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	NAPP2213148421
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

			Resp	onsible I alty	1	
Responsible	Party XTC	Energy		OGRID 5	OGRID 5380	
Contact Name Garrett Green			Contact Te	elephone 575-200-0	0729	
Contact email garrett.green@exxonmobil.com			Incident # ((assigned by OCD)		
		6401 Holiday Hill		nd, Texas, 79707		
				of Release So	ource	
Latitude 32	18190		(NAD 83 in dec	Longitude _ cimal degrees to 5 decim	-103.83290 nal places)	
Site Name PI	LU Big Sink	s 25 Battery		Site Type T	`ank Battery	
Date Release	Discovered	04/27/2022		API# (if appl	licable)	
Unit Letter	Section	Township	Range	Count	ty	
О	25	24S	30E	Eddy	y	
	Materia		Nature and	Name:	justification for the vol	
▼ Crude Oil		Volume Release	d (bbls) 0.96		Volume Recover	· / 0.00
☐ Produced	Water	Volume Release			Volume Recover	red (bbls)
		in the produced	ion of total dissolv water >10,000 mg	\ /	Yes No	
☐ Condensa		Volume Release	` ′		Volume Recover	red (bbls)
Natural Gas Volume Released (Mcf)			Volume Recover	red (Mcf)		
Other (de	Other (describe) Volume/Weight Released (provide units) Volume/Weight Recovered (provide units)					
Cause of Rel	ignite ii	cheduled inspection in a small grass fire dediation purposes.	e. Flames were ext	ll valve was opened inguished with fire	, causing residual extinguisher. A th	fluids to burp out of the flare and nird-party contractor has been retained

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State of New Mexico
Page 2
Oil Conservation Division

State of New Mexico Incident ID NA

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Was this a major release as defined by	If YES, for what reason(s) does the respor A release that results in a fire or is the resu	
19.15.29.7(A) NMAC?		
🗷 Yes 🗌 No		

·	•	om? When and by what means (phone, email, etc)? EMNRD; Victoria Venegas; ocd.enviro@state.nm.us on
Wednesday, April 27, 202		WINKD, Victoria Venegas, occienviro@state.iiii.us oii
	Initial Ro	esponse
The responsible p	party must undertake the following actions immediatel	vunless they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.	
▼ The impacted area ha	s been secured to protect human health and	the environment.
Released materials ha	we 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	d managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain v	vhy:
NA		
Per 10 15 20 8 R (4) NM	AC the responsible party may commence re	emediation immediately after discovery of a release. If remediation
has begun, please attach	a narrative of actions to date. If remedial	efforts have been successfully completed or if the release occurred lease attach all information needed for closure evaluation.
		best of my knowledge and understand that pursuant to OCD rules and
public health or the environr	nent. The acceptance of a C-141 report by the C	cications and perform corrective actions for releases which may endanger CD does not relieve the operator of liability should their operations have
		at to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws
and/or regulations.		
Printed Name: Garrett Gr	reen	Title: SSHE Coordinator
Signature:	A Sur	Date: 05/11/2022
email: garrett.green@exx	conmobil.com	Telephone: 575-200-0729
		•
OCD Only		
Received by: Jocelyn I	Harimon	Date: 05/11/2022

Location:	PLU 25 Big Sinks Batter	у	
Spill Date:	4/27/2022		
	Area 1		
Approximate A	rea =	0.45	sq. ft.
Average Satura	tion (or depth) of spill =	0.13	inches
Average Porosi	ty Factor =	0.15	
	VOLUME OF LEAK		
Total Crude Oil	=	0.96	bbls
Total Produced	Water =	0.00	bbls
	TOTAL VOLUME OF LEAR	K	
Total Crude Oil	=	0.96	bbls
Total Produced	Water =	0.00	bbls
	TOTAL VOLUME RECOVER	ED	
Total Crude Oil	=	0.00	bbls
Total Produced	Water =	0.00	bbls

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 106082

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	106082
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
jharimon	None	5/11/2022

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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 vercontamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil	
Characterization Report Checklist: Each of the following items must be included in the report.		
 Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information 		
☐ Topographic/Aerial maps		

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.

□ Laboratory data including chain of custody

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regulations all operators are required to report and/or file certain releas public health or the environment. The acceptance of a C-141 report by failed to adequately investigate and remediate contamination that pose	o the best of my knowledge and understand that pursuant to OCD rules and e notifications and perform corrective actions for releases which may endanger the OCD does not relieve the operator of liability should their operations have a threat to groundwater, surface water, human health or the environment. In tor of responsibility for compliance with any other federal, state, or local laws
Printed Name:Garrett Green	Title:Environmental Coordinator
Signature:Satt Surr	Date:7/26/2022
email:Garrett.Green@ExxonMobil.com	Telephone:575-200-0729
OCD Only	
Received by:	Date:

Incident ID	NAPP2202446534
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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 19.15.29.1	1 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODC	C 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 certain may endanger public health or the environment. The acceptance of	ntions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete.
Signature:Sath Surr	
email:Garrett.Green@ExxonMobil.com	
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by:	Date:08/24/2022
Closure Approved by:	Title:Environmental Specialist A



July 26, 2022

District II New Mexico Oil Conservation Division 811 South First Street Artesia. New Mexico 88210

Re: Closure Request

PLU Big Sinks 25 Battery

Incident Number NAPP2213148421

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 and soil sampling activities performed at the PLU Big Sinks 25 Battery (Site). The purpose of the site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil resulting from a small crude oil flare fire at the Site. Based on the site assessment activities and analytical results from the soil sampling event, XTO is submitting this Closure Request for Incident Number NAPP2213148421.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in in Unit O, Section 25, Township 24 South, Range 30 East, in Eddy County, New Mexico (32.18190° N, 103.83290°W) and is associated with oil and gas exploration and production operations on federal land managed by the Bureau of Land Management (BLM).

On April 27, 2022, a downstream ball valve was opened after a scheduled inspection and caused approximately 0.96 barrels (bbls) of crude oil out of the flare, which ignited and extinguished on the ground. There were no fluids to recover. XTO reported the release immediately via email to the New Mexico Oil Conservation Division (NMOCD) on April 27, 2022 and submitted a Release Notification Form C-141 (Form C-141) on May 11, 2022. The release was assigned Incident Number NAPP2213148421.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized according to Table 1, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer well C-4484 Pod 1, located approximately 342 feet northeast of the Site. The dry soil boring has a total depth of 110 feet bgs. Ground surface

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants
601 North Marienfeld Street | Midland, TX 79701 | ensolum.com
Texas PG Firm No. 50588 | Texas PE Firm No. F-21843



elevation at the groundwater well location is 3,453 feet above mean sea level (amsl), which is approximately 3 feet lower in elevation than the Site. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a dry wash, located approximately 9,695 feet north west 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 1 Closure Criteria (Closure Criteria) apply:

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

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

DELINEATION ACTIVITIES

On June 15, 2022, delineation activities were conducted to evaluate the release extent based on information provided on the Form C-141 and visual observations. Five potholes (PH01 through PH05) were advanced via backhoe to depth of 2 feet bgs to assess for the presence or absense of impacted soil. Delineation soil samples were collected from each of the potholes at depths of 0.5 feet bgs and 2 feet bgs. The delineation soil samples were field screened for volatile aromatic hydrocarbons utilizing a calibrated photoionization detector (PID) and chloride Hach® chloride QuanTab® test strips. Field screening results and observations for the potholes were logged on lithologic/soil sampling logs, which are included in Appendix B. The release extent and delineation soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included in Appendix C.

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

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for delineation soil samples from potholes PH01 through PH05 indicated benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria and reclamation requirement applied in the top 4 feet. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix D.



CLOSURE REQUEST

Site assessment activities were conducted at the Site to assess for the presence or absence of impacted soil resulting from the April 27, 2022 crude oil flare fire. Laboratory analytical results for the soil samples collected within and around the release extent, indicated benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria and provided lateral and vertical delineation to below the most stringent Table 1 Closure Criteria. XTO removed the surficial staining from the fire and based on the soil sample analytical results, no further remediation was required. The area will be reseeded with a BLM approved seed mixture. XTO respectfully requests closure for Incident Number NAPP2213148421.

If you have any questions or comments, please contact Ms. Ashley Ager at (970) 946-1093 or aager@ensolum.com.

ashley L. ager

Program Director

Ashley Ager

Sincerely, Ensolum, LLC

Hadlie Green Field Geologist

Garrett Green, XTO

Bureau of Land Management

Appendices:

CC:

Figure 1 Site Receptor Map

Figure 2 Delineation Soil Sample Locations
Table 1 Soil Sample Analytical Results
Appendix A Appendix B Lithologic Soil Sampling Logs

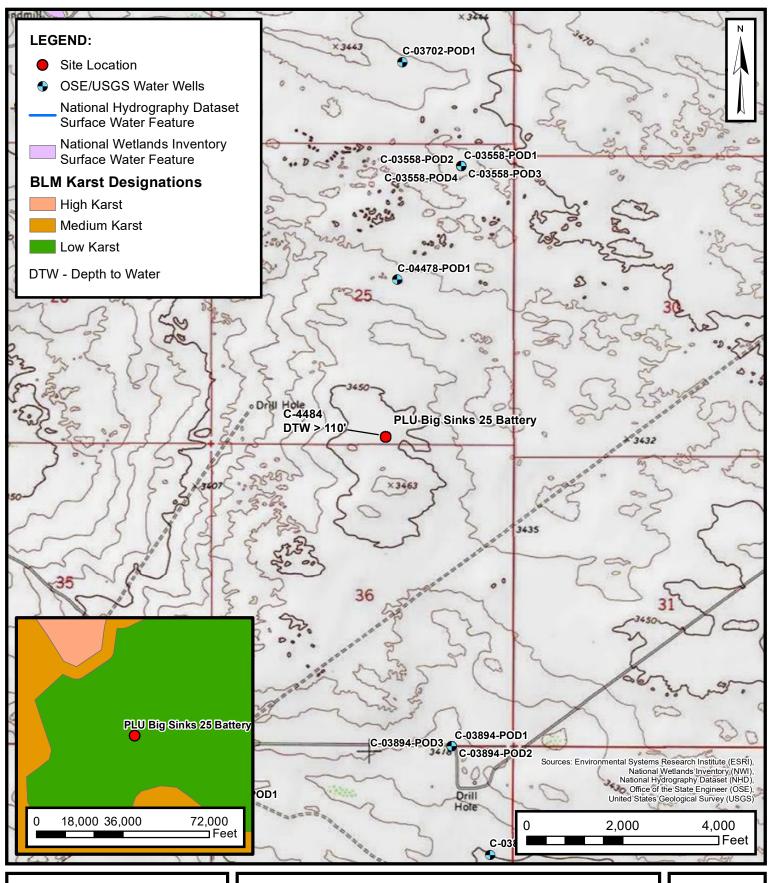
Appendix C Photographic Log

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

Appendix E NMOCD Notifications



FIGURES

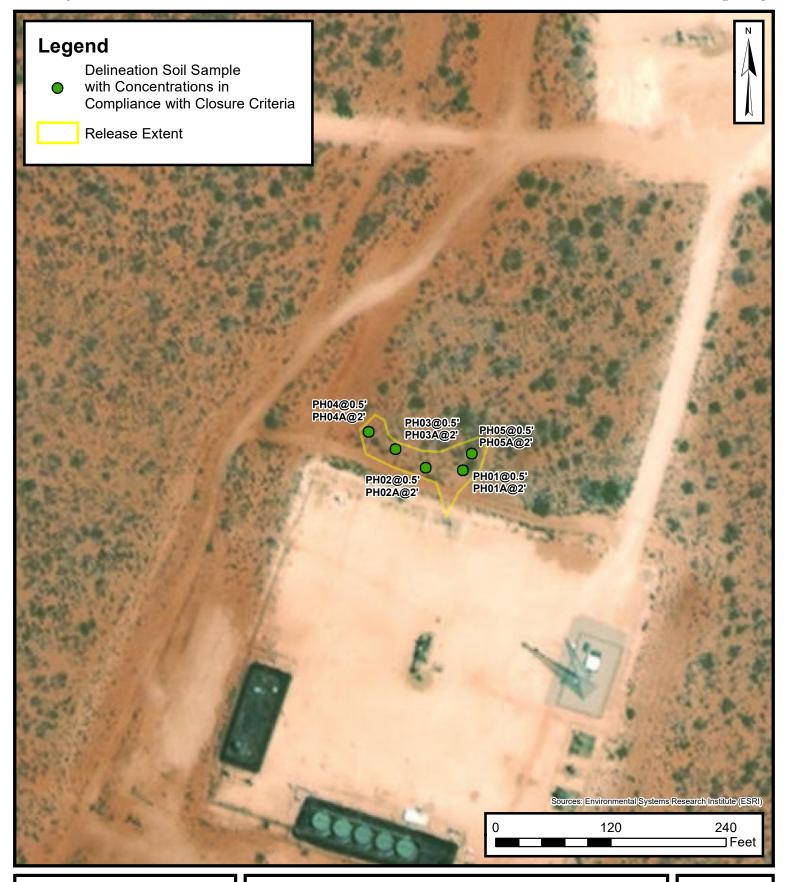




Site Location Map

PLU Big Sinks 25 Battery XTO Energy, Inc. NAPP2213148421 Unit O, Section 25, T24S, R30E Eddy County, NM FIGURE

1





Delineation Soil Sample Locations

PLU Big Sinks 25 Battery XTO Energy, Inc. NAPP2213148421 Unit O Sec 25 T24S R30E Eddy County, NM **FIGURE**

2



TABLES



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS PLU Big Sinks 25 Battery 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 C	losure Criteria (NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
				Del	ineation Soil San	nples				
PH01	06/15/2022	0.5	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	<4.95
PH01A	06/15/2022	2	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	<5.01
PH02	06/15/2022	0.5	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	<4.98
PH02A	06/15/2022	2	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	<4.99
PH03	06/15/2022	0.5	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	<4.97
PH03A	06/15/2022	2	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	<4.95
PH04	06/15/2022	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	6.08
PH04A	06/15/2022	2	< 0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	<4.95
PH05	06/15/2022	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	10.2
PH05A	06/15/2022	2	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	6.83

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

1 of 1



APPENDIX A

Referenced Well Records



2904 W 2nd St. Roswell, NM 88201 voice: 575.624.2420 fox: 575.624.2421 www.atkinseng.com

6/7/2022

DII-NMOSE 1900 W 2nd Street Roswell, NM 88201

Hand Delivered to the DII Office of the State Engineer

Re: Well Record C-4484 Pod1

To whom it may concern:

Attached please find a corrected well record to update the location and, in duplicate, for a one (1) soil borings, C-4484 Pod1.

