Page 1 of 151

Incident ID:	nAB1528240224
District RP	
Facility ID	
Application ID	

Closure

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

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

	1 NMAC						
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)							
☐ Laboratory analyses of final sampling (Note: appropriate ODC	District office must be notified 2 days prior to final sampling)						
□ Description of remediation activities							
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and remhuman health or the environment. In addition, OCD acceptance of a compliance with any other federal, state, or local laws and/or regular restore, reclaim, and re-vegetate the impacted surface area to the coraccordance with 19.15.29.13 NMAC including notification to the Ocean	nediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for tions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete.						
Printed Name: Jim Raley Signature:							
Signature: / /	Date: 0/21/2023						
	Telephone:575-689-7597						
email: <u>jim.raley@dvn.com</u>							
email: <u>jim.raley@dvn.com</u>							
OCD Only Received by: Robert Hamlet Closure approval by the OCD does not relieve the responsible party of	Telephone:575-689-7597 Date:11/29/2023 of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible						
OCD Only Received by: Robert Hamlet Closure approval by the OCD does not relieve the responsible party or remediate contamination that poses a threat to groundwater, surface we have the responsible party or remediate contamination that poses a threat to groundwater, surface we have the responsible party or remediate contamination that poses a threat to groundwater, surface we have the responsible party or remediate contamination that poses a threat to groundwater, surface we have the responsible party or remediate contamination that poses a threat to groundwater, surface we have the responsible party or remediate contamination that poses a threat to groundwater, surface we have the responsible party or remediate contamination that poses a threat to groundwater, surface we have the responsible party or remediate contamination that poses a threat to groundwater, surface we have the responsible party or remediate contamination that poses a threat to groundwater, surface we have the responsible party or remediate contamination that poses a threat to groundwater, surface we have the responsible party or remediate contamination that poses a threat to groundwater, surface we have the responsible party or remediate contamination that poses are threat to groundwater.	Telephone:575-689-7597 Date:11/29/2023 of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible						



CLOSURE REQUEST REPORT

Site Location:

Ross Draw Unit #034 Eddy County, New Mexico Incident Number nAB1528240224

June 20, 2023 Ensolum Project No. 03A1987018

Prepared for:

WPX Energy Permian, LLC 5315 Buena Vista Drive Carlsbad, New Mexico 88220 Attention: Jim Raley

Prepared by:

Ashley Giovengo Senior Engineer Daniel R. Moir, PG Senior Managing Geologist

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	1.2 Site Characterization
2.0	REMEDIATION ACTIONS
	2.1 Excavation Activities
	2.2 Waste Handling
3.0	SOIL SAMPLING RESULTS
4.0	CLOSURE REQUEST

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Appendix C: Laboratory Analytical Reports & Chain-of-Custody Documentation

Appendix D: Email Correspondence

1.0 INTRODUCTION

Ensolum, LLC (Ensolum) has prepared this Closure Request Report (CRR) to document assessment and soil sampling activities and final corrective actions performed to date for WPX Energy Permian, LLC (WPX) at the Ross Draw Unit #034 (Site), located in Unit D, Section 22, Township 26 South, Range 30 East, in Eddy County, New Mexico. Additional remediation was conducted as outlined in the Remediation Work Plan Addendum (RWPA), which was approved by the New Mexico Oil Conservation Division (NMOCD) on December 29, 2022, with the following condition:

"Five-composite confirmation samples representative of no more than 200 square feet must be collected from the base and walls of the excavation prior to backfilling activities."

Based on the completed remedial actions and results of subsequent soil sampling events to address the release of produced water at the Site, WPX is respectfully requesting No Further Action (NFA) for Incident Number nAB1528240224. All previous remediation activities and soil sample analytical results can be referenced in the original RWPA, and subsequent CRR, prepared by Ensolum.

1.1 Site Description and Release Background

The Site is located within Eddy County, New Mexico (32.0336418° N, 103.8763428° W) and is associated with oil and gas exploration and production operations on Bureau of Land Management (BLM)-managed federal land (see **Figure 1)**.

On October 6, 2015, a poly line carrying natural gas parted and caught fire. Produced water lines laying near the natural gas line melted, causing the release of approximately 70 barrels (bbls) of produced water onto the pipeline right-of-way (ROW); 55 bbls of produced water was recovered from the off-pad spill area. RKI E&P, LLC (RKI) reported the release to the NMOCD on a Release Notification and Corrective Action Form (Form C-141) and subsequently the release was assigned Incident Number nAB1528240224 (2RP-3322), see **Appendix A**.

1.2 Site Characterization

The Site was assessed to determine applicability of Table I, Closure Criteria for Soils Impacted by a Release, from Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of Form C-141, Site Assessment/Characterization, and have also been documented in previous reports submitted to the NMOCD. Potential Site receptors are identified on **Figure 1**.

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

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



A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top 4 feet of the pasture area that was impacted by the release.

2.0 REMEDIATION ACTIONS

Ensolum conducted soil sampling activities at the Site to verify the final removal of waste-containing soil associated with the subject release through excavation efforts. Approximately 195 cubic yards of impacted soil were removed from the Site and disposed of under WPX-approved manifests.

2.1 Excavation Activities

Between February 20 and March 13, 2022, Ensolum oversaw excavation activities to remove residual waste-containing soil associated with the subject release in the top 4 feet via mechanical heavy equipment. Excavation activities were directed by referencing delineation laboratory analytical results documented in the RWPA and field screening for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. As a result, two separate excavations were advanced to address the area of concern (AOC). Photographic documentation was conducted during excavation activities and is included in **Appendix B**.

Following removal of waste-containing soil, Ensolum collected composite excavation confirmation soil samples at the sampling frequency of every 200 square feet from the sidewalls and floors of the excavations to confirm waste-containing soil above reclamation requirements and/or Closure Criteria was successfully removed. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Confirmation soil samples SW01 through SW06 were collected from the sidewalls of the excavations at depths ranging from the ground surface to approximately 4 feet below ground surface (bgs). Confirmation soil samples FS01 through FS06 were collected from the floors of the excavations at a depth of approximately 4 feet bgs. The excavations and confirmation soil samples 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 and chilled, under strict chain-of-custody procedures, to Eurofins LLC (Eurofins) in Carlsbad, New Mexico, for analysis of the following chemicals of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH following EPA Method 8015M/D; and chloride following EPA Method 300.0.

2.2 Waste Handling

A total of approximately 195 cubic yards of waste-containing soil were excavated and removed from the Site. All waste-containing soil was hauled to the R360 landfill facility located in Orla, Texas under WPX-approved manifests. The excavations were backfilled with locally sourced topsoil to match pre-existing conditions.



3.0 SOIL SAMPLING RESULTS

Laboratory analytical results of confirmation soil samples collected on March 13, 2023, indicated concentrations of all COCs were in compliance with the Closure Criteria for the Site and with the reclamation requirement. The analytical results are summarized on **Table 1**, the executed chain-of-custody forms and laboratory analytical reports are provided in **Appendix C**. **Appendix D** provides extension and correspondence email notification receipts associated with the subject release.

4.0 CLOSURE REQUEST

The primary objectives of Ensolum's scope of services were to document remediation activities performed at the Site in accordance with the approved RWPA and applicable NMOCD regulatory guidelines. Based on the results documented in this report, the following findings and conclusions regarding the subject release are presented:

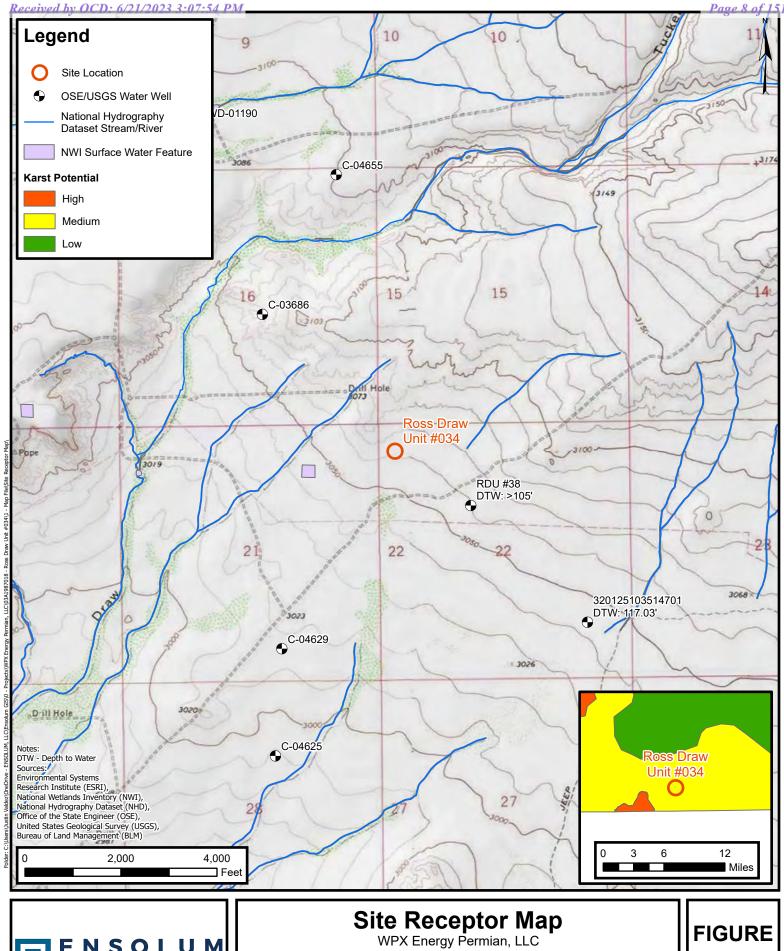
- Laboratory analytical results for confirmation floor soil samples FS01 through FS06 and sidewall soil samples SW01 through SW06 were in compliance with the Site Closure Criteria and with the reclamation requirement;
- An estimated total of 195 cubic yards of waste-containing soil has been removed from the subject release area;
- The excavations have been backfilled with locally sourced topsoil to match pre-existing Site conditions: and
- Areas off-pad will be seeded in the fall with a BLM-approved seed mixture in order to revegetate areas disturbed in the pasture.

Based on the conclusions presented, WPX believes the remediation activities described above have met the requirements set forth in 19.15.29.13 NMAC in order to be protective of human health, the environment, and groundwater. As such, WPX respectfully requests NFA of Incident Number nAB1528240224 (2RP-3322).





FIGURES





Ross Draw Unit #034 Incident Number: nAPP2107554265 Unit D, Section 22, Township 26S, Range 30 East Eddy County, New Mexico

Released to Imaging: 11/29/2023 10:08:49 AM





Confirmation Soil Sample Locations WPX Energy Permian, LLC

WPX Energy Permian, LLC
Ross Draw Unit #034
Incident Number: nAPP2107554265
Unit D, Section 22, Township 26S, Range 30 East
Eddy County, New Mexico

FIGURE 2



TABLES



TABLE I SOIL SAMPLE ANALYTICAL RESULTS WPX Energy Permian, LLC - Ross Draw Unit #034 Eddy County, New Mexico

Ensolum Project No. 03A1987018

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I	Closure Criteria	(NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
				Excavation	on Soil Sample Analy	tical Results				
SW01	03/13/2023	0-4	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	53.7
SW02	03/13/2023	0-4	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	104
SW03	03/13/2023	0-4	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	445
SW04	03/13/2023	0-4	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	157
SW05	03/13/2023	0-4	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	520
SW06	03/13/2023	0-4	<0.00200	0.00421	<49.9	<49.9	<49.9	<49.9	<49.9	9.01
FS01	03/13/2023	4	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	557
FS02	03/13/2023	4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	509
FS03	03/13/2023	4	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	1,100
FS04	03/13/2023	4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	2,090
FS05	03/13/2023	4	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	12.7
FS06	03/13/2023	4	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	657

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

"<": Analytical results is less than the laboratory reporting limit

Ensolum 1 of 1



APPENDIX A

C-141 Form

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

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action												
	<u> 2824</u>			<u> </u>	Ω	OPERA?		Σ	Initia	al Report		Final Report
Name of Co		RKI E&P, L		HUMB	4	Contact	Taylor Jones					
Address Facility Nan				.C, OK 73102			lo. 405-996-57 e : Oil and Gas		···			
				· · · · · · · · · · · · · · · · · · ·			e : On and Gas					+
Surface Own	Surface Owner: Federal Mineral Owner				wner: I	Federal		<u>l</u>	API No	o. 30-015-4	1578	
				LOCA	TION	OF REI	LEASE					
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	East/We:	st Line	County		
D	22	26S	30E	600	FNL		435	FWL		Eddy		
						Longitude OF REL	e: -103.8763428 E ASE					
Type of Relea						· · · · · · · · · · · · · · · · · · ·	Release: 70 Bbls	;	Volum	e Recovered	: 55 B	bls
Source of Rel	lease Surf	ace Poly line				1	lour of Occurrenc 300hrs MT	e		nd Hour of E 15 – 0300hrs		гу
Was Immedia	te Notice (Yes [No Not Re	auired	If YES, To	Whom? Shelly T	ucker (BL	·M)	M OIL C	ONS	ERVATION
By Whom? Z	ack Laird				1	Date and b	lour: 10/07/15 – 1	130hrs				STRICT
Was a Water							lume Impacting t		ourse.	nrt	0.7	2015
			Yes 🗵] No		N/A				001	0 7	2013
If a Watercourse was Impacted, Describe Fully.* N/A RECEIVED						/FD						
	KECLIVED											
Describe Cau A poly line ca lines causing	arrying nati		and caug	n Taken.* ht fire on the ROV	V which	has 2 other g	as lines and 5 pol	y water lin	nes on it	which in tur	n melt	ed the water
Describe Are	a Affected	and Cleanup A	Action Tal	cen.*								
		nained on pipe roduced water		, affecting a 25'x	25° area.	. Gas to poly	line was shut in a	allowing fi	re to ext	inguish. Va	e truck	dispatched
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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>"</i> ""					OIL CON	<u>SERVA</u>	<u>TION</u>	DIVISIO	Й	
Signature:	layer.	e-Jon							11			
Printed Name	: Taylor Jo	ones		•		Approved by	Environmental S	pecialist:	1	~{/	7	
Title: EHS S	ystems Spe	ecialist				Approval Da	e: 10 9 15	Ex	piration	Date: N	IA)	
E-mail Addre	ss: Tjones	@rkixp.com				Conditions of	Approval:			Attached		
Date: 10/07/	15	P	hone: 405	-996-5782 ·			on per O.C.D.			ielines	u	
Attach Addit						UBMIT RI ATER TH <i>I</i>	AN:	3115)SAL 1 	, 10	26	P-332

