

September 16, 2024

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

Re: Deferral Request PLU 13 DTD

Incident Number NAPP2417738244

Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum) on behalf of XTO Energy, Inc. (XTO), has prepared this *Deferral Request* to document assessment, delineation, and soil sampling activities at the PLU 13 DTD (Site). The purpose of the Site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following a release of crude oil. Based on field observations and soil sample laboratory analytical results, XTO is submitting this *Deferral Request*, describing Site assessment, and delineation activities that have occurred and requesting deferral of final remediation for Incident Number NAPP2417738244 until the Site is reconstructed, and/or the well pad is abandoned.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit G, Section 24, Township 24 South, Range 30 East, in Eddy County, New Mexico (32.20567°, -103.83007°) and is associated with oil and gas exploration and production operations on federal land managed by the Bureau of Land Management (BLM).

On June 18, 2024, the air eliminator on the circulation pumps failed resulting in the release of approximately 8.0 barrels (bbls) of crude oil into a lined containment and onto the surface of the well pad, around active production equipment and process piping. A vacuum truck was immediately dispatched to the Site and recovered all released fluids. XTO submitted a Release Notification Form C-141 (Form C-141) on June 25, 2024 and the release was assigned Incident Number NAPP2417738244.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table 1 Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented below.

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on a soil boring drilled for determination of regional groundwater depth. On November 24, 2020, a soil boring permitted by New Mexico Office of the State Engineer (OSE) well C-4483, located approximately 0.29 miles northwest of the Site was drilled utilizing a truck-mounted hollow-stem auger rig. The boring was drilled to a total depth of 110 feet bgs. A field geologist logged and described soils continuously. No moisture or groundwater was encountered during drilling activities. The borehole was

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 3122 National Parks Highway | Carlsbad, NM 88220 | ensolum.com

XTO Energy, Inc. Deferral Request PLU 13 DTD

left open for over 72 hours to allow for the potential slow infill of groundwater. After the 72-hour waiting period without observing groundwater, it was confirmed that groundwater at that location is greater than 110 feet bgs. The borehole was properly abandoned with drill cuttings and hydrated bentonite chips. The Well Record and Log for soil boring C-4483 is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a freshwater emergent wetland, located approximately 5,074 feet northeast 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). Potential Site receptors are identified on Figure 1.

Based on the results of the Site characterization, the following 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

SITE ASSESSMENT AND LINER INSPECTION ACTIVITIES

On June 28, 2024, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and inspect the lined containment. A 48-hour advance notice of the liner inspection was submitted to NMOCD on June 26, 2024. Following the recovery of all released fluids, the liner was cleaned of all debris and power washed and a liner integrity inspection was conducted on June 28, 2024. Upon inspection, no rips, tears, holes, or damage were observed. The liner was determined to be operating as designed. The release extent area was mapped utilizing a handheld Global Positioning System (GPS) unit and is depicted on Figure 2. Photographic documentation of the site assessment and liner inspection are included in a Photographic Log provided in Appendix B.

DELINEATION AND SURFACE SCRAPING ACTIVITIES

On July 3, 2024, Ensolum personnel visited the Site to conduct delineation and surface scraping activities. One borehole (BH01) was advanced via hand auger to assess the vertical extent of the release. Four discrete soil samples were collected from BH01 at depths ranging from 0.5 feet to 10 feet bgs. Additionally, three delineation soil samples (SS01 through SS03) were collected around the release extent at a depth of 0.3 feet bgs, to define the edge of the release. All delineation soil samples were field screened for volatile organic compounds (VOCs) and chloride utilizing a calibrated photoionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. Field screening results and observations from BH01 were documented on a lithologic/soil sampling log, which is included in Appendix C. All delineation soil sample locations are depicted on Figure 2.

The delineation soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of the following constituents of concern (COCs): BTEX following United States



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Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method SM4500. Soil samples delivered to the laboratory the same day they were collected may not have equilibrated to the 6 degrees Celsius required for shipment and long-term storage but are considered to have been received in acceptable condition by the laboratory.

Based on the presence of several active production equipment and process piping located within and around the work area, heavy equipment could not access the release area, therefore, surface scraping activities were conducted with hand tools in the area where surficial staining was present. Photographs 2 through 6 on the Photographic Log show the presence of all production equipment and process piping surrounding the release area. A total of approximately 1.5 cubic yards of impacted soil was removed during the surface scrape activities. The soil was transported and properly disposed of at R360 Landfill Disposal Facility in Hobbs, New Mexico.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for delineation soil samples SS01 through SS03 collected outside the release area, indicated all COC concentrations were below the strictest Table 1 Closure Criteria, and thus, provide lateral definition of the release.

Laboratory analytical results for soil samples BH01 collected at 0.5 feet bgs, and BH01A collected at 4 feet bgs indicated TPH-GRO/TPH-DRO and total TPH concentrations exceeded Closure Criteria. BH01 also exibited BTEX concentrations that exceeded Closure Criteria. Only BH01 collected at 0.5 feet bgs could be removed by surface scraping due to active production equipment and pipelines surrounding the release area. Any further excavation at depth in the area of BH01, could potentially undermine the stability of the production equipment and piping, causing harm to the environment and onsite personnel. Laboratory analytical results for soil samples BH01B collected at 7 feet bgs, and BH01C collected at 10 feet bgs indicated COC concentrations were below the strictest Table 1 Closure Criteria and thus, provide vertical definition of the release. Laboratory analytical results are summarized on Table 1 and the complete laboratory analytical reports are included in Appendix D.

DEFFERAL REQUEST

XTO is requesting deferral of final remediation due to active production equipment and process piping present in the area of BH01. The estimated area of remaining impacted soil measures an area of 1,030 square feet, and a total of approximately 270 cubic yards of impacted soil remains in place, assuming a depth of 7 feet bgs based on laboratory analytical results from soil sample BH01B. The impacted soil is limited to the area where active production equipment and pipelines are present and remediation would require a major facility deconstruction. The deferral area has been vertically defined by soil sample BH01B at 7 feet bgs and laterally defined by SS01 through SS03. The proposed deferral area and all delineation soil samples used to define the deferral area are depicted on Figure 3. Since the release occurred on-pad at an active facility, revegetation will not occur until final reclamation of the pad is conducted.

During the investigation, Ensolum identified a previously approved *Deferral Request* that overlapps the release extent area. The *Deferral Request* report is in response to remediation work completed for a crude oil release (incident number NAPP2304448906) that occurred on February 1, 2023. The *Deferral Request* was submitted to NMOCD on September 19, 2023 and approved by NMOCD on September 19, 2023. The existence of the approved deferral area overlapping the release area explains the reasoning behind the size of the newly proposed deferral area being larger and deeper than anticipated, since nearly all fluids were recovered during initial response efforts. XTO believes the NMOCD should



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consider the size of the deferral area to be acceptable, even though all released fluids were recovered. The previously approved *Deferral Request* is included in Appendix E.

Based on initial response efforts, vertical and lateral definition of the release, a liner integrity inspection indicating that the liner was operating as designed, depth to groundwater was determined to be greater than 100 feet, and the entirety of the release remained on pad, XTO does not believe deferment will result in imminent risk to human health, the environment, or groundwater. Based on the presence of active production equipment and process piping within the release area and the complete lateral and vertical definition of impacted soil remaining in place, XTO requests deferral of final remediation for Incident Number NAPP2417738244 until final reclamation of the well pad or major construction, whichever comes first.

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

Sincerely, **Ensolum, LLC**

Benjamin J. Belill Senior Geologist Tacoma Morrissey Associate Principal

cc: Amy Ruth, XTO

Kaylan Dirkx, XTO

BLM

Appendices:

Figure 1 Site Receptor Map

Figure 2 Delineation Soil Sample Locations

Figure 3 Deferral Area Map

Table 1 Soil Sample Analytical Results
Appendix A Referenced Well Records

Appendix B Photographic Log

Appendix C Lithologic / Soil Sampling Logs

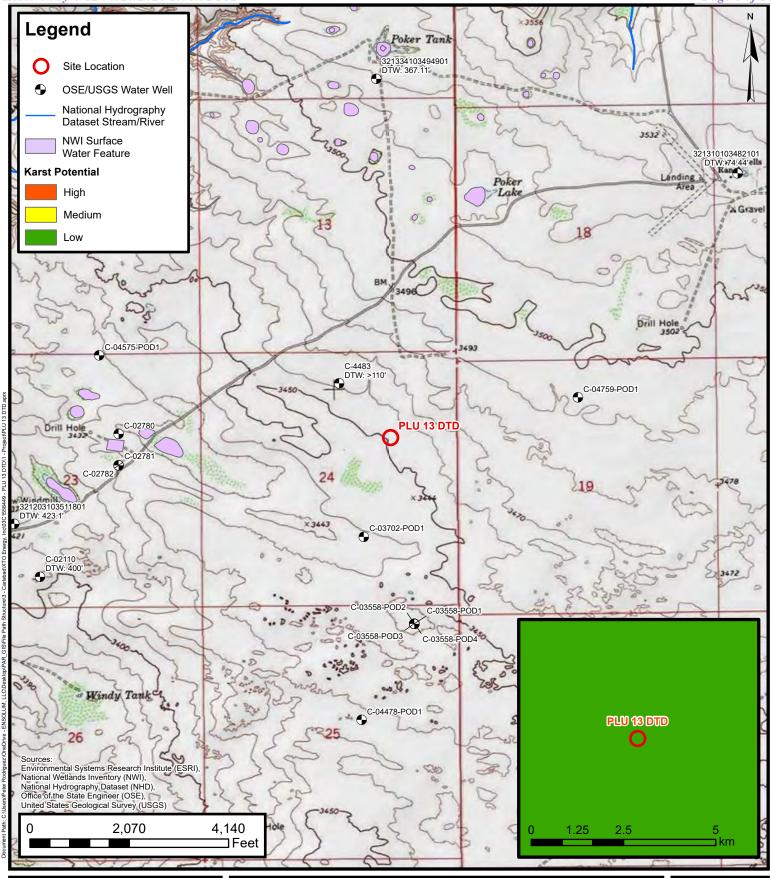
Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation

Appendix E Deferral Request Report; Dated May 1, 2023.





FIGURES





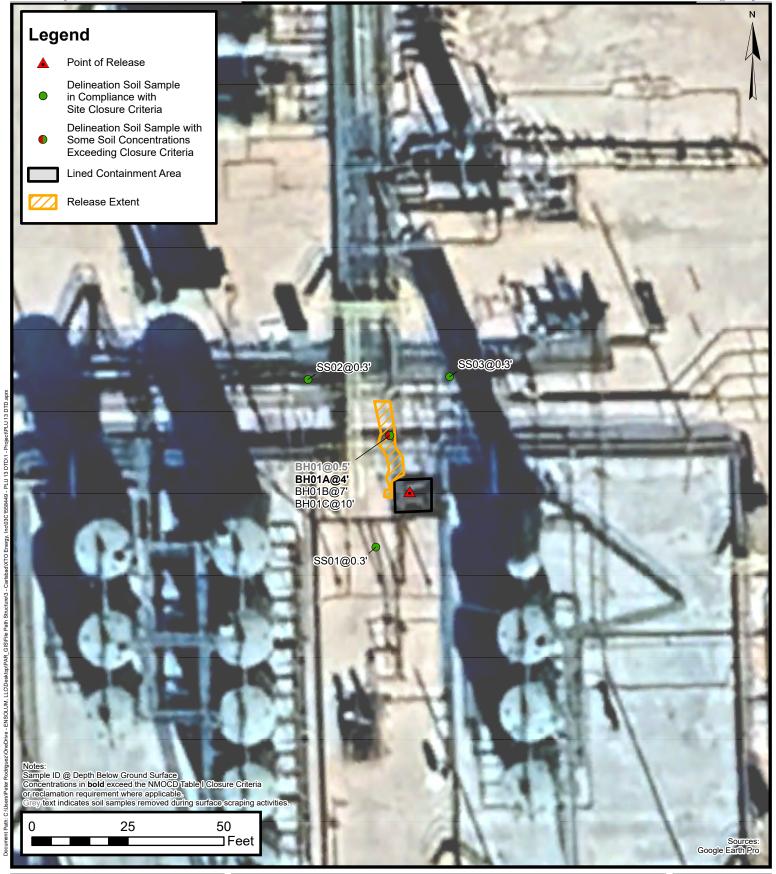
Site Receptor Map

XTO Energy, Inc PLU 13 DTD

Incident Number: NAPP2417738244

Unit G, Sec 24, T24S, R30E Eddy County, New Mexico FIGURE

1





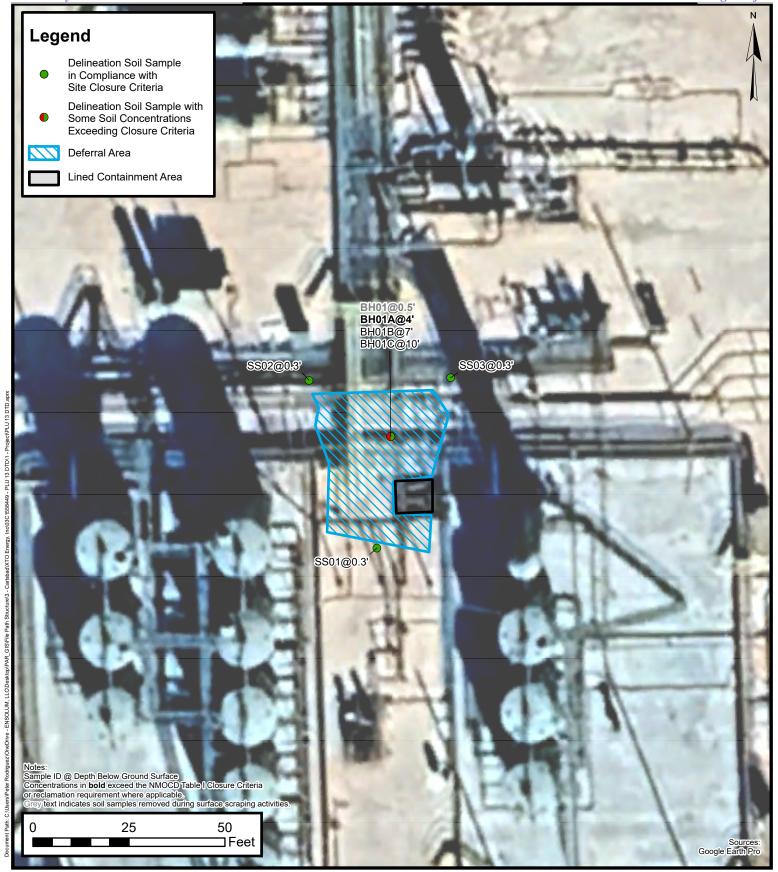
Delineation Soil Sample Locations

XTO Energy, Inc PLU 13 DTD

Incident Number: NAPP2417738244

Unit G, Sec 24, T24S, R30E Eddy County, New Mexico FIGURE

2





Deferral Area Map

XTO Energy, Inc PLU 13 DTD

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Unit G, Sec 24, T24S, R30E Eddy County, New Mexico FIGURE 3



TABLES



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS PLU 13 DTD XTO Energy, Inc Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I CI	osure Criteria (l	NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
				Delir	neation Soil Sai	nples				
SS01	07/03/2024	0.3	<0.050	<0.300	<10.0	17.5	<10.0	17.5	17.5	160
SS02	07/03/2024	0.3	<0.050	<0.300	<10.0	12.1	<10.0	12.1	12.1	304
SS03	07/03/2024	0.3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320
BH01	07/03/2024	0.5	4.55	291	9,010	18,300	2,560	27,300	29,900	48.0
BH01A	07/03/2024	4	< 0.050	7.54	390	2,640	479	3,030	5,670	32.0
BH01B	07/03/2024	7	< 0.050	<0.300	<10.0	12.3	<10.0	12.3	12.3	<16.0
BH01C	07/03/2024	10	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation

requirement where applicable.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code

Grey text indicates soil sample removed during surface scraping activities

Ensolum 1 of 1



APPENDIX A

Referenced Well Records



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

4/26/2023

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

Hand Delivered to the DII Office of the State Engineer

Re: Resubmitted Well Record C-4483 Pod1

To whom it may concern:

Attached please find a corrected well record and a plugging record, in duplicate, for a one (1) soil borings, C-4483 Pod1. The Longitude was corrected for both records.

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

Sincerely,

Lucas Middleton

Enclosures: as noted above

Groon Modelin



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

NO	OSE POD NO. POD1 (BI)	WELL 1 n/a	FAG ID NO.		OSE FILE NO(C-4483	S).		
CATI	WELL OWNE	٠,					PHONE (OPTIO	ONAL)		
WELL LO	WELL OWNE						CITY Midland		STATE 79707	ZIP
1. GENERAL AND WELL LOCATION		LON	TTUDE	32° 1	0' 0.	.77" N 72" W	* DATUM REG	REQUIRED: ONE TENT QUIRED: WGS 84 WNSHJIP, RANGE) WH		
	LICENSE NO.		NAME OF LICENSED). Atkins			NAME OF WELL DRI Atkins Eng	ILLING COMPANY ineering Associates, I	nc.
	DRILLING ST		DRILLING ENDED 11/24/2020	DEPTH OF COMPLETE temporary we			LE DEPTH (FT)	DEPTH WATER FIRS	ST ENCOUNTERED (FT)	
	COMPLETED	WELL IS:	ARTESIAN	✓ DRY HOLE	SHALLOW (UNC	ONFINED)		STATIC WATER LEV	'EL IN COMPLETED WE	LL (FT)
TION	DRILLING FL	.UID:	✓ AIR	MUD	ADDITIVES – SPI	ECIFY:				
RMA.	DRILLING MI	ETHOD:	ROTARY	HAMMER	CABLE TOOL	7 OTHE	R – SPECIFY:	Hollo	w Stem Auger	
ING INFO	DEPTH (feet bgl)	BORE HOLE DIAM (inches)	CASING MATER GRAI (include each cas	DE ing string, and	CON	ASING NECTION TYPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
& CAS	0	110	±8.5	note sections Boring-		(add coup	ling diameter) 			-
2. DRILLING & CASING INFORMATION										
-1	DEPTH (BORE HOLE DIAM. (inches)		IULAR SEAL M.			AMOUNT (cubic feet)	METHO PLACEM	
ANNULAR MATERIAL	FROM	то								
ń										
	OSE INTERI	NAL USE			POD NO.		WR-2		& LOG (Version 06/3	0/17)
_	ATION				100110.		WELL TAG I		PAGE	1 OF 2

	DEPTH (f	eet bgl)		COLOR AN	D TYPE OF MATERIAL E	NCOUN	TERED -		WA'	ΓER	ESTIMATED YIELD FOR
	FROM	то	THICKNESS (feet)	INCLUDE WATE	ER-BEARING CAVITIES Option of the plant of t	R FRAC	TURE ZONE	S	BEAR (YES	ING?	WATER- BEARING ZONES (gpm)
	0	24	24	Sand, Fine-gra	ined,poorly-graded, with cal	iche, Tai	1-Off-White		Y	√ N	
	24	34	10	Sand, Fine-grained,p	oorly-graded, silty, with cali	che grav	el, Tan-Off-W	hite	Y	√ N	
	34	51	17	Sand, Fine-grained,	poorly-graded, silty, with ca	liche gra	vel, Light Bro	wn	Y	√N	
	51	54	3	Sand, Fine-grained,poo	orly-graded, silty, with calich	e gravel,	Light Brown	-Brown	Y	√N	
	54	76	22	Sand,	Fine-grained,poorly-graded,	Brown,	dry		Y	√ N	
ų	76	101	25	Sand, Fin	ne-grained,poorly-graded, Li	ght-Brov	n, dry		Y	√ N	
WEL	101	110	9	Sand, Fine-grained	I,poorly-graded, with gravel,	Light-B	rown, dry-moi	ist	Y	√ N	
OF									Y	N	
900				-					Y	N	
ICI									Y	N	
507									Y	N	
EO	-								Y	N	
ROC									Y	N	
4. HYDROGEOLOGIC LOG OF WELL									Y	N	
4.									Y	N	
									Y	N	
									Y	N	
									Y	N	
									Y	N	
									Y	N	
									Y	N	
	METHOD U		STIMATE YIELI	OF WATER-BEARING	G STRATA: THER – SPECIFY:			l .	AL ESTIN L YIELD		0.00
Z.	WELL TES	TEST	RESULTS - ATT	ACH A COPY OF DAT	'A COLLECTED DURING HOWING DISCHARGE AN	WELL T	ESTING, INC	CLUDII ER TH	NG DISC	HARGE I	METHOD, OD.
TEST; RIG SUPERVISION	MISCELLAI	NEOUS IN	fe	emporary well materia et below ground surfa ogs adapted from LTE	als removed and the soil bece, then hydrated benton: Son-site geologist.	ooring b	from ten fe	et belo	w ground	l surface	tal depth to ten to surface.
5. TEST	PRINT NAM		PRILL RIG SUPE	RVISOR(S) THAT PRO	VIDED ONSITE SUPERVI	SION O	F WELL CON	ISTRU	CTION O	THER TH	IAN LICENSEE:
6. SIGNATURE	CORRECT I	RECORD (OF THE ABOVE I	DESCRIBED HOLE AN	EST OF HIS OR HER KNO ID THAT HE OR SHE WIL PLETION OF WELL DRIL	L FILE	GE AND BEI	JEF, TI	HE FORE	GOING I	S A TRUE AND ATE ENGINEER
S. SIGN.	Jack A	tkins		Jac	ckie D. Atkins				12/1	14/20	
_		SIGNAT	TURE OF DRILLI	ER / PRINT SIGNEE	NAME					DATE	
FOI	R OSE INTERI	NAL USE					WR-20 WE	LL RE	CORD &	LOG (Ve	rsion 06/30/2017
	E NO.				POD NO.		TRN NO.				
LO	CATION					WELL	TAG ID NO.				PAGE 2 OF 2



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

	AL / WELL OWNERSHIP:				
Well owner	eer Well Number: C-4483-POD1 XTO ENERGY (Kyle Littrell)		Phone	No.: 432.682.	8873
Mailing add	ress: 6401 Holiday Hill Dr.				
City: Midla	nd	State:	Texas	Zi	p code: 79707
- 0					
II. WELL	PLUGGING INFORMATION:				
1) Na	me of well drilling company that plugged	well: Jackie [D. Atkins (Atkins Er	ngineering Asso	ciates Inc.)
	w Mexico Well Driller License No.: 1249				
	ell plugging activities were supervised by tane Elridge	he following v	vell driller(s)/rig su	pervisor(s):	
4) Da	te well plugging began: 11/30/2020	Da	te well plugging co	oncluded: 11/3	0/2020
5) GP	S Well Location: Latitude:3 Longitude:	deg, 101—deg,	12 min, 50 min,	31.77 sec 0.72 sec	, WGS 84
	pth of well confirmed at initiation of plugg the following manner: weighted tape	ging as:11	0 ft below grou	nd level (bgl),	
•	tic water level measured at initiation of pl				
8) Da	te well plugging plan of operations was ap	proved by the	State Engineer: _0	9/29/2020	
9) We diff	ere all plugging activities consistent with a ferences between the approved plugging p	n approved plu lan and the we	igging plan? Il as it was plugged	Yes If (attach addition	not, please describe nal pages as needed):
				granger Tunggan	- X 27 - W

Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging <u>Material Used</u> (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
	0-10' Hydrated Bentonite	Approx. 26 gallons	26 gallons	Augers	
	10'-110' Drill Cuttings	Approx. 163 gallons	163 gallons	Boring	
-					
_					
_					
	•	0	0	· ·	٠
-		MULTIPLY E	BY AND OBTAIN		
		cubic feet x 7.4 cubic yards x 201.9	1805 = gallons) *** *** *** *** *** *** *** *** *** *	FN 27 ZNZC FNC144

III. SIGNATURE:

I, Jackie D. Atkins , say that 1 am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller Date

2020-12-15_C-4483_POD1_OSE_Well Record and Log_plu13-forsign

Final Audit Report 2020-12-15

Created:

2020-12-15

By:

Lucas Middleton (lucas@atkinseng.com)

Status:

Signed

Transaction ID:

CBJCHBCAABAARxff6o4VHy1EHZsp0Yo_uFsm-rYe4wj2

"2020-12-15_C-4483_POD1_OSE_Well Record and Log_plu13-f orsign" History

- Document created by Lucas Middleton (lucas@atkinseng.com) 2020-12-15 8:03:25 PM GMT- IP address: 69.21.248.123
- Document emailed to Jack Atkins (jack@atkinseng.com) for signature 2020-12-15 8:03:56 PM GMT
- Email viewed by Jack Atkins (jack@atkinseng.com) 2020-12-15 8:27:59 PM GMT- IP address: 74.50.153.115
- Document e-signed by Jack Atkins (jack@atkinseng.com)

 Signature Date: 2020-12-15 8:29:23 PM GMT Time Source: server- IP address: 74.50.153.115
- Agreement completed.
 2020-12-15 8:29:23 PM GMT

QSE Off APR 27 2023 PM LLE





APPENDIX B

Photographic Log



Photographic Log

XTO Energy, Inc.
PLU 13 DTD
Incident Number NAPP2417738244





Photograph: 1 Date: 6/28/2024

Description: Liner inspection, facility sign.

View: Southeast

Photograph: 2 Date: 6/28/2024 Description: Lined containment and release area.

View: East





Photograph: 3 Date: 6/28/2024

Description: Liner inspection following powerwash.

View: North

Photograph: 4 Date: 6/28/2024

Description: Work area, restricted access.

View: South



Photographic Log

XTO Energy, Inc.
PLU 13 DTD
Incident Number NAPP2417738244





Photograph: 5 Date: 7/3/2024

Description: Surface scraping activities.

View: Northeast

Photograph: 6 Date: 7/3/2024 Description: Delineation and scraping activities.

View: East



APPENDIX C

Lithologic Soil Sampling Logs

								Sample Name: BH01	Date: 7/3/2024
	7						B.4	Site Name: PLU 13 DTD	Date. 7/3/2024
			N		OI	LU	M	Incident Number: NAPP24177	38744
								Job Number: 03C1558449	50244
		LITHOL	OGI	C / SOIL S	SAMPLING	106		Logged By: US	Method: Hand Auger
Coord				3.830131	,, (IVIII EIII V			Hole Diameter: 3.5"	Total Depth: 10
			-		vith HACH Cl	nloride Test S	Strips and	PID for chloride and vapor, res	· ·
			-					ion factor was applied on all ch	•
Moisture Content		Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Descriptions
M	<173	>5000	Υ	BH01	0.5	0	CCHE (fill)	0-0.5', CALICHE, tan, som	ne sub angular gravel, Id H/C odor fill
М	<173	3482	N		1 _	1	SP	light brown staining, mi 0.5'-10', SAND, reddish b grained, poorly graded, no stain, mild H/C odor	trace clay, moist,
М	<173	3716	N		2	_ _ 2 -			
М	<173	1898	N		3 _	3 -			
М	<173	2657	N	вно1А	4	4			
М	<173	225.3	N		5 _	- _ 5 -		5'-9',light H/C odor.	
М	<173	102	N		6	6 -			
М	<173	146	N	вно1в	7 _	7			
М	<173	159	N		8 _	- _ 8 -			
М	<173	141	N		9 _	- - 9 -			
М	<173	64.8	N	вно1С	10	10	TD	@10', no H/C odor. Total depth at 10 feet be	rs.
					- - - -	11			
					-	<u> </u>			



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



July 17, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU 13 DTD

Enclosed are the results of analyses for samples received by the laboratory on 07/15/24 14:27.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



07/03/2024

Soil

Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/15/2024 Sampling Date: Reported: 07/17/2024 Sampling Type:

Project Name: PLU 13 DTD Sampling Condition: Cool & Intact
Project Number: 03C1558449 Sample Received By: Tamara Oldaker

A I J D. ... 711

Project Location: XTO 32.20567, -103.83007

Sample ID: SS 01 0.3 (H244205-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2024	ND	1.94	96.9	2.00	1.44	
Toluene*	<0.050	0.050	07/16/2024	ND	1.94	97.2	2.00	1.33	
Ethylbenzene*	<0.050	0.050	07/16/2024	ND	2.05	102	2.00	1.21	
Total Xylenes*	<0.150	0.150	07/16/2024	ND	6.04	101	6.00	1.16	
Total BTEX	<0.300	0.300	07/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.8	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/16/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2024	ND	184	91.9	200	7.99	
DRO >C10-C28*	17.5	10.0	07/15/2024	ND	190	94.9	200	9.64	
EXT DRO >C28-C36	<10.0	10.0	07/15/2024	ND					
Surrogate: 1-Chlorooctane	85.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.6	% 49.1-14	8						

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Celey & Keene



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/15/2024 Sampling Date: 07/03/2024

Reported: 07/17/2024 Sampling Type: Soil

Project Name: Sampling Condition: Cool & Intact PLU 13 DTD Sample Received By: Project Number: 03C1558449 Tamara Oldaker

Project Location: XTO 32.20567, -103.83007

Sample ID: SS 02 0.3 (H244205-02)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2024	ND	1.94	96.9	2.00	1.44	
Toluene*	<0.050	0.050	07/16/2024	ND	1.94	97.2	2.00	1.33	
Ethylbenzene*	<0.050	0.050	07/16/2024	ND	2.05	102	2.00	1.21	
Total Xylenes*	<0.150	0.150	07/16/2024	ND	6.04	101	6.00	1.16	
Total BTEX	<0.300	0.300	07/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.0	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	07/16/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2024	ND	184	91.9	200	7.99	
DRO >C10-C28*	12.1	10.0	07/15/2024	ND	190	94.9	200	9.64	
EXT DRO >C28-C36	<10.0	10.0	07/15/2024	ND					
Surrogate: 1-Chlorooctane	117 9	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	117 9	6 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/15/2024 Sampling Date: 07/03/2024 Reported: 07/17/2024 Sampling Type: Soil

Project Name: Sampling Condition: Cool & Intact PLU 13 DTD Sample Received By: Project Number: 03C1558449 Tamara Oldaker

Project Location: XTO 32.20567, -103.83007

Sample ID: SS 03 0.3 (H244205-03)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2024	ND	1.94	96.9	2.00	1.44	
Toluene*	<0.050	0.050	07/16/2024	ND	1.94	97.2	2.00	1.33	
Ethylbenzene*	<0.050	0.050	07/16/2024	ND	2.05	102	2.00	1.21	
Total Xylenes*	<0.150	0.150	07/16/2024	ND	6.04	101	6.00	1.16	
Total BTEX	<0.300	0.300	07/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.7	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	07/16/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2024	ND	184	91.9	200	7.99	
DRO >C10-C28*	<10.0	10.0	07/15/2024	ND	190	94.9	200	9.64	
EXT DRO >C28-C36	<10.0	10.0	07/15/2024	ND					
Surrogate: 1-Chlorooctane	114 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116 9	% 49.1-14	8						