If you have any questions, please contact me at 575.499.9244 or lucas@atkinseng.com.

Sincerely,

Lucas Middleton

Enclosures: as noted above

Gran Wholen

DSE DIT JUN 7 2022 PM3:24



7	OSE POD NO. (WELL NO.) POD 1 (BH-1) WELL TAG ID NO.							OSE FILE		3).				
ATIO	WELL OWNE	R NAME(•					PHONE		ONAL)				
OC/	XTO Energ	gy (Kyle	Littrell)											
WELL I	WELL OWNE 6401 Holid							CITY Midlan	d			STATE TX	79707	ZIP
1. GENERAL AND WELL LOCATION	WELL LOCATIO	N L	1 ATITUDE	DEGREES 32	MINUTES 10	SECOND: 59.14		ACCURACY REQUIRED: ONE TENTH OF A SECOND						
VER.	(FROM GP	S) L	ONGITUDE	103	49	56.41	W	* DATU	M REQ	UIRED: W	GS 84			
1. GE			ING WELL LOCATION TO TELES	O STREET ADD	RESS AND COMMO	N LANDMAR	KS – PLS	SS (SECTIO	N, TO	WNSHJIP, I	RANGE) WH	ERE AV	AILABLE	
	LICENSE NO		NAME OF LICENSE		Jackie D. Atkins	3					F WELL DRI Atkins Eng		COMPANY g Associates,	Inc.
	DRILLING ST		DRILLING ENDED 11/19/2020		OMPLETED WELL (Forary well materi			LE DEPTH 110	(FT)	DEPTH '	WATER FIRS	T ENCO	OUNTERED (FT)
z	COMPLETED WELL IS: ARTESIAN ORY HOLE SHALLOW (UNCONFINED) IN COMPLETED						WATER LE		/a	DATE STATIC 11/19/202				
VIIO	DRILLING FI	LUID:	AIR	MUD	ADDITI	VES – SPECIF	Y:							
)RM	DRILLING M	ETHOD:	ROTARY HAI	MMER CAE	BLE TOOL 📝 OTH	ier – Specif	Y: I	Iollow S	tem A	Auger	CHECK	HERE II LED	F PITLESS ADA	PTER IS
2. DRILLING & CASING INFORMATION	DEPTH FROM	(feet bgl) TO	BORE HOLE DIAM (inches)	(include	(include each casing string, and			ASING NECTION	CTION INSIDE DIAM. T		TH	ING WALL IICKNESS (inches)	SLOT SIZE (inches)	
CA	0	110	±8.5	Hote	note sections of screen) (add coup Boring-HSA				(er)			-) =)	
NG.	4													
SILL				1					=			-		
2. DI														
												-		2==
	-			+				_				-		
	DEPTH	(feet bgl)	BORE HOLE	L	IST ANNULAR S	EAL MATI	ERIAL A	AND		A	MOUNT	T	METHO	D OF
IAL	FROM	то	DIAM. (inches		AVEL PACK SIZE	E-RANGE B	Y INTE	ERVAL		(c	ubic feet)		PLACE	MENT
TER				4										
R MA				1						-		+		
IF.										يخ پند	ment to	16.0 72.0	MOO ENGLE	13
ANNULAR MATERIAL										u)	L Mark	NV I Z	WEET-1012	
ъ.												-		
	OGE STORES	NAT ***	P						370 0) WETT	DECORD	& T OC	(Marris- 01"	19/2022
	R OSE INTER E NO.	NAL US	E		POD N	0.			rn i		KEÇÜKD	ᄣᄔᄱᅜ	(Version 01/2	20/2022)
-	CATION							WELL T	AG II	O NO.			PAGE	1 OF 2

	DEPTH (eet bgl)		COLOR AN	D TYPE OF MATERIAL E	NCOLIN	TEREN -	337.4	TER	ESTIMATED
	FROM	то	THICKNESS (feet)	INCLUDE WATE	R-BEARING CAVITIES Oplemental sheets to fully do	R FRAC	TURE ZONES	BEAL	RING? /NO)	YIELD FOR WATER- BEARING ZONES (gpm)
	0	1	1	Sand, Fir	ne-grained, poorly graded, R	eddish-E	Brown	Y	✓ N	
	1	4	3	Sand, Fine-grai	ned, poorly-graded, with cal	iche, Red	ldish-Brown	Y	√ N	
	4	34	30	Calic	he, well consolidated, Off-w	hite, mo	ist	Y	√ N	
	34	91	57	Sandstone, Fine-graine	d, poorly-graded, poorly cor	solidate	d, Light Brown-Ta	ın Y	√N	
	91	110	19	Sandstone,Fine-graine	d, poorly-graded, moderately	consoli	dated, Light Brow	n Y	✓ N	
Į.								Y	N	
4. HYDROGEOLOGIC LOG OF WELL								Y	N	
OF								Y	N	
DO								Y	N	
CL								Y	N	
OG								Y	N	
EOI								Y	N	
ROG								Y	N	
2								Y	N	
4. E								Y	N	
								Y	N	
								Y	N	
								Y	N	
								Y	N	
						_		Y	N	
								Y	N	
	METHOD U			OF WATER-BEARING BAILER OT	G STRATA: THER – SPECIFY:			OTAL ESTI VELL YIELI		0.00
N.	WELL TES	TEST	RESULTS - ATT	ACH A COPY OF DAT	A COLLECTED DURING HOWING DISCHARGE AN	WELL 1 D DRA	TESTING, INCLU	DING DISC	CHARGE I	METHOD, OD.
TEST; RIG SUPERVISION	MISCELLA	NEOUS IN	FORMATION: _T	emporary well materia elow ground surface(b	al removed and soil boring gs), then hydrated benton	g backfi ite chip	illed using drill (is ten feet bgs to	cuttings fro surface.	m total d	epth to ten feet
	PRINT NAM	Æ(S) OF D	RILL RIG SUPE	RVISOR(S) THAT PRO	VIDED ONSITE SUPERVI	SION O	F WELL CONSTI	RUCTION C	THER TI	IAN LICENSEE:
wi	Shane Eldri	dge, Carm	elo Trevino, Car	meron Pruitt						
SIGNATURE	CORRECT	RECORD C	F THE ABOVE	DESCRIBED HOLE AN	EST OF HIS OR HER KNO ID THAT HE OR SHE WIL PLETION OF WELL DRIL	L FILE	GE AND BELIEF THIS WELL REC	, THE FOR	EGOING I I THE ST	IS A TRUE AND ATE ENGINEER
6. SIGNA	Jack A	tkins		Jac	ckie D. Atkins		058	EDIT JEA	/2022	ZPM3125
		SIGNAT	URE OF DRILLI	ER / PRINT SIGNEE	NAME				DATE	
EO	R OSE INTER	NAT TICE					WR-20 WELL	RECORD &	LOGIVA	rsion 01/28/2022)
	E NO.	MAL USE			POD NO.		TRN NO.		200 (10	- CIACIDOLES
LO	CATION					WELJ.	TAG ID NO.			PAGE 2 OF 2

c-4484-forsign

Final Audit Report 2022-06-07

Created: 2022-06-07

By: Lucas Middleton (lucas@atkinseng.com)

Status: Signed

Transaction ID: CBJCHBCAABAAGWi4A62UsJioBX1XhQkgqzRwZGIZTfQw

"c-4484-forsign" History

Document created by Lucas Middleton (lucas@atkinseng.com) 2022-06-07 - 8:20:38 PM GMT- IP address: 69.21.254.158

- Document emailed to Jack Atkins (jack@atkinseng.com) for signature 2022-06-07 8:21:32 PM GMT
- Email viewed by Jack Atkins (jack@atkinseng.com) 2022-06-07 8:40:23 PM GMT
- Document e-signed by Jack Atkins (jack@atkinseng.com)
 Signature Date: 2022-06-07 8:41:10 PM GMT Time Source: server
- Agreement completed. 2022-06-07 - 8:41:10 PM GMT

OSE DTI JUN 7'2022 PM3:25

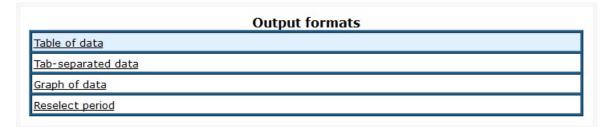
URGEV2/D096/61088903/034/024/5.30E.36.33333

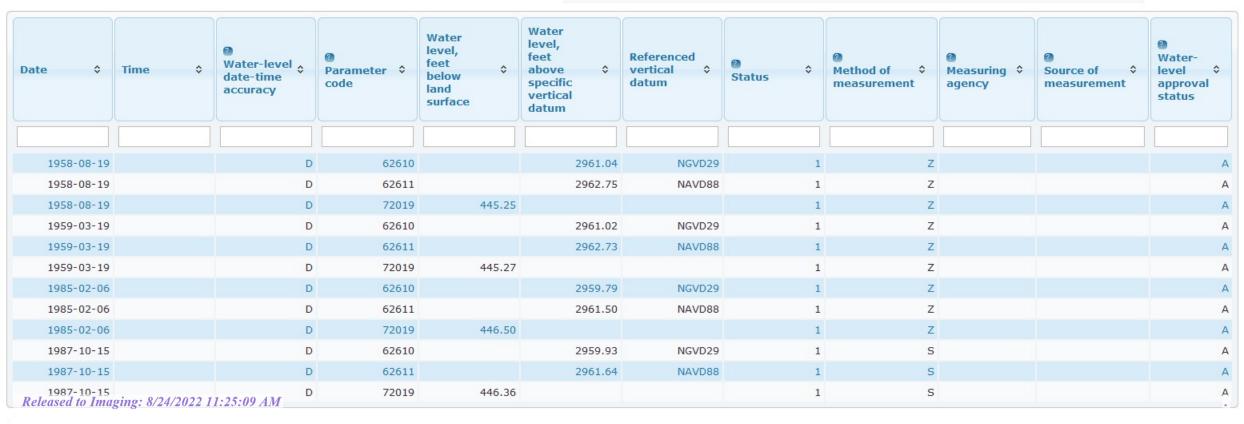
Eddy County, New Mexico Latitude 32°09'56", Longitude 103°50'30" NAD27 Land-surface elevation 3,408 feet above NAVD88 The depth of the well is 480 feet below land surface.

This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR)

national aquifer.

This well is completed in the Rustler Formation (312RSLR) local aquifer.