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:	nAB1528240224
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: WPX Energy Permian, LLC			resp		J				
Contact email: jim.raley@dvn.com	Responsible Party: V	VPX Energy Permian,	LLC	OGRID: 2	OGRID: 246289				
Contact mailing address: 5315 Buena Vista Dr, Carlsbad, NM, 88220 Location of Release Source	Contact Name: Jim F	laley		Contact Te	Contact Telephone: 575-689-7597				
Location of Release Source Latitude 32.0336418	Contact email: jim.ra	ley@dvn.com		Incident #	(assigned by OCD): nAB1528240224				
Site Name: Ross Draw Unit #34 Site Type: Oil and Gas Well	Contact mailing addr	ress: 5315 Buena Vista	a Dr, Carlsbad, NM	, 88220					
Site Name: Ross Draw Unit #34 Site Type: Oil and Gas Well			Location	of Release So	ource				
Site Name: Ross Draw Unit #34 Date Release Discovered: 10/6/2015 API# (if applicable): 30-015-41578 Unit Letter Section Township Range County D 22 268 30E Eddy Surface Owner: ☐ State Federal ☐ Tribal ☐ Private (Name:	Latitude 32.0	336418		Longitude _	-103.8763428				
Date Release Discovered: 10/6/2015 API# (if applicable): 30-015-41578 Unit Letter			(NAD 83 in deci	imal degrees to 5 decin	mal places)				
Unit Letter Section Township Range County D 22 26S 30E Eddy Surface Owner:	Site Name: Ross Drav	w Unit #34		Site Type:	Oil and Gas Well				
D 22 26S 30E Eddy Surface Owner: □ State ☒ Federal □ Tribal □ Private (Name:	Date Release Discove	red: 10/6/2015		API# (if app	plicable): 30-015-41578				
D 22 26S 30E Eddy Surface Owner: □ State ☒ Federal □ Tribal □ Private (Name:									
Surface Owner: State Federal Tribal Private (Name:					·				
Nature and Volume of Release Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below) Crude Oil Volume Released (bbls): Volume Recovered (bbls): Produced Water Volume Released (bbls): 70 Bbls Volume Recovered (bbls): 55 Bbls Is the concentration of dissolved chloride in the produced water >10,000 mg/l? Condensate Volume Released (bbls) Volume Recovered (bbls) Natural Gas Volume Released (Mcf) Volume Recovered (Mcf) Other (describe) Volume/Weight Released (provide units) Cause of Release:	D 22	268	30E	Eddy	У				
Nature and Volume of Release Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below) Crude Oil Volume Released (bbls): Volume Recovered (bbls): Produced Water Volume Released (bbls): 70 Bbls Volume Recovered (bbls): 55 Bbls Is the concentration of dissolved chloride in the produced water >10,000 mg/l? Condensate Volume Released (bbls) Volume Recovered (bbls) Natural Gas Volume Released (Mcf) Volume Recovered (Mcf) Other (describe) Volume/Weight Released (provide units) Cause of Release:	Surface Owner: St	ate 🛛 Federal 🗀 T	ribal	Jame:)				
Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below) □ Crude Oil Volume Released (bbls): Volume Recovered (bbls): □ Produced Water Volume Released (bbls): 70 Bbls Volume Recovered (bbls): 55 Bbls □ Is the concentration of dissolved chloride in the produced water >10,000 mg/l? □ Condensate Volume Released (bbls) Volume Recovered (bbls) □ Natural Gas Volume Released (Mcf) Volume Recovered (Mcf) □ Other (describe) Volume/Weight Released (provide units) Volume/Weight Recovered (provide units)									
☐ Crude Oil Volume Released (bbls): Volume Recovered (bbls): ☐ Produced Water Volume Released (bbls): 70 Bbls Volume Recovered (bbls): 55 Bbls ☐ Is the concentration of dissolved chloride in the produced water >10,000 mg/l? X Yes ☐ No ☐ Condensate Volume Released (bbls) Volume Recovered (bbls) ☐ Natural Gas Volume Released (Mcf) Volume Recovered (Mcf) ☐ Other (describe) Volume/Weight Released (provide units) Volume/Weight Recovered (provide units)			Nature and	Volume of 1	Release				
☑ Produced Water Volume Released (bbls): 70 Bbls Volume Recovered (bbls): 55 Bbls Is the concentration of dissolved chloride in the produced water >10,000 mg/l? ☑ Yes ☐ No ☐ Condensate Volume Released (bbls) Volume Recovered (bbls) ☐ Natural Gas Volume Released (Mcf) Volume Recovered (Mcf) ☐ Other (describe) Volume/Weight Released (provide units) Volume/Weight Recovered (provide units)	M	aterial(s) Released (Select a	all that apply and attach	calculations or specific	c justification for the volumes provided below)				
Is the concentration of dissolved chloride in the produced water >10,000 mg/l? Condensate Volume Released (bbls) Volume Recovered (bbls) Natural Gas Volume Released (Mcf) Volume Recovered (Mcf) Other (describe) Volume/Weight Released (provide units) Volume/Weight Recovered (provide units) Cause of Release:	Crude Oil	Volume Release	ed (bbls):		Volume Recovered (bbls):				
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□ Natural Gas Volume Released (Mcf) Volume Recovered (Mcf) □ Other (describe) Volume/Weight Released (provide units) Volume/Weight Recovered (provide units) Cause of Release: Volume/Weight Recovered (provide units)					X Yes No				
Other (describe) Volume/Weight Released (provide units) Volume/Weight Recovered (provide units) Cause of Release:	Condensate	Volume Release	ed (bbls)		Volume Recovered (bbls)				
Cause of Release:	Natural Gas Volume Released (Mcf)				Volume Recovered (Mcf)				
	Other (describe) Volume/Weight Released (provide units)			units)	Volume/Weight Recovered (provide units)				
melted the water lines causing the produced water release. $bbl\ estimate = \frac{saturated\ soil\ volume(ft^3)}{4.21(\frac{ft^3}{bbl\ equivalent})}*\ estimated\ soil\ porosity\ (\%) + recovered\ fluids\ (bbls)$	A poly line carrying namelted the water lines	causing the produced	water release.						

Received by OCD: 6/21/2023 3:07:54 PM Form C-141 State of New Mexico Page 2 Oil Conservation Division

	Page	21	5 o	f1	51	Į
Incident ID:	nAB1528240224					

Incident ID:	nAB1528240224
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the respo	nsible party consider this a major release?
release as defined by 19.15.29.7(A) NMAC?	The release was greater than 25 barrels.	
	The release was greater than 25 barrers.	
Yes No		
If YES, was immediate no	Lotice given to the OCD? By whom? To wh	nom? When and by what means (phone, email, etc)?
	Ç	•
A notice was given by Ta	ylor Jones to Shelly Tucker (BLM) and Heat	ther Patterson (EMNRD) via email on October 07, 2015.
	Initial Ro	esponse
The responsible		y unless they could create a safety hazard that would result in injury
		i
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 d	ikes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed and	d managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain v	vhy:
B 10.15.20.0 B (4) ND	God 31	
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.
		best of my knowledge and understand that pursuant to OCD rules and
-		ications and perform corrective actions for releases which may endanger CD does not relieve the operator of liability should their operations have
failed to adequately investig	ate and remediate contamination that pose a thre	at to groundwater, surface water, human health or the environment. In
addition, OCD acceptance o and/or regulations.	f a C-141 report does not relieve the operator of	responsibility for compliance with any other federal, state, or local laws
Drintad Namas Lim Dala		Title: Environmental Professional
Printed Name: Jim Raie	ey e	Title: Environmental Professional
Signature:		Date: 6/21/2023
email: <u>jim.raley@dvn.</u>	com	Telephone: <u>575-689-7597</u>
OCD Only		
Received by:		Date:

e of New Mexico

Incident ID nAB1528240224

Incident ID	nAB1528240224
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.

This information mass be provided to the appropriate district office no taler man 20 days after the release discovery date.					
What is the shallowest depth to groundwater beneath the area affected by the release?	<u>>105</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?	X Yes No				
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.					
Characterization Report Checklist: Each of the following items must be included in the report.					
 Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data Data table of soil contaminant concentration data Depth to water determination 					

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.

Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release

Photographs including date and GIS information

■ Laboratory data including chain of custody

Boring or excavation logs

Topographic/Aerial maps

Received by OCD: 6/21/2023 3:07:54 PM Form C-141 State of New Mexico Page 4 Oil Conservation Division

	Page 17 of 15
Incident ID:	nAB1528240224
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: Jim Raley

Title: Environmental Professional

Date: 6/21/2023

Email: jim.raley@dvn.com

Telephone: 575-689-7597

DOCD Only

Received by: Date: Date:

Received by OCD: 6/21/2023 3:07:54 PM Form C-141 State of New Mexico Page 6 Oil Conservation Division

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Incident ID: nAB1528240224
District RP
Facility ID
Application ID

Closure

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

and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: Jim Raley	Closure Report Attachment Checklist: Each of the following it	tems must be included in the closure report.
must be notified 2 days prior to liner inspection) Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling) Description of remediation activities I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rule and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the clease or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: Jim Raley Title: Environmental Professional Date: 6/21/2023 Date: 6/21/2023 Telephone: 575-689-7597 OCD Only Received by: Date: 575-689-7597 OCD Only Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate a remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsil party of compliance with any other federal, state, or local laws and/or regulations.	A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rule and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: Jim Raley Title: Environmental Professional Signature: Date: Date: Date: Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate a remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsib party of compliance with any other federal, state, or local laws and/or regulations.		of the liner integrity if applicable (Note: appropriate OCD District office
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rule and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: Jim Raley Title: Environmental Professional Date: 6/21/2023 Signature: Date: 575-689-7597 OCD Only Received by: Date: 575-689-7597 Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate a remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsil party of compliance with any other federal, state, or local laws and/or regulations. Closure Approved by: Date:	☐ Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)
and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: Jim Raley	□ Description of remediation activities	
may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name:		
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate a remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations. Closure Approved by: Date:	and regulations all operators are required to report and/or file certai may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and replaced human health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regular restore, reclaim, and re-vegetate the impacted surface area to the coaccordance with 19.15.29.13 NMAC including notification to the Corporated Name:	n release notifications and perform corrective actions for releases which a C-141 report by the OCD does not relieve the operator of liability mediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for ations. The responsible party acknowledges they must substantially anditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete. Title: Environmental Professional
OCD Only Received by: Date: Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate a remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsil party of compliance with any other federal, state, or local laws and/or regulations. Closure Approved by: Date:	Signature:	Date:6/21/2023
Received by: Date: Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate a remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations. Closure Approved by: Date:	email: <u>jim.raley@dvn.com</u>	Telephone: <u>575-689-7597</u>
Received by: Date: Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate a remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations. Closure Approved by: Date:		
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate a remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations. Closure Approved by: Date:	OCD Only	
remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsit party of compliance with any other federal, state, or local laws and/or regulations. Closure Approved by: Date:	Received by:	Date:
	remediate contamination that poses a threat to groundwater, surface	water, human health, or the environment nor does not relieve the responsible
Printed Name: Title:	Closure Approved by:	Date:
	Printed Name:	Title:



APPENDIX B

Photographic Log

ENSOLUM

Photographic Log

WPX Energy Permian, LLC.
Ross Draw Unit #034
Incident Number: nAB1528240224





Photograph 1 Date: 02/20/2023

Description: Site assessment, poly line relocation.

View: Southwest

Photograph 2 Date: 03/13/2023

Description: Western excavation activities.

View: Southwest





Photograph 3 Date: 03/13/2023

Description: Eastern excavation activities.

View: Southeast

Photograph 4 Date: 03/13/2023

Description: Eastern excavation activities.

View: Southwest



APPENDIX C

Laboratory Analytical Reports & Chain-of-Custody Documentation

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Devon Team Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701

Generated 3/26/2023 7:38:47 AM

JOB DESCRIPTION

Ross Draw Unit #034 SDG NUMBER 03A1987018

JOB NUMBER

890-4305-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Released to Imaging: 11/29/2023 10:08:49 AM

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 3/26/2023 7:38:47 AM

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

Client: Ensolum
Project/Site: Ross Draw Unit #034
Laboratory Job ID: 890-4305-1
SDG: 03A1987018

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Definitions/Glossary

Job ID: 890-4305-1 Client: Ensolum Project/Site: Ross Draw Unit #034

SDG: 03A1987018

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.

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)

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

NC Not Calculated

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

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

TNTC Too Numerous To Count

Eurofins Carlsbad

Case Narrative

Client: Ensolum

Project/Site: Ross Draw Unit #034

Job ID: 890-4305-1

SDG: 03A1987018

Job ID: 890-4305-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4305-1

Receipt

The samples were received on 3/14/2023 9:14 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 0.8°C

GC VOA

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

GC Semi VOA

Method 8015MOD NM: The surrogate recovery for the blank associated with preparation batch 880-48883 and analytical batch 880-48946 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-48883/2-A) and (LCSD 880-48883/3-A). 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.

Job ID: 890-4305-1

Client: Ensolum Project/Site: Ross Draw Unit #034 SDG: 03A1987018

Client Sample ID: SW01 Lab Sample ID: 890-4305-1 Date Collected: 03/13/23 14:30

Matrix: Solid Date Received: 03/14/23 09:14

Sample Depth: 0 - 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/22/23 13:23	03/23/23 13:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/22/23 13:23	03/23/23 13:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/22/23 13:23	03/23/23 13:32	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/22/23 13:23	03/23/23 13:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/22/23 13:23	03/23/23 13:32	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/22/23 13:23	03/23/23 13:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130				03/22/23 13:23	03/23/23 13:32	1
1,4-Difluorobenzene (Surr)	110		70 - 130				03/22/23 13:23	03/23/23 13:32	1
Method: TAL SOP Total BTEX -	Total BTEX Cal	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/24/23 08:51	1
- Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg				
=					99			03/22/23 16:11	1
Method: SW846 8015B NM - Die	sel Range Orga	nics (DRO)						03/22/23 16:11	1
Method: SW846 8015B NM - Die Analyte	•	nics (DRO) Qualifier		MDL	Unit	D	Prepared	03/22/23 16:11 Analyzed	·
	•	Qualifier	(GC)	MDL		<u>D</u>	Prepared 03/18/23 09:47		Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U	(GC)	MDL	Unit	<u>D</u>	<u>·</u>	Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <50.0	Qualifier U	(GC) RL 50.0	MDL	Unit mg/Kg	D	03/18/23 09:47	Analyzed 03/20/23 16:56	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0	Qualifier U U U	(GC) RL 50.0	MDL	Unit mg/Kg mg/Kg	<u>D</u>	03/18/23 09:47	Analyzed 03/20/23 16:56 03/20/23 16:56	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0 <50.0 <50.0	Qualifier U U U	(GC) RL 50.0 50.0	MDL	Unit mg/Kg mg/Kg	<u> </u>	03/18/23 09:47 03/18/23 09:47 03/18/23 09:47	Analyzed 03/20/23 16:56 03/20/23 16:56 03/20/23 16:56	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result	Qualifier U U U	(GC) RL 50.0 50.0 50.0 Limits	MDL	Unit mg/Kg mg/Kg	<u> </u>	03/18/23 09:47 03/18/23 09:47 03/18/23 09:47 Prepared	Analyzed 03/20/23 16:56 03/20/23 16:56 03/20/23 16:56 Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U U Qualifier	RL 50.0 50.0 50.0 50.0 50.0 Limits 70 - 130 70 - 130	MDL	Unit mg/Kg mg/Kg	<u>D</u>	03/18/23 09:47 03/18/23 09:47 03/18/23 09:47 Prepared 03/18/23 09:47	Analyzed 03/20/23 16:56 03/20/23 16:56 03/20/23 16:56 Analyzed 03/20/23 16:56	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U Qualifier	RL 50.0 50.0 50.0 50.0 50.0 Limits 70 - 130 70 - 130	MDL	Unit mg/Kg mg/Kg mg/Kg	<u>D</u>	03/18/23 09:47 03/18/23 09:47 03/18/23 09:47 Prepared 03/18/23 09:47	Analyzed 03/20/23 16:56 03/20/23 16:56 03/20/23 16:56 Analyzed 03/20/23 16:56	Dil Face

