300.0	33618
890-2858-2	PH01A	Soluble	Solid	300.0	33618
890-2858-3	PH02	Soluble	Solid	300.0	33618
890-2858-4	PH02A	Soluble	Solid	300.0	33618
890-2858-5	PH03	Soluble	Solid	300.0	33618
890-2858-6	PH03A	Soluble	Solid	300.0	33618
890-2858-7	PH04	Soluble	Solid	300.0	33618
890-2858-8	PH04A	Soluble	Solid	300.0	33618
890-2858-9	PH05	Soluble	Solid	300.0	33618
890-2858-10	PH05A	Soluble	Solid	300.0	33618
MB 880-33618/1-A	Method Blank	Soluble	Solid	300.0	33618
LCS 880-33618/2-A	Lab Control Sample	Soluble	Solid	300.0	33618
LCSD 880-33618/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	33618
890-2858-4 MS	PH02A	Soluble	Solid	300.0	33618
890-2858-4 MSD	PH02A	Soluble	Solid	300.0	33618

Eurofins Carlsbad

Released to Imaging: 1/11/2023 2:08:05 PM

2

8

10

12

13

14

Project/Site: Brushy Draw 25 West CTB

Job ID: 890-2858-1 SDG: 03E1558085

Lab Sample ID: 890-2858-1

Matrix: Solid

Date Collected: 08/29/22 09:20 Date Received: 08/29/22 14:49

Client Sample ID: PH01

	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	33944	09/07/22 16:02	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33982	09/09/22 02:15	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34083	09/09/22 10:34	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33842	09/06/22 12:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	33502	09/01/22 09:04	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33584	09/02/22 10:34	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	33618	09/02/22 10:37	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	33669	09/07/22 00:51	CH	EET MID

Client Sample ID: PH01A

Date Collected: 08/29/22 09:25

Date Received: 08/29/22 14:49

Lab Sample ID: 890-2858-2

Matrix: Solid

Dil Initial Final Batch Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 33944 Total/NA 5.03 g 5 mL 09/07/22 16:02 MR EET MID Total/NA 8021B 5 mL 33982 09/09/22 02:41 **EET MID** Analysis 1 5 mL MR Total/NA Total BTEX 34083 09/09/22 10:34 Analysis A.I **EET MID** 1 Total/NA Analysis 8015 NM 33842 09/06/22 12:59 SM **EET MID** Total/NA 10.03 g 33502 Prep 8015NM Prep 10 mL 09/01/22 09:04 DM EET MID Total/NA Analysis 8015B NM 1 uL 1 uL 33584 09/02/22 11:39 SM **EET MID** Soluble 09/02/22 10:37 KS Leach DI Leach 4.99 g 50 mL 33618 **EET MID** Soluble Analysis 300.0 5 50 mL 50 mL 33669 09/07/22 00:58 СН **EET MID**

Client Sample ID: PH02

Date Collected: 08/29/22 09:30

Date Received: 08/29/22 14:49

Lab Sample ID: 890-2858-3

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	33944	09/07/22 16:02	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33982	09/09/22 03:06	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34083	09/09/22 10:34	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33842	09/06/22 12:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	33502	09/01/22 09:04	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33584	09/02/22 12:01	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	33618	09/02/22 10:37	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	33669	09/07/22 01:05	CH	EET MID

Client Sample ID: PH02A

Date Collected: 08/29/22 09:35

Date Received: 08/29/22 14:49

Lab Sample ID: 890-2858-4	ļ.
Matrix: Solid	ı
	_

	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	33944	09/07/22 16:02	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33982	09/09/22 03:32	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34083	09/09/22 10:34	AJ	EET MID

Eurofins Carlsbad

Page 21 of 30

Project/Site: Brushy Draw 25 West CTB

Job ID: 890-2858-1

SDG: 03E1558085

Client Sample ID: PH02A

Date Collected: 08/29/22 09:35 Date Received: 08/29/22 14:49 Lab Sample ID: 890-2858-4