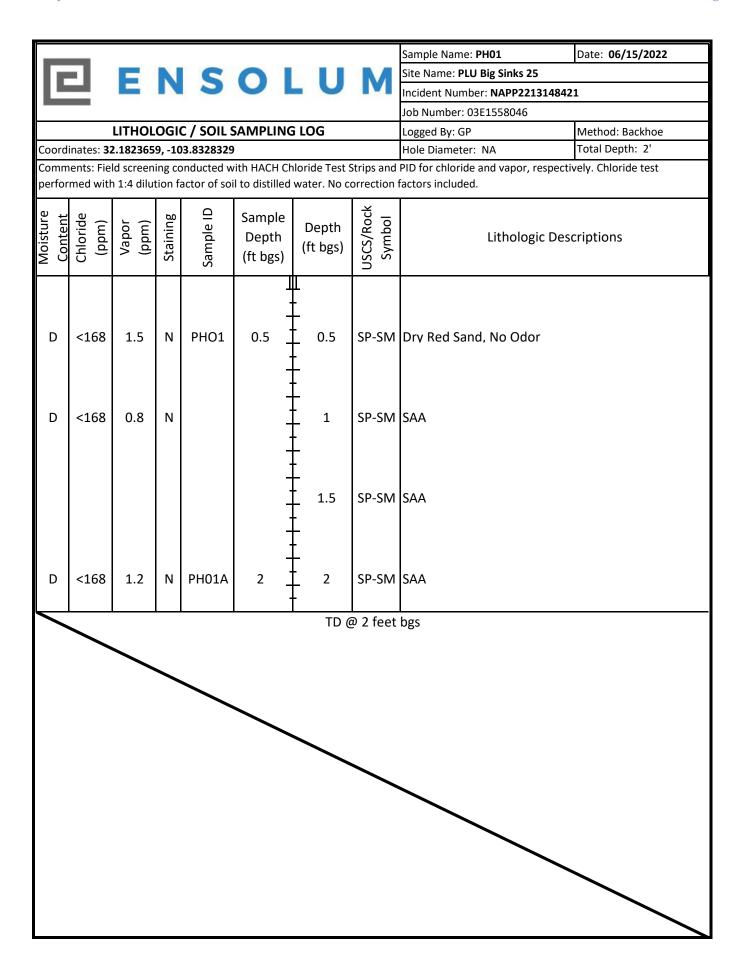


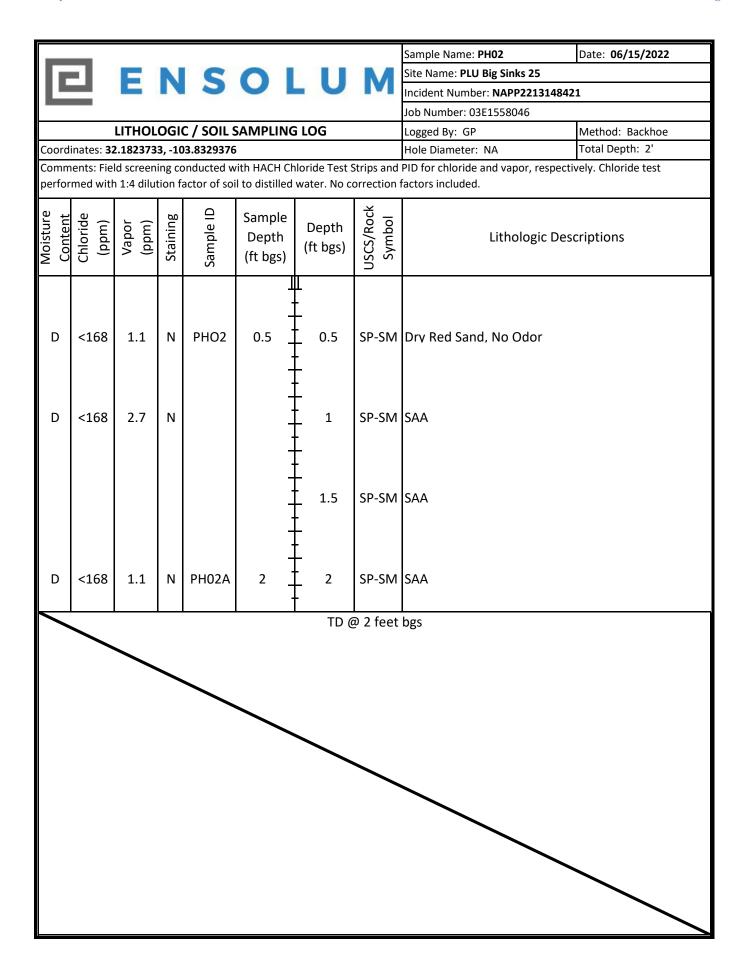


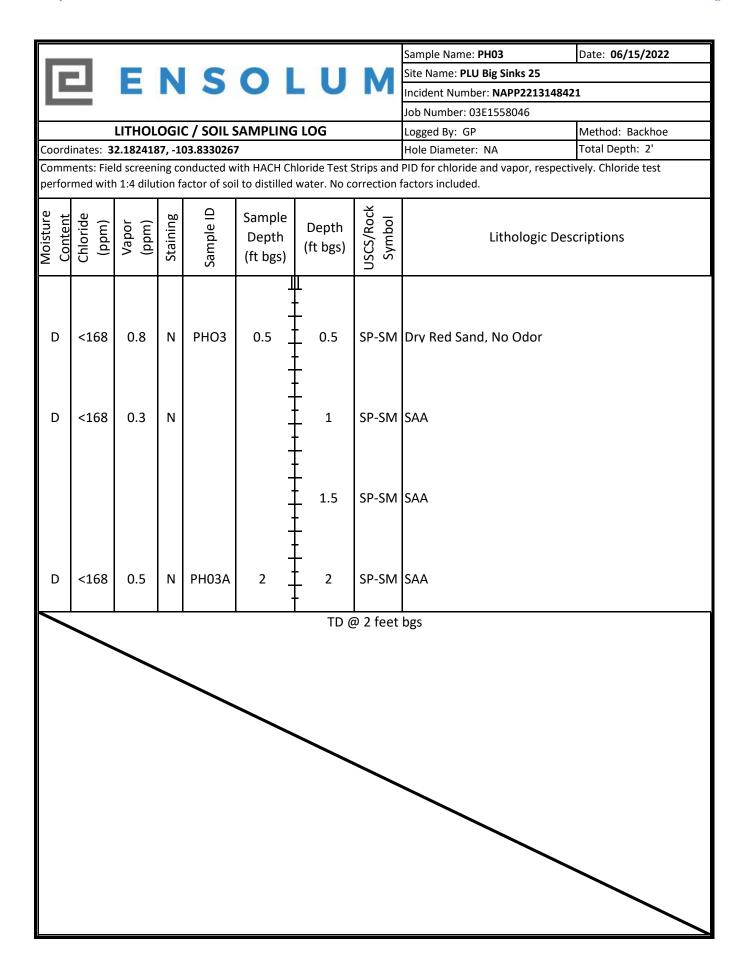


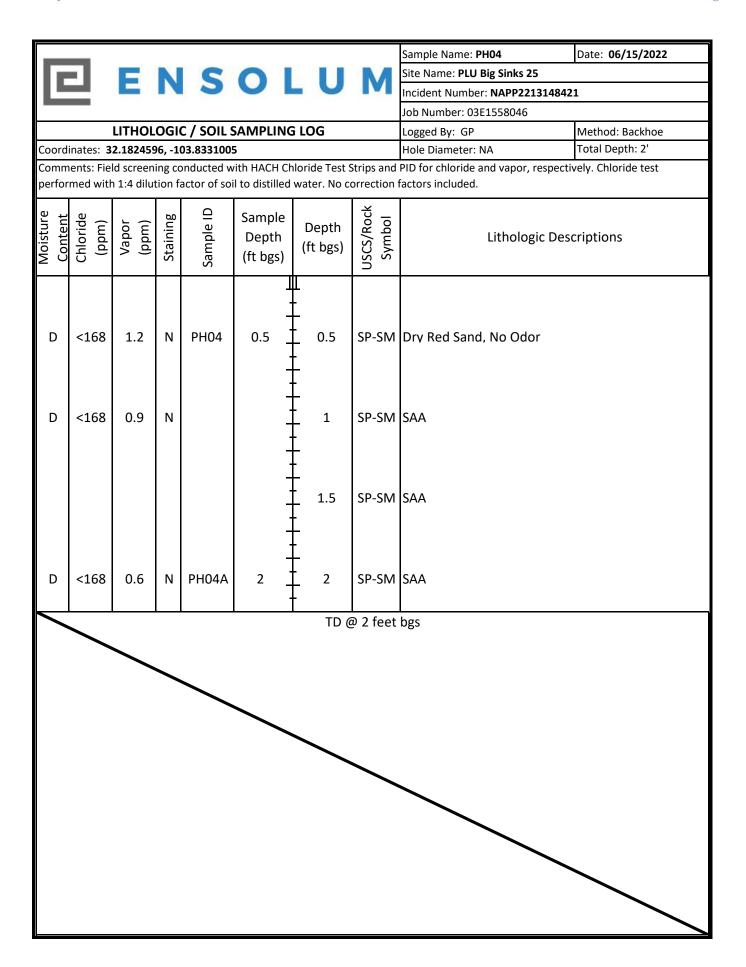
APPENDIX B

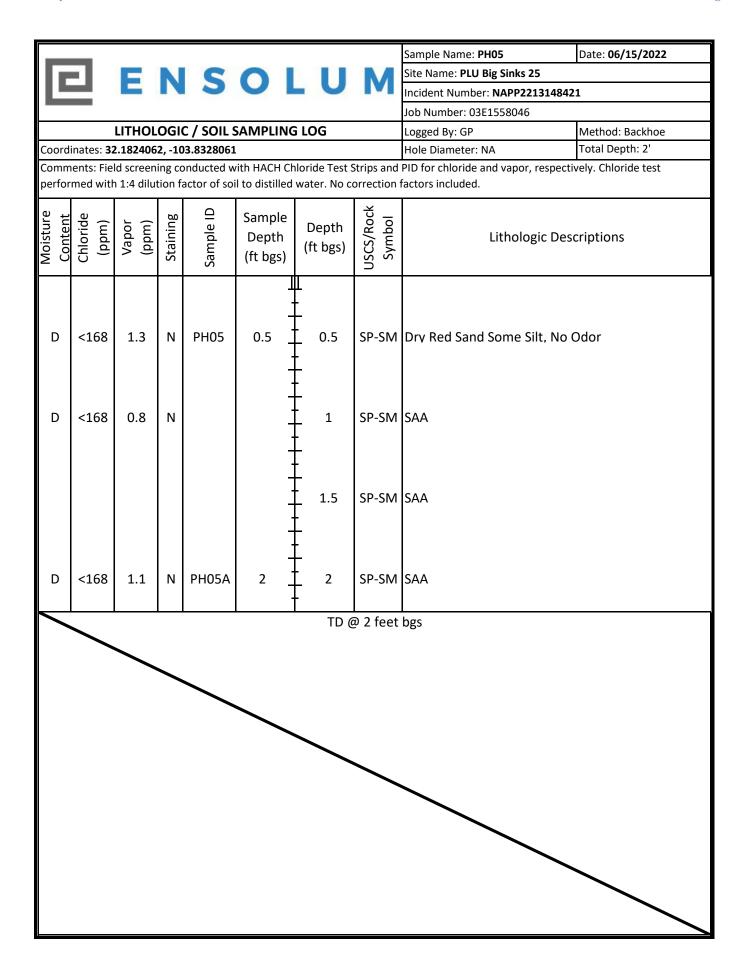
Lithologic Soil Sampling Logs













APPENDIX C

Photographic Log

ENSOLUM

Photographic Log

XTO Energy, Inc.
PLU Big Sinks 25 Battery
Incident Number NAPP2213148421





Photograph 1 Date: 4/28/2022

Description: View facing north of release extent taken during the initial site assessment.

Photograph 2 Date: 4/28/2022

Description: View facing south of release extent taken during the initial site assessment.



Photograph 3 Date: 6/15/2022

Description: View of release extent following surficial removal of the staining from the fire facing northeast.



Photograph 4 Date: 6/15/2022
Description: View of release extent following surficial removal of the staining from the fire facing northeast.



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation

America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2418-1

Laboratory Sample Delivery Group: 03E1558046

Client Project/Site: PLU BS 25

For:

eurofins 🔆

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Tacoma Morrissey

RAMER

6/23/2022 9:18:26 AM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

Authorized for release by:

Have a Question?

EOL

------ LINKS ------

Review your project results through

Visit us at:

www.eurofinsus.com/Env Released to Imaging: 8/24/2022 11:25:09 AM 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: PLU BS 25
Laboratory Job ID: 890-2418-1
SDG: 03E1558046

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Definitions/Glossary

 Client: Ensolum
 Job ID: 890-2418-1

 Project/Site: PLU BS 25
 SDG: 03E1558046

1558046

Qualifiers

GC VOA

 Qualifier
 Qualifier Description

 F1
 MS and/or MSD recovery exceeds control limits.

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

 Qualifier
 Qualifier Description

 *1
 LCS/LCSD RPD exceeds control limits.

F1 MS and/or MSD recovery exceeds control limits.

U Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier Qualifier Description

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

Glossary

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

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

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

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

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

NC Not Calculated

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

NEG Negative / Absent
POS Positive / Present
PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

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Case Narrative

Client: Ensolum
Project/Site: PLU BS 25

Job ID: 890-2418-1 SDG: 03E1558046

Job ID: 890-2418-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2418-1

Receipt

The samples were received on 6/15/2022 2:34 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 20.2°C

GC VOA

Method 8021B: Spike compounds were inadvertently omitted during the extraction process for the matrix spike duplicate (MS/MSD); therefore, matrix spike duplicate recoveries are unavailable for preparation batch 880-27819 and analytical batch 880-27741. The associated laboratory control sample (LCS) met acceptance criteria.