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



01 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 Ensolum LLC

Company Name: Ensolum, LLC	Ensolum, LLC			BILL TO		ANALYSIS REC	REQUEST
Project Manager:	Ben Belil			P.O. #:		- 1	
Address: S/22	No homal	Fales HAUN		Company: XTO CY	XEL SU		
city: Cortsbuc	d	2	Zip: 86220	3	5		
	854-0852	Fax #:		JY.	Swell		
Project #: 03C155	C1 55 8449	Project Owner:	CLX:	230	4		
Project Name: 0	LU 13 DTD				70		
Project Location:	32,20567	,-103, 63007	7				
Sampler Name:	8	artmills + Tracy	Hillard	Fax #:			
FOR LAB USE ONLY			MATRIX	PRESERV. SAM	SAMPLING		
Lab I.D.	Sample I.D.	Depth (feet)	RAB OR (C)OMP DNTAINERS DUNDWATER STEWATER L	JER: J/COOL	Morid BTEX TOH		
	2501	0.3	7 ×	×1	XXX OHAL		
2	5502	0,3	-		1503 /1 1		
(s	5503	0.3	-	-	1 1 1 1		
ALEASE NOTE: Liability and analysies. All claims including service. In no event shall Car affiliates or successors arising	**************************************	clients exclusive remedy for an er cause whatsoever shall be d sequental damages, including sea of services her gunder by Co	y claim arising whether based in contra feemed walved unless made in writing a without limitation, business interruptions ardinal, regardless of whether such clair	T-LEASE MUTE: Learning and Damages: Cardinats alloting and clients exclusive temody for any yearn artsing whether based in contract or fort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoewer shall be deemed waived unless made in writing and received by Cerdinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental demages, including without limitation, bushness interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliation or successors artisting out of or related to the performance of services regardless of whether such claim is based upon any of the above stated reasons or otherwise.	d by the client for the crompletion of the applicable from the subsidiaries, asons or otherwise.		
Relinquished By:	Acc		Received By:	and all little	ult: ☐ Yes are emailed. Ple		Opasolum, com
Relinquished By:		Date: Time:	Received By:		1. APP 2417738244 (WS) - CUNT : 219172100	001	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. *C 279 Corrected Temp. *C	Sample Condition Cool Mact Pes Pres No No	ition CHECKED BY: (Initials)	nd Time:	-	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Yes Yes No Corrected Temp. °C



July 17, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU 13 DTD

Enclosed are the results of analyses for samples received by the laboratory on 07/15/24 14:27.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

 Received:
 07/15/2024
 Sampling Date:
 07/03/2024

 Reported:
 07/17/2024
 Sampling Type:
 Soil

Project Name: PLU 13 DTD Sampling Condition: Cool & Intact
Project Number: 03C1558449 Sample Received By: Tamara Oldaker

Project Location: XTO 32.20567, -103.83007

Sample ID: BH 01 0.5 (H244206-01)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	4.55	1.00	07/16/2024	ND	1.92	96.0	2.00	2.68	
Toluene*	61.5	1.00	07/16/2024	ND	1.92	95.8	2.00	2.09	
Ethylbenzene*	17.8	1.00	07/16/2024	ND	1.96	98.0	2.00	0.826	
Total Xylenes*	208	3.00	07/16/2024	ND	5.77	96.2	6.00	0.655	
Total BTEX	291	6.00	07/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	168	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/16/2024	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	9010	50.0	07/16/2024	ND	184	91.9	200	7.99	
DRO >C10-C28*	18300	50.0	07/16/2024	ND	190	94.9	200	9.64	
EXT DRO >C28-C36	2560	50.0	07/16/2024	ND					
Surrogate: 1-Chlorooctane	875	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	288	% 49.1-14	8						

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

Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/15/2024 Sampling Date: 07/03/2024

Reported: 07/17/2024 Sampling Type: Soil

Project Name: PLU 13 DTD Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558449 Tamara Oldaker

Project Location: XTO 32.20567, -103.83007

Sample ID: BH 01A 4' (H244206-02)

BTEX 8021B	mg/	kg	Analyze	d By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2024	ND	1.92	96.0	2.00	2.68	
Toluene*	0.898	0.050	07/16/2024	ND	1.92	95.8	2.00	2.09	GC-NC1
Ethylbenzene*	<0.050	0.050	07/16/2024	ND	1.96	98.0	2.00	0.826	GC-NC
Total Xylenes*	6.60	0.150	07/16/2024	ND	5.77	96.2	6.00	0.655	GC-NC1
Total BTEX	7.54	0.300	07/16/2024	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	396 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/16/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	390	10.0	07/15/2024	ND	184	91.9	200	7.99	
DRO >C10-C28*	2640	10.0	07/15/2024	ND	190	94.9	200	9.64	
EXT DRO >C28-C36	479	10.0	07/15/2024	ND					
Surrogate: 1-Chlorooctane	159 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	135 9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/15/2024 Sampling Date: 07/03/2024

Reported: 07/17/2024 Sampling Type: Soil

Project Name: PLU 13 DTD Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C1558449 Tamara Oldaker

Project Location: XTO 32.20567, -103.83007

Sample ID: BH 01B 7' (H244206-03)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2024	ND	1.92	96.0	2.00	2.68	
Toluene*	0.058	0.050	07/16/2024	ND	1.92	95.8	2.00	2.09	
Ethylbenzene*	<0.050	0.050	07/16/2024	ND	1.96	98.0	2.00	0.826	
Total Xylenes*	<0.150	0.150	07/16/2024	ND	5.77	96.2	6.00	0.655	
Total BTEX	<0.300	0.300	07/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/16/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2024	ND	184	91.9	200	7.99	
DRO >C10-C28*	12.3	10.0	07/16/2024	ND	190	94.9	200	9.64	
EXT DRO >C28-C36	<10.0	10.0	07/16/2024	ND					
Surrogate: 1-Chlorooctane	103 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107 9	% 49.1-14	8						

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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Sampler - UPS - Bus - Other: Delivered By: (Circle One)

Observed Temp. *C Corrected Temp. °C

2.9

Sample Condition
Cool Intact
Yes
No No No

CHECKED BY: (Initials)

Turnaround Time:

Standard

Bacteria (only) Sample Condition
Cool Intact Observed Temp. °C

Yes Yes
No Corrected Temp. °C

Corrected Temp. °C

Cast carte: 2191721001

Correction Factor -0.5°C

Time:

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



	(5/5) 393-2326 FAX (5/5) 393-24/6	X (5/5) 393-24	9																											
Company Name: Ensolum, LLC	Ensolum, LLC									Later 1			-	Ħ	BILL TO					ANALYSIS	.YSIS		REQUEST	E	Ŧ					
Project Manager: hen	Ben Belill									ъ	P.O. #:	*								- 1			\dashv			\dashv		\dashv		
Address: 3/22	sim Parks	Huy								0	mo	par	.Yr	×	Company: XTO EN	Frank												_	_	
city: Carlsbad	AND	State: N/M Zip: 88220	Zip	00	28	2	~			D	Attn: AMU	A	3	2	2	, ,												_	_	
hone #: 989	Phone #: 989-854-0852	Fax #:		11						D	ddr	Se.	Ci	5/0	Address: 3164 Greene St	rest													_	
roject #: 030	Project #: 03C155 8449	Project Owner:	.:	3	0					0	City:	0	2	7	Combbad												_	_	_	
roject Name:	Project Name: PLU 13 DTD			-1						co	tate	1	2	1	State: NM Zip: 88220	20		_										_	_	
roject Location	Project Location: 52, 20567, -103.83007	03.83007								ס	hoi	e #	4:4	S	Phone #: 432-661-0571	57/			_								_	_	_	
Sampler Name:	Untel Scatamills	Ills + Tracy	2	+	11	1610	10			TI	Fax #:	**																	_	
FOR LAB USE ONLY		- 1		\neg	\neg	11	3	MATRIX	−×	- 1	7	౼낊	PRESERV	_<	SAMPLING	ING	e													
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	A U -L-U VVV	ICE / COOL	OTHER:	DATE	TIME	Chlor. 2	BTEX	TPH											
_	BH01	0,5	2				×	^		-		-	×		7/3/24	1043	X	X	X									-		
N	BHOTA	4									-			_	_	1055	_											-		
CN	BHOIB	Ą	1 -	_		-								_	-	235	-	-												
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NLEASE NOTE: Liability and railyses. All claims includin service. In no event shall Ca	PLEASE NOTE: Lability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligenos and any other cause whatsoever shall be deemed waiwed unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including whiten the shall cardinal by client, its substitutions, business interruptions, loss of upon the above characteristics.	ni's exclusive remedy for a ause whatsoever shall be tuental damages, including	ny ciai deeme witho	ut limit d was	ation w	hethe	mad mess	nt or or	ting a	of or	ort, st	all be	ardin oss o	ed to	the amount paid b hin 30 days after o fils incurred by clie	y the client for the ompletion of the and, its subsidiaries.	applicab	a								\vdash				
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July 17, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU 13 DTD

Enclosed are the results of analyses for samples received by the laboratory on 07/15/24 14:27.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM BEN BELILL 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/15/2024 Sampling Date: 07/03/2024

Reported: 07/17/2024 Sampling Type: Soil

Project Name: PLU 13 DTD Sampling Condition: Cool & Intact
Project Number: 03C1558449 Sample Received By: Tamara Oldaker

Applyand By 14

Project Location: XTO 32.20567, -103.83007

Sample ID: BH 01 C 10' (H244207-01)

DTEV 0021D

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2024	ND	1.92	96.0	2.00	2.68	
Toluene*	<0.050	0.050	07/16/2024	ND	1.92	95.8	2.00	2.09	
Ethylbenzene*	<0.050	0.050	07/16/2024	ND	1.96	98.0	2.00	0.826	
Total Xylenes*	<0.150	0.150	07/16/2024	ND	5.77	96.2	6.00	0.655	
Total BTEX	<0.300	0.300	07/16/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/16/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2024	ND	184	91.9	200	7.99	
DRO >C10-C28*	<10.0	10.0	07/15/2024	ND	190	94.9	200	9.64	
EXT DRO >C28-C36	<10.0	10.0	07/15/2024	ND					
Surrogate: 1-Chlorooctane	111 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	118	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



01 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 Ensolum LLC

	0.0/000 2020	200 (0:0) 000 -	410			
Company Name: Ensolum, LLC	solum, LLC			BILL TO	ANALYSIS R	REQUEST
Project Manager:	Ben Belill			P.O. #:		
Address: 3122	TWI	PORK HWY		Company: XTO Every	ray l	
city: Cor/sloas	200	State: NW	ZID: 88220	Attn: Amy Ruth		
Phone #:		Fax #:		Address: 3) OH Greene	eere	
Project #: 03C /	1558449	Project Owner:	" XTO	city: Curlsbad		
Project Name: P(W 13 01	Ö		State: NM Zip: 88220	900	
Project Location:	32, 20567	-103, 8300	07	Phone #: 432-661.057	- 0571	
Sampler Name: ()	Intl Santa	an Mar Tracy	cy Hillard	Fax #:		
FOR LAB USE ONLY		- 1		ESERV.	SAMPLING	
Lab I.D. S	Sample I.D.	Depth (feet)	G)RAB OR (C)OMP. CONTAINERS ROUNDWATER VASTEWATER OIL IL LUDGE	THER: CID/BASE: EE/COOL THER:	CNORIDE TPH BTEX	
Collon	RHOTC	0,	12 # v x s	X 7/3/74	1305 X X X	
PLEASE NOTE: Liability and Dam	anes. Cardinal's liability and	ciante avelucia ramado for a	Total the state of	PLEASE NOTE: Liability and Damanes. Cardinal's liability and client's serviceix remedy for any dainy schools because of the description of the serviceix serviceix serviceix serviceix.		
analyses. All claims including thos service. In no event shall Cardinal affiliates or successors arising out	e for negligence and any oth be liable for incidental or con of or related to the pegleman	er cause whatsoever shall be issequental damages, including ice of services hergender by C	aralyses. All claims including those for negligence and any other cause whatsower shall be deemed waived unless made in writing and received by Cardinal within 30 days after service. In no event shall Cardinal be liable for incidental or consequental dramages, including whole limitation, business interruptions, loss of use, or loss of profits incurred by affiliable or successors arising out of or related to the performance of services heppfinder by Cardinal, regardless of whether such claim is besed upon any of the above stated re	aralyses. All claims including those for negligence and any other cause whatsoever shall be deemed without unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incloderal or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services heighfolder by Cardinal, regardless of whether such claim is based upon any of the above stabled reasons or otherwise.	completton of the applicable lent, its subsidiaries, sons or otherwise.	
Relinquished By:	A R	Time: 27	Received By:	Makel	Verbal Result: Yes No Add'l Phone #: All Results are emailed. Please provide Email address: All Results are emailed. Please provide Email address:	Densil in the
Refinquished By:		Date:	Received By:		まる	
Delivered By: (Circle One)		Observed Temp. *C	3.9 Sample Condition	CHECKED BY: (Initials)	0	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C
FURMI-000 R 3.2 10/07/2			□ No □ No	1.	Correction Factor asic St. 7/15/24 No No	Vo Corrected Temp. °C



APPENDIX E

Deferral Request Report; Dated May 1, 2023

of New Mexico

Incident ID NAPP2304448906

District RP
Facility ID
Application ID

Remediation Plan

Remediation Plan Checklist: Each of the following items must	be included in the plan.
☐ Detailed description of proposed remediation technique ☐ Scaled sitemap with GPS coordinates showing delineation poi ☐ Estimated volume of material to be remediated ☐ Closure criteria is to Table 1 specifications subject to 19.15.29 ☐ Proposed schedule for remediation (note if remediation plan ti	.12(C)(4) NMAC
Deferral Requests Only: Each of the following items must be co	onfirmed as part of any request for deferral of remediation.
	production equipment where remediation could cause a major facility
○ Contamination does not cause an imminent risk to human heal	th, the environment, or groundwater.
rules and regulations all operators are required to report and/or file	acceptance of a C-141 report does not relieve the operator of
Printed Name: Garrett Green	Title: _SSHE Coordinator
Signature:email:garrett.green@exxonmobil.com	Date:5/1/2023 Telephone:575-200-0729
OCD Only	
Received by:Jocelyn Harimon	Date:05/02/2023
Approved	f Approval Denied Deferral Approved
Signature: Robert Hamlet	Date: 9/19/2023

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	NAPP2304448906
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible I	Party XTC	Energy		OGRID	OGRID 5380		
Contact Name	^e Garrett Gr	reen		Contact To	Telephone 575-200-0729		
Contact email garrett.green@exxonmobil.com			om	Incident #	‡ (assigned by OCD)		
			reet, Carlsbad, Nev	w Mexico, 88220			
			Location	of Release S	Source		
Latitude32	2.20569		(NAD 83 in dec	Longitude _ imal degrees to 5 decir			
C'. N			(11112) 30 01 000		• /		
		g Town Draw Batt	ery		Tank Battery		
Date Release I	Discovered	02/01/2023		API# (if app	API# (if applicable)		
Unit Letter	Section	Township	Range	Cour	nty		
G	24	24S	30E	Eddy			
	Materia		l that apply and attach o	Volume of	c justification for the volumes provided below)		
x Crude Oil		Volume Release	23.10		Volume Recovered (bbls) 20.00		
Produced '	Water	Volume Release	d (bbls)		Volume Recovered (bbls)		
		in the produced	ion of total dissolv water >10,000 mg/	` '	☐ Yes ☐ No		
Condensat	te	Volume Release	d (bbls)		Volume Recovered (bbls)		
☐ Natural Ga	as	Volume Release	d (Mcf)		Volume Recovered (Mcf)		
Other (des	cribe)	Volume/Weight	Released (provide	units)	Volume/Weight Recovered (provide units)		
Cause of Rele	Piping				failed, releasing fluids into containment and onto pad. A retained for remediation purposes.		

Received by OCD: 9/16/2024 12:04:51PM State of New Mexico
Page 2 Oil Conservation Division

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Pag		UI.	LUV

Incident ID	NAPP2304448906
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the respon	nsible party consider this a major release?
release as defined by 19.15.29.7(A) NMAC?	N/A	
, ,		
Yes 🗷 No		
,	otice given to the OCD? By whom? To wh	om? When and by what means (phone, email, etc)?
N/A		
	Initial R	esponse
The responsible	party must undertake the following actions immediated	y unless 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	ave been contained via the use of berms or o	likes, absorbent pads, or other containment devices.
➤ All free liquids and re	ecoverable materials have been removed an	d managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain	why:
NA		
has begun, please attach	a narrative of actions to date. If remedial	emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred clease attach all information needed for closure evaluation.
regulations all operators are	required to report and/or file certain release noti	best of my knowledge and understand that pursuant to OCD rules and fications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have
failed to adequately investig addition, OCD acceptance o	ate and remediate contamination that pose a three	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 G	reen	Title: SSHE Coordinator
Signature:	the Sum	Date:
email: garrett.green@exx	konmobil.com	Telephone: 575-200-0729
		•
OCD Only		
Received by:	elyn Harimon	Date: 02/13/2023

Location:	PLU 13 DTD Battery	
Spill Date:	2/1/2023	
	Area 1	
Approximate A	rea = 112.29	cu.ft.
	VOLUME OF LEAK	
Total Crude Oil	= 20.00	bbls
Total Produced	Water = 0.00	bbls
	Area 2	
Approximate A	rea = 2263.00	sq. ft.
Average Satura	tion (or depth) of spill = 0.75	inches
Average Porosi	ty Factor = 0.15	5
	VOLUME OF LEAK	
Total Crude Oil	= 3.78	bbls
Total Produced	Water = 0.00	bbls

TOTAL VOLUME OF LEAK				
Total Crude Oil =	23.78	bbls		
Total Produced Water =	0.00	bbls		
TOTAL VOLUME RECOVERED				
Total Crude Oil =	20.00	bbls		
Total Produced Water =	0.00	bbls		

	Page 45 of 18	80
Incident ID	NAPP2304448906	
District RP		
Facility ID		
Application ID		

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>>100</u> (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ⊠ No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and 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 well	ls.
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 	
☐ Photographs including date and GIS information ☐ ☐ Topographic/Aerial maps	
☐ Laboratory data including chain of custody	

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

Received by OCD: 9/16/2024 12:04:51PM State of New Mexico Page 4 Oil Conservation Division

Page	46	oj	f 187	

Incident ID	NAPP2304448906
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.					
Printed Name: _ Garrett Green	Title: _SSHE Coordinator				
Signature: _Sath Surr	Date:5/1/2023 Telephone:575-200-0729				
email:garrett.green@exxonmobil.com	Telephone:373-200-0729				
OCD Only					
Received by: Jocelyn Harimon	Date:05/02/2023				

State of New Mexico

Incident ID NAPP2304448906

District RP
Facility ID
Application ID

Remediation Plan

Remediation Plan Checklist: Each of the following items must	be included in the plan.
☐ Detailed description of proposed remediation technique ☐ Scaled sitemap with GPS coordinates showing delineation poin ☐ Estimated volume of material to be remediated ☐ Closure criteria is to Table 1 specifications subject to 19.15.29 ☐ Proposed schedule for remediation (note if remediation plan times)	.12(C)(4) NMAC
Deferral Requests Only: Each of the following items must be co	onfirmed as part of any request for deferral of remediation.
_	production equipment where remediation could cause a major facility
☐ Contamination does not cause an imminent risk to human heal	th, the environment, or groundwater.
rules and regulations all operators are required to report and/or file	acceptance of a C-141 report does not relieve the operator of
Printed Name: Garrett Green	Title: _SSHE Coordinator
Signature:email:garrett.green@exxonmobil.com	Date:5/1/2023 Telephone:575-200-0729
OCD Only	
Received by: Jocelyn Harimon	Date:05/02/2023
Approved	f Approval
Signature:	Date:



May 1, 2023

New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Re: Deferral Request

PLU 13 Dog Town Draw Battery Incident Number NAPP2304448906 Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared this *Deferral Request* to document assessment and soil sampling activities at the PLU 13 Dog Town Draw Battery (Site). The purpose of the Site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following a release of crude oil at the Site. Based on field observations, field screening activities, and soil sample laboratory analytical results, XTO is submitting this *Deferral Request*, describing Site assessment and delineation activities that have occurred and requesting deferral of final remediation for Incident Number NAPP2304448906 until the Site is reconstructed, and/or the well pad is abandoned.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit G, Section 24, Township 24 South, Range 30 East, in Eddy County, New Mexico (32.20569°, -103.83013°) and is associated with oil and gas exploration and production operations on federal land managed by the Bureau of Land Management (BLM).

On February 1, 2023, piping on the vapor recovery tower (VRT) circulation pump failed, resulting in the release of approximately 23.78 barrels (bbls) of crude oil into a lined containment and onto the surface of the well pad near active production equipment. A vacuum truck was immediately dispatched to the Site, and 20.00 bbls were recovered. XTO submitted a Release Notification Form C-141 (Form C-141) on February 13, 2023. The release was assigned Incident Number NAPP2304448906.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

Depth to groundwater at the Site is estimated to be greater than 100 below ground surface (bgs) based on a soil boring drilled for determination of regional groundwater depth. On November 24, 2020, a soil boring permitted by New Mexico Office of the State Engineer (NMOSE file number C-4483) was completed approximately 0.31 miles northwest of the Site utilizing a truck-mounted hollow-stem auger rig. Soil boring C-4483 was drilled to a depth of 110 feet bgs. A field geologist logged and described soils continuously. No moisture or groundwater was encountered during drilling activities. The borehole was left open for over 72 hours to allow for potential slow infill of groundwater. After the 72-hour waiting

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 3122 National Park Highway | Carlsbad, NM 88220 | ensolum.com

XTO Energy Inc Deferral Request PLU 13 Dog Town Draw Battery

period without observing groundwater, it was confirmed that groundwater beneath the Site is greater than 110 feet bgs. The borehole was properly abandoned with drill cuttings and hydrated bentonite chips. The Well Log is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a freshwater emergent wetland, located approximately 4,288 feet west of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake, and is greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet from 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). Potential site receptors are identified on Figure 1.

Based on the results of the Site Characterization, the following New Mexico Oil Conservation Division (NMOCD) Table I Closure Criteria (Closure Criteria) apply:

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

SITE ASSESSMENT ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On March 14, 2023, Site assessment activities were conducted to evaluate the release extent based on information provided on the Form C-141 and visual observations. Six delineation soil samples (SS01 through SS06) were collected within and around the release extent at a depth of 0.5 feet bgs. Soil samples SS01 and SS02 were collected within the release extent and soil samples SS03 through SS06 were collected around the release extent in order to confirm lateral definition of the release. The delineation soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. The release extent and soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of the following constituents of concern (COCs): BTEX following United States 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. Soil samples delivered to the laboratory the same day they were collected may not have equilabrated to 6 degrees Celcius required for shipment and long term storage, but are considered to have been received in acceptable condition by the laboratory.

Laboratory analytical results for delineation soil samples SS01 and SS02 indicated BTEX, TPH-GRO/TPH-DRO, and TPH concentrations exceeded the Closure Criteria. Based on visible staining in the release area and laboratory analytical results, additional remediation activities were warranted.

XTO Energy Inc Deferral Request PLU 13 Dog Town Draw Battery

DELINEATION SOIL SAMPLING AND SURFACE SCRAPING ACTIVITIES

On March 28, 2023, Ensolum personnel returned to the Site to complete additional delineation and inspect the liner of the containment. A 48-hour advance notice of liner inspection was provided via email to the NMOCD District II office. Two boreholes (BH01 and BH02) were advanced via hand auger to a depth of 7 feet bgs, to assess the vertical extent of the release. Boreholes BH01 and BH02 were advanced in the vicinity of soil sample locations SS01 and SS02, respectively. Discrete soil samples were collected from both boreholes at depths of 2 feet, 4 feet, and 7 feet bgs.

A liner integrity inspection was conducted by Ensolum personnel and the liner was determined to be in good working condition. Surface scraping of impacted soil was conducted from the release area as indicated by visible staining and laboratory analytical results from soil samples SS01 and SS02. Surface scraping activities were performed by use of hand tools to a maximum extent practicable (MEP) depth of 0.5 feet bgs. The surface scraped area and the locations of boreholes BH01 and BH02 are presented on Figure 2. Photographic documentation was conducted during the liner inspection and Site visits and a photographic log is included in Appendix B.

On April 20, 2023, Ensolum personnel returned to the Site to complete additional delineation. Four additional boreholes (BH03 through BH06) were advanced via hand auger to a depth of 2 feet bgs to assess the lateral extent of impacted soil. Boreholes BH03 through BH06 were advanced in the vicinity of soil sample locations SS03 through SS06, respectively. Soil from all boreholes advanced were field screened, handled, and analyzed as described above. Field screening results and observations for all boreholes completed were logged on lithologic/soil sampling logs, which are included in Appendix C. All delineation soil sample locations are depicted on Figure 2.

Laboratory analytical results for delineation soil sample BH01 at 2 feet bgs indicated BTEX, TPH-GRO/TPH-DRO, and TPH concentrations exceed the Closure Criteria; however, it should be noted the concentration of benzene in soil sample BH01 at 2 feet bgs was not detected above the laboratory reporting limit and was in compliance with the Closure Criteria. Laboratory analytical results for SS03 through SS06, and all other borehole delineation soil samples collected indicated all COC concentrations were compliant with the Closure Criteria and confirm the vertical and lateral extent is fully defined to the strictest Table I Closure Criteria. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included in Appendix D.

The release occurred on the well pad, near active production equipment and active surface pipelines, and in-between two lined tank battery containments. Heavy equipment could not access any portion of the release area due to the area being restricted by active production equipment and active surface pipelines, all of which are located between the two lined tank battery containments. Additionally, XTO safety policy restricts soil disturbing activities to a 2-foot radius of any on-site production equipment. The estimated area of remaining impacted soil and delineation soil sample locations are presented on Figure 3. Based on the delineation soil sample results listed above, which indicates a thickness of 1.5 feet (since 0.5 feet has already been removed), the estimated area of remaining impacted soil measures approximately 1,030 square feet and a total of approximately 58 cubic yards of BTEX and TPH-impacted soil remains in place. A total of approximately 20 cubic yards of impacted soil was removed during the surface scrape activities. The impacted soil was transported and disposed of at the R360 Landfill Disposal Facility in Hobbs, New Mexico.

DEFERRAL REQUEST

XTO is requesting deferral of final remediation due to the presence of active production equipment and active pipelines surrounding in between two lined tank battery containments, where remediation would

XTO Energy Inc Deferral Request PLU 13 Dog Town Draw Battery

require a major facility deconstruction. The impacted soil remaining in place is delineated vertically by delineation soil samples BH01B collected at 4 feet bgs. The soil is laterally delineated by delineation soil samples collected from boreholes SS03/BH03 through SS06/BH06.

COCs that are currently left in-place are predominantly light-end petroleum hydrocarbons that will likely attenuate naturally over time through adsorption, photo-oxidation, volatilization, and microbial degradation. XTO does not believe deferment will result in imminent risk to human health, the environment, or groundwater. Depth to groundwater was determined to be greater than 100 feet bgs, the liner was determined to be in good working condition, and the impacted soil remaining in place is limited in areal and vertical extent. Any gross impacts were removed via scraping of the surface soils.

Based on the presence of active production equipment within the release area and the complete lateral and vertical delineation of impacted soil remaining in place, XTO requests deferral of final remediation for Incident Number NAPP2304448906 until final reclamation of the well pad or major construction, whichever comes first.