Client Sample ID: SW02 Lab Sample ID: 890-4305-2

Date Collected: 03/13/23 15:00 Date Received: 03/14/23 09:14

Sample Depth: 0 - 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/22/23 13:23	03/23/23 13:52	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/22/23 13:23	03/23/23 13:52	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/22/23 13:23	03/23/23 13:52	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/22/23 13:23	03/23/23 13:52	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/22/23 13:23	03/23/23 13:52	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/22/23 13:23	03/23/23 13:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				03/22/23 13:23	03/23/23 13:52	1

Eurofins Carlsbad

Matrix: Solid

Client Sample Results

 Client: Ensolum
 Job ID: 890-4305-1

 Project/Site: Ross Draw Unit #034
 SDG: 03A1987018

Client Sample ID: SW02 Lab Sample ID: 890-4305-2

Date Collected: 03/13/23 15:00 Matrix: Solid
Date Received: 03/14/23 09:14

Sample Depth: 0 - 4

Chloride

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	110		70 - 130				03/22/23 13:23	03/23/23 13:52	1
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			03/24/23 08:51	1
Method: SW846 8015 NM - Dies	sel Range Organ	ics (DRO) (GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/22/23 16:11	1
Analyte	Result	Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
Method: SW846 8015B NM - Did	esel Range Orga	nics (DRO)	(GC)						
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		03/18/23 09:47	03/20/23 17:18	1
(GRO)-C6-C10 Diesel Range Organics (Over	<49.9	П	49.9		mg/Kg		03/18/23 09:47	03/20/23 17:18	1
C10-C28)	140.0	O	40.0		mg/rtg		00/10/20 00.47	00/20/20 17:10	
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/18/23 09:47	03/20/23 17:18	1
		Qualifier	Limits				Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	-,							
Surrogate 1-Chlorooctane	%Recovery 79	4	70 - 130				03/18/23 09:47	03/20/23 17:18	1

24.9

mg/Kg

104

03/22/23 21:53

Surrogate Summary

Client: Ensolum Job ID: 890-4305-1
Project/Site: Ross Draw Unit #034 SDG: 03A1987018

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-4305-1	SW01	122	110
890-4305-1 MS	SW01	113	113
890-4305-1 MSD	SW01	114	110
890-4305-2	SW02	118	110
LCS 880-49216/1-A	Lab Control Sample	102	108
LCSD 880-49216/2-A	Lab Control Sample Dup	102	108
MB 880-49216/5-A	Method Blank	99	101

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

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

Matrix: Solid Prep Type: Total/NA

_			
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-25948-A-1-B MS	Matrix Spike	89	91
880-25948-A-1-C MSD	Matrix Spike Duplicate	87	90
890-4305-1	SW01	74	81
890-4305-2	SW02	79	91
LCS 880-48883/2-A	Lab Control Sample	117	140 S1+
LCSD 880-48883/3-A	Lab Control Sample Dup	131 S1+	156 S1+
MB 880-48883/1-A	Method Blank	134 S1+	160 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Released to Imaging: 11/29/2023 10:08:49 AM

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Client: Ensolum Job ID: 890-4305-1 SDG: 03A1987018 Project/Site: Ross Draw Unit #034

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-49216/5-A

Analysis Batch: 49289

Matrix: Solid

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 49216

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	MB	MB							
Analyte	Result	Qualifier	RL	MDL U	Jnit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	m	ng/Kg	_	03/22/23 13:23	03/23/23 12:26	1
Toluene	<0.00200	U	0.00200	m	ng/Kg		03/22/23 13:23	03/23/23 12:26	•
Ethylbenzene	<0.00200	U	0.00200	m	ng/Kg		03/22/23 13:23	03/23/23 12:26	
m-Xylene & p-Xylene	<0.00400	U	0.00400	m	ng/Kg		03/22/23 13:23	03/23/23 12:26	
o-Xylene	<0.00200	U	0.00200	m	ng/Kg		03/22/23 13:23	03/23/23 12:26	
Xylenes, Total	<0.00400	U	0.00400	m	ng/Kg		03/22/23 13:23	03/23/23 12:26	

мв мв

MD MD

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	03/22/23 13:23	03/23/23 12:26	1
1,4-Difluorobenzene (Surr)	101	7	70 - 130	03/22/23 13:23	03/23/23 12:26	1

Lab Sample ID: LCS 880-49216/1-A

Matrix: Solid

Analysis Batch: 49289

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 49216

	Бріке	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09819		mg/Kg		98	70 - 130	
Toluene	0.100	0.09454		mg/Kg		95	70 - 130	
Ethylbenzene	0.100	0.08635		mg/Kg		86	70 - 130	
m-Xylene & p-Xylene	0.200	0.1710		mg/Kg		85	70 - 130	
o-Xylene	0.100	0.08571		mg/Kg		86	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	102	70 - 130
1,4-Difluorobenzene (Surr)	108	70 - 130

Lab Sample ID: LCSD 880-49216/2-A

Matrix: Solid

Analysis Batch: 49289

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 49216

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.09773		mg/Kg		98	70 - 130	0	35	
Toluene	0.100	0.09731		mg/Kg		97	70 - 130	3	35	
Ethylbenzene	0.100	0.08515		mg/Kg		85	70 - 130	1	35	
m-Xylene & p-Xylene	0.200	0.1677		mg/Kg		84	70 - 130	2	35	
o-Xylene	0.100	0.08493		mg/Kg		85	70 - 130	1	35	

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1.4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: 890-4305-1 MS

Matrix: Solid

Analysis Batch: 49289

Client Sample ID: SW01 Prep Type: Total/NA

Prep Batch: 49216

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.0998	0.1082		mg/Kg		108	70 - 130	
Toluene	<0.00200	U	0.0998	0.1073		mg/Kg		108	70 - 130	

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Page 9 of 21

Client: Ensolum Project/Site: Ross Draw Unit #034

Job ID: 890-4305-1

SDG: 03A1987018

Method: 8021B - Volatile Organic Compounds (GC) (Continued) Lab Sample ID: 890-4305-1 MS

Matrix: Solid

Analysis Batch: 49289

Client Sample ID: SW01 Prep Type: Total/NA

Prep Batch: 49216

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits D <0.00200 U 0.0998 0.09314 93 70 - 130 Ethylbenzene mg/Kg m-Xylene & p-Xylene <0.00399 0.200 0.1848 mg/Kg 93 70 - 130 <0.00200 U 0.0998 0.09348 94 70 - 130 o-Xylene mg/Kg

MS MS

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

Client Sample ID: SW01

Prep Type: Total/NA

Prep Batch: 49216

Lab Sample ID: 890-4305-1 MSD **Matrix: Solid**

Analysis Batch: 49289

Sample Sample Spike MSD MSD RPD Result Qualifier RPD Limit babbA Result Qualifier %Rec Limits Analyte Unit Benzene <0.00200 U 0.100 0.09784 mg/Kg 97 70 - 130 10 35 Toluene <0.00200 0.100 0.09820 mg/Kg 98 70 - 130 9 35 <0.00200 0.100 0.08628 86 70 - 130 35 Ethylbenzene U mg/Kg 8 m-Xylene & p-Xylene < 0.00399 U 0.201 0.1710 mg/Kg 85 70 - 130 8 35 70 - 130 0.100 0.08590 86 o-Xylene <0.00200 U mg/Kg 8 35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	110		70 - 130

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

Lab Sample ID: MB 880-48883/1-A

Matrix: Solid

Analysis Batch: 48946

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 48883

мв мв Result Qualifier RL MDL Unit D Prepared Dil Fac Analyte Analyzed 03/18/23 09:47 <50.0 U 50.0 03/20/23 08:39 Gasoline Range Organics mg/Kg (GRO)-C6-C10 03/18/23 09:47 03/20/23 08:39 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg C10-C28) OII Range Organics (Over C28-C36) <50.0 U 50.0 03/18/23 09:47 03/20/23 08:39 mg/Kg

MB MB

Limits %Recovery Qualifier Prepared Dil Fac Surrogate Analyzed 1-Chlorooctane 134 S1+ 70 - 130 03/18/23 09:47 03/20/23 08:39 160 S1+ 70 - 130 03/18/23 09:47 03/20/23 08:39 o-Terphenyl

Lab Sample ID: LCS 880-48883/2-A

Matrix: Solid

Analysis Batch: 48946

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

Prep Batch: 48883

LCS LCS %Rec Spike Analyte Added Result Qualifier Unit %Rec Limits 1000 99 985 4 70 - 130 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 936.6 mg/Kg 94 70 - 130 C10-C28)

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Project/Site: Ross Draw Unit #034

Job ID: 890-4305-1

SDG: 03A1987018

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

Lab Sample ID: LCS 880-48883/2-A

Lab Sample ID: LCSD 880-48883/3-A

Lab Sample ID: 880-25948-A-1-B MS

Matrix: Solid

Client: Ensolum

Analysis Batch: 48946

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 48883

LCS LCS

 Surrogate
 %Recovery
 Qualifier
 Limits

 1-Chlorooctane
 117
 70 - 130

 o-Terphenyl
 140
 S1+
 70 - 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid
Analysis Batch: 48946
Spike LCSD LCSD Prep Type: Total/NA
Prep Batch: 48883
Rec RPD

Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 1000 1106 111 70 - 13012 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1038 104 mg/Kg 70 - 13010 20 C10-C28)

LCSD LCSD

 Surrogate
 %Recovery
 Qualifier
 Limits

 1-Chlorooctane
 131
 S1+
 70 - 130

 o-Terphenyl
 156
 S1+
 70 - 130

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 48883

Sample Sample MS MS Spike Added Analyte Result Qualifier Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.9 U 998 847.2 mg/Kg 83 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 998 903.5 mg/Kg 88 70 - 130 C10-C28)

C 10-C26

Matrix: Solid

Analysis Batch: 48946

 Surrogate
 %Recovery
 Qualifier
 Limits

 1-Chlorooctane
 89
 70 - 130

 o-Terphenyl
 91
 70 - 130

Lab Sample ID: 880-25948-A-1-C MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 48946

Prep Type: Total/NA

Prep Batch: 48883

MSD MSD RPD Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit U 999 826.2 80 Gasoline Range Organics <49.9 70 - 130 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 999 897.5 mg/Kg 88 70 - 130 20 C10-C28)

 Surrogate
 %Recovery
 Qualifier
 Limits

 1-Chlorooctane
 87
 70 - 130

 o-Terphenyl
 90
 70 - 130

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Job ID: 890-4305-1

Prep Type: Soluble

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Client: Ensolum Project/Site: Ross Draw Unit #034 SDG: 03A1987018

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-48967/1-A

Matrix: Solid

Analysis Batch: 49323

мв мв

MDL Unit Analyte Result Qualifier RL D Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 mg/Kg 03/22/23 20:50

Lab Sample ID: LCS 880-48967/2-A

Matrix: Solid

Analysis Batch: 49323

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 257.2 mg/Kg 103 90 - 110

Lab Sample ID: LCSD 880-48967/3-A

Matrix: Solid

Analysis Batch: 49323

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 257.0 mg/Kg 103 90 - 110

Lab Sample ID: 880-25949-A-1-E MS

Matrix: Solid

Analysis Batch: 49323

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added %Rec Result Qualifier Unit Limits Chloride 387 249 643.6 103 90 - 110 mg/Kg

Lab Sample ID: 880-25949-A-1-F MSD

Matrix: Solid

Analysis Batch: 49323

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit 249 Chloride 387 652.5 mg/Kg 107 90 - 110 20

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QC Association Summary

Client: Ensolum Job ID: 890-4305-1
Project/Site: Ross Draw Unit #034 SDG: 03A1987018

GC VOA

Prep Batch: 49216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4305-1	SW01	Total/NA	Solid	5035	
890-4305-2	SW02	Total/NA	Solid	5035	
MB 880-49216/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-49216/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-49216/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4305-1 MS	SW01	Total/NA	Solid	5035	
890-4305-1 MSD	SW01	Total/NA	Solid	5035	

Analysis Batch: 49289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4305-1	SW01	Total/NA	Solid	8021B	49216
890-4305-2	SW02	Total/NA	Solid	8021B	49216
MB 880-49216/5-A	Method Blank	Total/NA	Solid	8021B	49216
LCS 880-49216/1-A	Lab Control Sample	Total/NA	Solid	8021B	49216
LCSD 880-49216/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	49216
890-4305-1 MS	SW01	Total/NA	Solid	8021B	49216
890-4305-1 MSD	SW01	Total/NA	Solid	8021B	49216

Analysis Batch: 49369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4305-1	SW01	Total/NA	Solid	Total BTEX	
890-4305-2	SW02	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 48883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4305-1	SW01	Total/NA	Solid	8015NM Prep	
890-4305-2	SW02	Total/NA	Solid	8015NM Prep	
MB 880-48883/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-48883/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-48883/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-25948-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-25948-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 48946

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4305-1	SW01	Total/NA	Solid	8015B NM	48883
890-4305-2	SW02	Total/NA	Solid	8015B NM	48883
MB 880-48883/1-A	Method Blank	Total/NA	Solid	8015B NM	48883
LCS 880-48883/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	48883
LCSD 880-48883/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	48883
880-25948-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	48883
880-25948-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	48883

Analysis Batch: 49233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4305-1	SW01	Total/NA	Solid	8015 NM	
890-4305-2	SW02	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Ensolum
Project/Site: Ross Draw Unit #034
Job ID: 890-4305-1
SDG: 03A1987018

HPLC/IC

Leach Batch: 48967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4305-1	SW01	Soluble	Solid	DI Leach	
890-4305-2	SW02	Soluble	Solid	DI Leach	
MB 880-48967/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-48967/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-48967/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-25949-A-1-E MS	Matrix Spike	Soluble	Solid	DI Leach	
880-25949-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 49323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4305-1	SW01	Soluble	Solid	300.0	48967
890-4305-2	SW02	Soluble	Solid	300.0	48967
MB 880-48967/1-A	Method Blank	Soluble	Solid	300.0	48967
LCS 880-48967/2-A	Lab Control Sample	Soluble	Solid	300.0	48967
LCSD 880-48967/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	48967
880-25949-A-1-E MS	Matrix Spike	Soluble	Solid	300.0	48967
880-25949-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	48967

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Client: Ensolum Job ID: 890-4305-1 Project/Site: Ross Draw Unit #034 SDG: 03A1987018

Client Sample ID: SW01 Lab Sample ID: 890-4305-1 Date Collected: 03/13/23 14:30

Matrix: Solid

Date Received: 03/14/23 09:14

	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	49216	03/22/23 13:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49289	03/23/23 13:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49369	03/24/23 08:51	MNR	EET MID
Total/NA	Analysis	8015 NM		1			49233	03/22/23 16:11	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48883	03/18/23 09:47	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48946	03/20/23 16:56	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	48967	03/20/23 10:55	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49323	03/22/23 21:48	SMC	EET MID

Client Sample ID: SW02 Lab Sample ID: 890-4305-2

Date Collected: 03/13/23 15:00 Matrix: Solid

Date Received: 03/14/23 09:14

	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	49216	03/22/23 13:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49289	03/23/23 13:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49369	03/24/23 08:51	MNR	EET MID
Total/NA	Analysis	8015 NM		1			49233	03/22/23 16:11	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48883	03/18/23 09:47	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48946	03/20/23 17:18	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	48967	03/20/23 10:55	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	49323	03/22/23 21:53	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: 890-4305-1 Project/Site: Ross Draw Unit #034 SDG: 03A1987018