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

GC Semi VOA

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-27745 and analytical batch 880-27737 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-27745 and analytical batch 880-27737 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 880-27807 and analytical batch 880-28016 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.

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 Client: Ensolum
 Job ID: 890-2418-1

 Project/Site: PLU BS 25
 SDG: 03E1558046

Client Sample ID: PH01 Lab Sample ID: 890-2418-1

Date Collected: 06/15/22 09:45

Date Received: 06/15/22 14:34

Matrix: Solid

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		06/17/22 13:00	06/18/22 07:24	1
Toluene	<0.00202	U	0.00202	mg/Kg		06/17/22 13:00	06/18/22 07:24	•
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		06/17/22 13:00	06/18/22 07:24	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		06/17/22 13:00	06/18/22 07:24	
o-Xylene	<0.00202	U	0.00202	mg/Kg		06/17/22 13:00	06/18/22 07:24	,
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		06/17/22 13:00	06/18/22 07:24	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	107		70 - 130			06/17/22 13:00	06/18/22 07:24	
1,4-Difluorobenzene (Surr)	92		70 - 130			06/17/22 13:00	06/18/22 07:24	
Method: Total BTEX - Total BTE	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00404	U	0.00404	mg/Kg			06/20/22 14:56	-
Analyte	Result	Qualifier	RL	Unit	D	Prepared		
							Anaivzed	Dil Fa
Total TPH	<49.9	U	49.9	mg/Kg			Analyzed 06/20/22 12:00	
- -						- riepaieu		
- -							06/20/22 12:00	
Method: 8015B NM - Diesel Ran Analyte	ge Organics (D	RO) (GC) Qualifier	49.9	mg/Kg	<u></u>	Prepared		
- -	ge Organics (D	RO) (GC) Qualifier	49.9	mg/Kg			06/20/22 12:00	Dil Fac
Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (D	RO) (GC) Qualifier U *1	49.9	mg/Kg		Prepared	06/20/22 12:00 Analyzed	Dil Fac
Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10	ge Organics (D Result <49.9	RO) (GC) Qualifier U*1	49.9 RL 49.9	mg/Kg Unit mg/Kg		Prepared 06/17/22 08:09	06/20/22 12:00 Analyzed 06/17/22 17:50	Dil Fac
Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (D Result <49.9	RO) (GC) Qualifier U *1 U	49.9 RL 49.9 49.9	mg/Kg Unit mg/Kg		Prepared 06/17/22 08:09	06/20/22 12:00 Analyzed 06/17/22 17:50 06/17/22 17:50	Dil Fac
Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	ge Organics (D Result <49.9 <49.9	RO) (GC) Qualifier U *1 U	49.9 RL 49.9 49.9 49.9	mg/Kg Unit mg/Kg		Prepared 06/17/22 08:09 06/17/22 08:09	Analyzed 06/17/22 17:50 06/17/22 17:50	Dil Fac
Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	ge Organics (D Result <49.9 <49.9 <49.9 %Recovery	RO) (GC) Qualifier U *1 U	49.9 RL 49.9 49.9 49.9 Limits	mg/Kg Unit mg/Kg		Prepared 06/17/22 08:09 06/17/22 08:09 06/17/22 08:09 Prepared	Analyzed 06/17/22 17:50 06/17/22 17:50 06/17/22 17:50 Analyzed	Dil Fac
Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	ge Organics (D Result <49.9 <49.9 <49.9 **Recovery 97 98	RO) (GC) Qualifier U*1 U Qualifier	49.9 RL 49.9 49.9 49.9 Limits 70 - 130	mg/Kg Unit mg/Kg		Prepared 06/17/22 08:09 06/17/22 08:09 06/17/22 08:09 Prepared 06/17/22 08:09	Analyzed 06/17/22 17:50 06/17/22 17:50 06/17/22 17:50 Analyzed 06/17/22 17:50	Dil Fac
Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	ge Organics (D Result <49.9 <49.9 <49.9 **Recovery 97 98 **romatography -	RO) (GC) Qualifier U*1 U Qualifier	49.9 RL 49.9 49.9 49.9 Limits 70 - 130	mg/Kg Unit mg/Kg		Prepared 06/17/22 08:09 06/17/22 08:09 06/17/22 08:09 Prepared 06/17/22 08:09	Analyzed 06/17/22 17:50 06/17/22 17:50 06/17/22 17:50 Analyzed 06/17/22 17:50	Dil Fac

Client Sample ID: PH01

Date Collected: 06/15/22 09:45

Lab Sample ID: 890-2418-2

Matrix: Solid

Date Collected: 06/15/22 09:45 Date Received: 06/15/22 14:34

Sample Depth: 2'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/17/22 13:00	06/18/22 07:51	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/17/22 13:00	06/18/22 07:51	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/17/22 13:00	06/18/22 07:51	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		06/17/22 13:00	06/18/22 07:51	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/17/22 13:00	06/18/22 07:51	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		06/17/22 13:00	06/18/22 07:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			06/17/22 13:00	06/18/22 07:51	1

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Matrix: Solid

 Client: Ensolum
 Job ID: 890-2418-1

 Project/Site: PLU BS 25
 SDG: 03E1558046

Client Sample ID: PH01 Lab Sample ID: 890-2418-2

Date Collected: 06/15/22 09:45
Date Received: 06/15/22 14:34

Sample Depth: 2'

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

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1.4-Difluorobenzene (Surr)	102	70 - 130	06/17/22 13:00	06/18/22 07:51	1

Method: Total	BTEX - Total	BTEX Calculation	าท

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00399	U	0.00399	mg/Kg			06/20/22 14:56	1

ш				
ш	Method: 8015 NI	A - Diocol Pane	no Organice	(DPO) (CC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			06/20/22 12:00	1

Mothod: 901ED	NM Diocol	Pango Ore	aniec /	DBO	CC
Method: 8015B	MINI - DIESEI	Range Org	janics (DRO	(GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U *1	50.0	mg/Kg		06/17/22 08:09	06/17/22 18:11	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		06/17/22 08:09	06/17/22 18:11	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/17/22 08:09	06/17/22 18:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	∕∞Recovery	Qualifier	LIIIIII	•	rrepareu	Allalyzeu	DII Fac
1-Chlorooctane	87		70 - 130	06/	/17/22 08:09	06/17/22 18:11	1
o-Terphenyl	90		70 - 130	06/	/17/22 08:09	06/17/22 18:11	1
_							

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.01	U	5.01	mg/Kg			06/22/22 20:31	1

Client Sample ID: PH02

Date Collected: 06/15/22 10:00

Lab Sample ID: 890-2418-3

Matrix: Solid

Date Collected: 06/15/22 10:00 Date Received: 06/15/22 14:34

Sample Depth: 0.5'

Method: 8021B -	. Volatila	Organic (Compounds	(GC)
Methou, ouz ib :	· voiatile	Oruanic C	JUHUUUHIUS	100

Michiga. 002 1D - Volatile Orga	inc compounds	(30)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/17/22 13:00	06/18/22 08:18	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/17/22 13:00	06/18/22 08:18	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/17/22 13:00	06/18/22 08:18	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/17/22 13:00	06/18/22 08:18	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/17/22 13:00	06/18/22 08:18	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/17/22 13:00	06/18/22 08:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130			06/17/22 13:00	06/18/22 08:18	1
1,4-Difluorobenzene (Surr)	100		70 - 130			06/17/22 13:00	06/18/22 08:18	1

Mothod:	Total RT	EY - Tota	I DTEY	Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00400	U	0.00400	ma/Ka			06/20/22 14:56	1

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U	49.9	mg/Kg			06/20/22 12:00	1

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Matrix: Solid

Lab Sample ID: 890-2418-3

Client: Ensolum Job ID: 890-2418-1 Project/Site: PLU BS 25 SDG: 03E1558046

Client Sample ID: PH02

Date Collected: 06/15/22 10:00 Date Received: 06/15/22 14:34

Sample Depth: 0.5'

Method: 8015B NM - Diesel Rang	je Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U *1	49.9	mg/Kg		06/17/22 08:09	06/17/22 19:15	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		06/17/22 08:09	06/17/22 19:15	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/17/22 08:09	06/17/22 19:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130			06/17/22 08:09	06/17/22 19:15	1
o-Terphenyl	88		70 - 130			06/17/22 08:09	06/17/22 19:15	1
- Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.98	U	4.98	mg/Kg			06/22/22 20:40	1

Client Sample ID: PH02 Lab Sample ID: 890-2418-4 Matrix: Solid

Date Collected: 06/15/22 10:00 Date Received: 06/15/22 14:34

Sample Depth: 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		06/17/22 13:00	06/18/22 08:52	1
Toluene	<0.00201	U	0.00201	mg/Kg		06/17/22 13:00	06/18/22 08:52	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		06/17/22 13:00	06/18/22 08:52	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		06/17/22 13:00	06/18/22 08:52	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		06/17/22 13:00	06/18/22 08:52	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		06/17/22 13:00	06/18/22 08:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130			06/17/22 13:00	06/18/22 08:52	1
1,4-Difluorobenzene (Surr)	91		70 - 130			06/17/22 13:00	06/18/22 08:52	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			06/20/22 14:56	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			06/20/22 12:00	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	<50.0	U *1	50.0	mg/Kg		06/17/22 08:09	06/17/22 19:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/17/22 08:09	06/17/22 19:37	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/17/22 08:09	06/17/22 19:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130			06/17/22 08:09	06/17/22 19:37	1
o-Terphenyl	91		70 - 130			06/17/22 08:09	06/17/22 19:37	1

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6/23/2022

Job ID: 890-2418-1

Client: Ensolum Project/Site: PLU BS 25 SDG: 03E1558046

Client Sample ID: PH02 Lab Sample ID: 890-2418-4 Date Collected: 06/15/22 10:00

Matrix: Solid

Date Received: 06/15/22 14:34 Sample Depth: 2

Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	<4.99	U	4.99	mg/Kg			06/22/22 20:49	1	

Client Sample ID: PH03 Lab Sample ID: 890-2418-5

Date Collected: 06/15/22 10:15 Matrix: Solid

Date Received: 06/15/22 14:34

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		06/17/22 13:00	06/18/22 09:18	1
Toluene	<0.00202	U	0.00202	mg/Kg		06/17/22 13:00	06/18/22 09:18	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		06/17/22 13:00	06/18/22 09:18	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		06/17/22 13:00	06/18/22 09:18	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		06/17/22 13:00	06/18/22 09:18	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		06/17/22 13:00	06/18/22 09:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130			06/17/22 13:00	06/18/22 09:18	1
1,4-Difluorobenzene (Surr)	102		70 - 130			06/17/22 13:00	06/18/22 09:18	1
Method: Total BTEX - Total BTEX	(Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			06/20/22 14:56	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			06/20/22 12:00	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0	mg/Kg		06/17/22 08:09	06/17/22 19:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/17/22 08:09	06/17/22 19:58	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/17/22 08:09	06/17/22 19:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130			06/17/22 08:09	06/17/22 19:58	1
o-Terphenyl	88		70 - 130			06/17/22 08:09	06/17/22 19:58	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.97	U	4.97	mg/Kg	_		06/22/22 20:58	1

Matrix: Solid

Lab Sample ID: 890-2418-6

Client Sample Results

 Client: Ensolum
 Job ID: 890-2418-1

 Project/Site: PLU BS 25
 SDG: 03E1558046

Client Sample ID: PH03

Date Collected: 06/15/22 10:15 Date Received: 06/15/22 14:34

Sample Depth: 2'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		06/17/22 13:00	06/18/22 09:45	
Toluene	<0.00202	U	0.00202	mg/Kg		06/17/22 13:00	06/18/22 09:45	
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		06/17/22 13:00	06/18/22 09:45	•
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		06/17/22 13:00	06/18/22 09:45	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		06/17/22 13:00	06/18/22 09:45	
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		06/17/22 13:00	06/18/22 09:45	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	115		70 - 130			06/17/22 13:00	06/18/22 09:45	
1,4-Difluorobenzene (Surr)	100		70 - 130			06/17/22 13:00	06/18/22 09:45	
Method: Total BTEX - Total BTEX	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00403	U	0.00403	mg/Kg			06/20/22 14:56	
Analyte Total TPH	<50.0	Qualifier U		——— Unit mg/Kg	D	Prepared	Analyzed 06/20/22 12:00	Dil Fa
Total TPH	<50.0	U	50.0	mg/Kg			06/20/22 12:00	•
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Amalusa	9 9 (/(/						
Analyte	• •	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	Result	Qualifier		Unit mg/Kg	<u>D</u>	Prepared 06/17/22 08:09	Analyzed 06/17/22 20:20	
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U *1			<u>D</u>			
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0 <50.0	Qualifier U *1	50.0	mg/Kg	<u>D</u>	06/17/22 08:09 06/17/22 08:09	06/17/22 20:20 06/17/22 20:20	
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result < 50.0	Qualifier U *1	50.0	mg/Kg	<u>D</u>	06/17/22 08:09	06/17/22 20:20	
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0 <50.0 <50.0 <50.0 <60.0 %Recovery	Qualifier U *1 U	50.0 50.0 50.0 <i>Limits</i>	mg/Kg	<u>D</u>	06/17/22 08:09 06/17/22 08:09 06/17/22 08:09 Prepared	06/17/22 20:20 06/17/22 20:20	
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0 <50.0 <50.0	Qualifier U *1 U	50.0 50.0 50.0	mg/Kg	<u> </u>	06/17/22 08:09 06/17/22 08:09 06/17/22 08:09	06/17/22 20:20 06/17/22 20:20 06/17/22 20:20	Dil Fa
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <50.0 <50.0 <50.0 <50.0 <60.0 %Recovery	Qualifier U *1 U	50.0 50.0 50.0 <i>Limits</i>	mg/Kg	<u>D</u>	06/17/22 08:09 06/17/22 08:09 06/17/22 08:09 Prepared	06/17/22 20:20 06/17/22 20:20 06/17/22 20:20 Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U*1 U Qualifier Soluble	50.0 50.0 50.0 Limits 70 - 130	mg/Kg	<u> </u>	06/17/22 08:09 06/17/22 08:09 06/17/22 08:09 Prepared 06/17/22 08:09	06/17/22 20:20 06/17/22 20:20 06/17/22 20:20 Analyzed 06/17/22 20:20	Dil Fa
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*1 U Qualifier Soluble Qualifier	50.0 50.0 50.0 Limits 70 - 130	mg/Kg	<u>D</u>	06/17/22 08:09 06/17/22 08:09 06/17/22 08:09 Prepared 06/17/22 08:09	06/17/22 20:20 06/17/22 20:20 06/17/22 20:20 Analyzed 06/17/22 20:20	Dil Fac