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

Sincerely, **Ensolum**, **LLC**

Benjamin J. Belill Project Geologist Daniel R. Moir, PG Senior Managing Geologist

cc: Garrett Green, XTO

Shelby Pennington, XTO

BLM

Appendices:

Figure 1 Site Receptor Map

Figure 2 Delineation Soil Sample Locations

Figure 3 Deferral Area Map

Table 1 Soil Sample Analytical Results
Appendix A Referenced Well Records

Appendix B Photographic Log

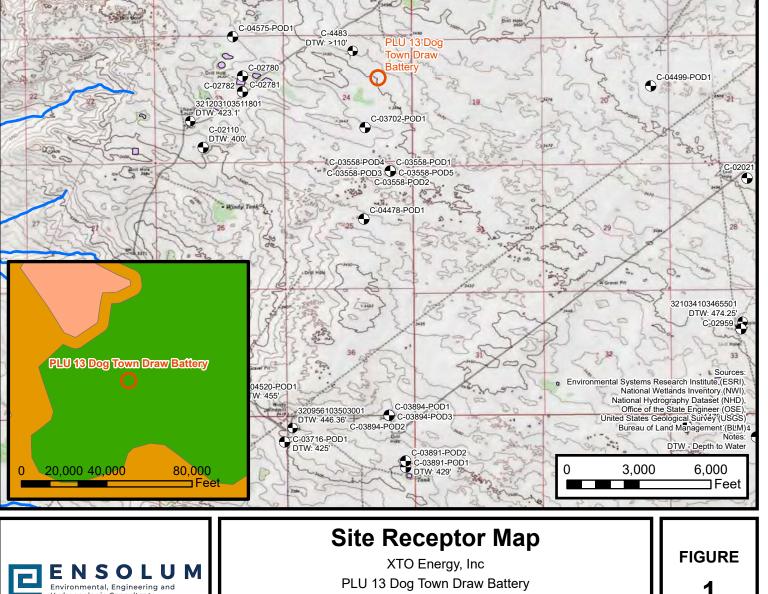
Appendix C Lithologic / Soil Sampling Logs

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

Appendix E NMOCD Sample Notification



FIGURES

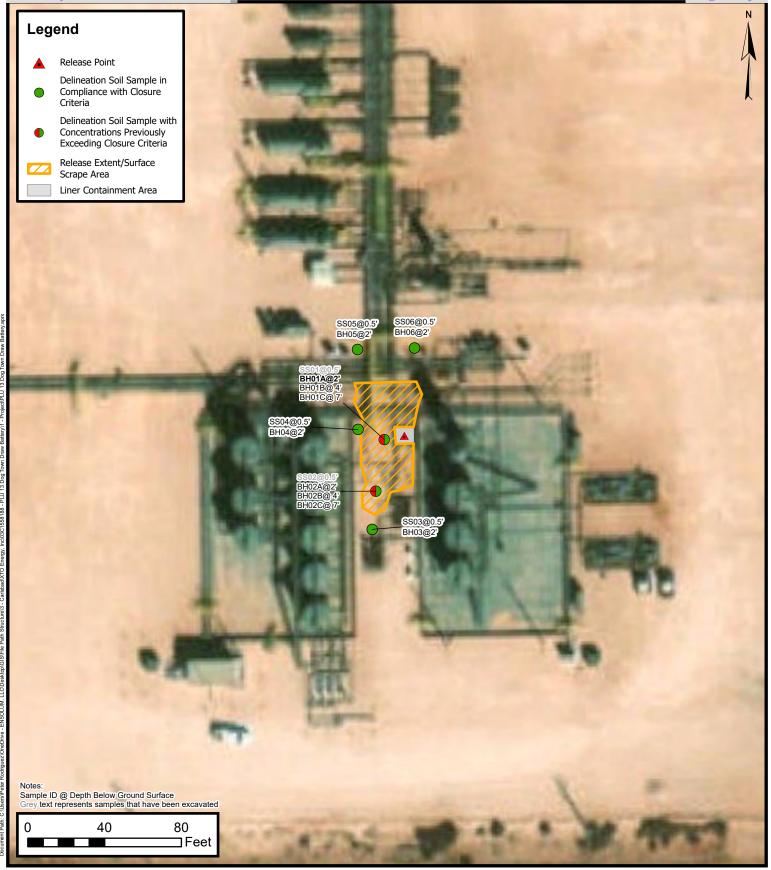




Incident Number: NAPP2304448906

Unit G Sec 24 T24S R30E Eddy County, New Mexico

Released to Imaging: 10/2/2024 3:08:23 PM



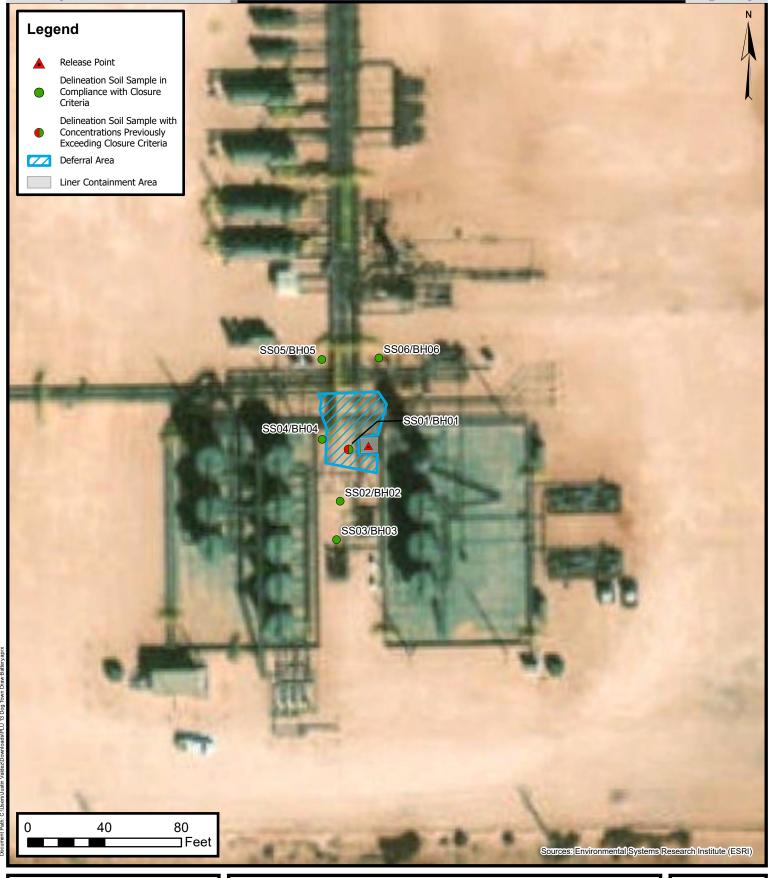


Delineation Soil Sample Locations

XTO Energy, Inc PLU 13 Dog Town Draw Battery Incident Number: NAPP2304448906

Unit G Sec 24 T24S R30E Eddy County, New Mexico **FIGURE**

2





Deferral Area Map

XTO Energy, Inc PLU 13 Dog Town Draw Battery Incident Number: NAPP2304448906

> Unit G Sec 24 T24S R30E Eddy County, New Mexico

FIGURE

3



TABLES



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS PLU 13 Dog Town Draw 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 I C	losure Criteria (I	NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
				Delir	neation Soil Sai	mples				
SS01	03/14/2023	0.5	3.33	335	7,690	7,400	794	15,100	15,900	44.9
BH01A	03/28/2023	2	< 0.495	78.0	4,020	3,030	<49.8	7,050	7,050	133
BH01B	03/28/2023	4	< 0.00200	< 0.00399	59.2	112	<50.0	171	171	84.2
BH01C	03/28/2023	7	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	92.1
SS02	03/14/2023	0.5	2.04	311	6,600	4,640	914	11,300	12,200	84.8
BH02A	03/28/2023	2	<0.00198	< 0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	92.9
BH02B	03/28/2023	4	< 0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	65.2
BH02C	03/28/2023	7	< 0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	<5.04
SS03	03/14/2023	0.5	<0.00198	< 0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	40.8
BH03	04/20/2023	2	<0.00200	< 0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	144
SS04	03/14/2023	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	43.2
BH04	04/20/2023	2	< 0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	136
SS05	03/14/2023	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	13.0
BH05	04/20/2023	2	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	162
SS06	03/14/2023	0.5	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	80.9
BH06	04/20/2023	2	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	270

Notes:

bgs: below ground surface mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code

Grey text indicates soil sample removed during surface scrape activities

Ensolum 1 of 1



APPENDIX A

Referenced Well Records



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

77	OSE POD NO. (WELL NO.) POD1 (BH-01) WELL TAG ID NO. n/a						OSE FILE NO(S). C-4483						
TIO	WELL OWNER NAME(S)							PHONE (OPTIONAL)					
OCA	XTO Energy (Kyle Littrell)								Thomas (or thomas)				
WELL LA	WELL OWNER MAILING ADDRESS 6401 Holiday Hill Dr.									STATE 7970	ZIP 7		
GENERAL AND WELL LOCATION	WELL LOCATIO (FROM GE	PS)	ATITUDE	GREES MINUTES SECONDS 32° 12' 31.77" N 104° 50' 0.72" W			* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84						
1. GENE		ON RELATI	ING WELL LOCATION TO 24 T24S R30E	STREET ADDR	RESS AND COMMON			S (SECTION, TO	WNSHJIP, RANGE) WH	ERE AVAILABLE			
	LICENSE NO		NAME OF LICENSED		Jackie D. Atkins				NAME OF WELL DR Atkins Eng	ILLING COMPANY gineering Associate	es, Inc.		
	DRILLING S 11/24/		DRILLING ENDED 11/24/2020		MPLETED WELL (FI			LE DEPTH (FT)	DEPTH WATER FIRE	st encountered n/a	(FT)		
N.	COMPLETE	O WELL IS:	ARTESIAN	✓ DRY HOL	E SHALLO	W (UNCON	NFINED)		STATIC WATER LEV	/EL IN COMPLETED n/a	WELL (FT)		
ATIC	DRILLING F	LUID:	✓ AIR	MUD	ADDITIV	ES - SPEC	IFY:						
JRM	DRILLING N	ETHOD:	ROTARY	НАММЕР	☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECI			R – SPECIFY:	FY: Hollow Stem Auger				
INF			BORE HOLE	DIAM (include each casing string, and note sections of screen) (add c				ASING	CASING	CASING WAL			
2. DRILLING & CASING INFORMATION	FROM					Т	NECTION YPE ling diameter)	INSIDE DIAM. (inches)	THICKNESS (inches)	SIZE (inches)			
38.	0	110	±8.5		Boring- HSA			-	-	-	-		
TING						-							
RIL													
2.1													
											+		
	DEPTH	(feet bgl)	BORE HOLE	LIST ANNULAR SEAL MATERIAL AND			AMOUNT M		ETHOD OF				
IAL	FROM TO DIAM. (inches)		GRAVEL PACK SIZE-RANGE BY INTERVAL			(cubic feet)		PLACEMENT					
3. ANNULAR MATERIAL													
ANNUL													
60													
FOR	OSE INTER	NAL US	E					WR-20	WELL RECORD	& LOG (Version (6/30/17)		
	NO.				POD NO).		TRN					
LOC	ATION							WELL TAG II	O NO.	PA	GE 1 OF 2		

	DEPTH (fe	eet bgl)		COLOR AND TYPE OF MATERIAL ENCOUNTERED -		XXIA TED	ESTIMATED			
	FROM	то	THICKNESS (feet)	INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONE (attach supplemental sheets to fully describe all units)	ES	WATER BEARING? (YES / NO)	YIELD FOR WATER- BEARING ZONES (gpm)			
	0	24	24	Sand, Fine-grained, poorly-graded, with caliche, Tan-Off-White	Y ✓N					
	24	34	10	Sand, Fine-grained, poorly-graded, silty, with caliche gravel, Tan-Off-W	Y ✓N					
	34	51	17	Sand, Fine-grained, poorly-graded, silty, with caliche gravel, Light Bro	Y √ N					
	51	54	3	Sand, Fine-grained, poorly-graded, silty, with caliche gravel, Light Brown	y √n					
	54	76	22	Sand, Fine-grained, poorly-graded, Brown, dry	Sand, Fine-grained, poorly-graded, Brown, dry					
1	76	101	25	Sand, Fine-grained, poorly-graded, Light-Brown, dry	Y ✓N					
VEL	101	110	9	Sand, Fine-grained, poorly-graded, with gravel, Light-Brown, dry-mo						
OF V						Y N				
90						Y N				
CL						Y N				
OG						Y N				
EOL						Y N				
4. HYDROGEOLOGIC LOG OF WELL						Y N				
XD.						Y N				
4. H						Y N				
		-				Y N				
		-				Y N				
			1		-	Y N				
	1				-	Y N				
		_			-	Y N				
3		-				YN				
1	METHOD II	CED TO E	CTIMATE VIELE	OF WATER-BEARING STRATA:	тота	L ESTIMATED				
	PUMP		AIR LIFT	BAILER OTHER - SPECIFY:		L YIELD (gpm):	0.00			
NO	WELL TEST	TEST	RESULTS - ATT TIME, END TI	CACH A COPY OF DATA COLLECTED DURING WELL TESTING, IN IME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OV	CLUDIN ER THE	IG DISCHARGE I E TESTING PERIC	METHOD, DD.			
TEST; RIG SUPERVISION	MISCELLAN	VEOUS IN	16	emporary well materials removed and the soil boring backfilled usizet below ground surface, then hydrated bentonite chips from ten feogs adapted from LTE on-site geologist.	et belov	cuttings from to w ground surface	to surface.			
S. TEST	PRINT NAM		PRILL RIG SUPE	RVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CON	ISTRUC	TION OTHER TH	IAN LICENSEE:			
SIGNATURE	THE UNDER CORRECT R AND THE PI	ECORD C	LIEF, TH	HE FOREGOING I D WITH THE STA	IS A TRUE AND ATE ENGINEER					
6. SIGN	Jack A	tkins	_	12/14/20						
		SIGNAT	TURE OF DRILLI	ER / PRINT SIGNEE NAME		DATE				
FOI	R OSE INTERN	JAI IISE		WR-20 WF	LL REC	CORD & LOG (Ve	rsion 06/30/2017			
	E NO.	1210 000		POD NO. TRN NO.	1	112 11200 110				
	CATION			MILL ET CAD VIO			PAGE 2 OF 2			



APPENDIX B

Photographic Log



Photographic Log
XTO Energy, Inc
PLU 13 Dog Town Draw Battery
Incident Number NAPP2304448906





Photograph 1 Date: 3/14/2023 Description: Site assessment, release extent.

View: North

Photograph 2 Date: 3/14/2023 Description: Site assessment, release extent.

View: South





Photograph 3 Date: 3/28/2023 Description: Containment area, liner inspection.

View: South

Photograph 4 Date: 3/28/2023

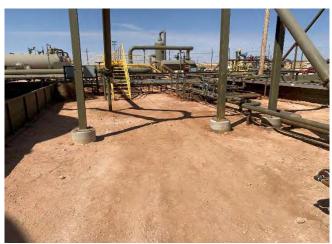
Description: Delineation activities, BH02.

View: North



Photographic Log
XTO Energy, Inc
PLU 13 Dog Town Draw Battery
Incident Number NAPP2304448906





Photograph 5 Date: 3/28/2023

Description: Surface scraping activities.

View: South

Photograph 6 Date: 3/28/2023

Description: Surface scraping activities.

View: North





Photograph 7 Date: 3/28/2023

Description: Surface scraping activities.

View: South

Photograph 8 Date: 3/29/2023

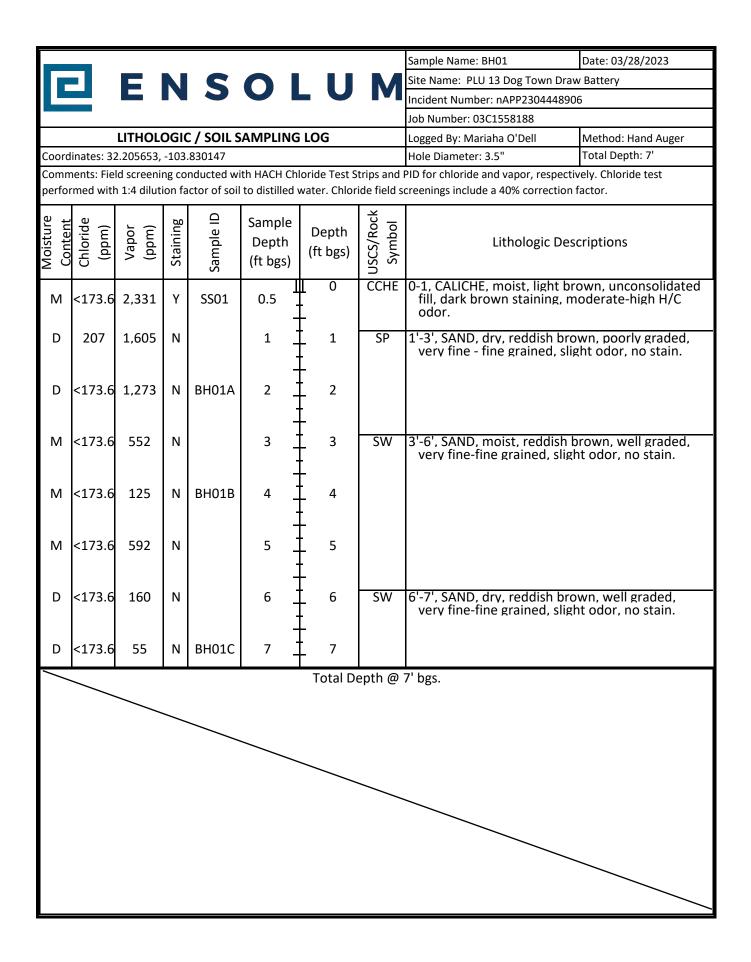
Description: Surface scrape backfilled.

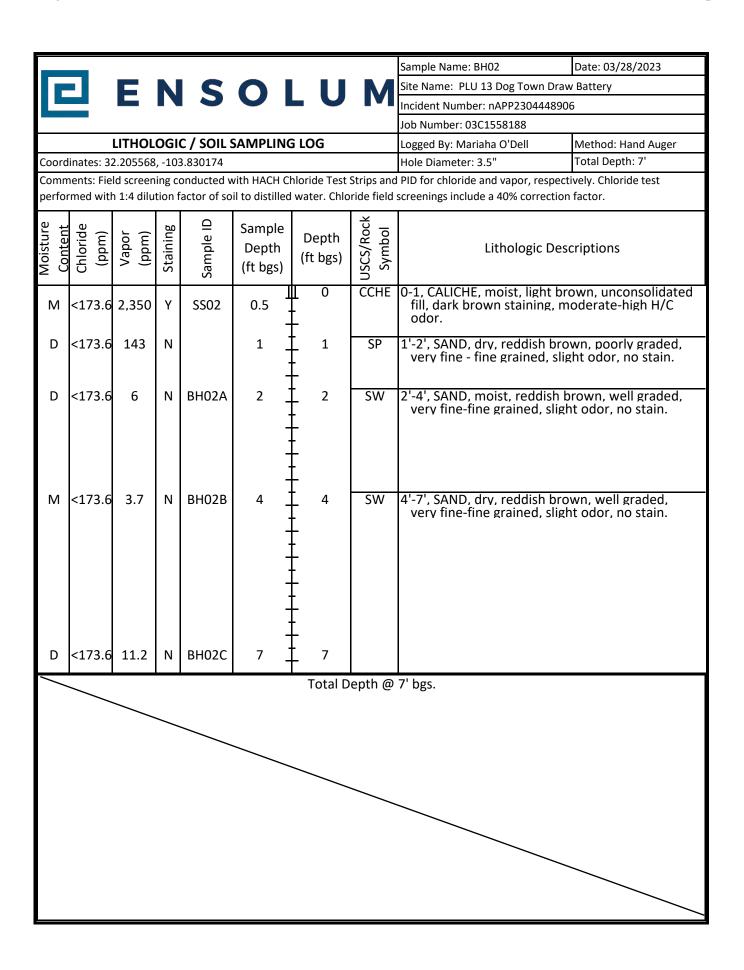
View: North

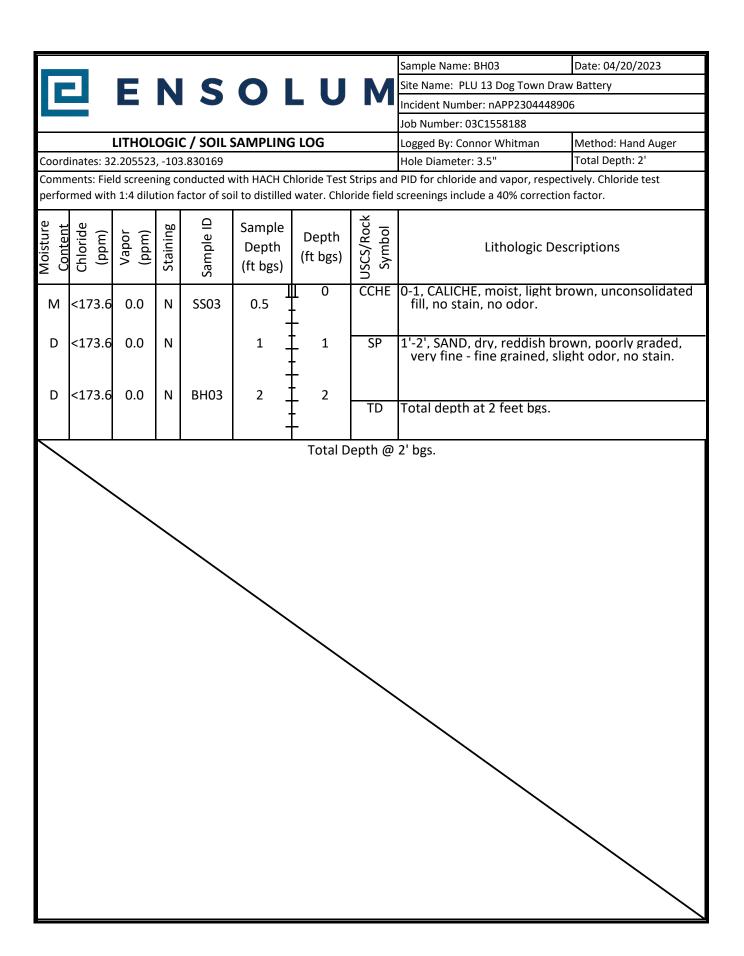


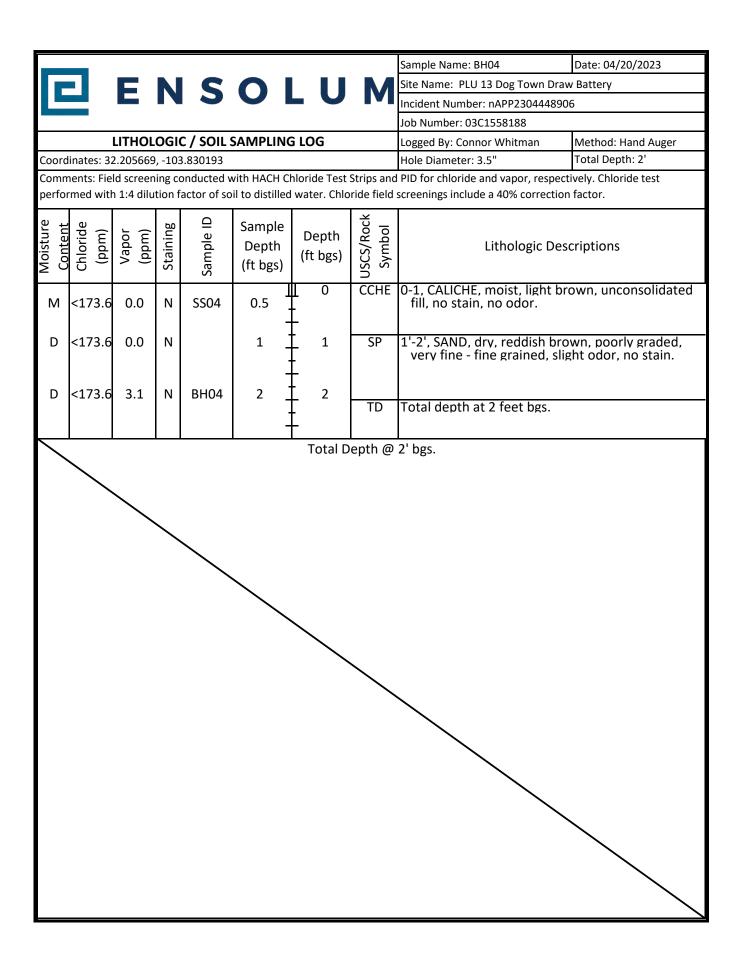
APPENDIX C

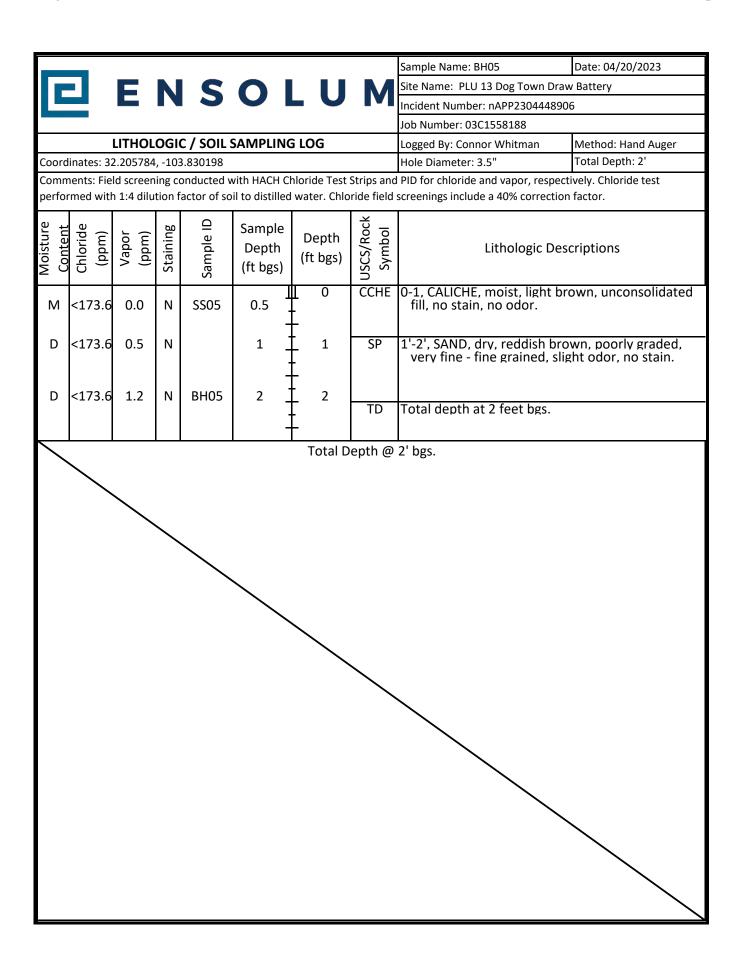
Lithologic Soil Sampling Logs

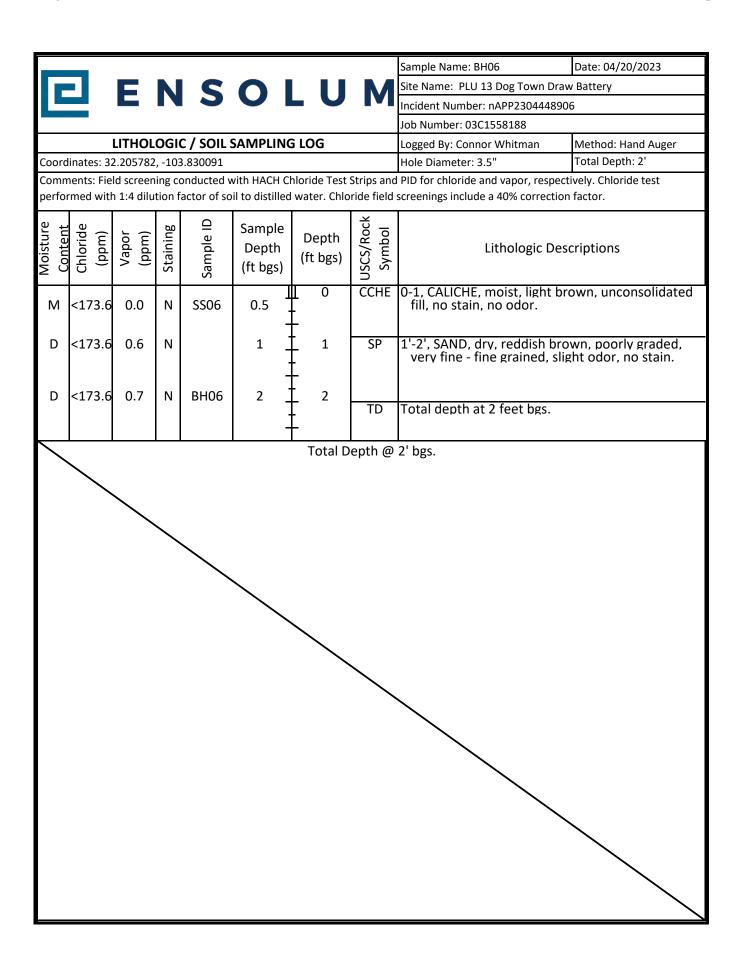














APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill

Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 3/28/2023 7:58:51 AM

JOB DESCRIPTION

PLU 13 Dogtown Draw Battery SDG NUMBER 03C1558188

JOB NUMBER

890-4314-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated 3/28/2023 7:58:51 AM

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

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

Page 2 of 24 3/28/2023

1

J

7

8

9

10

12

13

14

Client: Ensolum
Project/Site: PLU 13 Dogtown Draw Battery

Laboratory Job ID: 890-4314-1 SDG: 03C1558188

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Sample Summary	21
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Definitions/Glossary

Job ID: 890-4314-1 Client: Ensolum Project/Site: PLU 13 Dogtown Draw Battery SDG: 03C1558188

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

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

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.					
n	Listed under the "D" column to designate that the result is reported on a dry weight basis					
%R	Percent Recovery					
CFL	Contains Free Liquid					
CFU	Colony Forming Unit					
CNF	Contains No Free Liquid					
DER	Duplicate Error Ratio (normalized absolute difference)					

Dil Fac **Dilution Factor**

Detection Limit (DoD/DOE) DL

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) Method Detection Limit

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

Not Calculated NC

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

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)

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

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

Released to Imaging: 10/2/2024 3:08:23 PM

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Project/Site: PLU 13 Dogtown Draw Battery

Job ID: 890-4314-1

SDG: 03C1558188

Job ID: 890-4314-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4314-1

Receipt

The samples were received on 3/15/2023 11:53 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-49069/47), (LCS 880-49114/2-A) and (LCSD 880-49114/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-49114 and analytical batch 880-49069 was outside the upper control limits.