Laboratory: Eurofins Midland

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

uthority		ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-22-25	06-30-23
The following analytes	are included in this report, but	it the laboratory is not certific	ed by the governing authority. This list ma	av include analytes fo
the agency does not of	• •	ic and laboratory to flot corum	bu by the governing authority. This list his	ay include analytes to
,	• •	Matrix	Analyte	ay molude analytes to
the agency does not of	fer certification.	,	, , ,	

Method Summary

Job ID: 890-4305-1 Client: Ensolum Project/Site: Ross Draw Unit #034

SDG: 03A1987018

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: Ross Draw Unit #034

Job ID: 890-4305-1 SDG: 03A1987018

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4305-1	SW01	Solid	03/13/23 14:30	03/14/23 09:14	0 - 4
890-4305-2	SW02	Solid	03/13/23 15:00	03/14/23 09:14	0 - 4

Relinquished by: (Signature)

Regeived by: (Signature)

14.23914 Date/Time

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

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

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Chain of Custody

			Hobos, r	HODDS, NM (3/3) 392-/330, Calisbad, NM (3/3) 300-3133	www.xenco.com	Page of
Project Manager: Gilbert Moreno	Moreno	В	Bill to: (if different)	Jim Raley	Con	nments
	3	C	Company Name:	WPX	Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐	elds 🗌 RRC 🔲 Superfund 🔲
	3122 National Parks HWY	A	Address:	5315 Buena Vista Dr.	State of Project:	1
e ZIP:	Carlsbad, NM 88220	C	City, State ZIP:	Carlsbad, NM 88220	Reporting: Level II Level III PST/UST TRRP	ST TRRP Level IV
	1-7719	Email: gr	moreno@Ensol	Email: gmoreno@Ensolum.com, jim.raley@dvn.com	Deliverables: EDD ADaPT	Other:
Project Name: Ross Di	Ross Draw Unit #034	Turn Around	round	ANALYSIS	SIS REQUEST	Preservative Codes
7.	37018	☑ Routine	1	Pres. Code	No	None: NO DI Water: H ₂ O
Project Location: Eddy, NM	MN	Due Date:	5 Day TAT		Co	<u>o</u>
	Moreno	TAT starts the day received by	ay received by		- H	
CC #: 1061093901	3901	the lab, if received by 4:30pm	_	113	H ₂	H ₂ SO ₄ : H ₂ NaOH: Na
SAMPLE RECEIPT	Temp Blank: (Kes No	Wet Ice:	(S) No	.0)	Н3	H ₃ PO ₄ : HP
Samples Received Intact:	(Yes) No Thermometer ID:		L		. Z	NaHSO ₄ : NABIS
Cooler Custody Seals: Y	Yes No (N/A Correction Factor:	Factor:	6,0		200	Na ₂ S ₂ O ₃ : NaSO ₃
Sample Custody Seals: Y Total Containers:	Yes No N/A Temperat	Temperature Reading: Corrected Temperature:	7.0	15)	hain of Custody	An Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC
Sample Identification	Matrix		omp	CHLOR TPH (80		Sample Comments
SW01	S 3.13.23	14:30 0-	0-4' Comp	×		
SW02	S 3.13.23	15:00 0-		× × ×		
						Incident ID
			1			NAB1528240224
		1	\			
	Brieg					Personal Control of the Control of t
John I	1					
/						
Total 200.7 / 6010 2	200.8 / 6020:	8RCRA 13PPM	M Texas 11 Al Sb As	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe	Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na	Sr TI Sn U V Zn
¥et	l(s) to be analyzed	TCLP / SPI	_P 6010: 8RCF	s Ba Be Cd Cr Co Cu F	Mo Ni Se Ag Ti U Ho	5.1 / 7470 / 7471
Notice: Signature of this document and relinquishment of samples constitutes a valid nurchase order from client company to Eurofins Xenco. Its affiliates and subcontractors. It assigns standard terms and conditions						

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4305-1 SDG Number: 03A1987018

Login Number: 4305 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: 890-4305-1

 SDG Number: 03A1987018

Login Number: 4305
List Source: Eurofins Midland
List Number: 2
List Creation: 03/15/23 11:19 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	

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Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Devon Team Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701

Generated 3/25/2023 3:38:34 PM

JOB DESCRIPTION

Ross Draw Unit #034 SDG NUMBER 03A1987018

JOB NUMBER

890-4304-1

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 3/25/2023 3:38:34 PM

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

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Client: Ensolum
Project/Site: Ross Draw Unit #034
Laboratory Job ID: 890-4304-1
SDG: 03A1987018

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Definitions/Glossary

Job ID: 890-4304-1 Client: Ensolum Project/Site: Ross Draw Unit #034

SDG: 03A1987018

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.
¤	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)

MDL Method Detection Limit MLMinimum 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)

TNTC Too Numerous To Count

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Case Narrative

Client: Ensolum

Job ID: 890-4304-1 SDG: 03A1987018 Project/Site: Ross Draw Unit #034

Job ID: 890-4304-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4304-1

Receipt

The sample was received on 3/14/2023 9:14 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.8°C

GC VOA

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

GC Semi VOA

Method 8015MOD NM: The surrogate recovery for the blank associated with preparation batch 880-48883 and analytical batch 880-48946 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-48883/2-A) and (LCSD 880-48883/3-A). 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 Sample Results

Client: Ensolum Job ID: 890-4304-1 Project/Site: Ross Draw Unit #034 SDG: 03A1987018

Client Sample ID: SW03 Lab Sample ID: 890-4304-1

Date Collected: 03/13/23 16:30 Matrix: Solid Date Received: 03/14/23 09:14

Sample Depth: 0 - 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/22/23 16:40	03/24/23 17:26	
Toluene	<0.00198	U	0.00198		mg/Kg		03/22/23 16:40	03/24/23 17:26	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/22/23 16:40	03/24/23 17:26	
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/22/23 16:40	03/24/23 17:26	
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/22/23 16:40	03/24/23 17:26	
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/22/23 16:40	03/24/23 17:26	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	79		70 - 130				03/22/23 16:40	03/24/23 17:26	
1,4-Difluorobenzene (Surr)	79		70 - 130				03/22/23 16:40	03/24/23 17:26	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00396	U	0.00396		mg/Kg			03/25/23 16:18	1
Method: SW846 8015 NM - Diese			•						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/22/23 16:11	,
Method: SW846 8015B NM - Dies	• •		• •						
Analyte	_	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/18/23 09:47	03/20/23 16:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/18/23 09:47	03/20/23 16:33	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/18/23 09:47	03/20/23 16:33	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	96		70 - 130				03/18/23 09:47	03/20/23 16:33	
o-Terphenyl	105		70 - 130				03/18/23 09:47	03/20/23 16:33	
Method: EPA 300.0 - Anions, Ion		•							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	445		5.04		mg/Kg			03/23/23 02:00	1

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Surrogate Summary

Client: Ensolum Job ID: 890-4304-1
Project/Site: Ross Draw Unit #034 SDG: 03A1987018

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

'				Percent Surrogate Rec
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	. <u> </u>
890-4304-1	SW03	79	79	
890-4304-1 MS	SW03	94	116	
890-4304-1 MSD	SW03	90	112	
LCS 880-49248/1-A	Lab Control Sample	105	108	
LCSD 880-49248/2-A	Lab Control Sample Dup	117	111	
MB 880-49248/5-A	Method Blank	83	93	
Surrogate Legend				
BFB = 4-Bromofluorobenze	ene (Surr)			
DFBZ = 1,4-Difluorobenze	ne (Surr)			

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

Matrix: Solid Prep Type: Total/NA

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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Client: Ensolum Job ID: 890-4304-1 Project/Site: Ross Draw Unit #034 SDG: 03A1987018

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-49248/5-A

Matrix: Solid Analysis Batch: 49405 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 49248

1

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/22/23 16:40	03/24/23 17:05	•
Toluene	<0.00200	U	0.00200		mg/Kg		03/22/23 16:40	03/24/23 17:05	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/22/23 16:40	03/24/23 17:05	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/22/23 16:40	03/24/23 17:05	
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/22/23 16:40	03/24/23 17:05	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/22/23 16:40	03/24/23 17:05	

MB MB

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130	_	03/22/23 16:40	03/24/23 17:05	1
1,4-Difluorobenzene (Surr)	93		70 - 130		03/22/23 16:40	03/24/23 17:05	1

Lab Sample ID: LCS 880-49248/1-A

Matrix: Solid

Analysis Batch: 49405

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 49248

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08686		mg/Kg		87	70 - 130	
Toluene	0.100	0.08607		mg/Kg		86	70 - 130	
Ethylbenzene	0.100	0.09414		mg/Kg		94	70 - 130	
m-Xylene & p-Xylene	0.200	0.1892		mg/Kg		95	70 - 130	
o-Xylene	0.100	0.09562		mg/Kg		96	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	105	70 - 130
1,4-Difluorobenzene (Surr)	108	70 - 130

Lab Sample ID: LCSD 880-49248/2-A

Matrix: Solid

Analysis Batch: 49405

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 49248

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Limit Benzene 0.100 0.1035 mg/Kg 103 70 - 130 17 35 Toluene 0.100 0.1002 mg/Kg 100 70 - 130 15 35 Ethylbenzene 0.100 0.1077 mg/Kg 108 70 - 130 13 35 0.200 m-Xylene & p-Xylene 0.2384 mg/Kg 119 70 - 130 23 35 0.100 0.1201 120 70 - 130 o-Xylene mg/Kg 35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1.4-Difluorobenzene (Surr)	111		70 - 130

Lab Sample ID: 890-4304-1 MS

Matrix: Solid

Analysis Batch: 49405

Client Sample ID: SW03 Prep Type: Total/NA

Prep Batch: 49248

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00198	U	0.100	0.09455		mg/Kg		94	70 - 130	
Toluene	<0.00198	U	0.100	0.08044		mg/Kg		80	70 - 130	

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QC Sample Results

Client: Ensolum Job ID: 890-4304-1
Project/Site: Ross Draw Unit #034 SDG: 03A1987018

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

Lab Sample ID: 890-4304-1 MS Matrix: Solid

Analysis Batch: 49405

Client Sample ID: SW03
Prep Type: Total/NA

Prep Batch: 49248

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 0.100 Ethylbenzene <0.00198 U 0.07817 78 70 - 130 mg/Kg m-Xylene & p-Xylene <0.00396 0.201 0.1599 mg/Kg 80 70 - 130 <0.00198 U 0.100 o-Xylene 0.08023 80 70 - 130 mg/Kg

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	116		70 - 130

Lab Sample ID: 890-4304-1 MSD

Matrix: Solid

Analysis Batch: 49405

Client Sample ID: SW03
Prep Type: Total/NA

Prep Batch: 49248

Sample Sample Spike MSD MSD Result Qualifier Result Qualifier %Rec RPD Limit Analyte Added Unit Limits 0.0990 Benzene <0.00198 U 0.08281 mg/Kg 84 70 - 130 13 35 0.07363 74 Toluene <0.00198 U 0.0990 mg/Kg 70 - 130 9 35 Ethylbenzene <0.00198 U 0.0990 0.07062 mg/Kg 71 70 - 130 10 35 0.198 0.1418 72 70 - 130 m-Xylene & p-Xylene <0.00396 U mg/Kg 12 35 <0.00198 U 0.0990 0.07071 71 70 - 130 o-Xylene mg/Kg 13

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

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

Lab Sample ID: MB 880-48883/1-A

Matrix: Solid

Analysis Batch: 48946

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 48883

Prep Batch. 40003

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/18/23 09:47	03/20/23 08:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/18/23 09:47	03/20/23 08:39	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/18/23 09:47	03/20/23 08:39	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	134	S1+	70 - 130	03/18/23 09:47	03/20/23 08:39	1
o-Terphenyl	160	S1+	70 - 130	03/18/23 09:47	03/20/23 08:39	1

Lab Sample ID: LCS 880-48883/2-A

Matrix: Solid

Analysis Batch: 48946

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

Prep Batch: 48883

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	985.4		mg/Kg		99	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	936.6		mg/Kg		94	70 - 130	
C10-C28)								

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Job ID: 890-4304-1

Client: Ensolum Project/Site: Ross Draw Unit #034 SDG: 03A1987018

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

Lab Sample ID: LCS 880-48883/2-A Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 48946

Prep Type: Total/NA

Prep Batch: 48883

LCS LCS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 117 70 - 130 o-Terphenyl 140 S1+ 70 - 130

Lab Sample ID: LCSD 880-48883/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 48946

Prep Type: Total/NA

Prep Batch: 48883

%Rec RPD Limits **RPD** Limit

Spike LCSD LCSD Analyte Added Result Qualifier Unit D %Rec 1000 1106 111 70 - 13012 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1038 104 mg/Kg 70 - 13010 20 C10-C28)

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	131	S1+	70 - 130
o-Terphenvl	156	S1+	70 - 130

Lab Sample ID: 880-25948-A-1-B MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 48946

Prep Type: Total/NA

Prep Batch: 48883

Sample Sample MS MS Spike Added Analyte Result Qualifier Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.9 U 998 847.2 mg/Kg 83 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 998 903.5 mg/Kg 88 70 - 130 C10-C28)

MS MS %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 89 o-Terphenyl 91 70 - 130

Lab Sample ID: 880-25948-A-1-C MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 48946

Prep Type: Total/NA Prep Batch: 48883

Sample Sample MSD MSD RPD Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit Gasoline Range Organics U 999 826.2 80 <49.9 mg/Kg 70 - 130 20 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 999 897.5 mg/Kg 88 70 - 130 20

C10-C28)

MSD MSD

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	87	70 - 130
o-Terphenyl	90	70 - 130

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Dil Fac

QC Sample Results

Client: Ensolum Job ID: 890-4304-1 Project/Site: Ross Draw Unit #034

5.00

Client Sample ID: Method Blank

03/22/23 23:40

Client Sample ID: Matrix Spike

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Client Sample ID: Matrix Spike Duplicate

SDG: 03A1987018

Prep Type: Soluble

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-48966/1-A

Matrix: Solid

<5.00 U

Analysis Batch: 49317

MB MB Result Qualifier RL MDL Unit Prepared Analyzed mg/Kg

Lab Sample ID: LCS 880-48966/2-A

Matrix: Solid

Analyte

Chloride

Analysis Batch: 49317

•	Spike	LCS	LCS			%Rec
Analyte	Added	Result	Qualifier Un	it D	%Rec	Limits
Chloride	250	257 1	mo	/Ka	103	90 - 110

Lab Sample ID: LCSD 880-48966/3-A

Matrix: Solid

Analysis Batch: 49317

-	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	l Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	258.8		mg/Kg		104	90 - 110	1	20

Lab Sample ID: 880-25948-A-11-C MS

Matrix: Solid

Analysis Batch: 49317

_	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	42.7		248	272.8		mg/Kg		93	90 - 110	

Lab Sample ID: 880-25948-A-11-D MSD

Matrix: Solid

Analysis Batch: 49317

-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	42.7		248	273.2		mg/Kg		93	90 - 110	0	20

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QC Association Summary

Client: Ensolum Job ID: 890-4304-1
Project/Site: Ross Draw Unit #034 SDG: 03A1987018

GC VOA

Prep Batch: 49248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4304-1	SW03	Total/NA	Solid	5035	
MB 880-49248/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-49248/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-49248/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4304-1 MS	SW03	Total/NA	Solid	5035	
890-4304-1 MSD	SW03	Total/NA	Solid	5035	