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			33842	09/06/22 12:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	33502	09/01/22 09:04	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33584	09/02/22 12:22	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	33618	09/02/22 10:37	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	33669	09/07/22 01:12	СН	EET MID

Client Sample ID: PH03 Lab Sample ID: 890-2858-5

Date Collected: 08/29/22 09:40

Date Received: 08/29/22 14:49

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			5.03 g	5 mL	33944	09/07/22 16:02	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33982	09/09/22 03:58	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34083	09/09/22 10:34	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33842	09/06/22 12:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	33502	09/01/22 09:04	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33584	09/02/22 12:44	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	33618	09/02/22 10:37	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33669	09/07/22 01:34	CH	EET MID

Client Sample ID: PH03A Lab Sample ID: 890-2858-6

Date Collected: 08/29/22 09:45 Date Received: 08/29/22 14:49

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			5.01 g	5 mL	33944	09/07/22 16:02	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33982	09/09/22 04:24	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34083	09/09/22 10:34	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33842	09/06/22 12:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	33502	09/01/22 09:04	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33584	09/02/22 13:05	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	33618	09/02/22 10:37	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33669	09/07/22 01:41	CH	EET MID

Lab Sample ID: 890-2858-7 Client Sample ID: PH04

Date Collected: 08/29/22 09:50 Date Received: 08/29/22 14:49

Matrix: Solid

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	33944	09/07/22 16:02	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33982	09/09/22 04:50	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34083	09/09/22 10:34	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33842	09/06/22 12:59	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.01 g 1 uL	10 mL 1 uL	33502 33584	09/01/22 09:04 09/02/22 13:27	DM SM	EET MID EET MID

Project/Site: Brushy Draw 25 West CTB

Job ID: 890-2858-1

SDG: 03E1558085

Client Sample ID: PH04

Date Collected: 08/29/22 09:50 Date Received: 08/29/22 14:49 Lab Sample ID: 890-2858-7

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	33618	09/02/22 10:37	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	33669	09/07/22 02:02	CH	EET MID

Client Sample ID: PH04A Lab Sample ID: 890-2858-8 **Matrix: Solid**

Date Collected: 08/29/22 09:55

Date Received: 08/29/22 14:49

	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	33944	09/07/22 16:02	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33982	09/09/22 05:16	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34083	09/09/22 10:34	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33842	09/06/22 12:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	33502	09/01/22 09:04	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33584	09/02/22 13:48	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	33618	09/02/22 10:37	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33669	09/07/22 02:09	CH	EET MID

Client Sample ID: PH05 Lab Sample ID: 890-2858-9

Date Collected: 08/29/22 10:00

Date Received: 08/29/22 14:49

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	33944	09/07/22 16:02	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33982	09/09/22 05:43	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34083	09/09/22 10:34	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33842	09/06/22 12:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	33502	09/01/22 09:04	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33584	09/02/22 14:10	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	33618	09/02/22 10:37	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33669	09/07/22 02:16	CH	EET MID

Client Sample ID: PH05A

Date Collected: 08/29/22 10:05

Date Received: 08/29/22 14:49

Lab Sample ID:	890-2858-10
	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			4.99 g	5 mL	33944	09/07/22 16:02	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33982	09/09/22 06:09	MR	EET MID
Total/NA	Analysis	Total BTEX		1			34083	09/09/22 10:34	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33842	09/06/22 12:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	33502	09/01/22 09:04	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	33584	09/02/22 14:31	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	33618	09/02/22 10:37	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	33669	09/07/22 02:24	CH	EET MID

Lab Chronicle

Client: Ensolum

Project/Site: Brushy Draw 25 West CTB

Job ID: 890-2858-1 SDG: 03E1558085

Laboratory References:

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

3

6

8

9

11

12

114

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-2858-1 Project/Site: Brushy Draw 25 West CTB

SDG: 03E1558085

Laboratory: Eurofins Midland

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

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-22-24	06-30-23
The following analytes the agency does not of	• '	it the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes for
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	
Total BTFX		Solid	Total BTFX	