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

HPLC/IC

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

Matrix: Solid

Lab Sample ID: 890-4314-1

Client Sample Results

Client: Ensolum
Project/Site: PLU 13 Dogtown Draw Battery

Job ID: 890-4314-1
SDG: 03C1558188

Client Sample ID: SS03

Date Collected: 03/14/23 10:30 Date Received: 03/15/23 11:53

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		03/23/23 14:58	03/25/23 01:37	1
Toluene	<0.00198	U	0.00198	mg/Kg		03/23/23 14:58	03/25/23 01:37	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		03/23/23 14:58	03/25/23 01:37	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		03/23/23 14:58	03/25/23 01:37	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		03/23/23 14:58	03/25/23 01:37	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		03/23/23 14:58	03/25/23 01:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			03/23/23 14:58	03/25/23 01:37	1
1,4-Difluorobenzene (Surr)	104		70 - 130			03/23/23 14:58	03/25/23 01:37	1
- Method: TAL SOP Total BTEX	- Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	11	0.00396	mg/Kg			03/25/23 16:16	

Method: SW846 8015 NM - Diesel R							
Analyte	Result Qua	alifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 U	50.0	mg/Kg			03/22/23 16:11	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/21/23 12:04	03/22/23 00:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/21/23 12:04	03/22/23 00:22	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/21/23 12:04	03/22/23 00:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130			03/21/23 12:04	03/22/23 00:22	1
o-Terphenyl	97		70 - 130			03/21/23 12:04	03/22/23 00:22	1

Method: EPA 300.0 - Anions, ion Chromatography - Soluble								
	Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	40.8	4.99	mg/Kg			03/25/23 14:41	1

Client Sample ID: SS04 Lab Sample ID: 890-4314-2

Date Collected: 03/14/23 10:40 Date Received: 03/15/23 11:53

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/23/23 14:58	03/25/23 01:58	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/23/23 14:58	03/25/23 01:58	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/23/23 14:58	03/25/23 01:58	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/23/23 14:58	03/25/23 01:58	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/23/23 14:58	03/25/23 01:58	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/23/23 14:58	03/25/23 01:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			03/23/23 14:58	03/25/23 01:58	1

Eurofins Carlsbad

Matrix: Solid

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4.0

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Client: Ensolum Job ID: 890-4314-1

Project/Site: PLU 13 Dogtown Draw Battery SDG: 03C1558188

Client Sample ID: SS04 Lab Sample ID: 890-4314-2 Date Collected: 03/14/23 10:40 Matrix: Solid Date Received: 03/15/23 11:53

Sample Depth: 0.5

Method: SW846 8021B - Volatile	Organic Compounds	(GC) (Continued)
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Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	103	70 - 130	03/23/23 14:58	03/25/23 01:58	1

	V T (I DTEV 0 I I I I
Method: TAL SOP Total BTE	X - Total BIEX Calculation

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398 U	0.00398	mg/Kg			03/25/23 16:16	1

Mathada OMO40 0045 NM Disasi Danas Onnanias (DDO) (OO	Α.
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC	. 1

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U	49.9	ma/Ka		.	03/22/23 16:11	1

Method: SW846 8015B NM - Diesel Range Organics	(DRO)	(GC)	١
motified. Offerto College Ithin Biodol Rungo Organico	(5.10)	, , , , ,	,

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		03/21/23 12:04	03/22/23 00:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		03/21/23 12:04	03/22/23 00:44	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/21/23 12:04	03/22/23 00:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102	70 - 130	03/21/23 12:04	03/22/23 00:44	1
o-Terphenyl	116	70 - 130	03/21/23 12:04	03/22/23 00:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	43.2	4.96	mg/Kg			03/27/23 16:15	1

Client Sample ID: SS05 Lab Sample ID: 890-4314-3 Matrix: Solid

Date Collected: 03/14/23 10:45 Date Received: 03/15/23 11:53

Sample Depth: 0.5

Method: SW846 8021B -	M-1-4!1- O	0 (00)

			,					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/23/23 14:58	03/25/23 02:18	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/23/23 14:58	03/25/23 02:18	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/23/23 14:58	03/25/23 02:18	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		03/23/23 14:58	03/25/23 02:18	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/23/23 14:58	03/25/23 02:18	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		03/23/23 14:58	03/25/23 02:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130			03/23/23 14:58	03/25/23 02:18	1
1 1 Diffusionabanzana (Curr)	0.2		70 120			02/22/22 14:59	02/25/22 02:49	4

Surrogate	%Recovery Qualifier	Limits	Prepared	Anaiyzea	DII Fac
4-Bromofluorobenzene (Surr)	115	70 - 130	03/23/23 14:58	03/25/23 02:18	1
1,4-Difluorobenzene (Surr)	93	70 - 130	03/23/23 14:58	03/25/23 02:18	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg	_		03/25/23 16:16	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			03/22/23 16:11	1

Lab Sample ID: 890-4314-3

Job ID: 890-4314-1 Client: Ensolum Project/Site: PLU 13 Dogtown Draw Battery SDG: 03C1558188

Client Sample ID: SS05

Date Collected: 03/14/23 10:45 D

Date Collected: 03/14/23 10:45	Matrix: Solid
Date Received: 03/15/23 11:53	
Sample Depth: 0.5	
Γ	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		03/21/23 12:04	03/22/23 01:06	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		03/21/23 12:04	03/22/23 01:06	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/21/23 12:04	03/22/23 01:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130			03/21/23 12:04	03/22/23 01:06	1
o-Terphenyl	94		70 - 130			03/21/23 12:04	03/22/23 01:06	1
- Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.0		5.05	mg/Kg			03/25/23 14:59	1

Client Sample ID: SS06 Lab Sample ID: 890-4314-4 Date Collected: 03/14/23 10:50 Matrix: Solid

Date Received: 03/15/23 11:53

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		03/23/23 14:58	03/25/23 02:39	1
Toluene	<0.00201	U	0.00201	mg/Kg		03/23/23 14:58	03/25/23 02:39	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		03/23/23 14:58	03/25/23 02:39	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		03/23/23 14:58	03/25/23 02:39	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		03/23/23 14:58	03/25/23 02:39	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		03/23/23 14:58	03/25/23 02:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130			03/23/23 14:58	03/25/23 02:39	1
1,4-Difluorobenzene (Surr)	103		70 - 130			03/23/23 14:58	03/25/23 02:39	1
Method: TAL SOP Total BTEX - 1	otal BTEX Cald	ulation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			03/25/23 16:16	1
- -								
Method: SW846 8015 NM - Diese	•	, , ,	•					
Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
	•	Qualifier	•	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 03/22/23 16:11	Dil Fac
Analyte		Qualifier U	RL 49.8		<u>D</u>	Prepared		
Analyte Total TPH	Result <49.8	Qualifier U	RL 49.8		<u>D</u>	Prepared Prepared		
Analyte Total TPH Method: SW846 8015B NM - Dies	Result <49.8	Qualifier U nics (DRO) Qualifier	RL 49.8	mg/Kg			03/22/23 16:11	1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte	Result <49.8 sel Range Orga Result	Qualifier U nics (DRO) Qualifier	RL 49.8 (GC)	mg/Kg		Prepared	03/22/23 16:11 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.8 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U	RL 49.8 (GC)	mg/Kg		Prepared	03/22/23 16:11 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.8 sel Range Orga Result <49.8 <49.8	Qualifier U nics (DRO) Qualifier U	RL 49.8 (GC) RL 49.8 49.8	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/21/23 12:04 03/21/23 12:04	03/22/23 16:11 Analyzed 03/22/23 01:50 03/22/23 01:50	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 49.8 sel Range Orga Result 49.8 49.8	Qualifier U nics (DRO) Qualifier U	RL 49.8 (GC) RL 49.8	mg/Kg Unit mg/Kg		Prepared 03/21/23 12:04	03/22/23 16:11 Analyzed 03/22/23 01:50	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.8 sel Range Orga Result <49.8 <49.8	Qualifier U nics (DRO) Qualifier U U	RL 49.8 (GC) RL 49.8 49.8	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/21/23 12:04 03/21/23 12:04	03/22/23 16:11 Analyzed 03/22/23 01:50 03/22/23 01:50	1 Dil Fac 1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier U nics (DRO) Qualifier U U	RL 49.8 (GC) RL 49.8 49.8 49.8 49.8	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/21/23 12:04 03/21/23 12:04 03/21/23 12:04	03/22/23 16:11 Analyzed 03/22/23 01:50 03/22/23 01:50	1 Dil Fac 1

Matrix: Solid

Client Sample Results

Client: Ensolum
Project/Site: PLU 13 Dogtown Draw Battery

SDG: 03C1558188

Client Sample ID: SS06 Lab Sample ID: 890-4314-4

Date Collected: 03/14/23 10:50 Date Received: 03/15/23 11:53

Sample Depth: 0.5

 Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

 Analyte
 Result
 Qualifier
 RL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 Chloride
 80.9
 5.01
 mg/Kg
 03/25/23 15:03
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Surrogate Summary

Job ID: 890-4314-1 Client: Ensolum Project/Site: PLU 13 Dogtown Draw Battery SDG: 03C1558188

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-4314-1	SS03	105	104	
890-4314-1 MS	SS03	113	109	
890-4314-1 MSD	SS03	118	105	
890-4314-2	SS04	116	103	
890-4314-3	SS05	115	93	
890-4314-4	SS06	116	103	
LCS 880-49337/1-A	Lab Control Sample	113	109	
LCSD 880-49337/2-A	Lab Control Sample Dup	117	110	
MB 880-49331/5-A	Method Blank	101	100	
MB 880-49337/5-A	Method Blank	101	101	

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)	
880-26040-A-1-B MS	Matrix Spike	101	104	
880-26040-A-1-C MSD	Matrix Spike Duplicate	102	107	
890-4314-1	SS03	83	97	
890-4314-2	SS04	102	116	
890-4314-3	SS05	82	94	
890-4314-4	SS06	88	102	
LCS 880-49114/2-A	Lab Control Sample	108	132 S1+	
LCSD 880-49114/3-A	Lab Control Sample Dup	109	135 S1+	
MB 880-49114/1-A	Method Blank	117	144 S1+	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum

Job ID: 890-4314-1 SDG: 03C1558188

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-49331/5-A

Project/Site: PLU 13 Dogtown Draw Battery

Matrix: Solid Analysis Batch: 49375

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

Prep Batch: 49331

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/23/23 13:25	03/24/23 12:35	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/23/23 13:25	03/24/23 12:35	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/23/23 13:25	03/24/23 12:35	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/23/23 13:25	03/24/23 12:35	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/23/23 13:25	03/24/23 12:35	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/23/23 13:25	03/24/23 12:35	1

MB MB

MD MD

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	03/23/23 13:25	03/24/23 12:35	1
1,4-Difluorobenzene (Surr)	100		70 - 130	03/23/23 13:25	03/24/23 12:35	1

Lab Sample ID: MB 880-49337/5-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Prep Batch: 49337 **Analysis Batch: 49375**

MR MR

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Benzene <0.00200 U 0.00200 mg/Kg 03/23/23 14:58 03/25/23 01:09 Toluene <0.00200 U 0.00200 mg/Kg 03/23/23 14:58 03/25/23 01:09 Ethylbenzene <0.00200 U 0.00200 mg/Kg 03/23/23 14:58 03/25/23 01:09 03/23/23 14:58 m-Xylene & p-Xylene <0.00400 U 0.00400 mg/Kg 03/25/23 01:09 <0.00200 U o-Xylene 0.00200 mg/Kg 03/23/23 14:58 03/25/23 01:09 03/23/23 14:58 Xylenes, Total <0.00400 U 0.00400 mg/Kg 03/25/23 01:09

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	03/23/23 14:58	03/25/23 01:09	1
1,4-Difluorobenzene (Surr)	101		70 - 130	03/23/23 14:58	03/25/23 01:09	1

Client Sample ID: Lab Control Sample Lab Sample ID: LCS 880-49337/1-A **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 49375

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1049		mg/Kg		105	70 - 130	
Toluene	0.100	0.1029		mg/Kg		103	70 - 130	
Ethylbenzene	0.100	0.09246		mg/Kg		92	70 - 130	
m-Xylene & p-Xylene	0.200	0.1835		mg/Kg		92	70 - 130	
o-Xvlene	0.100	0.09346		ma/Ka		93	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	113	70 - 130
1,4-Difluorobenzene (Surr)	109	70 - 130

Lab Sample ID: LCSD 880-49337/2-A

Released to Imaging: 10/2/2024 3:08:23 PM

Matrix: Solid							Prep '	Type: To	tal/NA
Analysis Batch: 49375							Prep	Batch:	49337
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1146	-	mg/Kg		115	70 - 130	9	35

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Client Sample ID: Lab Control Sample Dup

Prep Batch: 49337

QC Sample Results

Client: Ensolum Job ID: 890-4314-1 SDG: 03C1558188 Project/Site: PLU 13 Dogtown Draw Battery

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

Lab Sample ID: LCSD 880-49337/2-A

Matrix: Solid

Analysis Batch: 49375

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 49337

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.1130		mg/Kg		113	70 - 130	9	35
Ethylbenzene	0.100	0.1006		mg/Kg		101	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.1988		mg/Kg		99	70 - 130	8	35
o-Xylene	0.100	0.1014		mg/Kg		101	70 - 130	8	35

LCSD LCSD

Surrogate	%Recovery C	Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	110		70 - 130

Lab Sample ID: 890-4314-1 MS

Matrix: Solid

Analysis Batch: 49375

Client Sample ID: SS03 Prep Type: Total/NA

Prep Batch: 49337

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00198	U	0.0998	0.08158		mg/Kg		82	70 - 130	
Toluene	<0.00198	U	0.0998	0.07972		mg/Kg		79	70 - 130	
Ethylbenzene	<0.00198	U	0.0998	0.07118		mg/Kg		71	70 - 130	
m-Xylene & p-Xylene	<0.00396	U	0.200	0.1402		mg/Kg		70	70 - 130	
o-Xylene	<0.00198	U	0.0998	0.07249		mg/Kg		73	70 - 130	

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	113	70 - 130
1,4-Difluorobenzene (Surr)	109	70 - 130

Lab Sample ID: 890-4314-1 MSD

Matrix: Solid

Analysis Batch: 49375

Client Sample ID: SS03 Prep Type: Total/NA

Prep Batch: 49337

Timely Cit Dutchin 10010											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00198	U	0.100	0.09825		mg/Kg		98	70 - 130	19	35
Toluene	<0.00198	U	0.100	0.09473		mg/Kg		94	70 - 130	17	35
Ethylbenzene	<0.00198	U	0.100	0.07936		mg/Kg		79	70 - 130	11	35
m-Xylene & p-Xylene	<0.00396	U	0.200	0.1542		mg/Kg		77	70 - 130	9	35
o-Xylene	<0.00198	U	0.100	0.07951		mg/Kg		79	70 - 130	9	35

MSD MSD

мв мв Result Qualifier

<50.0 U

Surroyate	76Recovery	Qualifier	LIIIIII
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

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

Lab Sample ID: MB 880-49114/1-A

Matrix: Solid

Analysis Batch: 49069

Gasoline Range Organics

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

Prepared

03/21/23 12:04

Prep Batch: 49114

03/21/23 19:58

(GRO)-C6-C10

Eurofins Carlsbad

50.0

Unit

mg/Kg

o-Terphenyl

Client: Ensolum Job ID: 890-4314-1
Project/Site: PLU 13 Dogtown Draw Battery SDG: 03C1558188

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

Lab Sample ID: MB 880-49114/1-A

Matrix: Solid

Analysis Batch: 49069

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 49114

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/21/23 12:04	03/21/23 19:58	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/21/23 12:04	03/21/23 19:58	1
	МВ	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130			03/21/23 12:04	03/21/23 19:58	1
o-Terphenyl	144	S1+	70 - 130			03/21/23 12:04	03/21/23 19:58	1

Lab Sample ID: LCS 880-49114/2-A Client Sample ID: Lab Control Sample **Matrix: Solid** Prep Type: Total/NA Prep Batch: 49114 Analysis Batch: 49069 LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 963.2 96 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 854.6 mg/Kg 85 70 - 130 C10-C28) LCS LCS %Recovery Qualifier Limits Surrogate 1-Chlorooctane 70 - 130 108

Lab Sample ID: LCSD 880-49114/3-A

Matrix: Solid

Analysis Batch: 49069

Spike

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 49114
Spike

LCSD LCSD

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 49114

70 - 130

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	952.5		mg/Kg		95	70 - 130	1	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	878.0		mg/Kg		88	70 - 130	3	20
C10-C28)									

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	109		70 - 130
o-Terphenyl	135	S1+	70 - 130

132 S1+

Lab Sample ID: 880-26040-A-1-B MS

Client Sample ID: Matrix Spike
Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 49069 Prep Batch: 49114

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	1058		mg/Kg		106	70 - 130	
Diesel Range Organics (Over C10-C28)	<50.0	U	997	1078		mg/Kg		106	70 - 130	

Diesel Range Organics (Over C10-C28)	<50.0	U	997	1078	mg/Kg	106	70 - 130	
	MS	MS						
Surrogate	%Recovery	Qualifier	Limits					
1-Chlorooctane	101		70 - 130					
o-Terphenyl	104		70 - 130					

Project/Site: PLU 13 Dogtown Draw Battery

Job ID: 890-4314-1

SDG: 03C1558188

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

Lab Sample ID: 880-26040-A-1-C MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 49069 Prep Batch: 49114

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<50.0	U	998	1066		mg/Kg		107	70 - 130	1	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<50.0	U	998	1110		mg/Kg		109	70 - 130	3	20
C10-C28)											

MSD MSD

		-
Surrogate	%Recovery Qu	nalifier Limits
1-Chlorooctane	102	70 - 130
o-Terphenyl	107	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-49263/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Client: Ensolum

Analysis Batch: 49472

мв мв Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 mg/Kg 03/25/23 14:27

Lab Sample ID: LCS 880-49263/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 49472

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	242.2		mg/Kg		97	90 - 110	

Lab Sample ID: LCSD 880-49263/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 49472

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	249.0		mg/Kg		100	90 - 110	3	20	

Lab Sample ID: 890-4314-1 MS **Client Sample ID: SS03 Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 49472

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	40.8		250	273 9		ma/Ka	_	93	90 110	

Lab Sample ID: 890-4314-1 MSD **Client Sample ID: SS03 Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 49472

-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	40.8		250	281.3		mg/Kg		96	90 - 110	3	20

Eurofins Carlsbad

Page 14 of 24

QC Association Summary

Client: Ensolum Job ID: 890-4314-1 Project/Site: PLU 13 Dogtown Draw Battery SDG: 03C1558188

GC VOA

Prep Batch: 49331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-49331/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 49337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4314-1	SS03	Total/NA	Solid	5035	
890-4314-2	SS04	Total/NA	Solid	5035	
890-4314-3	SS05	Total/NA	Solid	5035	
890-4314-4	SS06	Total/NA	Solid	5035	
MB 880-49337/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-49337/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-49337/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4314-1 MS	SS03	Total/NA	Solid	5035	
890-4314-1 MSD	SS03	Total/NA	Solid	5035	

Analysis Batch: 49375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4314-1	SS03	Total/NA	Solid	8021B	49337
890-4314-2	SS04	Total/NA	Solid	8021B	49337
890-4314-3	SS05	Total/NA	Solid	8021B	49337
890-4314-4	SS06	Total/NA	Solid	8021B	49337
MB 880-49331/5-A	Method Blank	Total/NA	Solid	8021B	49331
MB 880-49337/5-A	Method Blank	Total/NA	Solid	8021B	49337
LCS 880-49337/1-A	Lab Control Sample	Total/NA	Solid	8021B	49337
LCSD 880-49337/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	49337
890-4314-1 MS	SS03	Total/NA	Solid	8021B	49337
890-4314-1 MSD	SS03	Total/NA	Solid	8021B	49337

Analysis Batch: 49495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4314-1	SS03	Total/NA	Solid	Total BTEX	
890-4314-2	SS04	Total/NA	Solid	Total BTEX	
890-4314-3	SS05	Total/NA	Solid	Total BTEX	
890-4314-4	SS06	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 49069

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4314-1	SS03	Total/NA	Solid	8015B NM	49114
890-4314-2	SS04	Total/NA	Solid	8015B NM	49114
890-4314-3	SS05	Total/NA	Solid	8015B NM	49114
890-4314-4	SS06	Total/NA	Solid	8015B NM	49114
MB 880-49114/1-A	Method Blank	Total/NA	Solid	8015B NM	49114
LCS 880-49114/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	49114
LCSD 880-49114/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	49114
880-26040-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	49114
880-26040-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	49114

Prep Batch: 49114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4314-1	SS03	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum Job ID: 890-4314-1 Project/Site: PLU 13 Dogtown Draw Battery

SDG: 03C1558188

GC Semi VOA (Continued)

Prep Batch: 49114 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4314-2	SS04	Total/NA	Solid	8015NM Prep	
890-4314-3	SS05	Total/NA	Solid	8015NM Prep	
890-4314-4	SS06	Total/NA	Solid	8015NM Prep	
MB 880-49114/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-49114/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-49114/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-26040-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-26040-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 49233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4314-1	SS03	Total/NA	Solid	8015 NM	
890-4314-2	SS04	Total/NA	Solid	8015 NM	
890-4314-3	SS05	Total/NA	Solid	8015 NM	
890-4314-4	SS06	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 49263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4314-1	SS03	Soluble	Solid	DI Leach	
890-4314-2	SS04	Soluble	Solid	DI Leach	
890-4314-3	SS05	Soluble	Solid	DI Leach	
890-4314-4	SS06	Soluble	Solid	DI Leach	
MB 880-49263/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-49263/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-49263/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4314-1 MS	SS03	Soluble	Solid	DI Leach	
890-4314-1 MSD	SS03	Soluble	Solid	DI Leach	

Analysis Batch: 49472

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4314-1	SS03	Soluble	Solid	300.0	49263
890-4314-2	SS04	Soluble	Solid	300.0	49263
890-4314-3	SS05	Soluble	Solid	300.0	49263
890-4314-4	SS06	Soluble	Solid	300.0	49263
MB 880-49263/1-A	Method Blank	Soluble	Solid	300.0	49263
LCS 880-49263/2-A	Lab Control Sample	Soluble	Solid	300.0	49263
LCSD 880-49263/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	49263
890-4314-1 MS	SS03	Soluble	Solid	300.0	49263
890-4314-1 MSD	SS03	Soluble	Solid	300.0	49263

Project/Site: PLU 13 Dogtown Draw Battery

SDG: 03C1558188

Client Sample ID: SS03

Client: Ensolum

Lab Sample ID: 890-4314-1

Matrix: Solid

Date Collected: 03/14/23 10:30 Date Received: 03/15/23 11:53

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	49337	03/23/23 14:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49375	03/25/23 01:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49495	03/25/23 16:16	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49233	03/22/23 16:11	AJ	EET MIC
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49114	03/21/23 12:04	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49069	03/22/23 00:22	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	49263	03/22/23 22:04	KS	EET MIC
Soluble	Analysis	300.0		1	50 mL	50 mL	49472	03/25/23 14:41	SMC	EET MID

Client Sample ID: SS04 Lab Sample ID: 890-4314-2

Date Collected: 03/14/23 10:40 Date Received: 03/15/23 11:53

Matrix: Solid

Dil Initial Final Batch Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 Total/NA 5.03 g 5 mL 49337 03/23/23 14:58 MNR EET MID Total/NA 8021B 5 mL **EET MID** Analysis 1 5 mL 49375 03/25/23 01:58 MNR Total/NA Total BTEX 49495 03/25/23 16:16 Analysis A.I **EET MID** 1 Total/NA Analysis 8015 NM 49233 03/22/23 16:11 **EET MID** Total/NA 49114 Prep 8015NM Prep 10.02 g 10 mL 03/21/23 12:04 EET MID A.I Total/NA Analysis 8015B NM 1 uL 1 uL 49069 03/22/23 00:44 SM **EET MID** Soluble KS Leach DI Leach 5.04 g 50 mL 49263 03/22/23 22:04 EET MID Soluble Analysis 300.0 50 mL 50 mL 49472 03/27/23 16:15 SMC **EET MID**

Lab Sample ID: 890-4314-3 **Client Sample ID: SS05 Matrix: Solid**

Date Collected: 03/14/23 10:45 Date Received: 03/15/23 11:53

	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	49337	03/23/23 14:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49375	03/25/23 02:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49495	03/25/23 16:16	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49233	03/22/23 16:11	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	49114	03/21/23 12:04	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49069	03/22/23 01:06	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	49263	03/22/23 22:04	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49472	03/25/23 14:59	SMC	EET MID

Client Sample ID: SS06 Lab Sample ID: 890-4314-4

Matrix: Solid Date Collected: 03/14/23 10:50 Date Received: 03/15/23 11:53

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	49337	03/23/23 14:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49375	03/25/23 02:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49495	03/25/23 16:16	AJ	EET MID

Lab Chronicle

Client: Ensolum Job ID: 890-4314-1 Project/Site: PLU 13 Dogtown Draw Battery SDG: 03C1558188

Client Sample ID: SS06

Lab Sample ID: 890-4314-4 Date Collected: 03/14/23 10:50

Matrix: Solid

Date Received: 03/15/23 11:53

	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			49233	03/22/23 16:11	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	49114	03/21/23 12:04	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49069	03/22/23 01:50	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	49263	03/22/23 22:04	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49472	03/25/23 15:03	SMC	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-4314-1 Project/Site: PLU 13 Dogtown Draw Battery

SDG: 03C1558188

Laboratory: Eurofins Midland

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

Authority		ogram	Identification Number	Expiration Date	
Texas	NELAP		T104704400-22-25	06-30-23	
The following analytes the agency does not of	' '	t the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes fo	
Analysis Method Prep Method					
Analysis Method	Prep Method	Matrix	Analyte		
Analysis Method 8015 NM	Prep Method	Matrix Solid	Analyte Total TPH		

Method Summary

Client: Ensolum

Method

8021B

Total BTEX

8015 NM

8015B NM

8015NM Prep

DI Leach

300.0

5035

Project/Site: PLU 13 Dogtown Draw Battery

Method Description

Total BTEX Calculation

Volatile Organic Compounds (GC)

Diesel Range Organics (DRO) (GC)

Diesel Range Organics (DRO) (GC)

Deionized Water Leaching Procedure

Anions, Ion Chromatography

Closed System Purge and Trap

Job ID: 890-4314-1

SDG: 03C1558188

Protocol	Laboratory
Protocol	Laboratory
SW846	EET MID
TAL SOP	EET MID
SW846	EET MID
SW846	EET MID
EPA	EET MID
SW846	EET MID

EET MID

EET MID

SW846

ASTM

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

Microextraction

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Carlsbad

Released to Imaging: 10/2/2024 3:08:23 PM

Sample Summary

Client: Ensolum

Project/Site: PLU 13 Dogtown Draw Battery

Job ID: 890-4314-1

SDG: 03C1558188

330100	

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4314-1	SS03	Solid	03/14/23 10:30	03/15/23 11:53	0.5
890-4314-2	SS04	Solid	03/14/23 10:40	03/15/23 11:53	0.5
890-4314-3	SS05	Solid	03/14/23 10:45	03/15/23 11:53	0.5
890-4314-4	SS06	Solid	03/14/23 10:50	03/15/23 11:53	0.5

Relinquished by: (Signature)

5

3.15.23

 $\bar{\bar{\sigma}}$

Date/Time

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Revised Date: 08/25/2020 Rev. 2020.2

Received by: (Signature)

eurofins Xenco **Environment Testing**

Chain of Custody

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, Carlsba Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

Work Order No:

				Self Control Self
roject Manager:	Ben Belill	Bill to: (if different)	Garrett Green	
ompany Name: E	Ensolum	Company Name	XTO Energy	Program: UST/PST ☐ PRP☐ Brownfields ☐ RRC ☐ Superfund ☐
	3122 National Parks Hwy	Address:	3104 E. Green St.	
e ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220	Reporting: Level II Level III PST/UST TRRP Level IV
	303-887-2946	Email: Garrett.Green	Garrett.Green@ExxonMobil.com	Deliverables: EDD ADaPT Other:
roject Name:	PLU 13 Dogtown Draw Battery	Turn Around	ANALYSIS REQ	EQUEST Preservative Codes
roject Number:	03C1558188	Routine Rush	Pres.	None: NO DI Water: H ₂ O
roject Location:		Due Date:		Cool: Cool MeOH: Me
ampler's Name:	Connor Whitman	TAT starts the day received by		HCL: HC HNO3: HN
0#		the lab, if received by 4:30pm	rs	H ₂ S0 ₄ : H ₂ NaOH: Na
AMPLE RECEIPT	Temp Blank: Yes No	Wet ice: Yes No	0)	H ₃ PO ₄ : HP
amples Received Intact:	Yes No Th	MA	_	Nahso.: Nabis
ooler Custody Seals:	Yes No NA			Na ₂ S ₂ O ₃ ; NaSO ₃
ample Custody Seals:	Yes No NIA	- (9	_	f Custody
otal Containers:	Corrected Temperature	mperature:)15)	NaOH+Ascorbic Acid: SAPC
Sample Identification	fication Matrix Sampled	Time Depth Grab/	CHLOR TPH (80	Sample Comments
2035	< 3/M/23	1030 5 6		Incident ID:
200	~	· .		nAPP2304448906
5005	~	5 Sho!		Cost Center:
3055	4	1050 5		2191721001
				AFE:
			1	
Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe P	Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Tl Sn U V Zn
rcle Method(s) and	Metal(s) to be analyzed	LP / SPLP	RA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo	
ice: Signature of this do	ocument and relinquishment of samples const	tutes a valid purchase order from cl	tice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It	s. It assigns standard terms and conditions
service. Eurofins Xenco Service. Eurofins Xenco	will be liable only for the cost of samples and will be liable only for the cost of samples and	shall not assume any responsibility roiect and a charge of \$5 for each s	tice: Signature or into occument and remiquisment of samples contained and acharge of \$5 for each sample submitted to Eurofins Xenco, will be client if such losses are due to circumstances beyond the control services. Eurofins Xenco will be control services and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control services. Eurofins Xenco A minimum charge of \$50 mill be annied to each growth and submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	are due to circumstances beyond the control
THE RESERVE AND ADDRESS OF THE PARTY OF THE	The state of the s	The state of the s	The second of th	is the contract and the state of the state o

SAMPLE RECEIPT

Sampler's Name:

Project Number Project Location:

Project Name:

Phone:

City, State ZIP:

ddress:

Company Name:

Project Manager:

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4314-1 SDG Number: 03C1558188

Login Number: 4314 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

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

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4314-1 SDG Number: 03C1558188

> **List Source: Eurofins Midland** List Creation: 03/16/23 10:28 AM

List Number: 2 Creator: Rodriguez, Leticia

Login Number: 4314

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

<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill

Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 4/4/2023 2:55:09 PM

JOB DESCRIPTION

PLU 13 Dogtown Battery SDG NUMBER 03C1558188

JOB NUMBER

890-4315-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated 4/4/2023 2:55:09 PM

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

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

Released to Imaging: 10/2/2024 3:08:23 PM Page 2 of 23 4/4/2023

1

5

6

1

0

10

12

13

14

Client: Ensolum
Project/Site: PLU 13 Dogtown Battery

Laboratory Job ID: 890-4315-1
SDG: 03C1558188

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Definitions/Glossary

Job ID: 890-4315-1 Client: Ensolum Project/Site: PLU 13 Dogtown Battery

SDG: 03C1558188

Qualifiers

GC VOA

Qualifier **Qualifier Description** S1+

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

GC Semi VOA

Qualifier **Qualifier Description**

*+ LCS and/or LCSD is outside acceptance limits, high biased. S1+ Surrogate recovery exceeds control limits, high biased. Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

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

Listed under the "D" column to designate that the result is reported on a dry weight basis %R Percent Recovery

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

DFR Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

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

Decision Level Concentration (Radiochemistry) DLC

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

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

Method Detection Limit MDL 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

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

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Project/Site: PLU 13 Dogtown Battery

Job ID: 890-4315-1

SDG: 03C1558188

Job ID: 890-4315-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4315-1

Receipt

The samples were received on 3/15/2023 11:53 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS01 (890-4315-1) and SS02 (890-4315-2).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: SS01 (890-4315-1) and SS02 (890-4315-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method 8015MOD NM: The surrogate recovery for the blank associated with preparation batch 880-48884 and analytical batch 880-48908 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-48884/2-A) and (LCSD 880-4884/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: SS01 (890-4315-1) and SS02 (890-4315-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: The laboratory control sample (LCS) associated with preparation batch 880-48884 and analytical batch 880-48908 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SS02 (890-4315-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

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

Matrix: Solid

Job ID: 890-4315-1 SDG: 03C1558188

Project/Site: PLU 13 Dogtown Battery

Client Sample ID: SS01 Lab Sample ID: 890-4315-1 Date Collected: 03/14/23 10:05 Date Received: 03/15/23 11:53

Sample Depth: 0.5

Client: Ensolum

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	3.33		2.01	mg/Kg		03/26/23 17:10	03/27/23 03:01	1000
Toluene	75.9		2.01	mg/Kg		03/26/23 17:10	03/27/23 03:01	1000
Ethylbenzene	10.6		2.01	mg/Kg		03/26/23 17:10	03/27/23 03:01	1000
m-Xylene & p-Xylene	200		4.02	mg/Kg		03/26/23 17:10	03/27/23 03:01	1000
o-Xylene	44.8		2.01	mg/Kg		03/26/23 17:10	03/27/23 03:01	1000
Xylenes, Total	245		4.02	mg/Kg		03/26/23 17:10	03/27/23 03:01	1000
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	153	S1+	70 - 130			03/26/23 17:10	03/27/23 03:01	1000
1,4-Difluorobenzene (Surr)	100		70 - 130			03/26/23 17:10	03/27/23 03:01	1000
Method: TAL SOP Total BTEX	- Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	335		4.02	mg/Kg			03/27/23 10:33	1
Analyte Total TPH Mothod: SW845 8045P NM Di	15900	Qualifier	50.0 RL	mg/Kg		Prepared	Analyzed 04/04/23 15:41	Dil Fac
Method: SW846 8015B NM - Di		NICS (DRO) Qualifier	• •	11	_	Duamanad	Amalumad	Dil Fee
Analyte Consider		Qualifier	RL 50.0	Unit	D	Prepared 03/18/23 09:50	Analyzed 03/19/23 19:06	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	7690		50.0	mg/Kg		03/16/23 09.50	03/19/23 19.06	
Diesel Range Organics (Over C10-C28)	7400	*+	50.0	mg/Kg		03/18/23 09:50	03/19/23 19:06	1
Oll Range Organics (Over C28-C36)	794		50.0	mg/Kg		03/18/23 09:50	03/19/23 19:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	327	S1+	70 - 130			03/18/23 09:50	03/19/23 19:06	1
o-Terphenyl	127		70 - 130			03/18/23 09:50	03/19/23 19:06	1
Method: EPA 300.0 - Anions, Id	on Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	44.9		4.97	mg/Kg			03/25/23 15:08	1