Analysis Batch: 49405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4304-1	SW03	Total/NA	Solid	8021B	49248
MB 880-49248/5-A	Method Blank	Total/NA	Solid	8021B	49248
LCS 880-49248/1-A	Lab Control Sample	Total/NA	Solid	8021B	49248
LCSD 880-49248/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	49248
890-4304-1 MS	SW03	Total/NA	Solid	8021B	49248
890-4304-1 MSD	SW03	Total/NA	Solid	8021B	49248

Analysis Batch: 49498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4304-1	SW03	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 48883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Pre	ep Batch
890-4304-1	SW03	Total/NA	Solid	8015NM Prep	
MB 880-48883/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-48883/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-48883/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-25948-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-25948-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 48946

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4304-1	SW03	Total/NA	Solid	8015B NM	48883
MB 880-48883/1-A	Method Blank	Total/NA	Solid	8015B NM	48883
LCS 880-48883/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	48883
LCSD 880-48883/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	48883
880-25948-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	48883
880-25948-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	48883

Analysis Batch: 49233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4304-1	SW03	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 48966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4304-1	SW03	Soluble	Solid	DI Leach	
MB 880-48966/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-48966/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-48966/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Ensolum
Project/Site: Ross Draw Unit #034
Job ID: 890-4304-1
SDG: 03A1987018

HPLC/IC (Continued)

Leach Batch: 48966 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25948-A-11-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-25948-A-11-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 49317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4304-1	SW03	Soluble	Solid	300.0	48966
MB 880-48966/1-A	Method Blank	Soluble	Solid	300.0	48966
LCS 880-48966/2-A	Lab Control Sample	Soluble	Solid	300.0	48966
LCSD 880-48966/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	48966
880-25948-A-11-C MS	Matrix Spike	Soluble	Solid	300.0	48966
880-25948-A-11-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	48966

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Lab Chronicle

Client: Ensolum Job ID: 890-4304-1
Project/Site: Ross Draw Unit #034 SDG: 03A1987018

Client Sample ID: SW03 Lab Sample ID: 890-4304-1

Date Collected: 03/13/23 16:30 Matrix: Solid
Date Received: 03/14/23 09:14

	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	49248	03/22/23 16:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49405	03/24/23 17:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49498	03/25/23 16:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49233	03/22/23 16:11	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48883	03/18/23 09:47	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48946	03/20/23 16:33	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	48966	03/20/23 10:54	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49317	03/23/23 02:00	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: 890-4304-1 Project/Site: Ross Draw Unit #034 SDG: 03A1987018

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	are included in this report, bu	It the laboratory is not certifi	ed by the governing authority. This list ma	av include analytes for
the agency does not of	fer certification.	•	, , ,	.,
the agency does not of Analysis Method	fer certification . Prep Method	Matrix	Analyte	-,
0 ,		Matrix Solid	Analyte Total TPH	

Method Summary

Client: Ensolum Job ID: 890-4304-1
Project/Site: Ross Draw Unit #034 SDG: 03A1987018

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: Ross Draw Unit #034

Job ID: 890-4304-1

SDG: 03A1987018

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4304-1	SW03	Solid	03/13/23 16:30	03/14/23 09:14	0 - 4

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334

Revised Date: 08/25/2020 Rev. 2020 2			o							5
			4					(3 - 1/4
			1.23914 2	3.14.	C43	L	UP CO		d'	1 July
Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time R	Da		Received by: (Signature)	Receive	re)	inquished by: (Signature)	Relinquished t
	losses are due to circumstances beyond the control see terms will be enforced unless previously negotiated.	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 \$6 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiat	sses or expenses incurr	for any lo ample sub	ny responsibility of \$6 for each s	nd shall not assume a project and a charge	st of samples ar	e only for the co of \$85.00 will be	nco will be liab inimum charge	of service. Eurofins Xe
	andard terms and	s affiliates and subcontractors. It assign	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcon	llent comp	ase order from c	stitutes a valid purch	of samples con	relinguishment	and Metalls	Notice: Signature of this document and relinquishment of sa
/7470 / 7471	TI U Hg: 1631 / 245.1	Sh As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Aq	As Ba Be Cd C		Forto: 8RC	TCI P / SPI P 6010: 8RCRA		200.8 / 6020:	1010 200	Total 200.7 / 6010
TI Sn II V Zn	K Se Ar SiO. Na Sr	Cr Co Cii Eo Bh						- Address	Ш	
				+				+		
				+					N	
				-					indi	
				-				Jan	a la	
								\		
NAB1528240224						\				
Incident ID						\				
					+					
			×	\\ \\ \\	Comp	16:30 0-4'	3.13.23	S	/03	SW03
Sample Comments	G		TPH (8	Cont of	Grab/ Comp	Time Depth	Date Sampled	Matrix	ntification	Sample Identification
NaOn+Ascolbic Acid: SAF C	Nac	-		RIDE	0.0	emperature:	Corrected Temperature:			Total Containers:
Accordio Acid: SADO		890-4304 Chain of Custody		ES (0	Reading:	Temperature Reading:	No (N/A	eals: Yes	Sample Custody Seals:
Zn Acetate+NaOH: Zn					0.0	actor:	Correction Factor:	No		Cooler Custody Seals:
Na s-O-: Naso-	Na S-C				3,00	7	Thermometer ID:	No No	Intact:	Samples Received Intact:
) NABIO	H3TC : TT			met 0.0)	No No	Wet ice: Yes	No No	ema Blank:	IPT T	SAMPLE RECEIPT
NaOn. Na				ers	by 4:30pm	the lab, if received by 4:30pm	-	01	1061093901	CC#:
	HCC: HC			_	received by	TAT starts the day received by		oreno	Gilbert Moreno	Sampler's Name:
<u>~</u>	Cool: Cool				5 Day TAT	Due Date: 5			Eddy, NM	Project Location:
	None: NO			Code	Rush	Routine)18	03A1987018	Project Number:
ervativ	-0	ANALYSIS REQUEST				Turn Around		Ross Draw Unit #034	Ross Dra	Project Name:
C a	Deliverables: EDD [_] ADAF [_]), jim.raley@dvn.com	lum.com	Email: gmoreno@Ensolum.com,	Email: gmc		7719	832-541-7719	Phone:
Cirky Circeve V	Level III	Repor	Carlsbad, NM 88220	Car	City, State ZIP:	City		Carlsbad, NM 88220	Carlsbad,	City, State ZIP:
	State of Project:	State	5315 Buena Vista Dr.	531	ess:	Address:	WY	3122 National Parks HWY	3122 Nati	Address:
RRC Superfund	Program: UST/PST ☐ PRP☐ Brownfields ☐ RRC ☐	Progr	×	WPX	Company Name:	Com			Ensolum	Company Name:
ents	Work Order Comments		Jim Raley	Jim	Bill to: (if different)	Bill t		oreno	Gilbert Moreno	Project Manager:
gel_of(www.xenco.com Page	N (575) 988-3199	Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	VM (575)	Hobbs, I					
		X (806) 794-1296	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296	TX (915)	EL Pasc			Xenco		
	Work Order No:	TX (210) 509-3334	Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334	X (432) 7	Midland, 1	sting	Environment Testing	Enviror		

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4304-1 SDG Number: 03A1987018

Login Number: 4304 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	CHECK NCM
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: 890-4304-1

SDG Number: 03A1987018

Login Number: 4304 **List Source: Eurofins Midland** List Number: 2

List Creation: 03/15/23 11:19 AM

Creator: Rodriguez, Leticia

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

<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Devon Team Ensolum 601 N. Marienfeld St. Suite 400

Midland, Texas 79701

Generated 3/25/2023 3:38:06 PM

JOB DESCRIPTION

Ross Draw Unit #034 SDG NUMBER 03A1987018

JOB NUMBER

890-4303-1

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 3/25/2023 3:38:06 PM

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

Client: Ensolum
Project/Site: Ross Draw Unit #034
Laboratory Job ID: 890-4303-1
SDG: 03A1987018

Table of Contents

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Definitions/Glossary

Job ID: 890-4303-1 Client: Ensolum Project/Site: Ross Draw Unit #034

SDG: 03A1987018

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

*1 LCS/LCSD RPD exceeds control limits.

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

HPLC/IC

Qualifier **Qualifier Description**

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" Minimum Detectable Activity (Radiochemistry) MDA MDC Minimum Detectable Concentration (Radiochemistry)

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

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)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

TNTC Too Numerous To Count

Eurofins Carlsbad

Case Narrative

Client: Ensolum

Job ID: 890-4303-1 Project/Site: Ross Draw Unit #034 SDG: 03A1987018

Job ID: 890-4303-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4303-1

Receipt

The sample was received on 3/14/2023 9:14 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.8°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SW04 (890-4303-1).

GC VOA

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

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-48781 and analytical batch 880-48812 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-48781/2-A) and (MB 880-48781/1-A). 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 Sample Results

Client: Ensolum Job ID: 890-4303-1 Project/Site: Ross Draw Unit #034 SDG: 03A1987018

Lab Sample ID: 890-4303-1 **Client Sample ID: SW04**

Date Collected: 03/13/23 17:00 Date Received: 03/14/23 09:14 Matrix: Solid

Sample Depth: 0 - 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/22/23 16:40	03/24/23 18:28	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/22/23 16:40	03/24/23 18:28	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/22/23 16:40	03/24/23 18:28	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/22/23 16:40	03/24/23 18:28	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/22/23 16:40	03/24/23 18:28	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/22/23 16:40	03/24/23 18:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130				03/22/23 16:40	03/24/23 18:28	1
1,4-Difluorobenzene (Surr)	93		70 - 130				03/22/23 16:40	03/24/23 18:28	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			03/25/23 16:18	1
: Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (0	GC)		0 0				
Analyte	Result	Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Analyte	•	Qualifier	•	MDL		<u>D</u>	Prepared	Analyzed 03/21/23 09:53	Dil Fac
Analyte Total TPH	Result <49.9	Qualifier U	RL 49.9	MDL	Unit	<u>D</u>	Prepared		Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies	Result <49.9 sel Range Orga	Qualifier U	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared Prepared		Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result <49.9 sel Range Orga	Qualifier U nics (DRO) Qualifier	RL 49.9		Unit mg/Kg		<u> </u>	03/21/23 09:53	1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U *1	(GC)		Unit mg/Kg		Prepared	03/21/23 09:53 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 <49.9 sel Range Orga Result <49.9	Qualifier U nics (DRO) Qualifier U *1 U	(GC) RL 49.9		Unit mg/Kg Unit mg/Kg		Prepared 03/16/23 15:06	03/21/23 09:53 Analyzed 03/17/23 19:12	Dil Fac
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 <49.9 sel Range Orga Result <49.9 <49.9	Qualifier U nics (DRO) Qualifier U*1 U	RL 49.9 (GC) RL 49.9 49.9		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/16/23 15:06 03/16/23 15:06	03/21/23 09:53 Analyzed 03/17/23 19:12 03/17/23 19:12	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) Surrogate	Result	Qualifier U nics (DRO) Qualifier U*1 U	RL 49.9 (GC) RL 49.9 49.9 49.9		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/16/23 15:06 03/16/23 15:06 03/16/23 15:06	03/21/23 09:53 Analyzed 03/17/23 19:12 03/17/23 19:12	1 Dil Fac 1 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) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result <49.9	Qualifier U nics (DRO) Qualifier U*1 U	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/16/23 15:06 03/16/23 15:06 03/16/23 15:06 Prepared	03/21/23 09:53 Analyzed 03/17/23 19:12 03/17/23 19:12 03/17/23 19:12 Analyzed	Dil Fac 1 1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result <49.9	Qualifier U nics (DRO) Qualifier U *1 U Qualifier	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 03/16/23 15:06 03/16/23 15:06 03/16/23 15:06 Prepared 03/16/23 15:06	03/21/23 09:53 Analyzed 03/17/23 19:12 03/17/23 19:12 Analyzed 03/17/23 19:12	1 Dil Fac 1 1 1 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) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <49.9	Qualifier U nics (DRO) Qualifier U *1 U Qualifier	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130		Unit mg/Kg Unit mg/Kg mg/Kg mg/Kg		Prepared 03/16/23 15:06 03/16/23 15:06 03/16/23 15:06 Prepared 03/16/23 15:06	03/21/23 09:53 Analyzed 03/17/23 19:12 03/17/23 19:12 Analyzed 03/17/23 19:12	1 Dil Fac 1 1 1 1 Dil Fac 1

Surrogate Summary

Client: Ensolum Job ID: 890-4303-1
Project/Site: Ross Draw Unit #034 SDG: 03A1987018

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

_				Percent Surrogate
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-4303-1	SW04	87	93	
890-4304-A-1-E MS	Matrix Spike	94	116	
890-4304-A-1-F MSD	Matrix Spike Duplicate	90	112	
LCS 880-49248/1-A	Lab Control Sample	105	108	
LCSD 880-49248/2-A	Lab Control Sample Dup	117	111	
MB 880-49248/5-A	Method Blank	83	93	
Surrogate Legend				
BFB = 4-Bromofluorober	zene (Surr)			
DFBZ = 1,4-Difluorobenz	ene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

		1001	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-4297-A-3-B MS	Matrix Spike	96	101
890-4297-A-3-C MSD	Matrix Spike Duplicate	112	114
890-4303-1	SW04	97	115
LCS 880-48781/2-A	Lab Control Sample	121	136 S1+
LCSD 880-48781/3-A	Lab Control Sample Dup	104	120
MB 880-48781/1-A	Method Blank	108	133 S1+

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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Client: Ensolum Job ID: 890-4303-1 SDG: 03A1987018 Project/Site: Ross Draw Unit #034

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-49248/5-A

Matrix: Solid Analysis Batch: 49405 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 49248

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/22/23 16:40	03/24/23 17:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/22/23 16:40	03/24/23 17:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/22/23 16:40	03/24/23 17:05	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/22/23 16:40	03/24/23 17:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/22/23 16:40	03/24/23 17:05	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/22/23 16:40	03/24/23 17:05	1

MB MB

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130	_	03/22/23 16:40	03/24/23 17:05	1
1,4-Difluorobenzene (Surr)	93		70 - 130		03/22/23 16:40	03/24/23 17:05	1

Lab Sample ID: LCS 880-49248/1-A

Matrix: Solid

Analysis Batch: 49405

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 49248

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08686		mg/Kg		87	70 - 130	
Toluene	0.100	0.08607		mg/Kg		86	70 - 130	
Ethylbenzene	0.100	0.09414		mg/Kg		94	70 - 130	
m-Xylene & p-Xylene	0.200	0.1892		mg/Kg		95	70 - 130	
o-Xylene	0.100	0.09562		mg/Kg		96	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: LCSD 880-49248/2-A

Matrix: Solid

Analysis Batch: 49405

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 49248

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1035		mg/Kg		103	70 - 130	17	35
Toluene	0.100	0.1002		mg/Kg		100	70 - 130	15	35
Ethylbenzene	0.100	0.1077		mg/Kg		108	70 - 130	13	35
m-Xylene & p-Xylene	0.200	0.2384		mg/Kg		119	70 - 130	23	35
o-Xylene	0.100	0.1201		mg/Kg		120	70 - 130	23	35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	117	70 - 130
1,4-Difluorobenzene (Surr)	111	70 - 130

Lab Sample ID: 890-4304-A-1-E MS

Matrix: Solid

Analysis Batch: 49405

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

Prep Batch: 49248

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00198	U	0.100	0.09455		mg/Kg		94	70 - 130	
Toluene	<0.00198	U	0.100	0.08044		mg/Kg		80	70 - 130	