Method Summary

Client: Ensolum

Project/Site: Brushy Draw 25 West CTB

Job ID: 890-2858-1

SDG: 03E1558085

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum

890-2858-6

890-2858-7

890-2858-8

890-2858-9

890-2858-10

Project/Site: Brushy Draw 25 West CTB

PH03A

PH04

PH04A

PH05

PH05A

Job ID: 890-2858-1 SDG: 03E1558085

Lab Sample ID Client Sample ID Matrix Collected Received Depth 08/29/22 14:49 890-2858-1 PH01 Solid 08/29/22 09:20 890-2858-2 PH01A Solid 08/29/22 09:25 08/29/22 14:49 2 890-2858-3 PH02 Solid 08/29/22 09:30 08/29/22 14:49 890-2858-4 PH02A Solid 08/29/22 09:35 08/29/22 14:49 2 890-2858-5 PH03 Solid 08/29/22 09:40 08/29/22 14:49 1

08/29/22 09:45

08/29/22 09:50

08/29/22 09:55

08/29/22 10:00

08/29/22 10:05

08/29/22 14:49

08/29/22 14:49

08/29/22 14:49

08/29/22 14:49 08/29/22 14:49 2

2

Solid

Solid

Solid

Solid

Solid

-

4

_

7

9

10

12

13

14

Circle Method(s) and Metal(s) to be analyzed

Relinguished by (Signature)

Receixed by (Signature)

.29.22

るかり

Date/Time

submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

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

nn

Total 200.7 / 6010

200.8 / 6020:

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

8RCRA 13PPM Texas 11 AI Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn

TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U

Chain of Custody

euro	eurofins En	nvironment Te	Testing	Houst	on, TX	(281) 2	40-420	0, Dallas, TX (San Antonio, T	Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334	Work Order No:		
	Xe	Kenco		EL Pa	so, TX (915) 58	5-344	3, Lubbock, TX	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296			
				Hobbs	NM (5	75) 392	-7550,	Carlsbad, NM	Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199		_	
										www.xeiico.coiii		
ect Manager:	Kalei Jennings			Bill to: (if different)		Garret Green	Greei			AAOLY Older Collinging	The state of the s	
npany Name:	Ensolum			Company Name:		XTO Energy	nergy			Program: UST/PST PRP Brownfi] PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
ress:	3122 National Parks Hwy	arks Hwy		Address:		3104 E. Green St	Gree	en St.		State of Project:		
State ZIP:	Carlsbad, NM 88220	3220		City, State ZIP:		Carlsb	ad, NN	Carlsbad, NM 88220		Reporting: Level II Level III PST/UST TRRP Level IV	JST TRRP Level IV	
ne:	303-887-2946		Email:	Email: Garret.Green@ExxonMobil.com	Exxo	Mobi	com			Deliverables: EDD ADaPT	Other:	
ect Name:	Brushy Draw	Brushy Draw 25 West CTB	Turn	Turn Around					ANALYSIS REQU	TEST	Preservative Codes	
ect Number:	03E1	03E1558085	☑ Routine	Rush	Pres. Code					7	None: NO DI Water: H ₂ O	
ect Location:	32.10429,	32.10429, -103.83911	Due Date:								_	
npler's Name:	Kase	Kase Parker	TAT starts the	TAT starts the day received by				_		-		
*)	the lab, if rec	eived by 4:30pm	ers						H ₂ SO ₄ : H ₂ NaOH: Na	
MPLE RECEIPT	IPT Temp Blank:	ank: (Yes No	Wet ice:	(Yes) No	nete	.0)					H ₃ PO ₄ : HP	_
nples Received Intact:	/ Yes	No Thermometer ID:	1	FOO-WA	araı	300				7	NaHSC4: NABIS	
ler Custody Seals:	Yes	No (N/A) Correction Factor:	actor:	CC	F	PA					14020203. 140003	
nple Custody Seals:	als: Yes No	N/A Temperature Reading:	e Reading:) (2)		S (E		1	890-2858 Chain of	Custody	Zn Acetate+NaOH: Zn	L.
al Containers:		Corrected Temperature:	emperature:	29.0		RIDE	015)	(802 ⁻	- \		NaOH+Ascorbic Acid: SAPC	
Sample Identification		Matrix Sampled	Time Sampled	Depth Grab/	cont cont	CHLO	TPH (8	BTEX			Sample Comments	
PH01	01	S 8/29/2022	9:20	1'		×	×	×			Incident ID:	
PH01A	1A	S 8/29/2022	9:25	2'		×	×	×			nAPP2216138431	
PH02	02	S 8/29/2022	9:30	1		×	×	×		0	Cost Center:	
PH02A	2A	S 8/29/2022	9:35	2'		×	×	×			2191851001	
PH03)3	S 8/29/2022	9:40	<u>→</u>		×	×	×		P	AFE:	
РНОЗА	3A	S 8/29/2022	9:45	2		×	×	×				
PH04)4	S 8/29/2022	9:50	<u></u>		×	×	×				
PH04A	4A	S 8/29/2022	9:55	2		×	×	×				
PH05)5	S 8/29/2022	10:00			×	×	×				
PH05A	5A	S 8/29/2022	10:05	2		×	×	×				