Client Sample ID: SS02 Lab Sample ID: 890-4315-2 Matrix: Solid

Date Collected: 03/14/23 10:10 Date Received: 03/15/23 11:53

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2.04		2.00	mg/Kg		03/26/23 17:10	03/27/23 03:21	1000
Toluene	62.7		2.00	mg/Kg		03/26/23 17:10	03/27/23 03:21	1000
Ethylbenzene	5.52		2.00	mg/Kg		03/26/23 17:10	03/27/23 03:21	1000
m-Xylene & p-Xylene	196		4.01	mg/Kg		03/26/23 17:10	03/27/23 03:21	1000
o-Xylene	44.8		2.00	mg/Kg		03/26/23 17:10	03/27/23 03:21	1000
Xylenes, Total	241		4.01	mg/Kg		03/26/23 17:10	03/27/23 03:21	1000

Matrix: Solid

Lab Sample ID: 890-4315-2

03/25/23 15:22

84.8

Client: Ensolum Job ID: 890-4315-1 Project/Site: PLU 13 Dogtown Battery SDG: 03C1558188

Client Sample ID: SS02

Date Collected: 03/14/23 10:10 Date Received: 03/15/23 11:53

Sample Depth: 0.5

Chloride

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130			03/26/23 17:10	03/27/23 03:21	1000
1,4-Difluorobenzene (Surr)	98		70 - 130			03/26/23 17:10	03/27/23 03:21	1000
Method: TAL SOP Total BTEX	- Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	311		4.01	mg/Kg			03/27/23 10:33	1
Method: SW846 8015 NM - Die:	sel Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	12200	-	250	mg/Kg			03/28/23 09:09	
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Method: SW846 8015B NM - Di	•		• •		_			
Gasoline Range Organics (GRO)-C6-C10	6600		49.9	mg/Kg		03/18/23 09:50	03/19/23 19:27	1
Diesel Range Organics (Over C10-C28)	4640		250	mg/Kg		03/24/23 16:55	03/27/23 19:18	
Oll Range Organics (Over C28-C36)	914		49.9	mg/Kg		03/18/23 09:50	03/19/23 19:27	•
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	346	S1+	70 - 130			03/18/23 09:50	03/19/23 19:27	1
o-Terphenyl	142	S1+	70 - 130			03/18/23 09:50	03/19/23 19:27	:
Method: EPA 300.0 - Anions, Id	on Chromatograp	hy - Solubl	e					

4.96

mg/Kg

Surrogate Summary

Client: Ensolum Job ID: 890-4315-1 Project/Site: PLU 13 Dogtown Battery SDG: 03C1558188

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-4308-A-5-D MS	Matrix Spike	110	92	
890-4308-A-5-E MSD	Matrix Spike Duplicate	108	89	
890-4315-1	SS01	153 S1+	100	
890-4315-2	SS02	138 S1+	98	
LCS 880-49552/1-A	Lab Control Sample	102	91	
LCSD 880-49552/2-A	Lab Control Sample Dup	111	91	
MB 880-49230/5-A	Method Blank	104	83	
MB 880-49552/5-A	Method Blank	101	81	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits
		1CO1	OTPH1	
b Sample ID	Client Sample ID	(70-130)	(70-130)	
0-4308-A-41-B MS	Matrix Spike	97	101	
0-4308-A-41-C MSD	Matrix Spike Duplicate	114	116	
0-4315-1	SS01	327 S1+	127	
0-4315-2	SS02	346 S1+	142 S1+	
0-4361-A-1-B MS	Matrix Spike	108	87	
0-4361-A-1-C MSD	Matrix Spike Duplicate	108	87	
S 880-48884/2-A	Lab Control Sample	143 S1+	172 S1+	
S 880-49457/2-A	Lab Control Sample	93	83	
SD 880-48884/3-A	Lab Control Sample Dup	170 S1+	196 S1+	
SD 880-49457/3-A	Lab Control Sample Dup	90	81	
3 880-48884/1-A	Method Blank	119	138 S1+	
8 880-49457/1-A	Method Blank	120	118	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Job ID: 890-4315-1 Client: Ensolum Project/Site: PLU 13 Dogtown Battery

SDG: 03C1558188

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-49230/5-A

Analysis Batch: 49529

Matrix: Solid

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 49230

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/22/23 15:57	03/26/23 13:07	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/22/23 15:57	03/26/23 13:07	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/22/23 15:57	03/26/23 13:07	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/22/23 15:57	03/26/23 13:07	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/22/23 15:57	03/26/23 13:07	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/22/23 15:57	03/26/23 13:07	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	03/22/23 15:57	03/26/23 13:07	1
1,4-Difluorobenzene (Surr)	83		70 - 130	03/22/23 15:57	03/26/23 13:07	1

Lab Sample ID: MB 880-49552/5-A Client Sample ID: Method Blank **Matrix: Solid**

Prep Type: Total/NA Analysis Batch: 49529 Prep Batch: 49552

MR MR

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Benzene <0.00200 U 0.00200 mg/Kg 03/26/23 17:10 03/26/23 23:54 Toluene <0.00200 U 0.00200 mg/Kg 03/26/23 17:10 03/26/23 23:54 Ethylbenzene <0.00200 U 0.00200 03/26/23 17:10 03/26/23 23:54 mg/Kg 03/26/23 23:54 m-Xylene & p-Xylene <0.00400 U 0.00400 mg/Kg 03/26/23 17:10 o-Xylene <0.00200 U 0.00200 mg/Kg 03/26/23 17:10 03/26/23 23:54 03/26/23 17:10 Xylenes, Total <0.00400 U 0.00400 03/26/23 23:54 mg/Kg

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	03/26/23 17:10	03/26/23 23:54	1
1,4-Difluorobenzene (Surr)	81		70 - 130	03/26/23 17:10	03/26/23 23:54	1

Lab Sample ID: LCS 880-49552/1-A Client Sample ID: Lab Control Sample **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 49529

o-Xylene

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.08510 mg/Kg 85 70 - 130 Toluene 0.100 0.09072 mg/Kg 91 70 - 130 Ethylbenzene 0.100 0.08643 mg/Kg 86 70 - 130 m-Xylene & p-Xylene 0.200 0.1814 mg/Kg 91 70 - 130

0.09267

mg/Kg

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	102	70 - 130
1,4-Difluorobenzene (Surr)	91	70 - 130

Lab Sample ID: LCSD 880-49552/2-A Client Sample ID: Lab Control Sample Dup

0.100

Matrix: Solid

Prep Type: Total/NA Analysis Batch: 49529 Prep Batch: 49552

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Benzene 0.100 0.08482 mg/Kg 85 70 - 130 0

Eurofins Carlsbad

Prep Batch: 49552

70 - 130

93

QC Sample Results

Client: Ensolum Job ID: 890-4315-1 SDG: 03C1558188 Project/Site: PLU 13 Dogtown Battery

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

Lab Sample ID: LCSD 880-49552/2-A

Matrix: Solid

Analysis Batch: 49529

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 49552

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.09222		mg/Kg		92	70 - 130	2	35
Ethylbenzene	0.100	0.09247		mg/Kg		92	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.1967		mg/Kg		98	70 - 130	8	35
o-Xylene	0.100	0.1003		mg/Kg		100	70 - 130	8	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: 890-4308-A-5-D MS

Matrix: Solid

Analysis Batch: 49529

Client Sample	ID: Matrix Spike
Pre	p Type: Total/NA

Prep Batch: 49552

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.0998	0.08721		mg/Kg		87	70 - 130	
Toluene	<0.00200	U	0.0998	0.09370		mg/Kg		94	70 - 130	
Ethylbenzene	<0.00200	U	0.0998	0.09186		mg/Kg		92	70 - 130	
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1944		mg/Kg		97	70 - 130	
o-Xylene	<0.00200	U	0.0998	0.09918		mg/Kg		99	70 - 130	

MS MS

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

Lab Sample ID: 890-4308-A-5-E MSD

Matrix: Solid

Analysis Batch: 49529

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 49552

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.100	0.08641		mg/Kg		86	70 - 130	1	35
Toluene	<0.00200	U	0.100	0.09289		mg/Kg		93	70 - 130	1	35
Ethylbenzene	<0.00200	U	0.100	0.09261		mg/Kg		92	70 - 130	1	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1961		mg/Kg		98	70 - 130	1	35
o-Xylene	<0.00200	U	0.100	0.09979		mg/Kg		100	70 - 130	1	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	89		70 - 130

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

Lab Sample ID: MB 880-48884/1-A

Matrix: Solid

Analysis Batch: 48908

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

Prep Batch: 48884

мв мв Result Qualifier Unit Prepared Gasoline Range Organics <50.0 U 50.0 mg/Kg 03/18/23 09:50 03/19/23 08:52 (GRO)-C6-C10

Eurofins Carlsbad

Released to Imaging: 10/2/2024 3:08:23 PM

Client: Ensolum

Project/Site: PLU 13 Dogtown Battery

Job ID: 890-4315-1

SDG: 03C1558188

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

Lab Sample ID: MB 880-48884/1-A

Lab Sample ID: LCS 880-48884/2-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 48908

Analysis Batch: 48908

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 48884

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		03/18/23 09:50	03/19/23 08:52	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/18/23 09:50	03/19/23 08:52	1

MB MB

MR MR

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130	03/18/23 09:50	03/19/23 08:52	1
o-Terphenyl	138	S1+	70 - 130	03/18/23 09:50	03/19/23 08:52	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 48884

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 1075 mg/Kg 107 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 1000 1126 113 70 - 130 mg/Kg C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	143	S1+	70 - 130
o-Terphenyl	172	S1+	70 - 130

Lab Sample ID: LCSD 880-48884/3-A

Matrix: Solid

Analysis Batch: 48908

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

Prep Batch: 48884

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	1000	1003		mg/Kg		100	70 - 130	7	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	1352	*+	mg/Kg		135	70 - 130	18	20	
040 000)										

C10-C28)

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	170	S1+	70 - 130
o-Terphenyl	196	S1+	70 - 130

Lab Sample ID: 890-4308-A-41-B MS

Matrix: Solid

Analysis Batch: 48908

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 48884

	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	998	897.9		mg/Kg		88	70 - 130	
Diesel Range Organics (Over	<49.9	U *+	998	950.3		mg/Kg		93	70 - 130	

C10-C28)

	IVIS	IVIS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	101		70 - 130

Project/Site: PLU 13 Dogtown Battery

Client: Ensolum

Job ID: 890-4315-1

SDG: 03C1558188

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

Lab Sample ID: 890-4308-A-41-C MSD

Matrix: Solid

Analysis Batch: 48908

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 48884

Sample Sample Spike MSD MSD RPD Result Qualifier RPD Limit Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics <49.9 U 999 1048 mg/Kg 103 70 - 130 15 20 (GRO)-C6-C10 999 Diesel Range Organics (Over <49.9 U*+ 1099 mg/Kg 108 70 - 130 15

C10-C28)

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	114		70 - 130
o-Terphenyl	116		70 - 130

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 49457

Lab Sample ID: MB 880-49457/1-A

Matrix: Solid

Analysis Batch: 49559

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		03/24/23 16:55	03/27/23 08:47	
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		03/24/23 16:55	03/27/23 08:47	
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/24/23 16:55	03/27/23 08:47	

MB MB

мв мв

Surrogate	%Recovery Quality	ifier Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	120	70 - 130	03/24/23 16:55	03/27/23 08:47	1
o-Terphenyl	118	70 - 130	03/24/23 16:55	03/27/23 08:47	1

Lab Sample ID: LCS 880-49457/2-A

Matrix: Solid

Analysis Batch: 49559

Client 9	Sample	ID: I	Lab	Control	Sample
----------	--------	-------	-----	---------	--------

Prep Type: Total/NA

Prep Batch: 49457

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1022		mg/Kg		102	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	876.8		mg/Kg		88	70 - 130	
C10-C28)								

LCS LCS

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	93	70 - 130
o-Terphenyl	83	70 - 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 49559

Lab Sample ID: LCSD 880-49457/3-A

Prep Type: Total/NA Prep Batch: 49457

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	861.9		mg/Kg		86	70 - 130	17	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	864.3		mg/Kg		86	70 - 130	1	20
C10-C28)									

Job ID: 890-4315-1

Client: Ensolum Project/Site: PLU 13 Dogtown Battery SDG: 03C1558188

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

Lab Sample ID: LCSD 880-49457/3-A

Matrix: Solid

Analysis Batch: 49559

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 49457

Prep Type: Total/NA

Prep Batch: 49457

LCSD LCSD %Recovery Qualifier Surrogate Limits 1-Chlorooctane 90 70 - 130 o-Terphenyl 81 70 - 130

Lab Sample ID: 890-4361-A-1-B MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 49559

Prep Type: Total/NA Prep Batch: 49457

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	1038		mg/Kg		100	70 - 130	
Diesel Range Organics (Over C10-C28)	<50.0	U	997	721.8		mg/Kg		70	70 - 130	

MS MS Surrogate %Recovery Qualifier Limits 108 70 - 130 1-Chlorooctane o-Terphenyl 87 70 - 130

Lab Sample ID: 890-4361-A-1-C MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 49559

C10-C28)

	Sample	Sample	Spike	MSD	MSD				%Rec	•	RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	1062		mg/Kg		102	70 - 130	2	20
Diesel Range Organics (Over	<50.0	U	998	727.0		mg/Kg		70	70 - 130	1	20

MSD MSD %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 108 o-Terphenyl 87 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-49263/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 49472

7 many old Battorn 10 17 E								
	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			03/25/23 14:27	1

Lab Sample ID: LCS 880-49263/2-A **Client Sample ID: Lab Control Sample** Matrix: Solid **Prep Type: Soluble**

Analysis Batch: 49472

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	242.2		mg/Kg	_	97	90 - 110	

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4/4/2023

QC Sample Results

Client: Ensolum Job ID: 890-4315-1 Project/Site: PLU 13 Dogtown Battery

SDG: 03C1558188

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-49263/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 49472

	S	pike	LCSD	LCSD				%Rec		RPD	
Analyte	Ad	dded	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride		250	249.0		mg/Kg		100	90 - 110	3	20	

Lab Sample ID: 890-4314-A-1-C MS Client Sample ID: Matrix Spike **Matrix: Solid**

Prep Type: Soluble

Analysis Batch: 49472 Sample Sample Spike MS MS %Rec

Result Qualifier Added Analyte Result Qualifier Unit D %Rec Limits Chloride 40.8 250 273.9 mg/Kg 93 90 - 110

Lab Sample ID: 890-4314-A-1-D MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Prep Type: Soluble

Analysis Batch: 49472

MSD MSD %Rec RPD Sample Sample Spike Result Qualifier Analyte Added Result Qualifier Unit Limits **RPD** Limit Chloride 40.8 250 281.3 90 - 110 20 mg/Kg

Client: Ensolum

Project/Site: PLU 13 Dogtown Battery

Job ID: 890-4315-1 SDG: 03C1558188

GC VOA

Prep Batch: 49230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-49230/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 49529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4315-1	SS01	Total/NA	Solid	8021B	49552
890-4315-2	SS02	Total/NA	Solid	8021B	49552
MB 880-49230/5-A	Method Blank	Total/NA	Solid	8021B	49230
MB 880-49552/5-A	Method Blank	Total/NA	Solid	8021B	49552
LCS 880-49552/1-A	Lab Control Sample	Total/NA	Solid	8021B	49552
LCSD 880-49552/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	49552
890-4308-A-5-D MS	Matrix Spike	Total/NA	Solid	8021B	49552
890-4308-A-5-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	49552

Prep Batch: 49552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4315-1	SS01	Total/NA	Solid	5035	
890-4315-2	SS02	Total/NA	Solid	5035	
MB 880-49552/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-49552/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-49552/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4308-A-5-D MS	Matrix Spike	Total/NA	Solid	5035	
890-4308-A-5-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 49602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4315-1	SS01	Total/NA	Solid	Total BTEX	
890-4315-2	SS02	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 48884

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4315-1	SS01	Total/NA	Solid	8015NM Prep	
890-4315-2	SS02	Total/NA	Solid	8015NM Prep	
MB 880-48884/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-48884/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-48884/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4308-A-41-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4308-A-41-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 48908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4315-1	SS01	Total/NA	Solid	8015B NM	48884
890-4315-2	SS02	Total/NA	Solid	8015B NM	48884
MB 880-48884/1-A	Method Blank	Total/NA	Solid	8015B NM	48884
LCS 880-48884/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	48884
LCSD 880-48884/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	48884
890-4308-A-41-B MS	Matrix Spike	Total/NA	Solid	8015B NM	48884
890-4308-A-41-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	48884

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Client: Ensolum

Project/Site: PLU 13 Dogtown Battery

Job ID: 890-4315-1 SDG: 03C1558188

2

GC Semi VOA

Prep Batch: 49457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4315-2	SS02	Total/NA	Solid	8015NM Prep	
MB 880-49457/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-49457/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-49457/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4361-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4361-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 49559

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4315-2	SS02	Total/NA	Solid	8015B NM	49457
MB 880-49457/1-A	Method Blank	Total/NA	Solid	8015B NM	49457
LCS 880-49457/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	49457
LCSD 880-49457/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	49457
890-4361-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	49457
890-4361-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	49457

Analysis Batch: 49695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4315-1	SS01	Total/NA	Solid	8015 NM	
890-4315-2	SS02	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 49263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4315-1	SS01	Soluble	Solid	DI Leach	
890-4315-2	SS02	Soluble	Solid	DI Leach	
MB 880-49263/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-49263/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-49263/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4314-A-1-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-4314-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 49472

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4315-1	SS01	Soluble	Solid	300.0	49263
890-4315-2	SS02	Soluble	Solid	300.0	49263
MB 880-49263/1-A	Method Blank	Soluble	Solid	300.0	49263
LCS 880-49263/2-A	Lab Control Sample	Soluble	Solid	300.0	49263
LCSD 880-49263/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	49263
890-4314-A-1-C MS	Matrix Spike	Soluble	Solid	300.0	49263
890-4314-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	49263

Project/Site: PLU 13 Dogtown Battery

Client: Ensolum

Client Sample ID: SS01

Date Collected: 03/14/23 10:05 Date Received: 03/15/23 11:53

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	49552	03/26/23 17:10	MNR	EET MID
Total/NA	Analysis	8021B		1000	5 mL	5 mL	49529	03/27/23 03:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49602	03/27/23 10:33	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49695	04/04/23 15:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48884	03/18/23 09:50	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48908	03/19/23 19:06	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	49263	03/22/23 22:04	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49472	03/25/23 15:08	SMC	EET MID

Client Sample ID: SS02

Date Collected: 03/14/23 10:10

Lab Sample ID: 890-4315-2

Matrix: Solid

Date Received: 03/15/23 11:53

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	49552	03/26/23 17:10	MNR	EET MID
Total/NA	Analysis	8021B		1000	5 mL	5 mL	49529	03/27/23 03:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49602	03/27/23 10:33	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49695	03/28/23 09:09	SM	EET MIC
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49457	03/24/23 16:55	AJ	EET MIC
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	49559	03/27/23 19:18	SM	EET MIC
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48884	03/18/23 09:50	AJ	EET MIC
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48908	03/19/23 19:27	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	49263	03/22/23 22:04	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49472	03/25/23 15:22	SMC	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-4315-1 Project/Site: PLU 13 Dogtown Battery

SDG: 03C1558188

Laboratory: Eurofins Midland

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

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-22-25	06-30-23
The following analytes the agency does not of	• •	it the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes fo
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	

Method Summary

Client: Ensolum

Project/Site: PLU 13 Dogtown Battery

Job ID: 890-4315-1

SDG: 03C1558188

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

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Sample Summary

Client: Ensolum

Project/Site: PLU 13 Dogtown Battery

Job ID: 890-4315-1

SDG: 03C1558188

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	De
890-4315-1	SS01	Solid	03/14/23 10:05	03/15/23 11:53	0.5
890-4315-2	SS02	Solid	03/14/23 10:10	03/15/23 11:53	0.5

eurofins Ensolum 3122 National Parks Hwy Ben Belill Carlsbad, NM 88220 Xenco **Environment Testing** Email: |Garrett.Green@ExxonMobil.com Company Name City, State ZIP: Bill to: (if different) 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 Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Chain of Custody XTO Energy Carlsbad, NM 88220 3104 E. Green St Garrett Green Deliverables: EDD Reporting: Level II 🗌 Level III 🗎 PST/UST 📗 TRRP 📗 State of Project: Program: UST/PST ☐ PRP☐ Brownfields ☐ RRC ☐ Superfund ☐ Work Order No:

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Work Order Comments

ADaPT 🗆

Other

Level IV

City, State ZIP:

Company Name: Project Manager:

Phone: 303	303-887-2946	Email: Garrett.Green@ExxonMobil.com	n@ExxonMobil.c	om	Deliveracies, EDD L	Conc.	
Project Name:	PLU 13 Dogtown Draw Battery	Turn Around		ANALYSIS REQUEST	EQUEST	Preservative Codes	e Codes
ň	03C1558188	✓ Routine ☐ Rush	Code			None: NO	DI Water: H ₂ O
Project Location:		Due Date:				Cool: Cool N	MeOH: Me
Sampler's Name:	Connor Whitman	TAT starts the day received by	y				HNO3: HN
PO#.		the lab, if received by 4:30pm	L_			H ₂ SO ₄ : H ₂	NaOH: Na
SAMPLE RECEIPT	Temp Blank: (Yes No	Wet Ice: (Yes No	nete			H₃PO₄: HP	
Samples Received Intact:	Yes No Th	D. Thomas				NaHSO ₄ : NABIS	
Cooler Custody Seals:	Yes No NIA	,				Na ₂ S ₂ O ₃ : NaSO ₃	
Sample Custody Seals:		eading:	(EF	800-4315 Chain	of Custody	Zn Acetate+NaOH: Zn	Zn
Total Containers:		perature: (C		8021		NaOH+Ascorbic Acid: SAPC	cid: SAPC
Sample Identification	ation Matrix Date	Time Depth Grab/	CO # Of CHLOR	BTEX (I		Sample Comments	mments
035	(6/41/6 5	1005 J 6	- /			Incident ID:	
\$<02	14/22	۲,				nAPP2304448906	448906
						Cost Center:	
						2191721001	1001
						AFE:	
		/					
		/	1				
			\ \{\\{\\\}				
Total 200.7 / 6010		8RCRA 13PPM Texas 11	•	Cd Ca Cr Co Cu Fe I	Mo Ni Sa An Till Ho	Se Ac Till Ho: 1631 / 245 1 / 7470 / 7471	171
Circle Method(s) and N	Circle Method(s) and Metal(s) to be analyzed	TCLP / SPLP 6010: BRCKA	KCKA SD AS BA BE	Sa Be Co Cr Co Cu Po Mil N	Alo IAI Oc VA II O	ig. Ioon Ero.	
otice: Signature of this docur f service. Eurofins Xenco wil	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85,00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiat	ites a valid purchase order from hall not assume any responsibil bject and a charge of \$5 for eac	client company to Eur ty for any losses or ex sample submitted to I	ofins Xenco, its affiliates and subcontractor penses incurred by the client if such losses Eurofins Xenco, but not analyzed. These ten	rs. It assigns standard terms and conditions sare due to circumstances beyond the control rms will be enforced unless previously negotiated.	tions ontrol egotiated.	
Relinquished by: (Signature)	signature) / Received	Received by: (Signature)	Date/Time	ne Relinquished by: (Signature)	nature) Received by: (Signature)		Date/Time
Citat	Mot	8	3.15.23	21)			
				σ -			
			-			Revised Date 0	Revised Date 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

 Client: Ensolum
 Job Number: 890-4315-1

 SDG Number: 03C1558188

Login Number: 4315 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

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

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Released to Imaging: 10/2/2024 3:08:23 PM

Login Sample Receipt Checklist

Job Number: 890-4315-1 SDG Number: 03C1558188

Login Number: 4315
List Source: Eurofins Midland
List Number: 2
List Creation: 03/16/23 10:28 AM

Creator: Rodriguez, Leticia

Client: Ensolum

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

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<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Tacoma Morrissey Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701

Generated 4/10/2023 5:08:34 PM

JOB DESCRIPTION

PLU 13 DTD Battery SDG NUMBER 03C1558188

JOB NUMBER

890-4428-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Released to Imaging: 10/2/2024 3:08:23 PM

Eurofins Carlsbad

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated 4/10/2023 5:08:34 PM

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

Client: Ensolum
Project/Site: PLU 13 DTD Battery

Laboratory Job ID: 890-4428-1
SDG: 03C1558188

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Definitions/Glossary

Client: Ensolum Job ID: 890-4428-1 Project/Site: PLU 13 DTD Battery

SDG: 03C1558188

Qualifiers

GC VOA Qualifier

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

Qualifier Description

GC Semi VOA

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

HPLC/IC

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

Glossary

QC

RER

RPD

TEF

TEQ TNTC

RL

Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
n	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
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

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Quality Control

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin)

Too Numerous To Count

Reporting Limit or Requested Limit (Radiochemistry)

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

Case Narrative

Client: Ensolum

Project/Site: PLU 13 DTD Battery

Job ID: 890-4428-1 SDG: 03C1558188

Job ID: 890-4428-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4428-1

Receipt

The samples were received on 3/28/2023 3:40 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-50536 and analytical batch 880-50769 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: BH01A (890-4428-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-50046/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: BH01A (890-4428-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-50418 and analytical batch 880-50614 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.BH01A (890-4428-1), BH01B (890-4428-2), BH01C (890-4428-3), BH02A (890-4428-4), BH02B (890-4428-5), BH02C (890-4428-6), (880-26530-A-11-B), (880-26530-A-11-C MS) and (880-26530-A-11-D MSD)

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

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Eurofins Carlsbad 4/10/2023

Job ID: 890-4428-1

SDG: 03C1558188

Project/Site: PLU 13 DTD Battery Client Sample ID: BH01A

Client: Ensolum

Date Collected: 03/28/23 11:00 Date Received: 03/28/23 15:40

Lab Sample ID: 890-4428-1

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.495	U	0.495	mg/Kg		04/10/23 09:30	04/10/23 14:39	250
Toluene	10.2		0.495	mg/Kg		04/10/23 09:30	04/10/23 14:39	250
Ethylbenzene	7.48		0.495	mg/Kg		04/10/23 09:30	04/10/23 14:39	250
m-Xylene & p-Xylene	49.4		0.990	mg/Kg		04/10/23 09:30	04/10/23 14:39	250
o-Xylene	10.9		0.495	mg/Kg		04/10/23 09:30	04/10/23 14:39	250
Xylenes, Total	60.3		0.990	mg/Kg		04/10/23 09:30	04/10/23 14:39	250
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	154	S1+	70 - 130			04/10/23 09:30	04/10/23 14:39	250
1,4-Difluorobenzene (Surr)	120		70 - 130			04/10/23 09:30	04/10/23 14:39	250
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	78.0		0.990	mg/Kg			04/10/23 17:51	1
Method: SW846 8015 NM - Diese	al Range Organ	ics (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	7050		49.8	mg/Kg			04/03/23 10:23	1
Method: SW846 8015B NM - Die:	sel Range Orga	nics (DRO)	(GC)					
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	4020		49.8	mg/Kg		03/31/23 14:28	04/02/23 03:14	1
(GRO)-C6-C10								
Diesel Range Organics (Over C10-C28)	3030		49.8	mg/Kg		03/31/23 14:28	04/02/23 03:14	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		03/31/23 14:28	04/02/23 03:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	146	S1+	70 - 130			03/31/23 14:28	04/02/23 03:14	1
o-Terphenyl	101		70 - 130			03/31/23 14:28	04/02/23 03:14	1
Method: EPA 300.0 - Anions, Ion	Chromatogran	hy - Solubl	e					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: BH01B Lab Sample ID: 890-4428-2 Date Collected: 03/28/23 11:10 **Matrix: Solid**

4.99

mg/Kg

Date Received: 03/28/23 15:40

Chloride

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

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Method: SW846 8021B - Volati	le Organic Comp	ounds (GC))					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/05/23 16:50	04/07/23 02:25	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/05/23 16:50	04/07/23 02:25	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/05/23 16:50	04/07/23 02:25	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		04/05/23 16:50	04/07/23 02:25	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/05/23 16:50	04/07/23 02:25	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		04/05/23 16:50	04/07/23 02:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
		Qualifier						Dirrac
4-Bromofluorobenzene (Surr)	97		70 - 130			04/05/23 16:50	04/07/23 02:25	1
1,4-Difluorobenzene (Surr)	105		70 - 130			04/05/23 16:50	04/07/23 02:25	1

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04/07/23 04:46

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Job ID: 890-4428-1 Client: Ensolum Project/Site: PLU 13 DTD Battery SDG: 03C1558188

Client Sample ID: BH01B Lab Sample ID: 890-4428-2

Date Collected: 03/28/23 11:10 Matrix: Solid Date Received: 03/28/23 15:40

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			04/07/23 18:40	1
Method: SW846 8015 NM - Diesel	Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	171		50.0	mg/Kg			04/03/23 10:23	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	59.2		50.0	mg/Kg		03/31/23 14:28	04/02/23 03:35	1
(GRO)-C6-C10								
Diesel Range Organics (Over	112		50.0	mg/Kg		03/31/23 14:28	04/02/23 03:35	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/31/23 14:28	04/02/23 03:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130			03/31/23 14:28	04/02/23 03:35	1
o-Terphenyl	97		70 - 130			03/31/23 14:28	04/02/23 03:35	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	84.2	-	4.98	mg/Kg			04/07/23 04:51	