Client Sample ID: PH04

Date Collected: 06/15/22 10:30 Date Received: 06/15/22 14:34

Date Received. 00/10/

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/17/22 13:00	06/18/22 10:10	
Toluene	<0.00200	U	0.00200	mg/Kg		06/17/22 13:00	06/18/22 10:10	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/17/22 13:00	06/18/22 10:10	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		06/17/22 13:00	06/18/22 10:10	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/17/22 13:00	06/18/22 10:10	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		06/17/22 13:00	06/18/22 10:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130			06/17/22 13:00	06/18/22 10:10	

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Lab Sample ID: 890-2418-7

Matrix: Solid

A

J

8

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12

13

Client: Ensolum Job ID: 890-2418-1 SDG: 03E1558046 Project/Site: PLU BS 25

Client Sample ID: PH04 Lab Sample ID: 890-2418-7

Date Collected: 06/15/22 10:30 **Matrix: Solid** Date Received: 06/15/22 14:34

Sample Depth: 0.5'

Method: 8021B - Volatile Organ	ic Compounds	(GC) (Conti	nued)					
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	101		70 - 130			06/17/22 13:00	06/18/22 10:10	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			06/20/22 14:56	1

Method: 8015 NM - Diesel Range O	Organics (DRO) (GC)						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U	49.9	mg/Kg			06/20/22 12:00	1

mg/Kg

Unit

mg/Kg

Prepared

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	mg/Kg		06/17/22 08:09	06/17/22 20:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		06/17/22 08:09	06/17/22 20:41	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/17/22 08:09	06/17/22 20:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130			06/17/22 08:09	06/17/22 20:41	1

o-Terphenyl	91	70 - 130		(06/17/22 08:09	06/17/22 20:41	1	
Method: 300.0 - Anions, Ion Chromatogra	aphy - Soluble							
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	

Lab Sample ID: 890-2418-8 **Client Sample ID: PH04 Matrix: Solid**

4.98

6.08 F1

Result Qualifier

<50.0 U

Date Collected: 06/15/22 10:30 Date Received: 06/15/22 14:34

Sample Depth: 2'

Chloride

Analyte

Total TPH

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		06/17/22 13:00	06/18/22 10:36	1
Toluene	<0.00199	U	0.00199	mg/Kg		06/17/22 13:00	06/18/22 10:36	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		06/17/22 13:00	06/18/22 10:36	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		06/17/22 13:00	06/18/22 10:36	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		06/17/22 13:00	06/18/22 10:36	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		06/17/22 13:00	06/18/22 10:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130			06/17/22 13:00	06/18/22 10:36	1
1,4-Difluorobenzene (Surr)	101		70 - 130			06/17/22 13:00	06/18/22 10:36	1
Method: Total BTEX - Total B1	EX Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			06/20/22 14:56	1

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Analyzed

06/20/22 12:00

06/21/22 07:06

RL

50.0

Dil Fac

Client: Ensolum Job ID: 890-2418-1 Project/Site: PLU BS 25 SDG: 03E1558046

Client Sample ID: PH04

Lab Sample ID: 890-2418-8 Date Collected: 06/15/22 10:30 Matrix: Solid

Date Received: 06/15/22 14:34

Sample Depth: 2'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U *1	50.0	mg/Kg		06/17/22 08:09	06/17/22 21:02	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		06/17/22 08:09	06/17/22 21:02	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/17/22 08:09	06/17/22 21:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130			06/17/22 08:09	06/17/22 21:02	1
o-Terphenyl	92		70 - 130			06/17/22 08:09	06/17/22 21:02	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	<4.95		4.95	mg/Kg		$\overline{}$	06/21/22 07:29	

Client Sample ID: PH05 Lab Sample ID: 890-2418-9 Matrix: Solid

Date Collected: 06/15/22 12:10

Date Received: 06/15/22 14:34

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		06/17/22 13:00	06/18/22 11:02	
Toluene	<0.00198	U	0.00198	mg/Kg		06/17/22 13:00	06/18/22 11:02	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		06/17/22 13:00	06/18/22 11:02	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		06/17/22 13:00	06/18/22 11:02	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		06/17/22 13:00	06/18/22 11:02	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		06/17/22 13:00	06/18/22 11:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130			06/17/22 13:00	06/18/22 11:02	1
1,4-Difluorobenzene (Surr)	100		70 - 130			06/17/22 13:00	06/18/22 11:02	1
Method: Total BTEX - Total BTEX	(Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			06/20/22 14:56	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	Pocult	O						
· ····· , · ·	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	- Kesult <49.9		49.9	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 06/20/22 12:00	Dil Fac
Total TPH	<49.9	U			<u>D</u>	Prepared		
Total TPH Method: 8015B NM - Diesel Rang	<49.9 ge Organics (D	U			<u>D</u> 	Prepared Prepared		
	<49.9 ge Organics (D	RO) (GC) Qualifier	49.9	mg/Kg			06/20/22 12:00	1
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<49.9 ge Organics (D Result	RO) (GC) Qualifier U *1	49.9	mg/Kg		Prepared	06/20/22 12:00 Analyzed	1 Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	<pre><quad></quad></pre> quad quad quad <	RO) (GC) Qualifier U*1	49.9 RL 49.9	mg/Kg Unit mg/Kg		Prepared 06/17/22 08:09	06/20/22 12:00 Analyzed 06/17/22 21:23	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)	<49.9 ge Organics (D) Result <49.9 <49.9	U RO) (GC) Qualifier U*1 U	49.9 RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 06/17/22 08:09 06/17/22 08:09	06/20/22 12:00 Analyzed 06/17/22 21:23	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.9 ge Organics (D) Result <49.9 <49.9 <49.9	U RO) (GC) Qualifier U*1 U	49.9 RL 49.9 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 06/17/22 08:09 06/17/22 08:09	06/20/22 12:00 Analyzed 06/17/22 21:23 06/17/22 21:23	1 Dil Fac

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6/23/2022

Job ID: 890-2418-1

Matrix: Solid

Lab Sample ID: 890-2418-9

Client: Ensolum Project/Site: PLU BS 25 SDG: 03E1558046

Client Sample ID: PH05

Date Collected: 06/15/22 12:10 Date Received: 06/15/22 14:34

Sample Depth: 0.5'

Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result (Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	6.83		5.05	mg/Kg			06/21/22 07:37	1	

Client Sample ID: PH05 Lab Sample ID: 890-2418-10 Matrix: Solid

Date Collected: 06/15/22 12:10 Date Received: 06/15/22 14:34

Sample Depth: 2'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199	mg/Kg		06/17/22 13:00	06/18/22 11:28	
Toluene	< 0.00199	U	0.00199	mg/Kg		06/17/22 13:00	06/18/22 11:28	
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		06/17/22 13:00	06/18/22 11:28	
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		06/17/22 13:00	06/18/22 11:28	
o-Xylene	< 0.00199	U	0.00199	mg/Kg		06/17/22 13:00	06/18/22 11:28	
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		06/17/22 13:00	06/18/22 11:28	•
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	118		70 - 130			06/17/22 13:00	06/18/22 11:28	
1,4-Difluorobenzene (Surr)	102		70 - 130			06/17/22 13:00	06/18/22 11:28	1
Method: Total BTEX - Total BTEX	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00398	U	0.00398	mg/Kg			06/20/22 14:56	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			06/20/22 12:00	,
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0	mg/Kg		06/17/22 08:09	06/17/22 21:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/17/22 08:09	06/17/22 21:45	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/17/22 08:09	06/17/22 21:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	83		70 - 130			06/17/22 08:09	06/17/22 21:45	1
o-Terphenyl	88		70 - 130			06/17/22 08:09	06/17/22 21:45	
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Surrogate Summary

 Client: Ensolum
 Job ID: 890-2418-1

 Project/Site: PLU BS 25
 SDG: 03E1558046

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)	
880-16013-A-1-A MS	Matrix Spike	107	104	
880-16013-A-1-B MSD	Matrix Spike Duplicate	84	92	
890-2418-1	PH01	107	92	
390-2418-2	PH01	119	102	
890-2418-3	PH02	120	100	
890-2418-4	PH02	120	91	
890-2418-5	PH03	115	102	
890-2418-6	PH03	115	100	
890-2418-7	PH04	122	101	
890-2418-8	PH04	125	101	
890-2418-9	PH05	114	100	
890-2418-10	PH05	118	102	
LCS 880-27819/1-A	Lab Control Sample	113	97	
LCSD 880-27819/2-A	Lab Control Sample Dup	118	106	
MB 880-27628/5-A	Method Blank	84	92	
MB 880-27819/5-A	Method Blank	86	89	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-16002-A-5-B MS	Matrix Spike	82	81	
880-16002-A-5-C MSD	Matrix Spike Duplicate	92	88	
890-2418-1	PH01	97	98	
890-2418-2	PH01	87	90	
890-2418-3	PH02	84	88	
890-2418-4	PH02	86	91	
890-2418-5	PH03	85	88	
890-2418-6	PH03	90	93	
890-2418-7	PH04	89	91	
890-2418-8	PH04	87	92	
890-2418-9	PH05	85	90	
890-2418-10	PH05	83	88	
LCS 880-27745/2-A	Lab Control Sample	90	93	
LCSD 880-27745/3-A	Lab Control Sample Dup	110	116	
MB 880-27745/1-A	Method Blank	95	107	
Surrogate Legend				
1CO = 1-Chlorooctane				
OTPH = o-Terphenyl				

Job ID: 890-2418-1 Client: Ensolum Project/Site: PLU BS 25 SDG: 03E1558046

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-27628/5-A

Matrix: Solid

Analysis Batch: 27741

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 27628

1

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/15/22 16:00	06/17/22 11:44	•
Toluene	<0.00200	U	0.00200	mg/Kg		06/15/22 16:00	06/17/22 11:44	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/15/22 16:00	06/17/22 11:44	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/15/22 16:00	06/17/22 11:44	
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/15/22 16:00	06/17/22 11:44	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/15/22 16:00	06/17/22 11:44	

MB MB

MR MR

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	84	70 - 130
1 4-Difluorobenzene (Surr)	92	70 - 130

Prepared Analyzed Dil Fac 06/15/22 16:00 06/17/22 11:44 06/15/22 16:00 06/17/22 11:44

Lab Sample ID: MB 880-27819/5-A

Matrix: Solid

Xylenes, Total

Matrix: Solid

Analysis Batch: 27741

Analysis Batch: 27741

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

06/18/22 01:15

Prep Batch: 27819

Dil Fac

Analyte Result Qualifier RL Unit Prepared Analyzed Benzene <0.000400 U 0.000400 mg/Kg 06/17/22 13:00 06/18/22 01:15 Toluene <0.000400 U 0.000400 mg/Kg 06/17/22 13:00 06/18/22 01:15 Ethylbenzene <0.000400 U 0.000400 06/17/22 13:00 06/18/22 01:15 mg/Kg 0.000800 m-Xylene & p-Xylene <0.000800 U mg/Kg 06/17/22 13:00 06/18/22 01:15 o-Xylene <0.000400 U 0.000400 mg/Kg 06/17/22 13:00 06/18/22 01:15

0.000800

mg/Kg

MB MB

<0.000800 U

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	86		70 - 130
1.4-Difluorobenzene (Surr)	89		70 - 130

Prepared Dil Fac Analyzed 06/17/22 13:00 06/18/22 01:15 06/17/22 13:00 06/18/22 01:15