PO #

Sampler's Name:

Project Location: Project Number: Project Name: City, State ZIP:

Address: Company Name: Project Manager:

SAMPLE REC

Sample Custody S

Total Containers:

Cooler Custody So Samples Receive

Hg: 1631 / 245.1 / 7470 / 7471

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-2858-1

SDG Number: 03E1558085

List Source: Eurofins Carlsbad

Login Number: 2858 List Number: 1 Creator: Clifton, Cloe

Question Answer Comment

The cooler's custody seal, if present, is intact.

Sample custody seals, if present, are intact.

The cooler or samples do not appear to have been compromised or tampered with.

Samples were received on ice.

Cooler Temperature is acceptable.

Cooler Temperature is recorded.

COC is present.

COC is filled out in ink and legible.

COC is filled out with all pertinent information.

Is the Field Sampler's name present on COC?

There are no discrepancies between the containers received and the COC.

Samples are received within Holding Time (excluding tests with immediate

HTs)

Sample containers have legible labels.

Containers are not broken or leaking.

Sample collection date/times are provided.

Appropriate sample containers are used.

Sample bottles are completely filled.

Sample Preservation Verified.

There is sufficient vol. for all requested analyses, incl. any requested

MS/MSDs

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

Eurofins Carlsbad

Released to Imaging: 1/11/2023 2:08:05 PM

Page 29 of 30

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2858-1 SDG Number: 03E1558085

Login Number: 2858

List Source: Eurofins Midland
List Number: 2

List Creation: 08/31/22 11:18 AM

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	

4

3

4

5

7

9

11

13

14

<6mm (1/4").



APPENDIX E

NMOCD Notifications

From: <u>Collins, Melanie</u>

To: ocd.enviro@state.nm.us; mike.bratcher@state.nm.us; Hamlet, Robert, EMNRD

Cc: DelawareSpills /SM; Kalei Jennings; Tacoma Morrissey; Ben Belill; Ashley Ager; Green, Garrett J; Pennington.

Shelby G

Subject: XTO-Liner Inspection Notification- PLU 25 Brushy Draw West CTB / NAPP2216138431

Date: Friday, July 22, 2022 3:06:43 PM

Attachments: <u>image001.png</u>

[**EXTERNAL EMAIL**]

All,

This is advance notification of a liner inspection to occur Friday, July 29th, 2022, at 9 a.m. MST at the PLU 25 Brushy Draw West CTB/NAPP2216138431. GPS coordinates are listed below. Please do not hesitate to reach out with questions or concerns.

PLU 25 Brushy Draw West CTB / NAPP2216138431

GPS: 32.65852, -103.50705

Thank you,

Melanie Collins



Environmental Technician

melanie.collins@exxonmobil.com

432-556-3756

From: <u>Green, Garrett J</u>

To: ocd.enviro@state.nm.us; mike.bratcher@state.nm.us; Hamlet, Robert, EMNRD

Cc: Tacoma Morrissey

Subject: XTO - Sampling Notification (Week of 8/29/22 - 9/2/22)

Date: Friday, August 26, 2022 3:15:37 PM

[**EXTERNAL EMAIL**]

All,

XTO plans to complete final sampling activities at the following sites the week of August 29, 2022.