Client Sample ID: BH01C Lab Sample ID: 890-4428-3

Date Collected: 03/28/23 12:15 **Matrix: Solid** Date Received: 03/28/23 15:40

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00201	U	0.00201	mg/Kg		04/05/23 16:50	04/07/23 02:46	
Toluene	<0.00201	U	0.00201	mg/Kg		04/05/23 16:50	04/07/23 02:46	
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		04/05/23 16:50	04/07/23 02:46	
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		04/05/23 16:50	04/07/23 02:46	
o-Xylene	<0.00201	U	0.00201	mg/Kg		04/05/23 16:50	04/07/23 02:46	
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		04/05/23 16:50	04/07/23 02:46	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	97		70 - 130			04/05/23 16:50	04/07/23 02:46	
1,4-Difluorobenzene (Surr)	104		70 - 130			04/05/23 16:50	04/07/23 02:46	
Method: TAL SOP Total BTEX	- Total BTEX Cald	culation Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Method: TAL SOP Total BTEX	- Total BTEX Cald			Unit	D			Dil Fa
·	- Total BTEX Cald	Qualifier		<mark>Unit</mark> mg/Kg	<u>D</u>			Dil Fa
Method: TAL SOP Total BTEX Analyte Total BTEX	- Total BTEX Calc Result <0.00402	Qualifier U	RL 0.00402		<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte	- Total BTEX Calc Result <0.00402 esel Range Organ	Qualifier U	RL 0.00402		<u>D</u>		Analyzed	,
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die	- Total BTEX Calc Result <0.00402 esel Range Organ	Qualifier U ics (DRO) (Qualifier	RL 0.00402	mg/Kg		Prepared	Analyzed 04/07/23 18:40	,
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte	- Total BTEX Calc Result <0.00402 esel Range Organ Result <49.9	Qualifier U ics (DRO) (Qualifier U	RL 0.00402 GC) RL 49.9	mg/Kg		Prepared	Analyzed 04/07/23 18:40 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH	- Total BTEX Calc Result <0.00402 esel Range Organ Result <49.9 iesel Range Orga	Qualifier U ics (DRO) (Qualifier U	RL 0.00402 GC) RL 49.9	mg/Kg		Prepared	Analyzed 04/07/23 18:40 Analyzed	
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - Die	- Total BTEX Calc Result <0.00402 esel Range Organ Result <49.9 iesel Range Orga	Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier	RL 0.00402 GC) RL 49.9	mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 04/07/23 18:40 Analyzed 04/03/23 10:23	Dil Fa

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Client: Ensolum Job ID: 890-4428-1 Project/Site: PLU 13 DTD Battery

SDG: 03C1558188

Client Sample ID: BH01C

Lab Sample ID: 890-4428-3

Matrix: Solid

Date Collected: 03/28/23 12:15 Date Received: 03/28/23 15:40

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/31/23 14:28	04/02/23 03:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130			03/31/23 14:28	04/02/23 03:55	1
o-Terphenyl	96		70 - 130			03/31/23 14:28	04/02/23 03:55	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Chloride 5.02 04/07/23 04:56 92.1 mg/Kg

Client Sample ID: BH02A Lab Sample ID: 890-4428-4

Date Collected: 03/28/23 11:55 **Matrix: Solid**

Date Received: 03/28/23 15:40

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00198	U	0.00198	mg/Kg		04/05/23 16:50	04/07/23 03:06	
Toluene	0.00291		0.00198	mg/Kg		04/05/23 16:50	04/07/23 03:06	
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		04/05/23 16:50	04/07/23 03:06	
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		04/05/23 16:50	04/07/23 03:06	
o-Xylene	<0.00198	U	0.00198	mg/Kg		04/05/23 16:50	04/07/23 03:06	
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		04/05/23 16:50	04/07/23 03:06	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	103		70 - 130			04/05/23 16:50	04/07/23 03:06	
1,4-Difluorobenzene (Surr)	92		70 - 130			04/05/23 16:50	04/07/23 03:06	
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	< 0.00396	U	0.00396	mg/Kg			04/07/23 18:40	
			•		_			D.11 E
Method: SW846 8015 NM - Diese Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fa
		Qualifier	•	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 04/03/23 10:23	Dil Fa
Analyte	Result <49.9	Qualifier U	RL 49.9		<u>D</u>	Prepared		Dil Fa
Analyte Total TPH	Result <49.9 sel Range Orga Result	Qualifier Unics (DRO) Qualifier	RL 49.9		<u>D</u>	Prepared Prepared		
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics	Result <49.9	Qualifier Unics (DRO) Qualifier	RL 49.9	mg/Kg		· · · · · ·	04/03/23 10:23	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9 Sel Range Orga Result <49.9	Qualifier U nics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9	mg/Kg Unit mg/Kg		Prepared 03/31/23 14:28	04/03/23 10:23 Analyzed 04/02/23 04:15	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U	RL 49.9 (GC)	mg/Kg		Prepared	04/03/23 10:23 Analyzed	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics	Result <49.9 Sel Range Orga Result <49.9	Qualifier U nics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9	mg/Kg Unit mg/Kg		Prepared 03/31/23 14:28	04/03/23 10:23 Analyzed 04/02/23 04:15	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	sel Range Orga Result <49.9 49.9 49.9 49.9	Qualifier U nics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/31/23 14:28 03/31/23 14:28	04/03/23 10:23 Analyzed 04/02/23 04:15 04/02/23 04:15	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9	Qualifier U nics (DRO) Qualifier U U	RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/31/23 14:28 03/31/23 14:28 03/31/23 14:28	04/03/23 10:23 Analyzed 04/02/23 04:15 04/02/23 04:15	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result	Qualifier U nics (DRO) Qualifier U U	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/31/23 14:28 03/31/23 14:28 03/31/23 14:28 Prepared	04/03/23 10:23 Analyzed 04/02/23 04:15 04/02/23 04:15 04/02/23 04:15 Analyzed	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result <49.9	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/31/23 14:28 03/31/23 14:28 03/31/23 14:28 Prepared 03/31/23 14:28	04/03/23 10:23 Analyzed 04/02/23 04:15 04/02/23 04:15 Analyzed 04/02/23 04:15	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/31/23 14:28 03/31/23 14:28 03/31/23 14:28 Prepared 03/31/23 14:28	04/03/23 10:23 Analyzed 04/02/23 04:15 04/02/23 04:15 Analyzed 04/02/23 04:15	Dil Fa

Job ID: 890-4428-1

Client: Ensolum Project/Site: PLU 13 DTD Battery SDG: 03C1558188

Client Sample ID: BH02B Lab Sample ID: 890-4428-5

Date Collected: 03/28/23 13:20 Matrix: Solid

Date Received: 03/28/23 15:40

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		04/05/23 16:50	04/07/23 03:27	1
Toluene	< 0.00199	U	0.00199	mg/Kg		04/05/23 16:50	04/07/23 03:27	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		04/05/23 16:50	04/07/23 03:27	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/05/23 16:50	04/07/23 03:27	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		04/05/23 16:50	04/07/23 03:27	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/05/23 16:50	04/07/23 03:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130			04/05/23 16:50	04/07/23 03:27	1
1,4-Difluorobenzene (Surr)	107		70 - 130			04/05/23 16:50	04/07/23 03:27	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			04/07/23 18:40	1
-				mg/kg			04/01/20 10.40	·
Method: SW846 8015 NM - Diese Analyte	el Range Organ			Unit	D	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (C	GC)		<u>D</u>	Prepared		Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH	Result <49.9	ics (DRO) (0 Qualifier	RL 49.9	Unit	<u>D</u>	Prepared	Analyzed	
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies	el Range Organ Result <49.9 sel Range Organ	ics (DRO) (0 Qualifier	RL 49.9	Unit	<u>D</u>	Prepared Prepared	Analyzed	
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte	el Range Organ Result <49.9 sel Range Organ	ics (DRO) (CQualifier Unics (DRO)) Qualifier	RL 49.9 (GC)	Unit mg/Kg		<u> </u>	Analyzed 04/03/23 10:23	1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	el Range Organ Result <49.9 sel Range Orga Result	ics (DRO) (CQualifier Unics (DRO)) Qualifier	RL 49.9 (GC)	Unit mg/Kg		Prepared	Analyzed 04/03/23 10:23 Analyzed	1 Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	el Range Organ Result <49.9 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U u O Qualifier U U	RL 49.9 (GC)	Unit mg/Kg		Prepared	Analyzed 04/03/23 10:23 Analyzed	1 Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	el Range Organ Result 49.9 sel Range Orga Result 49.9 <49.9	cos (DRO) (On Qualifier Unics (DRO) Qualifier Unics (DRO) Qualifier U	GC) RL 49.9 (GC) RL 49.9 49.9	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/31/23 14:28 03/31/23 14:28	Analyzed 04/03/23 10:23 Analyzed 04/02/23 04:36 04/02/23 04:36	1 Dil Fac 1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	el Range Organ Result <49.9 sel Range Orga Result <49.9	cos (DRO) (On Qualifier Unics (DRO) Qualifier Unics (DRO) Qualifier U	(GC) RL 49.9 (GC) RL 49.9	Unit mg/Kg Unit mg/Kg		Prepared 03/31/23 14:28	Analyzed 04/03/23 10:23 Analyzed 04/02/23 04:36	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	el Range Organ Result 49.9 sel Range Orga Result 49.9 <49.9	cos (DRO) (On Qualifier Unics (DRO) Qualifier Unics (DRO) Qualifier Unics Unic	GC) RL 49.9 (GC) RL 49.9 49.9 49.9 Limits	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/31/23 14:28 03/31/23 14:28 03/31/23 14:28 Prepared	Analyzed 04/03/23 10:23 Analyzed 04/02/23 04:36 04/02/23 04:36 04/02/23 04:36 Analyzed	Dil Fac 1 1 Dil Fac Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	el Range Organ Result 49.9 sel Range Orga Result 49.9 49.9 49.9	cos (DRO) (On Qualifier Unics (DRO) Qualifier Unics (DRO) Qualifier Unics Unic	GC) RL 49.9 (GC) RL 49.9 49.9 49.9	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/31/23 14:28 03/31/23 14:28 03/31/23 14:28	Analyzed 04/03/23 10:23 Analyzed 04/02/23 04:36 04/02/23 04:36	Dil Fac 1 1 Dil Fac Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	sel Range Organ Result <49.9 sel Range Orga Result <49.9 <49.9 <49.9 %Recovery	cos (DRO) (On Qualifier Unics (DRO) Qualifier Unics (DRO) Qualifier Unics Unic	GC) RL 49.9 (GC) RL 49.9 49.9 49.9 Limits	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/31/23 14:28 03/31/23 14:28 03/31/23 14:28 Prepared	Analyzed 04/03/23 10:23 Analyzed 04/02/23 04:36 04/02/23 04:36 04/02/23 04:36 Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	sel Range Organ Result <49.9 sel Range Orga Result <49.9 <49.9 <49.9 %Recovery 113 101	Company of the compan	GC) RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/31/23 14:28 03/31/23 14:28 03/31/23 14:28 Prepared 03/31/23 14:28	Analyzed 04/03/23 10:23 Analyzed 04/02/23 04:36 04/02/23 04:36 Analyzed 04/02/23 04:36	1 Dil Fac 1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	el Range Organ Result <49.9 sel Range Orga Result <49.9 <49.9 <49.9 **Recovery 113 101 Chromatograp	Company of the compan	GC) RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/31/23 14:28 03/31/23 14:28 03/31/23 14:28 Prepared 03/31/23 14:28	Analyzed 04/03/23 10:23 Analyzed 04/02/23 04:36 04/02/23 04:36 Analyzed 04/02/23 04:36	1 Dil Fac 1 Dil Fac 1

Client Sample ID: BH02C Lab Sample ID: 890-4428-6 Date Collected: 03/28/23 13:25 **Matrix: Solid**

Date Received: 03/28/23 15:40

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		04/05/23 16:50	04/07/23 03:47	1
Toluene	<0.00199	U	0.00199	mg/Kg		04/05/23 16:50	04/07/23 03:47	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/05/23 16:50	04/07/23 03:47	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/05/23 16:50	04/07/23 03:47	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		04/05/23 16:50	04/07/23 03:47	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/05/23 16:50	04/07/23 03:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130			04/05/23 16:50	04/07/23 03:47	1
1,4-Difluorobenzene (Surr)	107		70 - 130			04/05/23 16:50	04/07/23 03:47	1

Client Sample Results

Client: Ensolum Job ID: 890-4428-1 Project/Site: PLU 13 DTD Battery SDG: 03C1558188

Client Sample ID: BH02C Lab Sample ID: 890-4428-6

Date Collected: 03/28/23 13:25 Matrix: Solid Date Received: 03/28/23 15:40

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			04/07/23 18:40	1
- Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			04/03/23 10:23	1
- Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		03/31/23 14:28	04/02/23 04:56	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		03/31/23 14:28	04/02/23 04:56	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/31/23 14:28	04/02/23 04:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130			03/31/23 14:28	04/02/23 04:56	1
o-Terphenyl	96		70 - 130			03/31/23 14:28	04/02/23 04:56	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.04		5.04	mg/Kg			04/07/23 05:10	

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Surrogate Summary

Client: Ensolum Job ID: 890-4428-1 Project/Site: PLU 13 DTD Battery SDG: 03C1558188

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-26925-A-1-D MS	Matrix Spike	96	122	
880-26925-A-1-E MSD	Matrix Spike Duplicate	116	104	
890-4428-1	BH01A	154 S1+	120	
890-4428-2	BH01B	97	105	
890-4428-2 MS	BH01B	100	108	
890-4428-2 MSD	BH01B	98	108	
890-4428-3	BH01C	97	104	
890-4428-4	BH02A	103	92	
890-4428-5	BH02B	99	107	
890-4428-6	BH02C	103	107	
LCS 880-50431/1-A	Lab Control Sample	96	110	
LCS 880-50536/1-A	Lab Control Sample	96	110	
LCSD 880-50431/2-A	Lab Control Sample Dup	100	112	
LCSD 880-50536/2-A	Lab Control Sample Dup	100	112	
MB 880-50431/5-A	Method Blank	90	97	
MB 880-50512/8	Method Blank	92	99	
MB 880-50536/5-B	Method Blank	80	96	

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

DFBZ = 1,4-Difluorobenzene (Surr)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1001	OTPH1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
30-26510-A-4-B MS	Matrix Spike	113	94	
30-26510-A-4-C MSD	Matrix Spike Duplicate	113	97	
90-4428-1	BH01A	146 S1+	101	
90-4428-2	BH01B	99	97	
90-4428-3	BH01C	101	96	
90-4428-4	BH02A	107	102	
90-4428-5	BH02B	113	101	
90-4428-6	BH02C	104	96	
CS 880-50046/2-A	Lab Control Sample	138 S1+	132 S1+	
CSD 880-50046/3-A	Lab Control Sample Dup	124	117	
B 880-50046/1-A	Method Blank	113	113	

1CO = 1-Chlorooctane OTPH = o-Terphenyl

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Client: Ensolum Job ID: 890-4428-1 SDG: 03C1558188 Project/Site: PLU 13 DTD Battery

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-50431/5-A

Matrix: Solid

Analysis Batch: 50512

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

Prep Batch: 50431

MB MB

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/05/23 16:50	04/07/23 01:57	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/05/23 16:50	04/07/23 01:57	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/05/23 16:50	04/07/23 01:57	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/05/23 16:50	04/07/23 01:57	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/05/23 16:50	04/07/23 01:57	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/05/23 16:50	04/07/23 01:57	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	04/05/23 16:50	04/07/23 01:57	1
1.4-Difluorobenzene (Surr)	97		70 - 130	04/05/23 16:50	04/07/23 01:57	1

Lab Sample ID: LCS 880-50431/1-A

Matrix: Solid

Analysis Batch: 50512

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 50431

l		Spike	LCS	LCS				%Rec	
	Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
	Benzene	0.100	0.1002		mg/Kg		100	70 - 130	
	Toluene	0.100	0.09691		mg/Kg		97	70 - 130	
l	Ethylbenzene	0.100	0.08430		mg/Kg		84	70 - 130	
l	m-Xylene & p-Xylene	0.200	0.1660		mg/Kg		83	70 - 130	
l	o-Xylene	0.100	0.08517		mg/Kg		85	70 - 130	
-									

LCS LCS

Surrogate	%Recovery Qual	ifier Limits
4-Bromofluorobenzene (Surr)	96	70 - 130
1,4-Difluorobenzene (Surr)	110	70 - 130

Lab Sample ID: LCSD 880-50431/2-A

Matrix: Solid

Analysis Batch: 50512

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 50431

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1022		mg/Kg		102	70 - 130	2	35	
Toluene	0.100	0.1007		mg/Kg		101	70 - 130	4	35	
Ethylbenzene	0.100	0.08698		mg/Kg		87	70 - 130	3	35	
m-Xylene & p-Xylene	0.200	0.1715		mg/Kg		86	70 - 130	3	35	
o-Xylene	0.100	0.08833		mg/Kg		88	70 - 130	4	35	

LCSD LCSD

Surrogate	%Recovery (Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1.4-Difluorobenzene (Surr)	112		70 - 130

Lab Sample ID: 890-4428-2 MS

Matrix: Solid

Analysis Batch: 50512

Client Sample ID: BH01B Prep Type: Total/NA

Prep Batch: 50431

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.0996	0.1061		mg/Kg		106	70 - 130	
Toluene	<0.00200	U	0.0996	0.1027		mg/Kg		102	70 - 130	

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Client Sample ID: BH01B

Prep Type: Total/NA

Client: Ensolum

Job ID: 890-4428-1 Project/Site: PLU 13 DTD Battery SDG: 03C1558188

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

Lab Sample ID: 890-4428-2 MS **Matrix: Solid**

Analysis Batch: 50512

Prep Batch: 50431 Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits D Ethylbenzene <0.00200 U 0.0996 0.08929 90 70 - 130 mg/Kg m-Xylene & p-Xylene < 0.00399 0.199 0.1758 mg/Kg 87 70 - 130 <0.00200 U 0.0996 o-Xylene 0.08952 mg/Kg 89 70 - 130

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: 890-4428-2 MSD

Matrix: Solid

Analysis Batch: 50512

Client Sample ID: BH01B Prep Type: Total/NA Prep Batch: 50431

Sample Sample Spike MSD MSD RPD Result Qualifier Added Result Qualifier %Rec Limits RPD Limit Analyte Unit 0.0990 106 Benzene <0.00200 U 0.1055 mg/Kg 70 - 130 35 Toluene <0.00200 0.0990 0.1020 102 70 - 130 35 mg/Kg Ethylbenzene <0.00200 U 0.0990 0.08913 mg/Kg 90 70 - 130 0 35 <0.00399 U 0.198 0.1759 88 70 - 130 35 m-Xylene & p-Xylene mg/Kg 0 0.0990 <0.00200 U 0.08888 89 70 - 130 o-Xylene mg/Kg

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: MB 880-50512/8

Matrix: Solid

Analysis Batch: 50512

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

MB MB

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg			04/06/23 14:21	1
Toluene	<0.00200	U	0.00200	mg/Kg			04/06/23 14:21	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg			04/06/23 14:21	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg			04/06/23 14:21	1
o-Xylene	<0.00200	U	0.00200	mg/Kg			04/06/23 14:21	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg			04/06/23 14:21	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130		04/06/23 14:21	1
1,4-Difluorobenzene (Surr)	99		70 - 130		04/06/23 14:21	1

Lab Sample ID: MB 880-50536/5-B

Matrix: Solid

Analysis Batch: 50769

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 50536

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/10/23 09:30	04/10/23 11:54	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/10/23 09:30	04/10/23 11:54	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/10/23 09:30	04/10/23 11:54	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/10/23 09:30	04/10/23 11:54	1

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Client: Ensolum

Project/Site: PLU 13 DTD Battery

Job ID: 890-4428-1

SDG: 03C1558188

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

Lab Sample ID: MB 880-50536/5-B

Matrix: Solid

Analysis Batch: 50769

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 50536

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/10/23 09:30	04/10/23 11:54	1
Xvlenes, Total	< 0.00400	U	0.00400	ma/Ka		04/10/23 09:30	04/10/23 11:54	1

MR MR

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130	04/10/23 09:30	04/10/23 11:54	1
1,4-Difluorobenzene (Surr)	96		70 - 130	04/10/23 09:30	04/10/23 11:54	1

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 880-50536/1-A

Matrix: Solid

Analysis Batch: 50769

Prep Type: Total/NA

Prep Batch: 50536

	Spike	LUS	LUS				70 KeC	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1031		mg/Kg		103	70 - 130	
Toluene	0.100	0.09177		mg/Kg		92	70 - 130	
Ethylbenzene	0.100	0.08629		mg/Kg		86	70 - 130	
m-Xylene & p-Xylene	0.200	0.1808		mg/Kg		90	70 - 130	
o-Xylene	0.100	0.09129		mg/Kg		91	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	96	70 - 130
1.4-Difluorobenzene (Surr)	110	70 ₋ 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 50536

Matrix: Solid Analysis Batch: 50769

Lab Sample ID: LCSD 880-50536/2-A

Spike	LCSD	LCSD				%Rec		RPD
Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
0.100	0.1183		mg/Kg		118	70 - 130	14	35
0.100	0.1095		mg/Kg		110	70 - 130	18	35
0.100	0.09842		mg/Kg		98	70 - 130	13	35
0.200	0.2032		mg/Kg		102	70 - 130	12	35
0.100	0.1017		mg/Kg		102	70 - 130	11	35
	Added 0.100 0.100 0.100 0.200	Added Result 0.100 0.1183 0.100 0.1095 0.100 0.09842 0.200 0.2032	Added Result Qualifier 0.100 0.1183 0.100 0.1095 0.100 0.09842 0.200 0.2032	Added Result Qualifier Unit 0.100 0.1183 mg/Kg 0.100 0.1095 mg/Kg 0.100 0.09842 mg/Kg 0.200 0.2032 mg/Kg	Added Result Qualifier Unit D 0.100 0.1183 mg/Kg 0.100 0.1095 mg/Kg 0.100 0.09842 mg/Kg 0.200 0.2032 mg/Kg	Added Result Qualifier Unit D %Rec 0.100 0.1183 mg/Kg 118 0.100 0.1095 mg/Kg 110 0.100 0.09842 mg/Kg 98 0.200 0.2032 mg/Kg 102	Added Result Qualifier Unit D %Rec Limits 0.100 0.1183 mg/Kg 118 70 - 130 0.100 0.1095 mg/Kg 110 70 - 130 0.100 0.09842 mg/Kg 98 70 - 130 0.200 0.2032 mg/Kg 102 70 - 130	Added Result Qualifier Unit D %Rec Limits RPD 0.100 0.1183 mg/Kg 118 70 - 130 14 0.100 0.1095 mg/Kg 110 70 - 130 18 0.100 0.09842 mg/Kg 98 70 - 130 13 0.200 0.2032 mg/Kg 102 70 - 130 12

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	100	70 - 130
1.4-Difluorobenzene (Surr)	112	70 - 130

Lab Sample ID: 880-26925-A-1-D MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 50769

Prep Type: Total/NA Prep Batch: 50536

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U F2 F1	0.0998	0.04997	F1	mg/Kg		50	70 - 130	
Toluene	<0.00199	U F2 F1	0.0998	0.02828	F1	mg/Kg		27	70 - 130	
Ethylbenzene	<0.00199	U F2 F1	0.0998	0.01813	F1	mg/Kg		17	70 - 130	
m-Xylene & p-Xylene	0.00405	F2 F1	0.200	0.03772	F1	mg/Kg		17	70 - 130	
o-Xylene	<0.00199	U F2 F1	0.0998	0.01924	F1	mg/Kg		17	70 - 130	

Client: Ensolum

Job ID: 890-4428-1 Project/Site: PLU 13 DTD Battery SDG: 03C1558188

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

MS MS

Lab Sample ID: 880-26925-A-1-D MS

Matrix: Solid

Analysis Batch: 50769

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 50536

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 96 70 - 130 1,4-Difluorobenzene (Surr) 122 70 - 130

Lab Sample ID: 880-26925-A-1-E MSD

Matrix: Solid

Analysis Batch: 50769

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 50536

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U F2 F1	0.0990	0.07394	F2	mg/Kg		75	70 - 130	39	35
Toluene	<0.00199	U F2 F1	0.0990	0.05099	F2 F1	mg/Kg		50	70 - 130	57	35
Ethylbenzene	<0.00199	U F2 F1	0.0990	0.03511	F2 F1	mg/Kg		34	70 - 130	64	35
m-Xylene & p-Xylene	0.00405	F2 F1	0.198	0.07537	F2 F1	mg/Kg		36	70 - 130	67	35
o-Xylene	<0.00199	U F2 F1	0.0990	0.04842	F2 F1	mg/Kg		47	70 - 130	86	35

MSD MSD

%Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene (Surr) 116 70 - 130 1,4-Difluorobenzene (Surr) 104 70 - 130

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

Lab Sample ID: MB 880-50046/1-A

Matrix: Solid

Analysis Batch: 50074

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 50046

	MB	MR						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/31/23 14:28	04/01/23 20:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/31/23 14:28	04/01/23 20:26	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/31/23 14:28	04/01/23 20:26	1

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

MB MB

Prepared Analyzed Dil Fac 03/31/23 14:28 04/01/23 20:26 03/31/23 14:28 04/01/23 20:26

Lab Sample ID: LCS 880-50046/2-A

Matrix: Solid

Analysis Batch: 50074

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 50046

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	999.3		mg/Kg		100	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	980.9		mg/Kg		98	70 - 130	
C40 C20)								

C10-C28)

	LUS	LUS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	138	S1+	70 - 130
o-Terphenyl	132	S1+	70 - 130

Client: Ensolum Job ID: 890-4428-1 Project/Site: PLU 13 DTD Battery SDG: 03C1558188

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

Lab Sample ID: LCSD 880-50046/3-A

Matrix: Solid

Analysis Batch: 50074

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 50046

Spike LCSD LCSD RPD RPD Limit Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 978.3 mg/Kg 98 70 - 130 2 20 (GRO)-C6-C10 1000 865.0 Diesel Range Organics (Over mg/Kg 87 70 - 130 13

C10-C28)

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	124		70 - 130
o-Terphenyl	117		70 - 130

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 50046

Lab Sample ID: 880-26510-A-4-B MS

Matrix: Solid

Analysis Batch: 50074

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.9	U	999	1131		mg/Kg		109	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	130		999	890.2		mg/Kg		76	70 - 130	
040,000)										

C10-C28)

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	113		70 - 130
o-Terphenyl	94		70 - 130

Lab Sample ID: 880-26510-A-4-C MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 50074** Prep Batch: 50046

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	<49.9	U	999	1131		mg/Kg		109	70 - 130	0	20	
(GRO)-C6-C10												
Diesel Range Organics (Over	130		999	904.9		mg/Kg		78	70 - 130	2	20	
C10-C28)												

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	113		70 - 130
o-Terphenyl	97		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-50418/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 50614

MB MB

MSD MSD

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			04/07/23 02:46	1

QC Sample Results

Client: Ensolum Job ID: 890-4428-1 Project/Site: PLU 13 DTD Battery

SDG: 03C1558188

%Rec

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-50418/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

LCS LCS

Analysis Batch: 50614

Spike

Analyte Added Result Qualifier Unit %Rec Limits Chloride 250 249.7 mg/Kg 100 90 - 110

Lab Sample ID: LCSD 880-50418/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Soluble

Analysis Batch: 50614

Spike LCSD LCSD %Rec RPD Added Result Qualifier Limit Analyte Unit D %Rec Limits RPD Chloride 250 251.0 mg/Kg 100 90 - 110 0

Lab Sample ID: 880-26530-A-11-C MS Client Sample ID: Matrix Spike

Matrix: Solid Prep Type: Soluble

Analysis Batch: 50614

MS MS %Rec Spike Sample Sample Analyte Result Qualifier Added Result Qualifier Unit Limits Chloride 348 F1 250 525.3 F1 90 - 110 mg/Kg

Lab Sample ID: 880-26530-A-11-D MSD Client Sample ID: Matrix Spike Duplicate Matrix: Solid **Prep Type: Soluble**

Analysis Batch: 50614

Spike MSD MSD RPD Sample Sample %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec RPD Limit Limits Chloride 348 F1 250 524.9 F1 90 - 110 20 mg/Kg

Client: Ensolum

Job ID: 890-4428-1 Project/Site: PLU 13 DTD Battery SDG: 03C1558188

GC VOA

Prep Batch: 50431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4428-2	BH01B	Total/NA	Solid	5035	
890-4428-3	BH01C	Total/NA	Solid	5035	
890-4428-4	BH02A	Total/NA	Solid	5035	
890-4428-5	BH02B	Total/NA	Solid	5035	
890-4428-6	BH02C	Total/NA	Solid	5035	
MB 880-50431/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-50431/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-50431/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4428-2 MS	BH01B	Total/NA	Solid	5035	
890-4428-2 MSD	BH01B	Total/NA	Solid	5035	

Analysis Batch: 50512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4428-2	BH01B	Total/NA	Solid	8021B	50431
890-4428-3	BH01C	Total/NA	Solid	8021B	50431
890-4428-4	BH02A	Total/NA	Solid	8021B	50431
890-4428-5	BH02B	Total/NA	Solid	8021B	50431
890-4428-6	BH02C	Total/NA	Solid	8021B	50431
MB 880-50431/5-A	Method Blank	Total/NA	Solid	8021B	50431
MB 880-50512/8	Method Blank	Total/NA	Solid	8021B	
LCS 880-50431/1-A	Lab Control Sample	Total/NA	Solid	8021B	50431
LCSD 880-50431/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	50431
890-4428-2 MS	BH01B	Total/NA	Solid	8021B	50431
890-4428-2 MSD	BH01B	Total/NA	Solid	8021B	50431

Prep Batch: 50536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Bato
890-4428-1	BH01A	Total/NA	Solid	5035	
MB 880-50536/5-B	Method Blank	Total/NA	Solid	5035	
LCS 880-50536/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-50536/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-26925-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
880-26925-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 50643

La	ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
89	90-4428-1	BH01A	Total/NA	Solid	Total BTEX	
89	90-4428-2	BH01B	Total/NA	Solid	Total BTEX	
89	90-4428-3	BH01C	Total/NA	Solid	Total BTEX	
89	90-4428-4	BH02A	Total/NA	Solid	Total BTEX	
89	90-4428-5	BH02B	Total/NA	Solid	Total BTEX	
89	90-4428-6	BH02C	Total/NA	Solid	Total BTEX	

Analysis Batch: 50769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4428-1	BH01A	Total/NA	Solid	8021B	50536
MB 880-50536/5-B	Method Blank	Total/NA	Solid	8021B	50536
LCS 880-50536/1-A	Lab Control Sample	Total/NA	Solid	8021B	50536
LCSD 880-50536/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	50536
880-26925-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	50536
880-26925-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	50536