06/17/22 13:00

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 27819

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.08916 mg/Kg 89 70 - 130 Toluene 0.100 0.09342 mg/Kg 93 70 - 130 Ethylbenzene 0.100 0.09775 mg/Kg 98 70 - 130 m-Xylene & p-Xylene 0.200 0.1941 mg/Kg 97 70 - 130 70 - 130 0.100 0.09740 o-Xylene mg/Kg 97

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	113	70 - 130
1.4-Difluorobenzene (Surr)	97	70 - 130

Lab Sample ID: LCSD 880-27819/2-A

Lab Sample ID: LCS 880-27819/1-A

Matrix: Solid

Analysis Batch: 27741

Client Sample ID: Lab	Control Sample Dup
	Dunn Times Tetal/NIA

Prep Type: Total/NA

Prep Batch: 27819

	Spike	LCSD LCSD				%Rec		RPD
Analyte	Added	Result Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09709	mg/Kg		97	70 - 130	9	35

QC Sample Results

Client: Ensolum Job ID: 890-2418-1 Project/Site: PLU BS 25 SDG: 03E1558046

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

Lab Sample ID: LCSD 880-27819/2-A

Matrix: Solid Analysis Batch: 27741 Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 27819

Spike LCSD LCSD %Rec **RPD** Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit D Toluene 0.100 0.08652 87 70 - 130 35 mg/Kg 8 Ethylbenzene 0.100 0.08308 mg/Kg 83 70 - 130 16 35 0.200 70 - 130 m-Xylene & p-Xylene 0.1577 mg/Kg 79 35 21 o-Xylene 0.100 0.08600 mg/Kg 86 70 - 130 12

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 880-16013-A-1-A MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 27741

Prep Type: Total/NA

Prep Batch: 27819

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U F1	0.100	0.09029		mg/Kg		90	70 - 130	
Toluene	<0.00201	U F1	0.100	0.07715		mg/Kg		77	70 - 130	
Ethylbenzene	<0.00201	U F1	0.100	0.07482		mg/Kg		75	70 - 130	
m-Xylene & p-Xylene	<0.00402	U F1	0.200	0.1417		mg/Kg		71	70 - 130	
o-Xylene	<0.00201	U F1	0.100	0.07556		mg/Kg		75	70 - 130	

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	107	70 - 130
1,4-Difluorobenzene (Surr)	104	70 - 130

Lab Sample ID: 880-16013-A-1-B MSD

Matrix: Solid

Analysis Batch: 27741

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 27819

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U F1	0.0996	<0.00199	U F1	mg/Kg		0	70 - 130	NC	35
Toluene	<0.00201	U F1	0.0996	<0.00199	U F1	mg/Kg		0	70 - 130	NC	35
Ethylbenzene	<0.00201	U F1	0.0996	<0.00199	U F1	mg/Kg		0	70 - 130	NC	35
m-Xylene & p-Xylene	<0.00402	U F1	0.199	<0.00398	U F1	mg/Kg		0	70 - 130	NC	35
o-Xylene	<0.00201	U F1	0.0996	<0.00199	U F1	mg/Kg		0	70 - 130	NC	35

MSD MSD

мв мв

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	84	70 - 130
1,4-Difluorobenzene (Surr)	92	70 - 130

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

Lab Sample ID: MB 880-27745/1-A

Matrix: Solid

Analysis Batch: 27737

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

Prep Batch: 27745

Result Qualifier RL Unit Prepared <50.0 U 50.0 mg/Kg 06/17/22 08:09 06/17/22 11:39 Gasoline Range Organics (GRO)-C6-C10

QC Sample Results

Client: Ensolum Job ID: 890-2418-1 Project/Site: PLU BS 25 SDG: 03E1558046

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

Lab Sample ID: MB 880-27745/1-A
Matrix: Solid

Client Sample ID: Method Blank Prep Type: Total/NA Analysis Batch: 27737 Prep Batch: 27745 MR MR

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/17/22 08:09	06/17/22 11:39	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/17/22 08:09	06/17/22 11:39	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130			06/17/22 08:09	06/17/22 11:39	1
o-Terphenyl	107		70 - 130			06/17/22 08:09	06/17/22 11:39	1

Lab Sample ID: LCS 880-27745/2-A Client Sample ID: Lab Control Sample **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 27737 Prep Batch: 27745

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 747.9 75 70 - 130 mg/Kg (GRO)-C6-C10 1000 827.4 Diesel Range Organics (Over mg/Kg 83 70 - 130 C10-C28)

LCS LCS Qualifier Limits Surrogate %Recovery 1-Chlorooctane 70 - 130 90 o-Terphenyl 93 70 - 130

Lab Sample ID: LCSD 880-27745/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Analysis Batch: 27737

Spike LCSD LCSD %Rec **RPD** Analyte Added Result Qualifier Limits RPD Limit Unit D %Rec Gasoline Range Organics 1000 1165 *1 mg/Kg 117 70 - 130 20 (GRO)-C6-C10 Diesel Range Organics (Over 1000 978.1 mg/Kg 98 70 - 130 17 20 C10-C28)

LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 110 70 - 130 o-Terphenyl 116 70 - 130

Lab Sample ID: 880-16002-A-5-B MS Client Sample ID: Matrix Spike

Matrix: Solid Prep Type: Total/NA Analysis Batch: 27737 Prep Batch: 27745

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	998	756.7		mg/Kg		76	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.9	U F1	998	668.6	F1	mg/Kg		63	70 - 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	82		70 _ 130
o-Terphenyl	81		70 - 130

Eurofins Carlsbad

Prep Type: Total/NA

Prep Batch: 27745

Job ID: 890-2418-1 Client: Ensolum Project/Site: PLU BS 25 SDG: 03E1558046

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

Lab Sample ID: 880-16002-A-5-C MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Analysis Batch: 27737 Prep Type: Total/NA Prep Batch: 27745

Sample Sample MSD MSD RPD Spike Analyte Result Qualifier Added Result Qualifier %Rec Limits RPD Unit D Gasoline Range Organics <49.9 U *1 999 888.7 mg/Kg 89 70 - 130 16 (GRO)-C6-C10 999 726.8 F1 68 70 - 130Diesel Range Organics (Over <49.9 U F1 mg/Kg 8 20

Limit 20

C10-C28)

MSD MSD

%Recovery Qualifier Limits Surrogate 1-Chlorooctane 70 - 130 92 o-Terphenyl 88 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-27807/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 28016

MB MB

Result Qualifier RL Unit Analyte D Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 mg/Kg 06/21/22 06:42

Lab Sample ID: LCS 880-27807/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 28016

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits Chloride 250 229.8 90 - 110 mg/Kg

Lab Sample ID: LCSD 880-27807/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 28016

Spike LCSD LCSD RPD %Rec Analyte Added Result Qualifier Unit %Rec RPD Limits Limit Chloride 250 256.0 102 90 - 110 11 mg/Kg

Lab Sample ID: 890-2418-7 MS Client Sample ID: PH04 **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 28016

Sample Sample Spike MS MS %Rec Qualifier Added Qualifier Analyte Result Result Unit %Rec Limits Chloride F1 249 214.9 F1 84 90 - 110 6.08 mg/Kg

Lab Sample ID: 890-2418-7 MSD

Matrix: Solid

Analysis Batch: 28016

Sample Sample Spike MSD MSD %Rec RPD Result Qualifier Added RPD Result Qualifier %Rec Limits Limit Analyte Unit D 249 Chloride 6.08 F1 248.2 97 90 - 110 20 mg/Kg 14

Eurofins Carlsbad

Client Sample ID: PH04

Prep Type: Soluble

QC Sample Results

Client: Ensolum Job ID: 890-2418-1 Project/Site: PLU BS 25 SDG: 03E1558046

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 880-27813/1-A

MD MD

Client Sample ID: Method Blank

Prep Type: Soluble

Analysis Batch: 28069

Matrix: Solid

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			06/22/22 16:31	1

Lab Sample ID: LCS 880-27813/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 28069

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 272.8 mg/Kg 109 90 - 110

Lab Sample ID: LCSD 880-27813/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 28069

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit Limits **RPD** Limit Chloride 250 272.6 mg/Kg 109 90 - 110

Lab Sample ID: 880-15995-A-2-B MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 28069

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	77.3		253	315.7		mg/Kg		94	90 - 110	

Lab Sample ID: 880-15995-A-2-C MSD Client Sample ID: Matrix Spike Duplicate **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 28069

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	77.3		253	316.2		mg/Kg		95	90 - 110	0	20

QC Association Summary

Client: Ensolum Job ID: 890-2418-1 Project/Site: PLU BS 25 SDG: 03E1558046

GC VOA

Prep Batch: 27628

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-27628/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 27741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2418-1	PH01	Total/NA	Solid	8021B	27819
890-2418-2	PH01	Total/NA	Solid	8021B	27819
890-2418-3	PH02	Total/NA	Solid	8021B	27819
890-2418-4	PH02	Total/NA	Solid	8021B	27819
890-2418-5	PH03	Total/NA	Solid	8021B	27819
890-2418-6	PH03	Total/NA	Solid	8021B	27819
890-2418-7	PH04	Total/NA	Solid	8021B	27819
890-2418-8	PH04	Total/NA	Solid	8021B	27819
890-2418-9	PH05	Total/NA	Solid	8021B	27819
890-2418-10	PH05	Total/NA	Solid	8021B	27819
MB 880-27628/5-A	Method Blank	Total/NA	Solid	8021B	27628
MB 880-27819/5-A	Method Blank	Total/NA	Solid	8021B	27819
LCS 880-27819/1-A	Lab Control Sample	Total/NA	Solid	8021B	27819
LCSD 880-27819/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	27819
880-16013-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	27819
880-16013-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	27819

Prep Batch: 27819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2418-1	PH01	Total/NA	Solid	5035	
890-2418-2	PH01	Total/NA	Solid	5035	
890-2418-3	PH02	Total/NA	Solid	5035	
890-2418-4	PH02	Total/NA	Solid	5035	
890-2418-5	PH03	Total/NA	Solid	5035	
890-2418-6	PH03	Total/NA	Solid	5035	
890-2418-7	PH04	Total/NA	Solid	5035	
890-2418-8	PH04	Total/NA	Solid	5035	
890-2418-9	PH05	Total/NA	Solid	5035	
890-2418-10	PH05	Total/NA	Solid	5035	
MB 880-27819/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-27819/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-27819/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-16013-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-16013-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 27955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-2418-1	PH01	Total/NA	Solid	Total BTEX	
890-2418-2	PH01	Total/NA	Solid	Total BTEX	
890-2418-3	PH02	Total/NA	Solid	Total BTEX	
890-2418-4	PH02	Total/NA	Solid	Total BTEX	
890-2418-5	PH03	Total/NA	Solid	Total BTEX	
890-2418-6	PH03	Total/NA	Solid	Total BTEX	
890-2418-7	PH04	Total/NA	Solid	Total BTEX	
890-2418-8	PH04	Total/NA	Solid	Total BTEX	
890-2418-9	PH05	Total/NA	Solid	Total BTEX	
890-2418-10	PH05	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Ensolum Job ID: 890-2418-1 Project/Site: PLU BS 25 SDG: 03E1558046

GC Semi VOA

Analysis Batch: 27737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2418-1	PH01	Total/NA	Solid	8015B NM	27745
890-2418-2	PH01	Total/NA	Solid	8015B NM	27745
890-2418-3	PH02	Total/NA	Solid	8015B NM	27745
890-2418-4	PH02	Total/NA	Solid	8015B NM	27745
890-2418-5	PH03	Total/NA	Solid	8015B NM	27745
890-2418-6	PH03	Total/NA	Solid	8015B NM	27745
890-2418-7	PH04	Total/NA	Solid	8015B NM	27745
890-2418-8	PH04	Total/NA	Solid	8015B NM	27745
890-2418-9	PH05	Total/NA	Solid	8015B NM	27745
890-2418-10	PH05	Total/NA	Solid	8015B NM	27745
MB 880-27745/1-A	Method Blank	Total/NA	Solid	8015B NM	27745
LCS 880-27745/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	27745
LCSD 880-27745/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	27745
880-16002-A-5-B MS	Matrix Spike	Total/NA	Solid	8015B NM	27745
880-16002-A-5-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	27745

Prep Batch: 27745

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2418-1	PH01	Total/NA	Solid	8015NM Prep	
890-2418-2	PH01	Total/NA	Solid	8015NM Prep	
890-2418-3	PH02	Total/NA	Solid	8015NM Prep	
890-2418-4	PH02	Total/NA	Solid	8015NM Prep	
890-2418-5	PH03	Total/NA	Solid	8015NM Prep	
890-2418-6	PH03	Total/NA	Solid	8015NM Prep	
890-2418-7	PH04	Total/NA	Solid	8015NM Prep	
890-2418-8	PH04	Total/NA	Solid	8015NM Prep	
890-2418-9	PH05	Total/NA	Solid	8015NM Prep	
890-2418-10	PH05	Total/NA	Solid	8015NM Prep	
MB 880-27745/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-27745/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-27745/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-16002-A-5-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-16002-A-5-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 27902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-2418-1	PH01	Total/NA	Solid	8015 NM	
890-2418-2	PH01	Total/NA	Solid	8015 NM	
890-2418-3	PH02	Total/NA	Solid	8015 NM	
890-2418-4	PH02	Total/NA	Solid	8015 NM	
890-2418-5	PH03	Total/NA	Solid	8015 NM	
890-2418-6	PH03	Total/NA	Solid	8015 NM	
890-2418-7	PH04	Total/NA	Solid	8015 NM	
890-2418-8	PH04	Total/NA	Solid	8015 NM	
890-2418-9	PH05	Total/NA	Solid	8015 NM	
890-2418-10	PH05	Total/NA	Solid	8015 NM	