Eurofins Carlsbad

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QC Sample Results

Client: Ensolum Job ID: 890-4303-1 Project/Site: Ross Draw Unit #034 SDG: 03A1987018

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

Lab Sample ID: 890-4304-A-1-E MS

Matrix: Solid

Analysis Batch: 49405

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 49248

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00198	U	0.100	0.07817		mg/Kg		78	70 - 130	
m-Xylene & p-Xylene	<0.00396	U	0.201	0.1599		mg/Kg		80	70 - 130	
o-Xylene	<0.00198	U	0.100	0.08023		mg/Kg		80	70 - 130	

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	94	70 - 130
1,4-Difluorobenzene (Surr)	116	70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 49248

Lab Sample ID: 890-4304-A-1-F MSD **Matrix: Solid**

Analysis Batch: 49405

_	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00198	U	0.0990	0.08281		mg/Kg		84	70 - 130	13	35
Toluene	<0.00198	U	0.0990	0.07363		mg/Kg		74	70 - 130	9	35
Ethylbenzene	<0.00198	U	0.0990	0.07062		mg/Kg		71	70 - 130	10	35
m-Xylene & p-Xylene	<0.00396	U	0.198	0.1418		mg/Kg		72	70 - 130	12	35
o-Xylene	<0.00198	U	0.0990	0.07071		mg/Kg		71	70 - 130	13	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

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

Lab Sample ID: MB 880-48781/1-A

Matrix: Solid

Analysis Batch: 48812

Client Sample ID: Method Blank
Prep Type: Total/NA
Duan Datahi 40704

Analyzed

Prep Batch: 48781

Analyte Result Qualifier RL MDL Unit Prepared Dil Fac 50.0 03/16/23 15:06 03/17/23 08:28 Gasoline Range Organics <50.0 U mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 50.0 03/16/23 15:06 03/17/23 08:28 <50.0 U mg/Kg C10-C28) Oll Range Organics (Over C28-C36) <50.0 U 50.0 03/16/23 15:06 03/17/23 08:28 mg/Kg

MB MB

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108	70 - 130	03/16/23 15:06	03/17/23 08:28	1
o-Terphenyl	133 S1+	70 - 130	03/16/23 15:06	03/17/23 08:28	1

Lab Sample ID: LCS 880-48781/2-A

Matrix: Solid

Analysis Batch: 48812

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

Prep Batch: 48781

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics	1000	1075		mg/Kg		107	70 - 130
(GRO)-C6-C10							
Diesel Range Organics (Over	1000	1006		mg/Kg		101	70 - 130
C10_C28)							

Eurofins Carlsbad

Prep Batch: 48781

Client: Ensolum Job ID: 890-4303-1 Project/Site: Ross Draw Unit #034 SDG: 03A1987018

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

Lab Sample ID: LCS 880-48781/2-A **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 48812

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	121		70 - 130
o-Terphenyl	136	S1+	70 - 130

Lab Sample ID: LCSD 880-48781/3-A Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 48812							Prep	Batch:	48781
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	859.6	*1	mg/Kg		86	70 - 130	22	20
Diesel Range Organics (Over C10-C28)	1000	881.0		mg/Kg		88	70 - 130	13	20

LCSD LCSD Surrogate %Recovery Qualifier Limits 104 70 - 130 1-Chlorooctane o-Terphenyl 120 70 - 130

Lab Sample ID: 890-4297-A-3-B MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 48812									Prep	Batch: 48781
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	998	898.9		mg/Kg		85	70 - 130	
Diesel Range Organics (Over C10-C28)	133		998	1034		mg/Kg		90	70 - 130	

MS MS Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 96 o-Terphenyl 101 70 - 130

Lab Sample ID: 890-4297-A-3-C MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 48812

7 manyono Batom 10012										Duto	
	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 *1	999	1011		mg/Kg		96	70 - 130	12	20
(GRO)-C6-C10											
Diesel Range Organics (Over	133		999	1176		mg/Kg		104	70 - 130	13	20
C10-C28)											

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	112		70 - 130
o-Terphenyl	114		70 - 130

Eurofins Carlsbad

Prep Batch: 48781

Prep Type: Total/NA

Client Sample ID: Method Blank

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

QC Sample Results

Client: Ensolum Job ID: 890-4303-1
Project/Site: Ross Draw Unit #034 SDG: 03A1987018

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-48966/1-A

Matrix: Solid

Analysis Batch: 49317

Prep Type: Soluble

 Analyte
 Result
 Qualifier
 RL
 MDL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 Chloride
 <5.00</td>
 U
 5.00
 mg/Kg
 03/22/23 23:40
 1

Lab Sample ID: LCS 880-48966/2-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 49317

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 257.1 mg/Kg 103 90 - 110

MB MB

Lab Sample ID: LCSD 880-48966/3-A

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 49317

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 258.8 mg/Kg 104 90 - 110

Lab Sample ID: 880-25948-A-11-C MS

Client Sample ID: Matrix Spike

Matrix: Solid

Prep Type: Soluble

Matrix. Cond

Analysis Batch: 49317

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added %Rec Result Qualifier Unit Limits Chloride 42.7 248 272.8 90 - 110 mg/Kg

Lab Sample ID: 880-25948-A-11-D MSD

Matrix: Solid

Analysis Batch: 49317

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit 248 Chloride 42.7 273.2 mg/Kg 93 90 - 110 20

QC Association Summary

Client: Ensolum Job ID: 890-4303-1
Project/Site: Ross Draw Unit #034 SDG: 03A1987018

GC VOA

Prep Batch: 49248

Lab Sample ID 890-4303-1	Client Sample ID SW04	Prep Type Total/NA	Matrix Solid	Method 5035	Prep Batch
MB 880-49248/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-49248/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-49248/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4304-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
890-4304-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 49405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4303-1	SW04	Total/NA	Solid	8021B	49248
MB 880-49248/5-A	Method Blank	Total/NA	Solid	8021B	49248
LCS 880-49248/1-A	Lab Control Sample	Total/NA	Solid	8021B	49248
LCSD 880-49248/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	49248
890-4304-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	49248
890-4304-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	49248

Analysis Batch: 49500

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4303-1	SW04	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 48781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4303-1	SW04	Total/NA	Solid	8015NM Prep	
MB 880-48781/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-48781/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-48781/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4297-A-3-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4297-A-3-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 48812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4303-1	SW04	Total/NA	Solid	8015B NM	48781
MB 880-48781/1-A	Method Blank	Total/NA	Solid	8015B NM	48781
LCS 880-48781/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	48781
LCSD 880-48781/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	48781
890-4297-A-3-B MS	Matrix Spike	Total/NA	Solid	8015B NM	48781
890-4297-A-3-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	48781

Analysis Batch: 49094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4303-1	SW04	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 48966

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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4303-1	SW04	Soluble	Solid	DI Leach	
MB 880-48966/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-48966/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-48966/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Eurofins Carlsbad

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QC Association Summary

Client: Ensolum
Project/Site: Ross Draw Unit #034
Job ID: 890-4303-1
SDG: 03A1987018

HPLC/IC (Continued)

Leach Batch: 48966 (Continued)

	Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
	880-25948-A-11-C MS	Matrix Spike	Soluble	Solid	DI Leach	
L	880-25948-A-11-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 49317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4303-1	SW04	Soluble	Solid	300.0	48966
MB 880-48966/1-A	Method Blank	Soluble	Solid	300.0	48966
LCS 880-48966/2-A	Lab Control Sample	Soluble	Solid	300.0	48966
LCSD 880-48966/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	48966
880-25948-A-11-C MS	Matrix Spike	Soluble	Solid	300.0	48966
880-25948-A-11-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	48966

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Lab Chronicle

Client: Ensolum Job ID: 890-4303-1 Project/Site: Ross Draw Unit #034 SDG: 03A1987018

Client Sample ID: SW04

Lab Sample ID: 890-4303-1 Date Collected: 03/13/23 17:00

Matrix: Solid Date Received: 03/14/23 09:14

	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	49248	03/22/23 16:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49405	03/24/23 18:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49500	03/25/23 16:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48781	03/16/23 15:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48812	03/17/23 19:12	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	48966	03/20/23 10:54	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49317	03/23/23 01:55	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: 890-4303-1 Project/Site: Ross Draw Unit #034 SDG: 03A1987018

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	are included in this report, bu	It the laboratory is not certifi	ed by the governing authority. This list ma	av include analytes for
the agency does not of	fer certification.	•	, , ,	.,
the agency does not of Analysis Method	fer certification . Prep Method	Matrix	Analyte	-,
0 ,		Matrix Solid	Analyte Total TPH	

Method Summary

Job ID: 890-4303-1 Client: Ensolum Project/Site: Ross Draw Unit #034

SDG: 03A1987018

Laboratory	
EET MID	
EET MID	

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum

Job ID: 890-4303-1

Project/Site: Ross Draw Unit #034 SDG: 03A1987018

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4303-1	SW04	Solid	03/13/23 17:00	03/14/23 09:14	0 - 4

Chain of Custody

1.0		inghi	Relinquisfied by: (Signature)	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to euronias knince, its animates and solutions is a second of service. Eurofins Xenco will be ilable 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 \$6 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	Circle Method(s) and Metal(s) to be analyzed	Total 200.7 / 6010 200.8 / 6020:		Mon				SW04	Sample Identification	Total Containers:	Sample Custody Seals: Yes No	Cooler Custody Seals: Yes No	Samples Received Intact: \\(\cdot \cdot \)	SAMPLE RECEIPT Temp Blank:	CC#: 1061093901		Project Location: Eddy, NM	Project Number: 03A1987018	Project Name: Ross Draw Unit #034	Phone: 832-541-7719	City, State ZIP: Carlsbad, NM 88220	Address: 3122 National Parks HWY	Company Name: Ensolum	Project Manager: Gilbert Moreno		>6	V
			Received by: (Signature)	Jishment of samples constitutes a valid or the cost of samples and shall not as 00 will be applied to each project and a	e analyzed ICLF/	. 61		19				S 3.13.23 17:00	Matrix Sampled Sampled	Corrected Temperature:	Temperature Reading:	N/A Correction Factor:	No Thermometer ID:	lank: (Yes) No Wet Ice:	the lab, if re	TAT starts t	Due Date:	☑ Routine		Emai	8220	arks HWY				Veuco	V
		ري د	nature)	d purchase order from client of same any responsibility for a charge of \$5 for each sample	ICEP / SPEP BOID. ONCOM	11				\	\	0-4' Comp 1	Depth Grab/ # of Comp Cont	C	7.0	9	NWO PI	No nete	the lab, if received by 4:30pm	le c	5 Day TAT	Rush Code	Turn Around	: gmoreno@Ensolum.	City, State ZIP:	Address:	Company Name:	Bill to: (if different)		EL Paso, IX (5	Wildiand, 12 (To
O)	4	-M-239142	Date/Time Relinquis	ny losses or expenses incurred by the c submitted to Eurofins Xenco, but not a	OD AS DO DE CO OF CO O	Sh As Ba Be B Cd Ca Cr						× ×	TPH (8	8015)	EPA	300	0.0)						Email: gmoreno@Ensolum.com, jim.raley@dvn.com	Carlsbad, NM 88220	5315 Buena Vista Dr.	WPX	Jim Raley		EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	Wildigita, 17 (402) 101 0110; Out 1011001100 101 (410) 000
			Relinquished by: (Signature) Re) and subcontractors, it easing a semicord client if such losses are due to circumstan nalyzed. These terms will be enforced unit	the and subcontractors if assigns standard	Co Cu Fe Pb Mg Mn Mo Ni									or Custody	890-4303 Chain of Co.				-			ANALYSIS REQUEST	Deliverables: EDD	Reporting: Level	State of Project:	Program: UST/I			88-3199	
Re			Received by: (Signature)	ces beyond the control	terms and conditions	K Se Ag SiO ₂ Na Sr TI Ha: 1631/245.1/				N.			San	NaC TTAX	Zn Acetat	Na ₂ O ₂ O ₃ . Na ₃ O ₃	NaHOC4: NABIO	H ₃ PO ₄ : HP	IIIIIII	HCL: HC	Cool: Cool	None: NO	Pres	ADaPI	Crewer III Creation C		Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	Work Order Comments	www.xenco.com Page		
Revised Date: 08/25/2020 Rev. 2020.2			Date/Time			Sn ∪ V Zn 7470 / 7471				NAB1528240224	Incident ID		Sample Comments	NACCITATION ACID. CO. C	Zn Acetate+NaOH: Zn	NdSU3	NABIS	7	NaCH: Na			Di Water: H ₂ O	ervativ	Other:	- KAN	TBBB Lowel IV	RRC Superfund		of	-	

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4303-1 SDG Number: 03A1987018

Login Number: 4303 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	CHECK NCM
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	

3/25/2023

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4303-1 SDG Number: 03A1987018

> **List Source: Eurofins Midland** List Creation: 03/15/23 11:19 AM

List Number: 2

Login Number: 4303

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	

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Devon Team Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701

Generated 3/24/2023 9:28:01 AM

JOB DESCRIPTION

Ross Draw Unit #034 SDG NUMBER 03A1987018

JOB NUMBER

890-4302-1

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 3/24/2023 9:28:01 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

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Client: Ensolum
Project/Site: Ross Draw Unit #034
Laboratory Job ID: 890-4302-1
SDG: 03A1987018

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Definitions/Glossary

Job ID: 890-4302-1 Client: Ensolum Project/Site: Ross Draw Unit #034

SDG: 03A1987018

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

*1 LCS/LCSD RPD exceeds control limits.

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

HPLC/IC

Qualifier **Qualifier Description**

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" Minimum Detectable Activity (Radiochemistry) MDA MDC Minimum Detectable Concentration (Radiochemistry)

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

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)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Project/Site: Ross Draw Unit #034

Job ID: 890-4302-1

SDG: 03A1987018

Job ID: 890-4302-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4302-1

Receipt

The sample was received on 3/14/2023 9:14 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.8°C

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-48781 and analytical batch 880-48812 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-48781/2-A) and (MB 880-48781/1-A). 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.