Monday

- Brushy Draw West 25 / nAPP2216138431
- Big Sinks 2-24-30 / nAPP2219644709 & nAPP2220224382

Tuesday

- Brushy Draw West 25 / nAPP2216138431
- PLU 21 BD 123-124 & 104 / nAPP2211651017, nAPP2211151438, nAPP2210942764, & nAPP2209736479
- ADU 816/ NAB1435334641

Wednesday

- Brushy Draw West 25 / nAPP2216138431
- PLU 21 BD 123-124 & 104 / nAPP2211651017, nAPP2211151438, nAPP2210942764, & nAPP2209736479
- ADU 816/ NAB1435334641
- PLU Pierce Canyon 12 / nAPP2222044186

Thursday

- PLU 21 BD 123-124 & 104 / nAPP2211651017, nAPP2211151438, nAPP2210942764, & nAPP2209736479
- JRU DI2/ nAPP2211654411 & nAPP2208349430

Friday

- PLU 21 BD 123-124 & 104 / nAPP2211651017, nAPP2211151438, nAPP2210942764, & nAPP2209736479
- PLU S Frac Pond / nAPP2211150068

Thank you!

Garrett Green

Environmental Coordinator Delaware Business Unit (575) 200-0729

Garrett.Green@ExxonMobil.com

From: Hamlet, Robert, EMNRD To: Collins, Melanie

Cc: DelawareSpills /SM; Kalei Jennings; Green, Garrett J; Pennington, Shelby G; Bratcher, Mike, EMNRD; Nobui,

Jennifer, EMNRD; Harimon, Jocelyn, EMNRD

(Extension Approval) PLU 25 Brushy Draw West CTB (Incident Number NAPP2216138431) Subject:

Thursday, September 1, 2022 2:43:05 PM Date:

Attachments: image002.jpg

image003.png

[**EXTERNAL EMAIL**]

RE: Incident #NAPP2216138431

Melanie,

Your request for an extension to November 1st, 2022 is approved. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced

Environmental Bureau EMNRD - Oil Conservation Division 811 S. First Street | Artesia. NM 88210

575.909.0302 | robert.hamlet@state.nm.us

http://www.emnrd.state.nm.us/OCD/



From: Collins, Melanie <melanie.collins@exxonmobil.com>

Sent: Thursday, September 1, 2022 11:57 AM

To: Enviro, OCD, EMNRD < OCD.Enviro@state.nm.us>; Bratcher, Mike, EMNRD

<mike.bratcher@state.nm.us>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>

Cc: DelawareSpills /SM <DelawareSpills@exxonmobil.com>; Kalei Jennings

<kjennings@ensolum.com>; Green, Garrett J <garrett.green@exxonmobil.com>; Pennington, Shelby G <shelby.g.pennington@exxonmobil.com>

Subject: [EXTERNAL] PLU 25 Brushy Draw West CTB (Incident Number NAPP2216138431)

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

All,

XTO is requesting an extension for the current deadline of September 2, 2022 for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC at the PLU 25 Brushy Draw West CTB (Incident Number NAPP2216138431). The release occurred on June 4, 2022, and initial site assessment activities have been completed. Delineation activities were completed last

week and are pending laboratory analytical results. In order to review the laboratory analytical results, discuss remedial options, and submit a remediation work plan or closure report, XTO requests an extension until November 1, 2022.

Thank you,

Melanie Collins



Environmental Technician melanie.collins@exxonmobil.com 432-556-3756

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

CONDITIONS

Action 155366

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	155366
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NAPP2216138431 PLU 25 BRUSHY DRAW WEST CTB, thank you. This closure is approved. Please be aware that any contaminants left on pad above reclamation standards will need to be addressed at the time the site/facility is plugged and abandoned.	1/11/2023