QC Association Summary

 Client: Ensolum
 Job ID: 890-2418-1

 Project/Site: PLU BS 25
 SDG: 03E1558046

HPLC/IC

Leach Batch: 27807

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2418-7	PH04	Soluble	Solid	DI Leach	
890-2418-8	PH04	Soluble	Solid	DI Leach	
890-2418-9	PH05	Soluble	Solid	DI Leach	
890-2418-10	PH05	Soluble	Solid	DI Leach	
MB 880-27807/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-27807/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-27807/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2418-7 MS	PH04	Soluble	Solid	DI Leach	
890-2418-7 MSD	PH04	Soluble	Solid	DI Leach	

Leach Batch: 27813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2418-1	PH01	Soluble	Solid	DI Leach	
890-2418-2	PH01	Soluble	Solid	DI Leach	
890-2418-3	PH02	Soluble	Solid	DI Leach	
890-2418-4	PH02	Soluble	Solid	DI Leach	
890-2418-5	PH03	Soluble	Solid	DI Leach	
890-2418-6	PH03	Soluble	Solid	DI Leach	
MB 880-27813/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-27813/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-27813/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-15995-A-2-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-15995-A-2-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 28016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2418-7	PH04	Soluble	Solid	300.0	27807
890-2418-8	PH04	Soluble	Solid	300.0	27807
890-2418-9	PH05	Soluble	Solid	300.0	27807
890-2418-10	PH05	Soluble	Solid	300.0	27807
MB 880-27807/1-A	Method Blank	Soluble	Solid	300.0	27807
LCS 880-27807/2-A	Lab Control Sample	Soluble	Solid	300.0	27807
LCSD 880-27807/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	27807
890-2418-7 MS	PH04	Soluble	Solid	300.0	27807
890-2418-7 MSD	PH04	Soluble	Solid	300.0	27807

Analysis Batch: 28069

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2418-1	PH01	Soluble	Solid	300.0	27813
890-2418-2	PH01	Soluble	Solid	300.0	27813
890-2418-3	PH02	Soluble	Solid	300.0	27813
890-2418-4	PH02	Soluble	Solid	300.0	27813
890-2418-5	PH03	Soluble	Solid	300.0	27813
890-2418-6	PH03	Soluble	Solid	300.0	27813
MB 880-27813/1-A	Method Blank	Soluble	Solid	300.0	27813
LCS 880-27813/2-A	Lab Control Sample	Soluble	Solid	300.0	27813
LCSD 880-27813/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	27813
880-15995-A-2-B MS	Matrix Spike	Soluble	Solid	300.0	27813
880-15995-A-2-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	27813

Eurofins Carlsbad

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Lab Chronicle

Client: Ensolum Job ID: 890-2418-1 Project/Site: PLU BS 25 SDG: 03E1558046

Client Sample ID: PH01 Lab Sample ID: 890-2418-1

Date Collected: 06/15/22 09:45 **Matrix: Solid** Date Received: 06/15/22 14:34

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	27819	06/17/22 13:00	MR	XEN MID
Total/NA	Analysis	8021B		1			27741	06/18/22 07:24	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27955	06/20/22 14:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			27902	06/20/22 12:00	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27745	06/17/22 08:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27737	06/17/22 17:50	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	27813	06/17/22 12:02	SC	XEN MID
Soluble	Analysis	300.0		1			28069	06/22/22 20:22	CH	XEN MID

Lab Sample ID: 890-2418-2 **Client Sample ID: PH01**

Date Collected: 06/15/22 09:45 **Matrix: Solid** Date Received: 06/15/22 14:34

Dil Initial Final Batch Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 27819 06/17/22 13:00 Total/NA 5.01 g 5 mL MR XEN MID Total/NA 8021B 06/18/22 07:51 XEN MID Analysis 1 27741 MR Total/NA Total BTEX 27955 XEN MID Analysis 1 06/20/22 14:56 SM Total/NA Analysis 8015 NM 27902 06/20/22 12:00 SM XEN MID Total/NA 27745 XEN MID Prep 8015NM Prep 10.01 g 06/17/22 08:09 DM 10 mL Total/NA Analysis 8015B NM 27737 06/17/22 18:11 ΑJ XEN MID Soluble 27813 SC XEN MID Leach DI Leach 4.99 g 50 mL 06/17/22 12:02 Soluble Analysis 300.0 28069 06/22/22 20:31 CH XEN MID

Lab Sample ID: 890-2418-3 **Client Sample ID: PH02**

Date Collected: 06/15/22 10:00 **Matrix: Solid** Date Received: 06/15/22 14:34

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	27819	06/17/22 13:00	MR	XEN MID
Total/NA	Analysis	8021B		1			27741	06/18/22 08:18	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27955	06/20/22 14:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			27902	06/20/22 12:00	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27745	06/17/22 08:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27737	06/17/22 19:15	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	27813	06/17/22 12:02	SC	XEN MID
Soluble	Analysis	300.0		1			28069	06/22/22 20:40	CH	XEN MID

Client Sample ID: PH02 Lab Sample ID: 890-2418-4

Date Collected: 06/15/22 10:00 Matrix: Solid Date Received: 06/15/22 14:34

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	27819	06/17/22 13:00	MR	XEN MID
Total/NA	Analysis	8021B		1			27741	06/18/22 08:52	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27955	06/20/22 14:56	SM	XEN MID

Lab Chronicle

Client: Ensolum Job ID: 890-2418-1 Project/Site: PLU BS 25 SDG: 03E1558046

Client Sample ID: PH02

Lab Sample ID: 890-2418-4 Date Collected: 06/15/22 10:00 Date Received: 06/15/22 14:34

Matrix: Solid

Matrix: Solid

Matrix: Solid

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			27902	06/20/22 12:00	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27745	06/17/22 08:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27737	06/17/22 19:37	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	27813	06/17/22 12:02	SC	XEN MID
Soluble	Analysis	300.0		1			28069	06/22/22 20:49	CH	XEN MID

Client Sample ID: PH03 Lab Sample ID: 890-2418-5

Date Collected: 06/15/22 10:15 Date Received: 06/15/22 14:34

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	27819	06/17/22 13:00	MR	XEN MID
Total/NA	Analysis	8021B		1			27741	06/18/22 09:18	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27955	06/20/22 14:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			27902	06/20/22 12:00	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	27745	06/17/22 08:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27737	06/17/22 19:58	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	27813	06/17/22 12:02	SC	XEN MID
Soluble	Analysis	300.0		1			28069	06/22/22 20:58	CH	XEN MID

Client Sample ID: PH03 Lab Sample ID: 890-2418-6

Date Collected: 06/15/22 10:15 Date Received: 06/15/22 14:34

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	27819	06/17/22 13:00	MR	XEN MID
Total/NA	Analysis	8021B		1			27741	06/18/22 09:45	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27955	06/20/22 14:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			27902	06/20/22 12:00	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	27745	06/17/22 08:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27737	06/17/22 20:20	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	27813	06/17/22 12:02	SC	XEN MID
Soluble	Analysis	300.0		1			28069	06/22/22 21:08	CH	XEN MID

Client Sample ID: PH04 Lab Sample ID: 890-2418-7

Date Collected: 06/15/22 10:30 Date Received: 06/15/22 14:34

_	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	27819	06/17/22 13:00	MR	XEN MID
Total/NA	Analysis	8021B		1			27741	06/18/22 10:10	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27955	06/20/22 14:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			27902	06/20/22 12:00	SM	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.02 g	10 mL	27745 27737	06/17/22 08:09 06/17/22 20:41	DM AJ	XEN MID XEN MID

Client: Ensolum Project/Site: PLU BS 25 Job ID: 890-2418-1

SDG: 03E1558046

Client Sample ID: PH04

Date Collected: 06/15/22 10:30 Date Received: 06/15/22 14:34 Lab Sample ID: 890-2418-7

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	27807	06/17/22 11:43	SC	XEN MID
Soluble	Analysis	300.0		1			28016	06/21/22 07:06	CH	XEN MID

Client Sample ID: PH04 Lab Sample ID: 890-2418-8

Date Collected: 06/15/22 10:30 Date Received: 06/15/22 14:34 **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	27819	06/17/22 13:00	MR	XEN MID
Total/NA	Analysis	8021B		1			27741	06/18/22 10:36	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27955	06/20/22 14:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			27902	06/20/22 12:00	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27745	06/17/22 08:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27737	06/17/22 21:02	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	27807	06/17/22 11:43	SC	XEN MID
Soluble	Analysis	300.0		1			28016	06/21/22 07:29	CH	XEN MID

Client Sample ID: PH05 Lab Sample ID: 890-2418-9

Date Collected: 06/15/22 12:10 Date Received: 06/15/22 14:34 **Matrix: Solid**

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			5.04 g	5 mL	27819	06/17/22 13:00	MR	XEN MID
Total/NA	Analysis	8021B		1			27741	06/18/22 11:02	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27955	06/20/22 14:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			27902	06/20/22 12:00	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27745	06/17/22 08:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27737	06/17/22 21:23	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	27807	06/17/22 11:43	SC	XEN MID
Soluble	Analysis	300.0		1			28016	06/21/22 07:37	CH	XEN MID

Client Sample ID: PH05 Lab Sample ID: 890-2418-10

Date Collected: 06/15/22 12:10 Date Received: 06/15/22 14:34

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	27819	06/17/22 13:00	MR	XEN MID
Total/NA	Analysis	8021B		1			27741	06/18/22 11:28	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27955	06/20/22 14:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			27902	06/20/22 12:00	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27745	06/17/22 08:09	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27737	06/17/22 21:45	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	27807	06/17/22 11:43	SC	XEN MID
Soluble	Analysis	300.0		1			28016	06/21/22 07:45	CH	XEN MID

Lab Chronicle

Client: Ensolum

Project/Site: PLU BS 25

Laboratory References:

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

Job ID: 890-2418-1 SDG: 03E1558046

Accreditation/Certification Summary

 Client: Ensolum
 Job ID: 890-2418-1

 Project/Site: PLU BS 25
 SDG: 03E1558046

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	
xas		ELAP	T104704400-21-22	06-30-22	
The following analytes	are included in this report by	it the laboratory is not certifi	ed by the governing authority. This list ma	av include analytee for	
the agency does not of	• •	it the laboratory is not certifi	ed by the governing authority. This list his	ay include arialytes for t	
0 ,	• •	Matrix	Analyte	ay include analytes for t	
the agency does not of	fer certification.	•	, , ,	ay include analytes for v	

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Method Summary

Job ID: 890-2418-1 Client: Ensolum Project/Site: PLU BS 25 SDG: 03E1558046

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

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

Sample Summary

Client: Ensolum

Project/Site: PLU BS 25

Job ID: 890-2418-1

SDG: 03E1558046

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2418-1	PH01	Solid	06/15/22 09:45	06/15/22 14:34	0.5'
890-2418-2	PH01	Solid	06/15/22 09:45	06/15/22 14:34	2'
890-2418-3	PH02	Solid	06/15/22 10:00	06/15/22 14:34	0.5'
890-2418-4	PH02	Solid	06/15/22 10:00	06/15/22 14:34	2
890-2418-5	PH03	Solid	06/15/22 10:15	06/15/22 14:34	0.5'
890-2418-6	PH03	Solid	06/15/22 10:15	06/15/22 14:34	2'
890-2418-7	PH04	Solid	06/15/22 10:30	06/15/22 14:34	0.5'
890-2418-8	PH04	Solid	06/15/22 10:30	06/15/22 14:34	2'
890-2418-9	PH05	Solid	06/15/22 12:10	06/15/22 14:34	0.5'
890-2418-10	PH05	Solid	06/15/22 12:10	06/15/22 14:34	2'