Job ID: 890-4302-1

Client: Ensolum Project/Site: Ross Draw Unit #034 SDG: 03A1987018

Client Sample ID: SW05 Lab Sample ID: 890-4302-1 Date Collected: 03/13/23 17:30

Matrix: Solid Date Received: 03/14/23 09:14

Sample Depth: 0 - 4 Method: SW846 8021B - Volatile Organic Compounds (GC) Result Qualifier MDL D Dil Fac Analyte RL Unit Prepared Analyzed <0.00200 U 03/23/23 19:27 Benzene 0.00200 mg/Kg 03/22/23 13:23 Toluene <0.00200 U 0.00200 mg/Kg 03/22/23 13:23 03/23/23 19:27 Ethylbenzene <0.00200 U 0.00200 03/22/23 13:23 03/23/23 19:27 mg/Kg <0.00399 0.00399 03/22/23 13:23 03/23/23 19:27 m-Xylene & p-Xylene mg/Kg o-Xylene <0.00200 U 0.00200 03/22/23 13:23 03/23/23 19:27 mg/Kg Xylenes, Total <0.00399 U 0.00399 03/22/23 13:23 03/23/23 19:27 mg/Kg Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 120 70 - 130 03/22/23 13:23 03/23/23 19:27 70 - 130 1,4-Difluorobenzene (Surr) 102 03/22/23 13:23 03/23/23 19:27 Method: TAL SOP Total BTEX - Total BTEX Calculation Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Total BTEX <0.00399 0.00399 mg/Kg 03/24/23 10:11 Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Total TPH <50.0 U 50.0 03/21/23 09:53 mg/Kg Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) Result Qualifier MDL Analyte RL Unit D Dil Fac Prepared Analyzed <50.0 U *1 Gasoline Range Organics 50.0 mg/Kg 03/16/23 15:06 03/17/23 18:50 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 03/16/23 15:06 03/17/23 18:50 C10-C28) <50.0 U 50.0 03/16/23 15:06 03/17/23 18:50 Oll Range Organics (Over C28-C36) mg/Kg Limits Dil Fac Surrogate %Recovery Qualifier Prepared Analyzed 03/16/23 15:06 1-Chlorooctane 91 70 - 130 03/17/23 18:50 106 03/16/23 15:06 o-Terphenyl 70 - 130 03/17/23 18:50 Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier MDL Unit Dil Fac RL D Prepared Analyzed

4.97

mg/Kg

520

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03/23/23 01:51

Chloride

Surrogate Summary

 Client: Ensolum
 Job ID: 890-4302-1

 Project/Site: Ross Draw Unit #034
 SDG: 03A1987018

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

•				Percent Surrogate Re
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-4302-1	SW05	120	102	
890-4305-A-1-E MS	Matrix Spike	113	113	
890-4305-A-1-F MSD	Matrix Spike Duplicate	114	110	
LCS 880-49216/1-A	Lab Control Sample	102	108	
LCSD 880-49216/2-A	Lab Control Sample Dup	102	108	
MB 880-49216/5-A	Method Blank	99	101	
Surrogate Legend				
BFB = 4-Bromofluoroben	zene (Surr)			
DFBZ = 1,4-Difluorobenz	ene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-4297-A-3-B MS	Matrix Spike	96	101
890-4297-A-3-C MSD	Matrix Spike Duplicate	112	114
890-4302-1	SW05	91	106
LCS 880-48781/2-A	Lab Control Sample	121	136 S1+
LCSD 880-48781/3-A	Lab Control Sample Dup	104	120
MB 880-48781/1-A	Method Blank	108	133 S1+

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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13

Job ID: 890-4302-1 Client: Ensolum Project/Site: Ross Draw Unit #034 SDG: 03A1987018

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-49216/5-A

Matrix: Solid Analysis Batch: 49289 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 49216

1

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/22/23 13:23	03/23/23 12:26	•
Toluene	<0.00200	U	0.00200		mg/Kg		03/22/23 13:23	03/23/23 12:26	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/22/23 13:23	03/23/23 12:26	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/22/23 13:23	03/23/23 12:26	
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/22/23 13:23	03/23/23 12:26	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/22/23 13:23	03/23/23 12:26	

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	 03/22/23 13:23	03/23/23 12:26	1
1,4-Difluorobenzene (Surr)	101		70 - 130	03/22/23 13:23	03/23/23 12:26	1

Lab Sample ID: LCS 880-49216/1-A

Matrix: Solid

Analysis Batch: 49289

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 49216

Spike LCS LCS Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.09819 mg/Kg 98 70 - 130 Toluene 0.100 0.09454 mg/Kg 95 70 - 130 0.100 86 Ethylbenzene 0.08635 mg/Kg 70 - 130 0.200 0.1710 85 70 - 130 m-Xylene & p-Xylene mg/Kg 0.100 0.08571 70 - 130 o-Xylene mg/Kg 86

Spike

Added

0.100

0.100

0.100

0.200

0.100

LCSD LCSD

0.09773

0.09731

0.08515

0.1677

0.08493

Result Qualifier

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

LCS LCS

Surrogate	%Recovery Qu	alifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: LCSD 880-49216/2-A

Matrix: Solid

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

m-Xylene & p-Xylene

Analysis Batch: 49289

Client Sample ID: Lab Control Sample Dup

70 - 130

70 - 130

84

85

Prep Type: Total/NA Prep Batch: 49216

RPD %Rec %Rec Limits Limit 98 70 - 130 0 35 97 70 - 130 3 35 85 70 - 130 35

35

35

LCSD	LCSE
 0/ 0	0

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	102	70 - 130
1,4-Difluorobenzene (Surr)	108	70 - 130

Lab Sample ID: 890-4305-A-1-E MS

Matrix: Solid

Analysis Batch: 49289

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

Prep Batch: 49216

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.0998	0.1082		mg/Kg	_	108	70 - 130	
Toluene	<0.00200	U	0.0998	0.1073		mg/Kg		108	70 - 130	

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Client: Ensolum Project/Site: Ross Draw Unit #034 Job ID: 890-4302-1

SDG: 03A1987018

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

Lab Sample ID: 890-4305-A-1-E MS **Matrix: Solid**

Analysis Batch: 49289

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 49216

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00200	U	0.0998	0.09314		mg/Kg		93	70 - 130	
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1848		mg/Kg		93	70 - 130	
o-Xylene	<0.00200	U	0.0998	0.09348		mg/Kg		94	70 - 130	

MS MS

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

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 49216

Matrix: Solid Analysis Batch: 49289

Lab Sample ID: 890-4305-A-1-F MSD

_	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	0.09784		mg/Kg		97	70 - 130	10	35
Toluene	<0.00200	U	0.100	0.09820		mg/Kg		98	70 - 130	9	35
Ethylbenzene	<0.00200	U	0.100	0.08628		mg/Kg		86	70 - 130	8	35
m-Xylene & p-Xylene	<0.00399	U	0.201	0.1710		mg/Kg		85	70 - 130	8	35
o-Xylene	<0.00200	U	0.100	0.08590		mg/Kg		86	70 - 130	8	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	110		70 - 130

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

Lab Sample ID: MB 880-48781/1-A

Matrix: Solid

Analysis Batch: 48812

Client Sample ID: Method Blank
Prep Type: Total/NA
Duran Distribut 40704

Prep Batch: 48781

Analyte Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics <50.0	U	50.0		mg/Kg		03/16/23 15:06	03/17/23 08:28	1
(GRO)-C6-C10								
Diesel Range Organics (Over <50.0	U	50.0		mg/Kg		03/16/23 15:06	03/17/23 08:28	1
C10-C28)								
Oll Range Organics (Over C28-C36) <50.0	U	50.0		mg/Kg		03/16/23 15:06	03/17/23 08:28	1

MB MB

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepare	ed	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	03/16/23 1	15:06	03/17/23 08:28	1
o-Terphenyl	133	S1+	70 - 130	03/16/23	15:06	03/17/23 08:28	1

Lab Sample ID: LCS 880-48781/2-A

Matrix: Solid

Analysis Batch: 48812

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

Prep Type: Total/NA Prep Batch: 48781

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics	1000	1075		mg/Kg		107	70 - 130
(GRO)-C6-C10							
Diesel Range Organics (Over	1000	1006		mg/Kg		101	70 - 130
C10-C28)							

Project/Site: Ross Draw Unit #034

Job ID: 890-4302-1

SDG: 03A1987018

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

Lab Sample ID: LCS 880-48781/2-A

Lab Sample ID: LCSD 880-48781/3-A

Lab Sample ID: 890-4297-A-3-B MS

Matrix: Solid

Matrix: Solid

Client: Ensolum

Analysis Batch: 48812

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 48781

LCS LCS

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 121 70 - 130 o-Terphenyl 136 S1+ 70 - 130

Client Sample ID: Lab Control Sample Dup

70 - 130

88

Prep Type: Total/NA

Prep Batch: 48781

13

Analysis Batch: 48812 Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 1000 859.6 *1 86 70 - 13022 20 Gasoline Range Organics mg/Kg

881.0

mg/Kg

1000

Diesel Range Organics (Over C10-C28)

(GRO)-C6-C10

Matrix: Solid

Analysis Batch: 48812

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	104		70 - 130
o-Terphenyl	120		70 - 130

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 48781

Sample Sample MS MS Spike Added Analyte Result Qualifier Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.9 U *1 998 898.9 mg/Kg 85 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 133 998 1034 mg/Kg 90 70 - 130

C10-C28)

MS MS Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 96 o-Terphenyl 101 70 - 130

Lab Sample ID: 890-4297-A-3-C MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 48812

Prep Type: Total/NA

Prep Batch: 48781

Sample Sample MSD MSD RPD Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit Gasoline Range Organics <49.9 U *1 999 1011 mg/Kg 96 70 - 130 12 20 (GRO)-C6-C10 Diesel Range Organics (Over 133 999 1176 mg/Kg 104 70 - 130 13 20

C10-C28)

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	112		70 - 130
o-Terphenyl	114		70 - 130

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Job ID: 890-4302-1

Client: Ensolum Project/Site: Ross Draw Unit #034 SDG: 03A1987018

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-48966/1-A

Matrix: Solid

Analysis Batch: 49317

Analyte

Chloride

Client Sample ID: Method Blank **Prep Type: Soluble**

MB MB MDL Unit Dil Fac Result Qualifier RL D Prepared Analyzed <5.00 U 5.00 mg/Kg 03/22/23 23:40

Lab Sample ID: LCS 880-48966/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 49317

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 257.1 mg/Kg 103 90 - 110

Lab Sample ID: LCSD 880-48966/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble** Analysis Batch: 49317

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 258.8 mg/Kg 104 90 - 110

Lab Sample ID: 880-25948-A-11-C MS Client Sample ID: Matrix Spike **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 49317

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added %Rec Result Qualifier Unit Limits 272.8 Chloride 42.7 248 90 - 110 mg/Kg

Lab Sample ID: 880-25948-A-11-D MSD

Matrix: Solid

Analysis Batch: 49317

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit 248 Chloride 42.7 273.2 mg/Kg 93 90 - 110 20

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Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

QC Association Summary

Client: Ensolum Job ID: 890-4302-1
Project/Site: Ross Draw Unit #034 SDG: 03A1987018

GC VOA

Prep Batch: 49216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4302-1	SW05	Total/NA	Solid	5035	
MB 880-49216/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-49216/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-49216/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4305-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
890-4305-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 49289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4302-1	SW05	Total/NA	Solid	8021B	49216
MB 880-49216/5-A	Method Blank	Total/NA	Solid	8021B	49216
LCS 880-49216/1-A	Lab Control Sample	Total/NA	Solid	8021B	49216
LCSD 880-49216/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	49216
890-4305-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	49216
890-4305-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	49216

Analysis Batch: 49389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4302-1	SW05	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 48781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4302-1	SW05	Total/NA	Solid	8015NM Prep	
MB 880-48781/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-48781/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-48781/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4297-A-3-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4297-A-3-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 48812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4302-1	SW05	Total/NA	Solid	8015B NM	48781
MB 880-48781/1-A	Method Blank	Total/NA	Solid	8015B NM	48781
LCS 880-48781/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	48781
LCSD 880-48781/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	48781
890-4297-A-3-B MS	Matrix Spike	Total/NA	Solid	8015B NM	48781
890-4297-A-3-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	48781

Analysis Batch: 49094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4302-1	SW05	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 48966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4302-1	SW05	Soluble	Solid	DI Leach	<u> </u>
MB 880-48966/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-48966/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-48966/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Ensolum Job ID: 890-4302-1
Project/Site: Ross Draw Unit #034 SDG: 03A1987018

HPLC/IC (Continued)

Leach Batch: 48966 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25948-A-11-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-25948-A-11-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 49317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4302-1	SW05	Soluble	Solid	300.0	48966
MB 880-48966/1-A	Method Blank	Soluble	Solid	300.0	48966
LCS 880-48966/2-A	Lab Control Sample	Soluble	Solid	300.0	48966
LCSD 880-48966/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	48966
880-25948-A-11-C MS	Matrix Spike	Soluble	Solid	300.0	48966
880-25948-A-11-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	48966

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Lab Chronicle

Client: Ensolum Job ID: 890-4302-1
Project/Site: Ross Draw Unit #034 SDG: 03A1987018

Client Sample ID: SW05 Lab Sample ID: 890-4302-1

Date Collected: 03/13/23 17:30 Matrix: Solid
Date Received: 03/14/23 09:14

	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	49216	03/22/23 13:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49289	03/23/23 19:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49389	03/24/23 10:11	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48781	03/16/23 15:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48812	03/17/23 18:50	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	48966	03/20/23 10:54	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49317	03/23/23 01:51	SMC	EET MID

Laboratory References:

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

Eurofins Carlsbad

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Accreditation/Certification Summary

Client: Ensolum Job ID: 890-4302-1
Project/Site: Ross Draw Unit #034 SDG: 03A1987018

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	are included in this report hi	it the laboratory is not certific	ed by the governing authority. This list ma	vindudo analytas for
the agency does not of	· '	it the laboratory is not certific	ed by the governing admonty. This list his	ay include arialytes for
0 ,	· '	Matrix	Analyte	ay include analytes for
the agency does not of	fer certification.	,	, , ,	

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Method Summary

Job ID: 890-4302-1 Client: Ensolum Project/Site: Ross Draw Unit #034 SDG: 03A1987018

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum

Project/Site: Ross Draw Unit #034

Job ID: 890-4302-1

SDG: 03A1987018

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4302-1	SW05	Solid	03/13/23 17:30	03/14/23 09:14	0 - 4

Work Order No:	Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
	Houston, TX (281) 240-4200. Dallas, TX (214) 902-0300
	Citalli of Custody

Revised Date: 08/25/2020 Rev. 2020.2			ō		2			On .
			4		***			3 ()
			14.239142	در		37/1	Ru	Will.
) Date/Time	e) Received by: (Signature)	Relinquished by: (Signature)	Date/Time	ure)	Received by: (Signature)) Rec	∵ (Signature)	Relinquisted by: (Signature)
	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.	enco, but not analyzed. These terms w	submitted to Eurofins X	arge of \$5 for each sample	each project and a ch	00 will be applied to	ilmum charge of \$85.	of Eurofins Xenco. A mi
	tractors. It assigns standard terms and conditions losses are due to circumstances beyond the control	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 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	company to Eurofins Xen	urchase order from client me any responsibility for	s constitutes a valid p	ishment of sample	document and relings	Notice: Signature of this of service. Eurofins Xen
45.1 / 7470 / 7471	Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470	As Ba Be Cd Cr Co Cu Pb Mn Mo Ni	Sb As Ba Be Co	LP 6010: 8RCRA	TCLP / SPLP 6010:	e analyzed	nd Metal(s) to be	Circle Method(s) and Metal(s) to be analyzed
	No Ni K Se A	കി	Sb As Ba Be B	Texas 11 Al	BRCRA 13PPM	020:	010 200.8 / 6020:	Total 200.7 / 6010
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NAB1528240224				1				
Incident ID				\				
			×	0-4' Comp 1	17:30	S 3.13.23)5	SW05
Sample Comments			CHLOI TPH (8 BTEX	Depth Grab/ # of Cont	Time Sampled	Matrix Sampled	ntification	Sample Identification
NaOH+ASCORDIC ACID: SAFC	- - -	-	015	0, &	Corrected Temperature:	Correct		Total Containers:
Zn Acetate+NaOH: Zn	Chain of Custody Zi	890-4302 Chain o)	0	Temperature Reading:	E	Yes	Sample Custody Seals:
Na ₂ S ₂ O ₃ : NaSO ₃			PA:	P. 0.0	Correction Factor:	3	s: Yes No	Cooler Custody Seals:
NaHSO ₄ : NABIS			300	2(~00+)	Thermometer ID:	No Thermo	(sex)	Samples Received Intact:
H ₃ PO ₄ : HP	Į		0.0)	(es) No	No Wet Ice:	Blank: Yes	Терар	SAMPLE RECEIPT
H ₂ SU ₄ : H ₂ NaCH: Na					the lab, if rece		1061093901	CC #:
				TAT starts the day received by	TAT starts the		Gilbert Moreno	Sampler's Name:
_	Ω			5 Day TAT	Due Date:		Eddy, NM	Project Location:
None: NO DI Water: H ₂ O	2			Rush Code	☑ Routine		03A1987018	Project Number:
Preservative Codes	EST	ANALYSIS REQUEST		Turn Around	Turn .	#034	Ross Draw Unit #034	Project Name:
Other:	Deliverables: EDD		.com, jim.raley@dv	Email: gmoreno@Ensolum.com.jim.raley@dvn.com	Email:		832-541-7719	Phone:
JST LITRRP LL Level IV LL	Reporting: Level II Level III PST/UST TRRP		Carlsbad, NM 88220	City, State ZIP:		38220	Carlsbad, NM 88220	City, State ZIP:
	State of Project:		5315 Buena Vista Dr	Address:		Parks HWY	3122 National Parks HWY	Address:
elds ☐ RRC ☐ Superfund ☐	Program: UST/PST 🗌 PRP 🗌 Brownfields 📗 RRC		WPX	Company Name:			Ensolum	Company Name:
mments	Work Order Comments		Jim Raley	Bill to: (if different)			Gilbert Moreno	Project Manager:
Page 1 of 1	www.xenco.com							
		id, NM (575) 988-3199	EL Paso, TX (915) 363-3443, Lubbock, TX (906) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	Hobbs, NM (Vellen		
	Work Order No:	Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334	32) 704-5440, San Anto	Midland, TX (4	Testing	Environment Testing		
		is, TX (214) 902-0300	Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300	Houston, T)				eurofins
		SICCA		(