Client: Ensolum

Project/Site: PLU 13 DTD Battery

Job ID: 890-4428-1

SDG: 03C1558188

GC Semi VOA

Prep Batch: 50046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4428-1	BH01A	Total/NA	Solid	8015NM Prep	
890-4428-2	BH01B	Total/NA	Solid	8015NM Prep	
890-4428-3	BH01C	Total/NA	Solid	8015NM Prep	
890-4428-4	BH02A	Total/NA	Solid	8015NM Prep	
890-4428-5	BH02B	Total/NA	Solid	8015NM Prep	
890-4428-6	BH02C	Total/NA	Solid	8015NM Prep	
MB 880-50046/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-50046/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-50046/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-26510-A-4-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-26510-A-4-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 50074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4428-1	BH01A	Total/NA	Solid	8015B NM	50046
890-4428-2	BH01B	Total/NA	Solid	8015B NM	50046
890-4428-3	BH01C	Total/NA	Solid	8015B NM	50046
890-4428-4	BH02A	Total/NA	Solid	8015B NM	50046
890-4428-5	BH02B	Total/NA	Solid	8015B NM	50046
890-4428-6	BH02C	Total/NA	Solid	8015B NM	50046
MB 880-50046/1-A	Method Blank	Total/NA	Solid	8015B NM	50046
LCS 880-50046/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	50046
LCSD 880-50046/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	50046
880-26510-A-4-B MS	Matrix Spike	Total/NA	Solid	8015B NM	50046
880-26510-A-4-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	50046

Analysis Batch: 50157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4428-1	BH01A	Total/NA	Solid	8015 NM	
890-4428-2	BH01B	Total/NA	Solid	8015 NM	
890-4428-3	BH01C	Total/NA	Solid	8015 NM	
890-4428-4	BH02A	Total/NA	Solid	8015 NM	
890-4428-5	BH02B	Total/NA	Solid	8015 NM	
890-4428-6	BH02C	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 50418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4428-1	BH01A	Soluble	Solid	DI Leach	_
890-4428-2	BH01B	Soluble	Solid	DI Leach	
890-4428-3	BH01C	Soluble	Solid	DI Leach	
890-4428-4	BH02A	Soluble	Solid	DI Leach	
890-4428-5	BH02B	Soluble	Solid	DI Leach	
890-4428-6	BH02C	Soluble	Solid	DI Leach	
MB 880-50418/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-50418/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-50418/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-26530-A-11-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-26530-A-11-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Client: Ensolum
Project/Site: PLU 13 DTD Battery
SDG: 03C1558188

HPLC/IC

Analysis Batch: 50614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4428-1	BH01A	Soluble	Solid	300.0	50418
890-4428-2	BH01B	Soluble	Solid	300.0	50418
890-4428-3	BH01C	Soluble	Solid	300.0	50418
890-4428-4	BH02A	Soluble	Solid	300.0	50418
890-4428-5	BH02B	Soluble	Solid	300.0	50418
890-4428-6	BH02C	Soluble	Solid	300.0	50418
MB 880-50418/1-A	Method Blank	Soluble	Solid	300.0	50418
LCS 880-50418/2-A	Lab Control Sample	Soluble	Solid	300.0	50418
LCSD 880-50418/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	50418
880-26530-A-11-C MS	Matrix Spike	Soluble	Solid	300.0	50418
880-26530-A-11-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	50418

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SDG: 03C1558188

Project/Site: PLU 13 DTD Battery Client Sample ID: BH01A

Client: Ensolum

Lab Sample ID: 890-4428-1

Matrix: Solid

Date Collected: 03/28/23 11:00 Date Received: 03/28/23 15:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	50536	04/10/23 09:30	MNR	EET MID
Total/NA	Analysis	8021B		250	5 mL	5 mL	50769	04/10/23 14:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50643	04/10/23 17:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			50157	04/03/23 10:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.031 g	10 mL	50046	03/31/23 14:28	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50074	04/02/23 03:14	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	50418	04/05/23 14:50	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50614	04/07/23 04:46	SMC	EET MID

Client Sample ID: BH01B Lab Sample ID: 890-4428-2

Matrix: Solid

Date Collected: 03/28/23 11:10 Date Received: 03/28/23 15:40

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 50431 Total/NA 5.01 g 5 mL 04/05/23 16:50 MNR EET MID Total/NA 8021B 5 mL 50512 04/07/23 02:25 **EET MID** Analysis 1 5 mL MNR Total/NA Total BTEX 50643 04/07/23 18:40 Analysis SM **EET MID** 1 Total/NA Analysis 8015 NM 50157 04/03/23 10:23 SM **EET MID** Total/NA 50046 Prep 8015NM Prep 10.01 g 10 mL 03/31/23 14:28 ΑJ EET MID Total/NA Analysis 8015B NM 1 uL 1 uL 50074 04/02/23 03:35 SM **EET MID** Soluble Leach DI Leach 5.02 g 50 mL 50418 04/05/23 14:50 KS EET MID Soluble Analysis 300.0 50 mL 50 mL 50614 04/07/23 04:51 SMC **EET MID**

Lab Sample ID: 890-4428-3 Client Sample ID: BH01C **Matrix: Solid**

Date Collected: 03/28/23 12:15 Date Received: 03/28/23 15:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	50431	04/05/23 16:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50512	04/07/23 02:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50643	04/07/23 18:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			50157	04/03/23 10:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	50046	03/31/23 14:28	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50074	04/02/23 03:55	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	50418	04/05/23 14:50	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50614	04/07/23 04:56	SMC	EET MID

Client Sample ID: BH02A Lab Sample ID: 890-4428-4

Date Collected: 03/28/23 11:55 Date Received: 03/28/23 15:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	50431	04/05/23 16:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50512	04/07/23 03:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50643	04/07/23 18:40	SM	EET MID

Eurofins Carlsbad

Page 21 of 30

Matrix: Solid

Client: Ensolum

Project/Site: PLU 13 DTD Battery

Client Sample ID: BH02A

Date Collected: 03/28/23 11:55

Date Received: 03/28/23 15:40

Job ID: 890-4428-1 SDG: 03C1558188

Lab Sample ID: 890-4428-4

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			50157	04/03/23 10:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	50046	03/31/23 14:28	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50074	04/02/23 04:15	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	50418	04/05/23 14:50	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50614	04/07/23 05:01	SMC	EET MID

Client Sample ID: BH02B Lab Sample ID: 890-4428-5

Date Collected: 03/28/23 13:20 Date Received: 03/28/23 15:40

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Prep Type Method Amount Amount Number or Analyzed Type Run Factor Analyst Lab 5035 04/05/23 16:50 Total/NA Prep 5.02 g 5 mL 50431 MNR **EET MID** Total/NA Analysis 8021B 5 mL 5 mL 50512 04/07/23 03:27 MNR EET MID 1 Total/NA Total BTEX 50643 04/07/23 18:40 **EET MID** Analysis 1 SM Total/NA Analysis 8015 NM 50157 04/03/23 10:23 SM EET MID Total/NA Prep 8015NM Prep 10.02 g 10 mL 50046 03/31/23 14:28 ΑJ **EET MID** Total/NA Analysis 8015B NM 1 uL 1 uL 50074 04/02/23 04:36 SM **EET MID** Soluble Leach DI Leach 5.03 g 50 mL 50418 04/05/23 14:50 KS EET MID Soluble Analysis 300.0 1 50 mL 50 mL 50614 04/07/23 05:06 SMC **EET MID**

Client Sample ID: BH02C Lab Sample ID: 890-4428-6

Date Collected: 03/28/23 13:25 **Matrix: Solid** Date Received: 03/28/23 15:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	50431	04/05/23 16:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50512	04/07/23 03:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50643	04/07/23 18:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			50157	04/03/23 10:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	50046	03/31/23 14:28	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50074	04/02/23 04:56	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	50418	04/05/23 14:50	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50614	04/07/23 05:10	SMC	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-4428-1 Project/Site: PLU 13 DTD Battery

SDG: 03C1558188

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	T104704400-22-25	06-30-23	
The following analytes the agency does not of	· '	it the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes fo	
Analysis Method	D M () 1	N.A Andre			
Alialysis Melliou	Prep Method	Matrix	Analyte		
8015 NM	Ргер Метпоа	Solid	Analyte Total TPH		

Method Summary

Client: Ensolum

Project/Site: PLU 13 DTD Battery

Job ID: 890-4428-1

SDG: 03C1558188

Method	Method Description	Protocol	Laboratory
3021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
3015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

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Sample Summary

Client: Ensolum
Project/Site: PLU 13 DTD Battery
SDG: 03C1558188

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-4428-1	BH01A	Solid	03/28/23 11:00	03/28/23 15:40
890-4428-2	BH01B	Solid	03/28/23 11:10	03/28/23 15:40
890-4428-3	BH01C	Solid	03/28/23 12:15	03/28/23 15:40
890-4428-4	BH02A	Solid	03/28/23 11:55	03/28/23 15:40
890-4428-5	BH02B	Solid	03/28/23 13:20	03/28/23 15:40
890-4428-6	BH02C	Solid	03/28/23 13:25	03/28/23 15:40

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Xenco Thuison Testing

City, State ZIP:

ompany Name:

Bill to: (if different) Company Name:

Program:

UST/PST ☐ PRP☐ Brownfields ☐ RRC ☐ Work Order Comments

Superfund [

State of Project:

Reporting: Level II | Level III | PST/UST | TRRP |

Houston, TX (281) 240-4200, Midland, TX (432) 704-5440, Sa Chain of

EL Paso, TX (915) 585-3443, L Hobbs, NM (575) 392-7550, C

	Page L of L	www.xenco.com	
	all of orderry	030-444-060	Carlsbad, NM (575) 988-3199
	in of Clistody		ubbock, TX (806) 794-1296
4/		×× ===================================	n Antonio, TX (210) 509-3334
40			, Dallas, TX (214) 902-0300
/000			Custody

es: EDD ADAPT A		
Se Ag SiO ₂ Na Sr T Hg: 1631/245.1/		5
EDD		Care (Mark) Save (Mark) Reiniquisiled by, (biglidture)
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All 1.3 1.0		of service. Suprishing or unis occurrent and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.
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Name: DLU 13 DTD RAHE/U Number: O3 C15 58188 Algourine □Rush Pres. Code Cool: Cool Same: Name: Name: Name: S2.205 (64, -103.83013 Due Date: 15 Aa US Same: Name: Name: Name: Name: Name of the lab, if received by 4.30pm Tat starts the day received by 4.30pm Energy of the lab, if received by 4.30pm Energy of the lab	H ₃ PO ₄ ; HP	Vec No Thomas II (Yes) No
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O O O O O O O O O O		32.205 pq - 105.83013 Due Date:
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THE PROPERTY OF THE PROPERTY O		Email: (GAVYETT. GYEENE EXXANMOBILE, COM) Deliverables:

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eurofins Xenco **Environment Testing**

Company Name:

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Chain of Custody

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

Bill to: (if different) Company Name:

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Program: State of Project:

UST/PST PRP Brownfields

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Work Order Comments

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890-4428 Chain of Custody		

Sample Comments INCLUMN #: INCLU	BH02R 13:20 H BH02C Total 200.7/6010 200.8/6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be Cd Cr Co Cu Fe Pb Mg Mn Mo Ni K Circle Method(s) and Metal(s) to be analyzed TCLP/SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Fe Pb Mg Mn Mo Ni Se Ag Tl U Note: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$55.00 will be applied to each project and a draige of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated. Received by: (Signature) Relinquished By: (Signatur
	B 13:20 H 13:25 T 13:20 H 13:25 T
Sample Comments NOCION #: NAPP2304448900	13:20 H 13:20 H 13:20 H 13:20 H 13:20 H 13:25 T 20.8/6020: BRCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca cod(s) and Metal(s) to be analyzed TCLP/SPLP 6010: BRCRA Sb As Ba Be Cd Cr Coffits document and relinquishment of samples constitutes a valid purchase order from client company to Eurofina Xenco, its affiliates and subco of this document and relinquishment of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such l a Minimum charge of \$55.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed:
Sample Comments INGIDENT #: nAPP2304448900 OST CLINEV: 2141721001 DEVI BENILLE ENGINE DEVI BENILLE ENGINE OST TI SN U V ZN Hg: 1631/245.1/7470 /7471	13:20 H' 13:25 7' V W
Sample Comments INGITATION #: MAPP 2304448900 COST CINTER: 2191721001 BEN BELLILLE ENVOLUM: DELLILLE ENVOLUM:	A 13:20 4' V W
11/1/ #: 2304448900 11/17/21/001	A 13:20 4' V V
Sample Comments Inc. 101	A 11:55 2' 13:20 4' V
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Sample Comments NOCIDENT #: NAPP2304448900 COST CENTER:	A
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NAPP2304448900	
Sample Comments	18
Sample Comments	1A S 03/28/23/11:00 2' 6 1 1
	Sample Identification Matrix Sampled Sampled Depth Comp Cont
NaOH+Ascorbic Acid: SAPC	Total Containers: Corrected Temperature: 2.0
Zn Acetate+NaOH: Zn	:: Yes No \N/A Temperature Reading: \Q . \Q
Na ₂ S ₂ O ₃ : NaSO ₃	Yes No N/A Correction Factor: -0. 2
NaHSO 4: NABIS	tact: (Yes) No Thermometer ID: WJWW(Y)
H₃PO ₄: HP	SAMPLE RECEIPT Temp Blank: (Ye) No Wet Ice: (Yes) No te
H ₂ SO ₄ : H ₂ NaOH: Na	the lab, if received by 4:30pm
HCI: HC HNO 3: HN	Sampler's Name: NAMAMA (1) PI TAT starts the day received by
None: NO DI Water: H ₂ O	1200E100 102 030132
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ANALYSIS REQUEST Preservative Codes	DIL 13 DID Raten
EXXNNMONIB COM Deliverables: EDD ADAPT Other:	107051945104 Email: Garrett Greene ExxonMo
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Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4428-1

SDG Number: 03C1558188

Login Number: 4428 List Source: Eurofins Carlsbad

List Number: 1

Creator: Kramer, Jessica

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

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Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4428-1 SDG Number: 03C1558188

Login Number: 4428 **List Source: Eurofins Midland** List Number: 2 List Creation: 03/30/23 01:53 PM

Creator: Kramer, Jessica

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

Eurofins Carlsbad

<6mm (1/4").

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill

Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 5/1/2023 8:45:56 AM Revision 1

JOB DESCRIPTION

PLU 13 Dog Town Draw Battery SDG NUMBER 03C1558188

JOB NUMBER

890-4559-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated 5/1/2023 8:45:56 AM Revision 1

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

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

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Client: Ensolum
Project/Site: PLU 13 Dog Town Draw Battery

Laboratory Job ID: 890-4559-1 SDG: 03C1558188

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Certification Summary	23
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Definitions/Glossary

Client: Ensolum Job ID: 890-4559-1 Project/Site: PLU 13 Dog Town Draw Battery SDG: 03C1558188

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier **Qualifier Description**

LCS and/or LCSD is outside acceptance limits, low biased.

F1 MS and/or MSD recovery exceeds control limits.

F2 MS/MSD RPD exceeds control limits

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

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

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

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

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

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

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

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

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Job ID: 890-4559-1 Project/Site: PLU 13 Dog Town Draw Battery SDG: 03C1558188

Job ID: 890-4559-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4559-1

REVISION

The report being provided is a revision of the original report sent on 4/27/2023. The report (revision 1) is being revised due to Per client email, requesting TPH re run on sample #4.

Receipt

The samples were received on 4/21/2023 8:15 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C

Receipt Exceptions

The following samples > were received and analyzed from an unpreserved bulk soil jar: BH03 (890-4559-1), BH04 (890-4559-2), BH05 (890-4559-3) and BH06 (890-4559-4).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: BH04 (890-4559-2) and BH06 (890-4559-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-51848 and analytical batch 880-51824 was outside the upper control limits.

Method 8015MOD NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-51848/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (890-4554-A-11-B). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: BH03 (890-4559-1), BH04 (890-4559-2) and BH05 (890-4559-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: Surrogate recovery for the following sample was outside control limits: (CCV 880-51824/5). Evidence of matrix interferences is not obvious.

Method 8015MOD NM: Surrogate recovery for the following sample was outside control limits: (CCV 880-51824/31). Evidence of matrix interferences is not obvious.

Method 8015MOD NM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-51848 and analytical batch 880-51824 was outside control limits. Sample non-homogeneity is suspected.

Method 8015MOD NM: The continuing calibration verification (CCV) associated with batch 880-51824 recovered above the upper control limit for Gasoline Range Organics (GRO)-C6-C10. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-51824/5).

Method 8015MOD NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-52181 and analytical batch 880-52159 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Case Narrative

Client: Ensolum

Project/Site: PLU 13 Dog Town Draw Battery

Job ID: 890-4559-1

SDG: 03C1558188

Job ID: 890-4559-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: BH06 (890-4559-4), (LCS 880-52181/2-A), (LCSD 880-52181/3-A), (880-27710-A-1-F), (880-27710-A-1-G MS) and (880-27710-A-1-H MSD). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

Client: Ensolum Job ID: 890-4559-1 Project/Site: PLU 13 Dog Town Draw Battery SDG: 03C1558188

Client Sample ID: BH03

Sample Depth: 2

Lab Sample ID: 890-4559-1 Date Collected: 04/20/23 09:55 Matrix: Solid Date Received: 04/21/23 08:15

Method: SW846 8021B - Vo	latile Organic	Compoun	ds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/24/23 11:53	04/24/23 23:34	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/24/23 11:53	04/24/23 23:34	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/24/23 11:53	04/24/23 23:34	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		04/24/23 11:53	04/24/23 23:34	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/24/23 11:53	04/24/23 23:34	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		04/24/23 11:53	04/24/23 23:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130			04/24/23 11:53	04/24/23 23:34	1
1,4-Difluorobenzene (Surr)	85		70 - 130			04/24/23 11:53	04/24/23 23:34	1
Method: TAL SOP Total BTI	EX - Total BTE	X Calculat	ion					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			04/25/23 10:30	1

Method: SW846 8015 NM - Dies	sel Range (Organics (I	DRO) (GC)					
Analyte	_	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			04/25/23 10:20	1

Method: SW846 8015B NM - D	iesel Range Organics (DRO) (GC)							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		04/24/23 12:29	04/24/23 18:28	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		04/24/23 12:29	04/24/23 18:28	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		04/24/23 12:29	04/24/23 18:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130			04/24/23 12:29	04/24/23 18:28	1
o-Terphenyl	145	S1+	70 - 130			04/24/23 12:29	04/24/23 18:28	1

Method: EPA 300.0 - Anions, Id	on Chromatography - S	Soluble					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	144	5.04	mg/Kg			04/27/23 15:35	1

Client Sample ID: BH04 Lab Sample ID: 890-4559-2 Date Collected: 04/20/23 10:20 **Matrix: Solid**

Date Received: 04/21/23 08:15

Sample Depth: 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		04/24/23 11:53	04/24/23 23:54	1
Toluene	<0.00199	U	0.00199	mg/Kg		04/24/23 11:53	04/24/23 23:54	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/24/23 11:53	04/24/23 23:54	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/24/23 11:53	04/24/23 23:54	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		04/24/23 11:53	04/24/23 23:54	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/24/23 11:53	04/24/23 23:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	146	S1+	70 - 130			04/24/23 11:53	04/24/23 23:54	1

Matrix: Solid

Lab Sample ID: 890-4559-2

Client: Ensolum Job ID: 890-4559-1
Project/Site: PLU 13 Dog Town Draw Battery SDG: 03C1558188

Client Sample ID: BH04

Date Collected: 04/20/23 10:20 Date Received: 04/21/23 08:15

Sample Depth: 2

Surrogate	%Recovery Qualifi	ier Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	106	70 - 130	04/24/23 11:53	04/24/23 23:54	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			04/25/23 10:30	1

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

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U	49.9	mg/Kg		_	04/25/23 10:20	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		04/24/23 12:29	04/24/23 18:50	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/24/23 12:29	04/24/23 18:50	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/24/23 12:29	04/24/23 18:50	1
Surrogate	%Recovery	Qualifier	l imits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	135	S1+	70 - 130	04/24/23 12:29	04/24/23 18:50	1
o-Terphenyl	161	S1+	70 - 130	04/24/23 12:29	04/24/23 18:50	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Anal	yte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chlo	oride	136		5.00	mg/Kg			04/27/23 15:40	1

Client Sample ID: BH05

Date Collected: 04/20/23 13:50

Lab Sample ID: 890-4559-3

Matrix: Solid

Date Collected: 04/20/23 13:50 Date Received: 04/21/23 08:15

Sample Depth: 2

Mothod: CIMO16 0021D	Volatile Organie	Compounds (CC)

motiloai offoto ouz ib	voidino Organio	Compoun	45 (55)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		04/24/23 11:53	04/25/23 00:15	1
Toluene	<0.00201	U	0.00201	mg/Kg		04/24/23 11:53	04/25/23 00:15	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		04/24/23 11:53	04/25/23 00:15	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		04/24/23 11:53	04/25/23 00:15	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		04/24/23 11:53	04/25/23 00:15	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		04/24/23 11:53	04/25/23 00:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130			04/24/23 11:53	04/25/23 00:15	1
1,4-Difluorobenzene (Surr)	72		70 - 130			04/24/23 11:53	04/25/23 00:15	1

ı	Mothod:	TAI	SUD.	Total	RTEY	- Total	RTEY	Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			04/25/23 10:30	1

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

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 U	50.0	mg/Kg			04/25/23 10:20	1

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2

3

4

6

8

10

12

13

Matrix: Solid

Matrix: Solid

Job ID: 890-4559-1

Lab Sample ID: 890-4559-3

Lab Sample ID: 890-4559-4

Client: Ensolum Project/Site: PLU 13 Dog Town Draw Battery SDG: 03C1558188

Client Sample ID: BH05

Date Collected: 04/20/23 13:50 Date Received: 04/21/23 08:15

Sample Depth: 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/24/23 12:29	04/24/23 19:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/24/23 12:29	04/24/23 19:11	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/24/23 12:29	04/24/23 19:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	130		70 - 130			04/24/23 12:29	04/24/23 19:11	1
o-Terphenyl	158	S1+	70 - 130			04/24/23 12:29	04/24/23 19:11	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	162		5.05	mg/Kg			04/27/23 15:45	1

Client Sample ID: BH06

Date Collected: 04/20/23 13:15

Date Received: 04/21/23 08:15

Sample Depth: 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		04/24/23 11:53	04/25/23 00:35	1
Toluene	< 0.00201	U	0.00201	mg/Kg		04/24/23 11:53	04/25/23 00:35	1
Ethylbenzene	< 0.00201	U	0.00201	mg/Kg		04/24/23 11:53	04/25/23 00:35	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		04/24/23 11:53	04/25/23 00:35	1
o-Xylene	< 0.00201	U	0.00201	mg/Kg		04/24/23 11:53	04/25/23 00:35	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		04/24/23 11:53	04/25/23 00:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			04/24/23 11:53	04/25/23 00:35	1
1,4-Difluorobenzene (Surr)	64	S1-	70 - 130			04/24/23 11:53	04/25/23 00:35	1
Method: TAL SOP Total BT	EX - Total BTE	X Calculat	ion					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			04/25/23 10:30	1
Method: SW846 8015 NM -	Diesel Range	Organics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			04/25/23 10:20	1
Method: SW846 8015B NM	- Diesel Range	Organics	(DRO) (GC)					
Analyte	_	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

49.9

49.9

49.9

Limits

70 - 130

70 - 130

mg/Kg

mg/Kg

mg/Kg

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04/28/23 09:48 04/28/23 15:05

04/28/23 09:48 04/28/23 15:05

04/28/23 09:48 04/28/23 15:05

04/28/23 09:48 04/28/23 15:05

Analyzed

Prepared

Dil Fac

<49.9 U *-

<49.9 U *-

<49.9 U

%Recovery Qualifier

55 S1-

73

Gasoline Range Organics

Diesel Range Organics (Over

Oll Range Organics (Over C28-C36)

(GRO)-C6-C10

C10-C28)

Surrogate

o-Terphenyl

1-Chlorooctane

Client Sample Results

Client: Ensolum Job ID: 890-4559-1
Project/Site: PLU 13 Dog Town Draw Battery SDG: 03C1558188

Client Sample ID: BH06 Lab Sample ID: 890-4559-4

Date Collected: 04/20/23 13:15

Matrix: Solid

Date Received: 04/21/23 08:15

Sample Depth: 2

Method: EPA 300.0 - Anions, Id	on Chromat	tography -	Soluble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	270		5.02	mg/Kg	_		04/27/23 15:49	1

4

6

R

46

11

13

14

Surrogate Summary

Client: Ensolum Job ID: 890-4559-1 Project/Site: PLU 13 Dog Town Draw Battery SDG: 03C1558188

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

			Percent Surrogate Recover	y (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	70-130)	
890-4559-1	BH03	109	85	
890-4559-1 MS	BH03	122	110	
890-4559-1 MSD	BH03	109	110	
890-4559-2	BH04	146 S1+	106	
890-4559-3	BH05	115	72	
890-4559-4	BH06	117	64 S1-	
LCS 880-51842/1-A	Lab Control Sample	114	87	
LCSD 880-51842/2-A	Lab Control Sample Dup	117	109	
MB 880-51796/5-A	Method Blank	74	82	
MB 880-51842/5-A	Method Blank	76	80	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Prep Type: Total/NA Matrix: Solid

			Percent Surroga	te Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-27710-A-1-G MS	Matrix Spike	71	51 S1-	
880-27710-A-1-H MSD	Matrix Spike Duplicate	68 S1-	48 S1-	
890-4554-A-11-C MS	Matrix Spike	91	103	
890-4554-A-11-D MSD	Matrix Spike Duplicate	109	117	
890-4559-1	BH03	120	145 S1+	
890-4559-2	BH04	135 S1+	161 S1+	
890-4559-3	BH05	130	158 S1+	
890-4559-4	BH06	73	55 S1-	
LCS 880-51848/2-A	Lab Control Sample	106	130	
LCS 880-52181/2-A	Lab Control Sample	70	53 S1-	
LCSD 880-51848/3-A	Lab Control Sample Dup	124	150 S1+	
LCSD 880-52181/3-A	Lab Control Sample Dup	72	53 S1-	
MB 880-51848/1-A	Method Blank	119	154 S1+	
MB 880-52181/1-A	Method Blank	67 S1-	67 S1-	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-4559-1 Project/Site: PLU 13 Dog Town Draw Battery SDG: 03C1558188

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-51796/5-A

Matrix: Solid

Analysis Batch: 51793

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 51796

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/24/23 08:38	04/24/23 11:49	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/24/23 08:38	04/24/23 11:49	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/24/23 08:38	04/24/23 11:49	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/24/23 08:38	04/24/23 11:49	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/24/23 08:38	04/24/23 11:49	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/24/23 08:38	04/24/23 11:49	1

MB MB

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	74	70 - 130
1,4-Difluorobenzene (Surr)	82	70 - 130

04/24/23 08:38 04/24/23 11:49

Analyzed

Prepared

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

Prep Batch: 51842

Analysis Batch: 51793

Lab Sample ID: MB 880-51842/5-A

Matrix: Solid

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/24/23 11:53	04/24/23 23:12	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/24/23 11:53	04/24/23 23:12	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/24/23 11:53	04/24/23 23:12	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/24/23 11:53	04/24/23 23:12	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/24/23 11:53	04/24/23 23:12	1
Xylenes, Total	< 0.00400	U	0.00400	mg/Kg		04/24/23 11:53	04/24/23 23:12	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76		70 - 130	04/24/23 11:53 04/24/23 23:1	1
1,4-Difluorobenzene (Surr)	80		70 - 130	04/24/23 11:53 04/24/23 23:1	? 1

Lab Sample ID: LCS 880-51842/1-A

Matrix: Solid

Analysis Batch: 51793

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

Prep Batch: 51842

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.07865		mg/Kg		79	70 - 130	
Toluene	0.100	0.08718		mg/Kg		87	70 - 130	
Ethylbenzene	0.100	0.08717		mg/Kg		87	70 - 130	
m-Xylene & p-Xylene	0.200	0.1841		mg/Kg		92	70 - 130	
o-Xylene	0.100	0.09410		mg/Kg		94	70 - 130	

LCS LCS

Surrogate	%Recovery Quality	fier Limits
4-Bromofluorobenzene (Surr)	114	70 - 130
1.4-Difluorobenzene (Surr)	87	70 - 130

Lab Sample ID: LCSD 880-51842/2-A

Matrix: Solid

Analysis Batch: 51793

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 51842
%Rec RPD

Spike LCSD LCSD Added Result Qualifier Unit Limits RPD Analyte %Rec Limit Benzene 0.100 0.08353 mg/Kg 84 70 - 130 6

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Dil Fac

QC Sample Results

Client: Ensolum Job ID: 890-4559-1 Project/Site: PLU 13 Dog Town Draw Battery SDG: 03C1558188

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

Lab Sample ID: LCSD 880-51842/2-A

Matrix: Solid

Analysis Batch: 51793

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 51842

LCSD LCSD Spike %Rec **RPD** Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Toluene 0.100 0.09106 mg/Kg 91 70 - 130 4 35 0.100 Ethylbenzene 0.08957 mg/Kg 90 70 - 1303 35 m-Xylene & p-Xylene 0.200 0.1885 mg/Kg 94 70 - 130 2 35 0.100 97 70 - 130 3 35 o-Xylene 0.09665 mg/Kg

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	117	70 - 130
1,4-Difluorobenzene (Surr)	109	70 - 130

Lab Sample ID: 890-4559-1 MS **Client Sample ID: BH03**

Matrix: Solid

Analysis Batch: 51793

Prep Type: Total/NA

Prep Batch: 51842

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.0990	0.07712		mg/Kg		78	70 - 130	
Toluene	<0.00200	U	0.0990	0.07818		mg/Kg		79	70 - 130	
Ethylbenzene	<0.00200	U	0.0990	0.08385		mg/Kg		85	70 - 130	
m-Xylene & p-Xylene	<0.00399	U	0.198	0.1760		mg/Kg		89	70 - 130	
o-Xylene	<0.00200	U	0.0990	0.08930		mg/Kg		90	70 - 130	

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	122	70 - 130
1,4-Difluorobenzene (Surr)	110	70 - 130

Lab Sample ID: 890-4559-1 MSD

Matrix: Solid

Analysis Batch: 51793

Client Sample ID: BH03 Prep Type: Total/NA

Prep Batch: 51842

_	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.101	0.08184		mg/Kg		81	70 - 130	6	35
Toluene	<0.00200	U	0.101	0.07949		mg/Kg		79	70 - 130	2	35
Ethylbenzene	<0.00200	U	0.101	0.07477		mg/Kg		74	70 - 130	11	35
m-Xylene & p-Xylene	<0.00399	U	0.202	0.1522		mg/Kg		75	70 - 130	15	35
o-Xylene	<0.00200	U	0.101	0.07719		mg/Kg		77	70 - 130	15	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	110		70 - 130