	Work Order No:	Process Page of	Work Order Comments	UST/PST PRP Brownfields RRC Superfund		Level III PST/UST TRRP Level IV	☐ ADaPT ☐ Other:	Preservative Codes	None: NO DI Water: H ₂ O	-0	HCL: HC HNO 3: HN H 250 4: H 2 NAOH: NA	H₃PO₄: HP	NaHSO 4: NABIS	Na ₂ S ₂ O ₃ : NaSO ₃	Zn Acetate+NaOH: Zn	NaOH+Ascorbic Acid: SAPC	Sample Comments											Hg: 1631 / 245.1 / 7470 / 7471		Received by: (Signature) Date/Time	
	Wor	Col: Min Process	b	Program: UST/PST	State of Project:	Reporting: Level Level	Deliverables: EDD	QUEST						-				Custody									\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		erms and conditions beyond the control less previously negotlated.		
tody	TX (214) 902-0300 o, TX (210) 509-3334	TX (806) 794-1296 NM (575) 988-3199	(steen	Energy Inc	(30en 5+.	NM KBAZO	ensolum, com	ANALYSIS REQUEST						-			200 % September 200 % Septembe	030-2410 Citalin									Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K	Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U	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 lable only for the cost of samples and shall not assume any responsibility for any bosses or expenses incurred by the client if such losses are due to discunstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco. but not analyzed. These terms will be enforced unless previously negotiated	Relinquished by: (Signature)	4
Chain of Custody	Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	Carrett	-	3104 E	Carlsbad	3		Pres.	Specy	7:A	Siers	(2) (2) (3)	50 50	×,)	E H	15 17 19 19 19 19 19	×	×	XXX	×	X X	× > × >	× ×	× × ×	×××	b As Ba Be B	A Sb As Ba Be Cd C	Eurofins Xenco, its affiliates and xpenses incurred by the client if it Eurofins Xenco, but not analy	Date/Time	15/1 ec/21/2
	Houston Midland, T)	EL Paso, T Hobbs, N	Bill to: (if different)	Company Name:	Half Address:	City, State ZIP:	Email: TMOCT 1550	Turn Around	Rush	te:	TAT starts the day received by the lab, if received by 4:30pm	No.	TOM-DOT	0	20.4	20.0	Depth Grab/	505	3 (%	0 0.5 6	9	5 0.5 6	2		0.0	\vdash	13PPM Texas 11 Al	TCLP / SPLP 6010 : 8RCRA	se order from client company to responsibility for any losses or ea or \$5 for each sample submitted	ature)	tuf (
	Environment Testing	0	Morrisses	0	Notional Partis H	NM 46220	1-8307 Er	25	4046 MRoutine	At NM Due Date:	CSE TAT star the lab,	Yes/No Wet Ice:	Thermometer			Corrected Temperature:	trix Date Time	6/15	> 16 HB 094	S 1000 1000	S 6/15 1000	510151015	3		9 1	5/6/15/12/2	8RCR	analyzed TCL	samples constitutes a valid purcha samples and shall not assume any plied to each project and a charge	Received by: (Signature)	& monda
•		Xenco	Taloma	Enjolum	_	Carls bad	357-257	A. B.	03区(元5)	FEDA COL	Greek Pad	T Temp Blank:	-	Ye	als: Yes No N/A		ntification	5,5,0	, 8	0.5	7	0.8'	4	بدا	0.5	6	010 200.8 / 6020:	Circle Method(s) and Metal(s) to be analyzed	locument and relinquishment of s will be liable only for the cost of mum charge of \$85.00 will be app	yy: (Signature)	Pedral
	💸 eurofins		Project Manager:	Company Name:	Address:	City, State ZIP:	Phone:	Project Name:	Project Number:	Project Location:	Sampler's Name:	SAMPLE RECEIPT	Samples Received Intact:	Cooler Custody Seals:	Sample Custody Seals:	Total Containers:	Sample Identification	PH OF	PH OI	PIN UR	PH OD	PH 03	E O HO	70	CO FO	PH 05	Total 200.7 / 6010	Circle Method(s	Notice: Signature of this d of service. Eurofins Xenco of Eurofins Xenco. Amini	Relinquished by: (Signature)	S. Capara

Chain of Custody

Eurofins Carlsbad 1089 N Canal St

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Chain of Custody Record

🐝 eurofins

Environment Testing

Project Name PLU BS 25 PH04 (890-2418-8) PH03 (890-2418-5) Midland State Zip: TX 79701 PH05 (890-2418-9) PH04 (890-2418-7) PH03 (890-2418-6) PH02 (890-2418-4) PH02 (890-2418-3) PH01 (890-2418-2) PH01 (890-2418-1) Deliverable Requested | | | | | | | | Other (specify) Possible Hazard Identification Client Information (Sub Contract Lab) lote Since laboratory accreditations are subject to change Eurofins Environment Testing South Central LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the aboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central. LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central. LLC. Sample Identification - Client ID (Lab ID) Eurofins Environment Testing South Centr Carlsbad NM 88220 Phone: 575-988-3199 Fax: 575-988-3199 mpty Kit Relinquished by l32-704-5440(Tel) 211 W Florida Ave linquished by linquished by hipping/Receiving inquished by: Custody Seal No Date/Time Primary Deliverable Rank Project # 89000093 Date/Time Phone Sampler Sample Date SOW#: "AT Requested (days) Due Date Requested 6/15/22 6/15/22 6/15/22 6/15/22 6/15/22 6/15/22 6/15/22 6/15/22 6/15/22 Mountain 12 10 Mountain 10 30 Mountain 10 00 Mountain 10 00 Mountain 09 45 Mountain 10 30 Mountain 10 15 Mountain 10 15 Sample 09 45 Time G=grab) (C=comp Sample Type Preservation Code: Company Company Matrix Solid Solid Solid Solid Solid Solid Solid Solid Solid Jessica Kramer@et.eurofinsus.com
Accreditations Required (See note)
NELAP - Texas Kramer Jessica Time Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mon Perform MS/MSD (Yes or No) Special Instructions/QC Requirements Received by 8015MOD_NM/8015NM_S_Prep (MOD) Full TPH Cooler Temperature(s) °C and Other Remarks × × × × × × × × × × × × × × × × B015MOD Calc × × × × × 800_ORGFM_28D/DI_LEACH Chloride × × × × × × × × 8021B/5035FP_Calc (MOD) BTEX Analysis Requested × × × × Total_BTEX_GCV × × × × × State of Origin.
New Mexico Method of Shipment Date/Time Date/Time Date/Time grade . وفي Total Number of containers يفهو A HCL
B NaCHAE
C Nacetate
D Nitric Acid
E NaHSO4
F MeOH
G Annohior
I loe
J Di Water
K EDTA
L EDA Page 1 of 2 COC No. 890-796 1 reservation 390-2418-1 Special Instructions/Note N ≺ **≶** < ⊂ A Hexane
A None
A NaNaO2
A Na2O4S
A Na2SO3
A Na2SO3
A Na2SO3
A Na2SO3
A Na2SO4
T TSP Dodecahydrate
U Acetone
V MCAA
V pH 4-5
Y Trizma
Y Trizma Company Company Ver 06/08/2021 Company other (specify) Months

Eurofins Carlsbad

1089 N Canal St Carlsbad NM 88220 Phone: 575-988-3199 Fax 575-988-3199

Chain of Custody Record

	Sampler:			1 25 0	١				l		1			l	١			
Client Information (Sub Contract Lab)				Krame	Kramer Jessica	sica					Can	Carner Tracking No(s)	King N)(s)			890-796 2	
J/Receiving	Phone			E-Mail Jessi	E-Mail Jessica Kramer@et.eurofinsus col	mer@	et euro	finsus	8 m		State	State of Origin	3 3				Page Page 2 of 2	
Company Eurofins Environment Testing South Centr					Accreditations Required (See note): NELAP - Texas	ations R	equired	(See no	te):		ŀ					l	Job #- 890-2418-1	
1 W Florida Ave	Due Date Requested 6/21/2022	۵						_≱	Analys	sis Re	Requested	řed				- 1	Preservation Codes	· I
City Midland	TAT Requested (days):	ys):					\dashv		_					\dashv	\dashv		A HCL B NaOH	M Hexane N None O AsNaO2
State Zip: TX 79701					ja regen referensiskensis regentjangensis transistransis	TPH											D Nitric Acid E NaHSO4	P Na2O4S Q Na2SO3
2 704-5440(TeI)	PO#				Virginia esta esta esta esta esta esta esta est	D) Full	le											
Email	WO#				". Ap 1 " 1 N	p (MOI	Chlorid	EX								B	I Ice J DI Water	
Project Name: PLU BS 25	Project #: 89000093				. y y . co	S_Pre	ACH	DD) B1								ainer	K EDTA	VV pH 4-5 Y Trizma Z other (specific)
Site:	SSOW#				************	NM_		(MC								ont	Other	z onei (specily)
					000000000000000000000000000000000000000			_Calc	CV							r of co	Other	
Sample Identification - Client ID (1 sh ID)		Sample	Sample Type (C=comp,	Matrix (w=water S=solid, O=waste/oil,	eld Filtered erform MS/	15MOD_NM	015MOD_Cal 00_ORGFM_:	21B/6036FP	otal_BTEX_G							tal Numbe		
				tion Code:	77.77	-	-		copy i	-			1	-		XI.	000000	
PH05 (890-2418-10)	6/15/22	12 10 Mountain		Solid		×	×	×	×							, and (
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Note Since laboratory accreditations are subject to change Eurofins Environment Testing South Central LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central LLC alteration immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central LLC.	esting South Centra e for analysis/tests/r al LLC attention imr	ILC places the natrix being an nediately If all	ne ownership of alyzed the sam requested accr	method, anal ples must be editations are	yte & acc shipped current t	reditation back to to date in	n compl he Euro	liance u fins Env e signe	pon out vironme	subcor nt Testii of Cust	tract la	borator th Cent	ies Th	is sam labora	ple shi atory or ance to	offer of Euro	is forwarded under charinstructions will be pro	ain-of-custody If the wided Any changes to ng South Central LLC
Possible Hazard Identification Unconfirmed					Sar	Sample Disposal (A fee	le Disposal (A fi	Olioni Clioni	fee m	□ be	asse	assessed if san	fsam	ples		tain	may be assessed if samples are retained longer than 1 month)	month)
Deliverable Requested I II III IV Other (specify)	Primary Deliverable Rank	ble Rank 2			Spe	Special Instructions/QC Requirements	struction	ons/Q	Req	ureme	ents					3	CHOMPO FOR	WORKS
Empty Kit Relinquished by		Date			Time.		7	l				Metho	Method of Shipment:	pmen		۱		
Relinquished by LICA	Date/Time		Q	Company		Received by		R	7		l	ſ	_	Date/Time	ō			Company
Relinquished by	Date/Time [.]		8	Company		Received by	d by							Date/Time	ĕ			Company
Relinquished by	Date/Time:		2	Company		Received by:	d by							Date/Time	õ	- 1		Company
Custody Seals Intact: Custody Seal No A Yes A No						Cooler 1	Cooler Temperature(s) °C and Other Remarks	iture(s)	°C and	Other R	emark							
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🔅 eurofins

Environment Testing America

Ver 06/08/2021

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-2418-1 SDG Number: 03E1558046

Login Number: 2418 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 True tampered with. Samples were received on ice. True True Cooler Temperature is acceptable. 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 True HTs) 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 True MS/MSDs

N/A

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14

<6mm (1/4").

Containers requiring zero headspace have no headspace or bubble is

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2418-1

SDG Number: 03E1558046

List Source: Eurofins Midland List Creation: 06/17/22 11:01 AM

List Number: 2 Creator: Teel, Brianna

Login Number: 2418

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	
ls 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.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	True	

e os oj o /

<6mm (1/4").



APPENDIX E

NMOCD Notifications

From: Aimee Cole

To: <u>Tacoma Morrissey</u>; <u>Kalei Jennings</u>

Subject: FW: XTO - Sampling Notification (week of 6/13/22 - 6/17/22) (updated)

Date: Monday, June 13, 2022 12:22:23 PM

Attachments: image001.png

image002.png image003.png image004.png

See below for your records.

Thanks!



Aimee Cole

Senior Managing Scientist 720-384-7365 Ensolum, LLC

From: Baker, Adrian <adrian.baker@exxonmobil.com>

Sent: Monday, June 13, 2022 9:39 AM

To: ocd.enviro@state.nm.us; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Hamlet,

Robert, EMNRD <Robert.Hamlet@state.nm.us>; Nobui, Jennifer, EMNRD

<Jennifer.Nobui@state.nm.us>

Cc: DelawareSpills /SM <DelawareSpills@exxonmobil.com>; Green, Garrett J <garrett.green@exxonmobil.com>; Aimee Cole <acole@ensolum.com>

Subject: XTO - Sampling Notification (week of 6/13/22 - 6/17/22) (updated)

[**EXTERNAL EMAIL**]

All,

XTO plans to complete final sampling activities at the following sites the week of June 13, 2022.

Monday, June 13th

• JRU 106/ nAPP2212344322

Tuesday, June 14th

- PLU South Frac Pond / nAPP2211150068
- JRU DI2 702H & 707H / nAPP2211654411 & nAPP2208349430
- JRU DI 1 Liner Delineation / Release Date May 30, 2022

Wednesday, June 15th

PLU Big Sinks 25 Battery / nAPP2213148421

th

Thursday, June 16

• PLU 28 Big Sinks 127H / nAPP2210143304

Friday, June 17th

• PLU 28 Big Sinks 127H / nAPP2210143304

Adrian Baker

Environmental Coordinator Permian Business Unit

XTO Energy Inc. 6401 N. Holiday Hill Dr. Midland, Tx 79707 Mobile:(432)-236-3808 adrian.baker@exxonmobil.com

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 126822

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	126822
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	8/24/2022