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

Lab Sample ID: MB 880-51848/1-A

Matrix: Solid

Analysis Batch: 51824

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

Prep Batch: 51848

MB MB Result Qualifier RL Unit Analyte Prepared Analyzed Gasoline Range Organics <50.0 U 50.0 mg/Kg 04/24/23 12:29 04/24/23 15:31

(GRO)-C6-C10

C10-C28)

Prep Batch: 51848

Client: Ensolum Job ID: 890-4559-1 Project/Site: PLU 13 Dog Town Draw Battery SDG: 03C1558188

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

Lab Sample ID: MB 880-51848/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Total/NA**

Analysis Batch: 51824

-	MB	MB					•	
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/24/23 12:29	04/24/23 15:31	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/24/23 12:29	04/24/23 15:31	1
Surrogato	MB %Pocovery	MB Qualifier	l imite			Propared	Analyzod	Dil Eac

	,,			·,	
1-Chlorooctane	119	70 - 130	04/24/23 12:29	04/24/23 15:31	1
o-Terphenyl	154 S1+	70 - 130	04/24/23 12:29	04/24/23 15:31	1
Lab Sample ID: LCS 880-5184	8/2-A		Client Sample ID:	Lab Control S	Sample

Matrix: Solid Analysis Batch: 51824								pe: Total/NA Batch: 51848
•	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	969.9		mg/Kg		97	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	911.5		mg/Kg		91	70 - 130	

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

Lab Sample ID: LCSD 880-51848/3-A	Client Sample ID: Lab Control Sample Dup
Matrix: Solid	Prep Type: Total/NA
Analysis Batch: 51824	Prep Batch: 51848

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1095		mg/Kg		109	70 - 130	12	20
Diesel Range Organics (Over	1000	1052		mg/Kg		105	70 - 130	14	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	124		70 - 130
o-Terphenyl	150	S1+	70 - 130

Lab Sample ID: 890-4554-A-11-C MS Matrix: Solid							CI	ient Sa	mple ID: Matrix Spike Prep Type: Total/NA
Analysis Batch: 51824									Prep Batch: 51848
	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits

	Sample	Sample	Spike	IVIO	IVIO				/orec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F2	997	913.0		mg/Kg		92	70 - 130	
Diesel Range Organics (Over C10-C28)	<50.0	U	997	1056		mg/Kg		106	70 - 130	
	MS	MS								

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

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Client: Ensolum Job ID: 890-4559-1 Project/Site: PLU 13 Dog Town Draw Battery SDG: 03C1558188

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

Lab Sample ID: 890-4554-A-11-D MSD

Matrix: Solid

Analysis Batch: 51824

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 51848 %Rec **RPD**

Sample Sample Spike MSD MSD Result Qualifier Result Qualifier Added Unit D %Rec Limits RPD Limit Analyte <50.0 U F2 Gasoline Range Organics 998 1200 F2 mg/Kg 120 70 - 130 27 20 (GRO)-C6-C10 998 Diesel Range Organics (Over 1231 123 70 - 130 <50.0 U mg/Kg 15 20

C10-C28)

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	109		70 - 130
o-Terphenyl	117		70 - 130

Lab Sample ID: MB 880-52181/1-A **Client Sample ID: Method Blank**

Matrix: Solid

Analysis Batch: 52159

Prep Type: Total/NA

Prep Batch: 52181

MB MB Analyte Result Qualifier RL Unit Dil Fac **Prepared** Analyzed Gasoline Range Organics <50.0 U 50.0 mg/Kg 04/28/23 09:48 04/28/23 09:19 (GRO)-C6-C10 Diesel Range Organics (Over 04/28/23 09:48 04/28/23 09:19 <50.0 U 50.0 mg/Kg C10-C28) OII Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 04/28/23 09:48 04/28/23 09:19

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	67	S1-	70 - 130	04/28/23 09:48	04/28/23 09:19	1
o-Terphenyl	67	S1-	70 - 130	04/28/23 09:48	04/28/23 09:19	1

Lab Sample ID: LCS 880-52181/2-A

Matrix: Solid

Analysis Batch: 52159

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 52181

Spike LCS LCS %Rec Added Analyte Result Qualifier Limits Unit %Rec Gasoline Range Organics 1000 70 - 130 895.1 mg/Kg 90 (GRO)-C6-C10 Diesel Range Organics (Over 1000 811.1 mg/Kg 81 70 - 130

C10-C28)

LCS LCS

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	70	70 - 130
o-Terphenyl	53 S1-	70 - 130

Lab Sample ID: LCSD 880-52181/3-A

Matrix: Solid

Analysis Batch: 52159

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 52181

7 that you button of the										
_	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	1000	903.2		mg/Kg		90	70 - 130	1	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	845.3		mg/Kg		85	70 - 130	4	20	
C10-C28)										

Client: Ensolum Job ID: 890-4559-1 Project/Site: PLU 13 Dog Town Draw Battery SDG: 03C1558188

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

Lab Sample ID: LCSD 880-52181/3-A

Matrix: Solid

Analysis Batch: 52159

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 52181

LCSD LCSD

%Recovery Qualifier Limits Surrogate 1-Chlorooctane 72 70 - 130 o-Terphenyl 53 S1-70 - 130

Client Sample ID: Matrix Spike Lab Sample ID: 880-27710-A-1-G MS

Analysis Batch: 52159

Matrix: Solid Prep Type: Total/NA

Prep Batch: 52181

MS MS %Rec Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Gasoline Range Organics <49.9 U *- F1 999 655.2 F1 mg/Kg 66 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U *- F1 999 519.9 F1 mg/Kg 52 70 - 130

C10-C28)

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 70 - 130 71 70 - 130 o-Terphenyl 51 S1-

Lab Sample ID: 880-27710-A-1-H MSD

Matrix: Solid

Analysis Batch: 52159

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 52181

Sample Sample Spike MSD MSD %Rec **RPD** Result Qualifier Added Result Qualifier Limits **RPD** Analyte Unit D %Rec I imit 628.7 F1 70 - 130 Gasoline Range Organics <49.9 U *- F1 997 mg/Kg 63 4 20 (GRO)-C6-C10 997 70 - 130 Diesel Range Organics (Over <49.9 U *- F1 492.8 F1 mg/Kg 49 5 20

C10-C28)

MSD MSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 68 S1-70 - 130 o-Terphenyl 48 S1-70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-51907/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 52121

MB MB

Result Qualifier RL Unit Dil Fac Analyte Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 04/27/23 14:42

Lab Sample ID: LCS 880-51907/2-A

Released to Imaging: 10/2/2024 3:08:23 PM

Matrix: Solid

Analysis Batch: 52121

Client Sample ID: Lab Control Sample Prep Type: Soluble

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Chloride 250 273.1 109 mq/Kq 90 - 110

QC Sample Results

Client: Ensolum Job ID: 890-4559-1
Project/Site: PLU 13 Dog Town Draw Battery SDG: 03C1558188

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-51907/3-A

Client Sample ID: Lab Control Sample Dup
Matrix: Solid

Prep Type: Soluble

Analysis Batch: 52121 LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit Chloride 250 262.9 mg/Kg 105 90 - 110 20

Lab Sample ID: 890-4556-A-1-C MS

Client Sample ID: Matrix Spike

Matrix: Solid Prep Type: Soluble

Analysis Batch: 52121
Sample Sample Spike MS MS

AnalyteResult
ChlorideResult
423QualifierAdded
253Result
688.2Qualifier
mg/KgUnit
mg/KgD
MRec
Unit
mg/Kg%Rec
Limits
105

Lab Sample ID: 890-4556-A-1-D MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Prep Type: Soluble

Analysis Batch: 52121

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Limits RPD Limit Unit %Rec Chloride 423 253 690.2 106 90 - 110 20 mg/Kg

Eurofins Carlsbad

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Client: Ensolum Project/Site: PLU 13 Dog Town Draw Battery

Job ID: 890-4559-1 SDG: 03C1558188

GC VOA

Analysis Batch: 51793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4559-1	BH03	Total/NA	Solid	8021B	51842
890-4559-2	BH04	Total/NA	Solid	8021B	51842
890-4559-3	BH05	Total/NA	Solid	8021B	51842
890-4559-4	BH06	Total/NA	Solid	8021B	51842
MB 880-51796/5-A	Method Blank	Total/NA	Solid	8021B	51796
MB 880-51842/5-A	Method Blank	Total/NA	Solid	8021B	51842
LCS 880-51842/1-A	Lab Control Sample	Total/NA	Solid	8021B	51842
LCSD 880-51842/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	51842
890-4559-1 MS	BH03	Total/NA	Solid	8021B	51842
890-4559-1 MSD	BH03	Total/NA	Solid	8021B	51842

Prep Batch: 51796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-51796/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 51842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4559-1	BH03	Total/NA	Solid	5035	
890-4559-2	BH04	Total/NA	Solid	5035	
890-4559-3	BH05	Total/NA	Solid	5035	
890-4559-4	BH06	Total/NA	Solid	5035	
MB 880-51842/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-51842/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-51842/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4559-1 MS	BH03	Total/NA	Solid	5035	
890-4559-1 MSD	BH03	Total/NA	Solid	5035	

Analysis Batch: 51938

Lab Sample ID 890-4559-1	Client Sample ID BH03	Prep Type Total/NA	Matrix Solid	Method Total BTEX	Prep Batch
890-4559-2	BH04	Total/NA	Solid	Total BTEX	
890-4559-3	BH05	Total/NA	Solid	Total BTEX	
890-4559-4	BH06	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 51824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4559-1	BH03	Total/NA	Solid	8015B NM	51848
890-4559-2	BH04	Total/NA	Solid	8015B NM	51848
890-4559-3	BH05	Total/NA	Solid	8015B NM	51848
MB 880-51848/1-A	Method Blank	Total/NA	Solid	8015B NM	51848
LCS 880-51848/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	51848
LCSD 880-51848/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	51848
890-4554-A-11-C MS	Matrix Spike	Total/NA	Solid	8015B NM	51848
890-4554-A-11-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	51848

Prep Batch: 51848

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4559-1	BH03	Total/NA	Solid	8015NM Prep	
890-4559-2	BH04	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum Job ID: 890-4559-1 Project/Site: PLU 13 Dog Town Draw Battery SDG: 03C1558188

GC Semi VOA (Continued)

Prep Batch: 51848 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4559-3	BH05	Total/NA	Solid	8015NM Prep	
MB 880-51848/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-51848/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-51848/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4554-A-11-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4554-A-11-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 51936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch
890-4559-1	BH03	Total/NA	Solid	8015 NM
890-4559-2	BH04	Total/NA	Solid	8015 NM
890-4559-3	BH05	Total/NA	Solid	8015 NM
890-4559-4	BH06	Total/NA	Solid	8015 NM

Analysis Batch: 52159

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4559-4	BH06	Total/NA	Solid	8015B NM	52181
MB 880-52181/1-A	Method Blank	Total/NA	Solid	8015B NM	52181
LCS 880-52181/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	52181
LCSD 880-52181/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	52181
880-27710-A-1-G MS	Matrix Spike	Total/NA	Solid	8015B NM	52181
880-27710-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	52181

Prep Batch: 52181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4559-4	BH06	Total/NA	Solid	8015NM Prep	
MB 880-52181/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-52181/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-52181/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-27710-A-1-G MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-27710-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 51907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4559-1	BH03	Soluble	Solid	DI Leach	
890-4559-2	BH04	Soluble	Solid	DI Leach	
890-4559-3	BH05	Soluble	Solid	DI Leach	
890-4559-4	BH06	Soluble	Solid	DI Leach	
MB 880-51907/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-51907/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-51907/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4556-A-1-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-4556-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 52121

Lab Sample ID 890-4559-1	Client Sample ID BH03	Prep Type Soluble	Matrix Solid	Method 300.0	Prep Batch 51907
890-4559-2	BH04	Soluble	Solid	300.0	51907
890-4559-3	BH05	Soluble	Solid	300.0	51907

QC Association Summary

Client: Ensolum Job ID: 890-4559-1
Project/Site: PLU 13 Dog Town Draw Battery SDG: 03C1558188

HPLC/IC (Continued)

Analysis Batch: 52121 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4559-4	BH06	Soluble	Solid	300.0	51907
MB 880-51907/1-A	Method Blank	Soluble	Solid	300.0	51907
LCS 880-51907/2-A	Lab Control Sample	Soluble	Solid	300.0	51907
LCSD 880-51907/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	51907
890-4556-A-1-C MS	Matrix Spike	Soluble	Solid	300.0	51907
890-4556-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	51907

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Project/Site: PLU 13 Dog Town Draw Battery **Client Sample ID: BH03**

Lab Sample ID: 890-4559-1

Matrix: Solid

EET MID

EET MID

Date Collected: 04/20/23 09:55 Date Received: 04/21/23 08:15

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	51842	04/24/23 11:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51793	04/24/23 23:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51938	04/25/23 10:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			51936	04/25/23 10:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	51848	04/24/23 12:29	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51824	04/24/23 18:28	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	51907	04/25/23 07:45	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52121	04/27/23 15:35	SMC	EET MID

Client Sample ID: BH04 Lab Sample ID: 890-4559-2 Date Collected: 04/20/23 10:20 **Matrix: Solid**

Date Received: 04/21/23 08:15

Batch Batch Dil Initial Final Batch Prepared Method **Prep Type** Type Run **Factor Amount** Amount Number or Analyzed **Analyst** Lab Total/NA 5035 51842 04/24/23 11:53 MNR EET MID Prep 5.03 g 5 mL Total/NA 8021B 5 mL 51793 **EET MID** Analysis 5 mL 04/24/23 23:54 MNR 1 Total/NA Total BTEX Analysis 51938 04/25/23 10:30 SM **EET MID** 1 Total/NA 8015 NM **EET MID** Analysis 1 51936 04/25/23 10:20 SM Total/NA Prep 8015NM Prep 10.02 g 10 mL 51848 04/24/23 12:29 AJ **EET MID** Total/NA 8015B NM 1 uL 51824 Analysis 1 uL 04/24/23 18:50 SM **EET MID**

Client Sample ID: BH05 Lab Sample ID: 890-4559-3 Date Collected: 04/20/23 13:50 **Matrix: Solid**

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5 g

50 mL

50 mL

50 mL

51907

52121

04/25/23 07:45 KS

04/27/23 15:40 SMC

Date Received: 04/21/23 08:15

Leach

Analysis

DI Leach

300.0

Soluble

Soluble

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	51842	04/24/23 11:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51793	04/25/23 00:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51938	04/25/23 10:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			51936	04/25/23 10:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	51848	04/24/23 12:29	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51824	04/24/23 19:11	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	51907	04/25/23 07:45	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52121	04/27/23 15:45	SMC	EET MID

Client Sample ID: BH06 Lab Sample ID: 890-4559-4 Date Collected: 04/20/23 13:15 **Matrix: Solid**

Date Received: 04/21/23 08:15

Dran Time	Batch	Batch	Dun	Dil	Initial	Final	Batch	Prepared	Amalyzat	l ab
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	51842	04/24/23 11:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51793	04/25/23 00:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51938	04/25/23 10:30	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: PLU 13 Dog Town Draw Battery

Job ID: 890-4559-1
SDG: 03C1558188

Client Sample ID: BH06 Lab Sample ID: 890-4559-4

Date Collected: 04/20/23 13:15

Date Received: 04/21/23 08:15

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			51936	04/25/23 10:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	52181	04/28/23 09:48	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52159	04/28/23 15:05	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	51907	04/25/23 07:45	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52121	04/27/23 15:49	SMC	EET MID

Laboratory References:

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

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Accreditation/Certification Summary

Client: Ensolum Job ID: 890-4559-1 Project/Site: PLU 13 Dog Town Draw Battery

SDG: 03C1558188

Laboratory: Eurofins Midland

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

Authority	Pr	rogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-22-25	06-30-23
The following analyte the agency does not		ort, but the laboratory is n	not certified by the governing authority.	This list may include analytes for which
Analysis Method	Prep Method	Matrix	Analyte	
Analysis Method 8015 NM	Prep Method	Matrix Solid	Analyte Total TPH	

Method Summary

Client: Ensolum

Project/Site: PLU 13 Dog Town Draw Battery

Job ID: 890-4559-1

SDG: 03C1558188

Method	Method Description	Protocol	Laboratory
3021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
3015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
3015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
3015NM Prep	Microextraction	SW846	EET MID
Ol Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum

Project/Site: PLU 13 Dog Town Draw Battery

Job ID: 890-4559-1

SDG: 03C1558188

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4559-1	BH03	Solid	04/20/23 09:55	04/21/23 08:15	2
890-4559-2	BH04	Solid	04/20/23 10:20	04/21/23 08:15	2
890-4559-3	BH05	Solid	04/20/23 13:50	04/21/23 08:15	2
890-4559-4	BH06	Solid	04/20/23 13:15	04/21/23 08:15	2

eurofins	E.
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Environment Texting

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, Carlshad, NM (575) 988, 3100

							Hobb	s, NM ((575) 3	92-755	0, Carist	pad, NM (575) 988-3199	www.x	enco.com Pa	ge of	
Project Manager:	Ben	Belill				Bill to: (i	if differer	at)	Garr	ett Gre	en		Wo	rk Order Commo	ents	
Company Name:	Ensc	lum				Compai	ny Nam	e :	XTO Energy				Program: UST/PST PF			
Address:	3122	National	Parks I	Hwy		Address:							State of Project:			
City, State ZIP:		bad, NM				City, Sta					VM 882	20	Reporting: Level II Leve	el III 🗌 PST/UST [TRRP Level IV	
Phone:		887-2946			Email:	Garrett		@Exx					Deliverables: EDD	ADaPT 🗆	Other:	
Project Name:	PLI	J 13 Dog	Town D	Draw Battery	Turi	n Around				,,,,,		ANALYSIS R	EQUEST	P	reservative Codes	
Project Number:			C15581		Routine	✓ Rus		Pres.						None:	NO DI Water: H ₂ O	
Project Location:					Due Date:	3 D.	٠,٠					1/10/00/1/20		Cool: C	cool MeOH: Me	
Sampler's Name: PO #:		Conn	or Whit	man	TAT starts the	ne day rece	eived by							HCL: H		
SAMPLE RECE	IPT	Temp I	Blank:	Yes No	Wet Ice:	Yes	No	Parameters	=					H ₃ PO ₄ :		
Samples Received I	_	(Yes)	No	Thermometer		MO		E .	000		1 1	890-4559 Chain) ₄ : NABIS	
Cooler Custody Sea	_	Yes No		Correction Fa		- 5	3	Par	A: 3			Unain	of Custody		0 ₃ : NaSO ₃	
Sample Custody Sea	als:	Yes No	N/A	Temperature	Reading:	1.6			(EP		1			Zn Ace	Zn Acetate+NaOH: Zn	
Total Containers:				Corrected Ter		1.0			DES	15	021)			NaOH-	-Ascorbic Acid: SAPC	
Sample Idea	ntificat	ion	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp		CHLORIDES (EPA: 3000.0)	TPH (8015)	BTEX (8021)		Sam		ample Comments	
BH03			5	4/20/23	9:55	2	G	1	1		/			Incide	nt ID:	
Bino4			1		1020	2	6	1	/	/	/				nAPP2304448906	
BHOS					1.50	2	G	1	/	/	/					
B406					1.15	2	G	1	/	1	/			Cost C	Center:	
															2191721001	
														AFE:		
						-					11.					
										1	LUL					
											/					
Total 200.7 / 60	10	200.8 / 6	020:	8R	CRA 13PP	M Tex	as 11	AI St	As	ВаВ	e B C	Cd Ca Cr Co Cu Fe P	b Mg Mn Mo Ni K Se Ag	SiO ₂ Na Sr T	I Sn U V Zn	
Circle Method(s) a	nd Me	tal(s) to b	e analy	zed	TCLP / SF	PLP 601	0: 8R0	CRA	Sb A	s Ba	Be C	d Cr Co Cu Pb Mn M	o Ni Se Ag TI U	lg: 1631 / 245.1 /	7470 / 7471	
f service. Eurofins Xend	o will be	liable only f	or the cos	t of samples and	shall not assume	any respo	nsibility	for any l	losses	or expe	nses incu	urred by the client if such losses	. It assigns standard terms and conc are due to circumstances beyond the as will be enforced unless previously	control		
Relinquished by	: (Sigr	nature)	Λ	Received	by: (Signat	ure)			Date	/Time		Relinquished by: (Sign	nature) Received by	: (Signature)	Date/Time	
Cith	Cith (Rel Ch4) 4.212			1.22	58	15	2									

5/1/2023 (Rev. 1)

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4559-1

SDG Number: 03C1558188

Login Number: 4559 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

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

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Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4559-1

SDG Number: 03C1558188

List Source: Eurofins Midland
List Number: 2
List Creation: 04/24/23 09:11 AM

Creator: Rodriguez, Leticia

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

Page 28 of 28

5/1/2023 (Rev. 1)



APPENDIX E

NMOCD Notifications

Ben Belill

From: Green, Garrett J <garrett.green@exxonmobil.com>

Sent: Thursday, March 23, 2023 9:48 AM

To: Enviro, OCD, EMNRD; Bratcher, Michael, EMNRD; Harimon, Jocelyn, EMNRD; Hamlet, Robert, EMNRD

Cc: Ben Belill; DelawareSpills /SM

Subject: XTO - 48 Hour Liner Inspection Notification - PLU 13 Dog Town Draw Battery / nAPP2304448906

[**EXTERNAL EMAIL**]

Good Morning,

This is sent as a 48-hour notification, XTO is scheduled to inspect the following lined containments listed below on Tuesday, March 28, 2023. Please call us with any questions or concerns.

Site: PLU 13 Dog Town Draw Battery Incident Number: nAPP2304448906

Time: 10:00 am MST

GPS Coordinates: (32.20569,-103.83013)

Thank you,

Garrett Green

Environmental Coordinator
Delaware Business Unit
(575) 200-0729
Garrett.Green@ExxonMobil.com

XTO Energy, Inc.

3104 E. Greene Street | Carlsbad, NM 88220 | M: (575)200-0729

Ben Belill

From: Green, Garrett J < garrett.green@exxonmobil.com>

Sent: Thursday, March 23, 2023 9:51 AM

To: Enviro, OCD, EMNRD; Bratcher, Michael, EMNRD; Harimon, Jocelyn, EMNRD; Hamlet, Robert, EMNRD

Cc: Ben Belill; DelawareSpills /SM

Subject: XTO - Sampling Notification (Week of 3/27/23 - 3/31/23)

[**EXTERNAL EMAIL**]

All,

XTO plans to complete final sampling activities at the sites listed below for the week of Mar 27, 2023.

Tuesday, Mar 28, 2023

- PLU 13 Dog Town Draw Battery / nAPP2304448906
- Nash 53 SWD / NAB1918643207, NRM2022758966, NAPP2102934064, NAPP2100847227, and NAPP2100838523

Wednesday, Mar 29, 2023

- PLU Pierce Canyon 12 Battery / nAPP2306152871
- PLU 13 Dog Town Draw Battery / nAPP2304448906

Thursday, Mar 30, 2023

- PLU Pierce Canyon 12 Battery / nAPP2306152871
- BEU 149 / NAB1814128371
- PLU 15 TWR Battery / nAPP2305833429

Friday, Mar 31, 2023

- PLU 15 TWR Battery / nAPP2305833429
- JRU 21 SWD / nAB1834656162

Thank you,

Garrett Green

Environmental Coordinator
Delaware Business Unit
(575) 200-0729
Garrett.Green@ExxonMobil.com

XTO Energy, Inc.

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

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

CONDITIONS

Action 212728

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	212728
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	XTO's deferral requests to complete final remediation during any future major construction/alteration or final plugging/abandonment, whichever occurs first. Ensolum and XTO do not believe deferment will result in imminent risk to human health, the environment, or groundwater. The area requested for deferral is the impacted soil in and around active production equipment and active pipelines in between two lined tank battery containments shown on Figure 3 of the report, which include sample area (SS01/BH01). The area has been delineated and documented in the report. At this time, OCD approves this request. The Deferral Request and C-141 will be accepted for record and marked accordingly. The release will remain open in OCD database files and reflect an open environmental issue.	9/19/2023

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

QUESTIONS

Action 383931

QUESTIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	383931
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#) nAPP2417738244	
Incident Name	NAPP2417738244 PLU 13 DTD @ 0
Incident Type	Oil Release
Incident Status	Deferral Request Received

Location of Release Source	
Please answer all the questions in this group.	
Site Name	PLU 13 DTD
Date Release Discovered	06/18/2024
Surface Owner	Federal

Incident Details	
Please answer all the questions in this group.	
Incident Type	Oil Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release		
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.		
Crude Oil Released (bbls) Details	Cause: Equipment Failure Pump Crude Oil Released: 8 BBL Recovered: 8 BBL Lost: 0 BBL.	
Produced Water Released (bbls) Details	Not answered.	
Is the concentration of chloride in the produced water >10,000 mg/l	No	
Condensate Released (bbls) Details	Not answered.	
Natural Gas Vented (Mcf) Details	Not answered.	
Natural Gas Flared (Mcf) Details	Not answered.	
Other Released Details	Not answered.	
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.	

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Midland, TX 79707

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

QUESTIONS, Page 2

Action 383931

QUESTIONS (continued)	
Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:

383931
Action Type:
[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Nature and Volume of Release (continued)		
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.	
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No	
Reasons why this would be considered a submission for a notification of a major release	Unavailable.	
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.		

nitial Response		
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.		
The source of the release has been stopped	True	
The impacted area has been secured to protect human health and the environment	True	
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True	
All free liquids and recoverable materials have been removed and managed appropriately	True	
If all the actions described above have not been undertaken, explain why	Not answered.	

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

Name: Alan Romero

Title: Regulatory Analyst

Email: alan.romero1@exxonmobil.com

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

QUESTIONS, Page 3

Action 383931

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	383931
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Site Characterization		
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)	
What method was used to determine the depth to ground water	OCD Imaging Records Lookup	
Did this release impact groundwater or surface water	No	
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:		
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (mi.)	
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)	
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)	
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)	
Any other fresh water well or spring	Between 1 and 5 (mi.)	
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)	
A wetland	Between ½ and 1 (mi.)	
A subsurface mine	Greater than 5 (mi.)	
An (non-karst) unstable area	Greater than 5 (mi.)	
Categorize the risk of this well / site being in a karst geology	Low	
A 100-year floodplain	Between ½ and 1 (mi.)	
Did the release impact areas not on an exploration, development, production, or storage site	No	

Remediation Plan		
Please answer all the questions that apply or are indicated. This information must be provided	d to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes	
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamina	ation associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	No	
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)		
Chloride (EPA 300.0 or SM4500 Cl B)	320	
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	5670	
GRO+DRO (EPA SW-846 Method 8015M)	3030	
BTEX (EPA SW-846 Method 8021B or 8260B)	7.5	
Benzene (EPA SW-846 Method 8021B or 8260B)	0	
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes compl which includes the anticipated timelines for beginning and completing the remediation.	leted efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,	
On what estimated date will the remediation commence	06/28/2024	
On what date will (or did) the final sampling or liner inspection occur	07/03/2024	
On what date will (or was) the remediation complete(d)	07/03/2024	
What is the estimated surface area (in square feet) that will be reclaimed	1030	
What is the estimated volume (in cubic yards) that will be reclaimed	270	
What is the estimated surface area (in square feet) that will be remediated	1030	
What is the estimated volume (in cubic yards) that will be remediated	270	
These estimated dates and measurements are recognized to be the best guess or calculation a	at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted	d in accordance with the physical realities encountered during remediation. If the responsible party has any need to	

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

QUESTIONS, Page 4

Action 383931

QUESTIONS (continued)

Operat	or:	OGRID:
	XTO ENERGY, INC	5380
	6401 Holiday Hill Road	Action Number:
	Midland, TX 79707	383931
		Action Type:
		[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Remediation Plan (continued)		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:		
(Select all answers below that apply.)		
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes	
Which OCD approved facility will be used for off-site disposal	HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510]	
OR which OCD approved well (API) will be used for off-site disposal	Not answered.	
OR is the off-site disposal site, to be used, out-of-state	Not answered.	
OR is the off-site disposal site, to be used, an NMED facility	Not answered.	
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.	
(In Situ) Soil Vapor Extraction	Not answered.	
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.	
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.	
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.	
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.	
OTHER (Non-listed remedial process)	Not answered.	

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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

I hereby agree and sign off to the above statement

Name: Amv Ruth

Title: Coordinator SSHE Environmental

Email: amy.ruth@exxonmobil.com

Date: 09/16/2024

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

Released to Imaging: 10/2/2024 3:08:23 PM

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QUESTIONS, Page 5

Action 383931

QUEST	IONS (continued)
Operator: XTO ENERGY, INC	OGRID: 5380
6401 Holiday Hill Road Midland, TX 79707	Action Number:
Midiand, 1X 79707	383931 Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)
QUESTIONS	
Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of	f the following items must be confirmed as part of any request for deferral of remediation.
Requesting a deferral of the remediation closure due date with the approval of this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	pipelines, stairs, stair supports, electrical lines, electrical support rails, pipeline supports Removal could cause inaccessibility to battery, electrical hazards to onsite staff, unstable production equipment, additional unauthorized releases.
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	1030
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	270
	intely under or around production equipment such as production tanks, wellheads and pipelines where in may be deferred with division written approval until the equipment is removed during other operations, or when
Enter the facility ID (f#) on which this deferral should be granted	PLU 13 DOG TOWN DRAW EAST BTY [fAPP2126355488]
Enter the well API (30-) on which this deferral should be granted	Not answered.
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed e which includes the anticipated timelines for beginning and completing the remediation.	fforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC
to report and/or file certain release notifications and perform corrective actions for relethe OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required asses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or

local laws and/or regulations.

Title: Coordinator SSHE Environmental I hereby agree and sign off to the above statement Email: amy.ruth@exxonmobil.com Date: 09/16/2024

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QUESTIONS, Page 6

Action 383931

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	383931
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Sampling Event Information		
Last sampling notification (C-141N) recorded	357836	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/03/2024	
What was the (estimated) number of samples that were to be gathered	10	
What was the sampling surface area in square feet	1000	

Remediation Closure Request Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.		
		emediation steps have been completed.
Requesting a remediation closure approval with this submission		No

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CONDITIONS

Action 383931

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	383931
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	XTO's deferral requests final remediation for (Incident Number NAPP2417738244) until final reclamation of the well pad or major construction, whichever comes first. Ensolum and XTO do not believe deferment will result in imminent risk to human health, the environment, or groundwater. The impacted soil is the area in blue on figure 3 in the immediate vicinity to borehole BH01 that is limited to the area beneath active production equipment and pipelines, where remediation would require a major facility deconstruction. At this time, OCD approves this request. The Deferral Request and C-141 will be accepted for record and marked accordingly. The release will remain open in OCD database files and reflect an open environmental issue.	10/2/2024