Login Sample Receipt Checklist

 Client: Ensolum
 Job Number: 890-4302-1

 SDG Number: 03A1987018

List Source: Eurofins Carlsbad

Login Number: 4302 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	CHECK NCM
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: 890-4302-1 SDG Number: 03A1987018

List Source: Eurofins Midland

Login Number: 4302 List Number: 2

List Creation: 03/15/23 11:19 AM

Creator: Rodriguez, Leticia

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

Released to Imaging: 11/29/2023 10:08:49 AM

<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Devon Team Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701

Generated 3/26/2023 8:18:08 AM

JOB DESCRIPTION

Ross Draw Unit #034 SDG NUMBER 03A1987018

JOB NUMBER

890-4301-1

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 3/26/2023 8:18:08 AM

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

Client: Ensolum
Project/Site: Ross Draw Unit #034
Laboratory Job ID: 890-4301-1
SDG: 03A1987018

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Definitions/Glossary

Job ID: 890-4301-1 Client: Ensolum Project/Site: Ross Draw Unit #034

SDG: 03A1987018

Qualifiers

GC VOA Qualifier

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

*1 LCS/LCSD RPD exceeds control limits.

Qualifier Description

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

GC Semi VOA

Qualifier **Qualifier Description**

LCS/LCSD RPD exceeds control limits.

Percent Recovery

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

HPLC/IC

Qualifier **Qualifier Description**

U Indicates the analyte was analyzed for but not detected.

Glossary

%R

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

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

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

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

Decision Level Concentration (Radiochemistry) DLC

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

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

Minimum Detectable Concentration (Radiochemistry) MDC MDL Method Detection Limit

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present PQL

Practical Quantitation Limit

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

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Job ID: 890-4301-1 Project/Site: Ross Draw Unit #034 SDG: 03A1987018

Job ID: 890-4301-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4301-1

Receipt

The sample was received on 3/14/2023 9:14 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.8°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: SW06 (890-4301-1).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (890-4375-A-1-A MS). Evidence of matrix interferences is not obvious.

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

GC Semi VOA

Method 8015MOD NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-48781 and analytical batch 880-48812 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-48781/2-A) and (MB 880-48781/1-A). 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.

Matrix: Solid

Lab Sample ID: 890-4301-1

Client Sample Results

Client: Ensolum Job ID: 890-4301-1
Project/Site: Ross Draw Unit #034 SDG: 03A1987018

Client Sample ID: SW06

Date Collected: 03/13/23 18:00 Date Received: 03/14/23 09:14

Sample Depth: 0 - 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U *+ *1	0.00200		mg/Kg		03/22/23 13:25	03/25/23 20:55	
Toluene	<0.00200	U *+ *1	0.00200		mg/Kg		03/22/23 13:25	03/25/23 20:55	
Ethylbenzene	<0.00200	U *+ *1	0.00200		mg/Kg		03/22/23 13:25	03/25/23 20:55	
m-Xylene & p-Xylene	<0.00401	U *+ *1	0.00401		mg/Kg		03/22/23 13:25	03/25/23 20:55	
o-Xylene	0.00421	*+ *1	0.00200		mg/Kg		03/22/23 13:25	03/25/23 20:55	
Xylenes, Total	0.00421	*+ *1	0.00401		mg/Kg		03/22/23 13:25	03/25/23 20:55	•
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	104		70 - 130				03/22/23 13:25	03/25/23 20:55	
1,4-Difluorobenzene (Surr)	82		70 - 130				03/22/23 13:25	03/25/23 20:55	
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	0.00421		0.00401		mg/Kg			03/26/23 08:53	-
Method: SW846 8015 NM - Diese Analyte		ics (DRO) (Qualifier	GC) RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<49.9							•	
-	~49.9	U	49.9		mg/Kg			03/21/23 09:53	
: Method: SW846 8015B NM - Dies					mg/Kg			03/21/23 09:53	
	sel Range Orga			MDL	mg/Kg Unit	D	Prepared	03/21/23 09:53 Analyzed	
Analyte Gasoline Range Organics	sel Range Orga	nics (DRO) Qualifier	(GC)	MDL		<u>D</u>	Prepared 03/16/23 15:06		
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	sel Range Orga Result	nics (DRO) Qualifier U *1	(GC)	MDL	Unit	<u>D</u>	<u>·</u>	Analyzed	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	sel Range Orga Result <49.9	nics (DRO) Qualifier U*1	(GC) RL 49.9	MDL	Unit mg/Kg	<u>D</u>	03/16/23 15:06	Analyzed 03/17/23 18:28	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	sel Range Orga Result <49.9	nics (DRO) Qualifier U *1 U	(GC) RL 49.9	MDL	Unit mg/Kg mg/Kg	<u>D</u>	03/16/23 15:06 03/16/23 15:06	Analyzed 03/17/23 18:28 03/17/23 18:28	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate	sel Range Orga Result <49.9 <49.9	nics (DRO) Qualifier U *1 U	(GC) RL 49.9 49.9 49.9	MDL	Unit mg/Kg mg/Kg	<u>D</u>	03/16/23 15:06 03/16/23 15:06 03/16/23 15:06	Analyzed 03/17/23 18:28 03/17/23 18:28 03/17/23 18:28	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	sel Range Orga Result <49.9 <49.9 <49.9 %Recovery	nics (DRO) Qualifier U *1 U	(GC) RL 49.9 49.9 49.9 Limits	MDL	Unit mg/Kg mg/Kg	<u>D</u>	03/16/23 15:06 03/16/23 15:06 03/16/23 15:06 Prepared	Analyzed 03/17/23 18:28 03/17/23 18:28 03/17/23 18:28 Analyzed	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: EPA 300.0 - Anions, Ion	sel Range Orga Result <49.9	nics (DRO) Qualifier U*1 U Qualifier	(GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	MDL	Unit mg/Kg mg/Kg	<u>D</u>	03/16/23 15:06 03/16/23 15:06 03/16/23 15:06 Prepared 03/16/23 15:06	Analyzed 03/17/23 18:28 03/17/23 18:28 03/17/23 18:28 Analyzed 03/17/23 18:28	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	sel Range Orga Result <49.9 <49.9 <49.9 **Recovery 92 107 Chromatograp	nics (DRO) Qualifier U*1 U Qualifier	(GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130		Unit mg/Kg mg/Kg	<u>D</u>	03/16/23 15:06 03/16/23 15:06 03/16/23 15:06 Prepared 03/16/23 15:06	Analyzed 03/17/23 18:28 03/17/23 18:28 03/17/23 18:28 Analyzed 03/17/23 18:28	Dil Fac

Surrogate Summary

Client: Ensolum Job ID: 890-4301-1 Project/Site: Ross Draw Unit #034 SDG: 03A1987018

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Re
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-4301-1	SW06	104	82	
890-4375-A-1-A MS	Matrix Spike	52 S1-	107	
890-4375-A-1-B MSD	Matrix Spike Duplicate	113	108	
LCS 880-49217/1-A	Lab Control Sample	112	106	
MB 880-49025/5-A	Method Blank	76	78	
MB 880-49217/5-A	Method Blank	84	93	
Surrogate Legend				
BFB = 4-Bromofluorobe	nzene (Surr)			
DFBZ = 1.4-Difluoroben	zene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

		1001	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-4297-A-3-B MS	Matrix Spike	96	101
890-4297-A-3-C MSD	Matrix Spike Duplicate	112	114
390-4301-1	SW06	92	107
_CS 880-48781/2-A	Lab Control Sample	121	136 S1+
LCSD 880-48781/3-A	Lab Control Sample Dup	104	120
MB 880-48781/1-A	Method Blank	108	133 S1+

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-4301-1 Project/Site: Ross Draw Unit #034 SDG: 03A1987018

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-49025/5-A

Matrix: Solid

Analysis Batch: 49405

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 49025

1

	MB	MR							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/20/23 14:56	03/25/23 03:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/20/23 14:56	03/25/23 03:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/20/23 14:56	03/25/23 03:42	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/20/23 14:56	03/25/23 03:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/20/23 14:56	03/25/23 03:42	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/20/23 14:56	03/25/23 03:42	1

MB MB

MR MR

MD MD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	76	70 - 130
1,4-Difluorobenzene (Surr)	78	70 - 130

Prepared Analyzed Dil Fac 03/20/23 14:56 03/25/23 03:42 03/20/23 14:56 03/25/23 03:42

Client Sample ID: Method Blank

Analysis Batch: 49405

Matrix: Solid

Lab Sample ID: MB 880-49217/5-A

Prep Type: Total/NA

Prep Batch: 49217

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac mg/Kg Benzene <0.00200 U 0.00200 03/22/23 13:25 03/25/23 14:44 Toluene <0.00200 U 0.00200 mg/Kg 03/22/23 13:25 03/25/23 14:44 Ethylbenzene <0.00200 U 0.00200 mg/Kg 03/22/23 13:25 03/25/23 14:44 03/22/23 13:25 03/25/23 14:44 m-Xylene & p-Xylene <0.00400 U 0.00400 mg/Kg <0.00200 U 03/25/23 14:44 o-Xylene 0.00200 mg/Kg 03/22/23 13:25 03/22/23 13:25 Xylenes, Total <0.00400 U 0.00400 mg/Kg 03/25/23 14:44

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepare	d Analy:	zed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130	03/22/23 1	3:25 03/25/23	14:44	1
1,4-Difluorobenzene (Surr)	93		70 - 130	03/22/23 1	3:25 03/25/23	14:44	1

Lab Sample ID: LCS 880-49217/1-A

Matrix: Solid

Analysis Batch: 49405

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 49217

	Spike	LUS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09425		mg/Kg		94	70 - 130	
Toluene	0.100	0.09427		mg/Kg		94	70 - 130	
Ethylbenzene	0.100	0.09713		mg/Kg		97	70 - 130	
m-Xylene & p-Xylene	0.200	0.2107		mg/Kg		105	70 - 130	
o-Xylene	0.100	0.1385	*+	mg/Kg		138	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifie	er Limits
4-Bromofluorobenzene (Surr)	112	70 - 130
1.4-Difluorobenzene (Surr)	106	70 - 130

Lab Sample ID: 890-4375-A-1-A MS

Matrix: Solid

Analysis Batch: 49405

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

Prep Batch: 49217

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00198	U *+ *1	0.0998	0.08994		mg/Kg	_	90	70 - 130	

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Page 8 of 20

Client: Ensolum Job ID: 890-4301-1 Project/Site: Ross Draw Unit #034 SDG: 03A1987018

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

Lab Sample ID: 890-4375-A-1-A MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 49405

•	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Toluene	<0.00198	U *+ *1	0.0998	0.08380		mg/Kg		84	70 - 130	
Ethylbenzene	<0.00198	U *+ *1	0.0998	0.07975		mg/Kg		80	70 - 130	
m-Xylene & p-Xylene	<0.00396	U *+ *1	0.200	0.1711		mg/Kg		86	70 - 130	
o-Xylene	<0.00198	U *+ *1	0.0998	0.09393		mg/Kg		94	70 - 130	
,						59				

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	52	S1-	70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Client Sample ID: Matrix Spike Duplicate Lab Sample ID: 890-4375-A-1-B MSD

Matrix: Solid

Analysis Batch: 49405

Prep Type: Total/NA

Prep Batch: 49217

Prep Type: Total/NA

Prep Batch: 49217

Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
<0.00198	U *+ *1	0.100	0.09078		mg/Kg		90	70 - 130	1	35
<0.00198	U *+ *1	0.100	0.08342		mg/Kg		83	70 - 130	0	35
<0.00198	U *+ *1	0.100	0.08171		mg/Kg		81	70 - 130	2	35
<0.00396	U *+ *1	0.201	0.1754		mg/Kg		87	70 - 130	2	35
<0.00198	U *+ *1	0.100	0.09620		mg/Kg		96	70 - 130	2	35
	Result<0.00198<0.00198<0.00198<0.00396	Sample Sample	Result Qualifier Added <0.00198	Result Qualifier Added Result <0.00198	Result Qualifier Added Result Qualifier <0.00198	Result Qualifier Added Result Qualifier Unit <0.00198	Result Qualifier Added Result Qualifier Unit D <0.00198	Result Qualifier Added Result Qualifier Unit D %Rec <0.00198	Result Qualifier Added Result Qualifier Unit D %Rec Limits <0.00198	Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD <0.00198

MSD MSD

Surrogate	%Recovery (Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

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

Lab Sample ID: MB 880-48781/1-A

Matrix: Solid

Analysis Batch: 48812

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 48781

MB MB MDL Unit Result Qualifier Analyte RL D Prepared Analyzed Dil Fac <50.0 U 50.0 03/16/23 15:06 03/17/23 08:28 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 03/16/23 15:06 03/17/23 08:28 C10-C28) Oll Range Organics (Over C28-C36) <50.0 U 50.0 03/16/23 15:06 03/17/23 08:28 mg/Kg

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	03/16/23 15:06	03/17/23 08:28	1
o-Terphenyl	133	S1+	70 - 130	03/16/23 15:06	03/17/23 08:28	1

Lab Sample ID: LCS 880-48781/2-A

Matrix: Solid

Analysis Batch: 48812

Client Sample ID: Lab Control Sample Prep Type: Total/NA Prep Batch: 48781

Spike LCS LCS %Rec Added Result Qualifier Limits Analyte Unit %Rec Gasoline Range Organics 1000 1075 107 70 - 130 mg/Kg

(GRO)-C6-C10

Client: Ensolum Job ID: 890-4301-1
Project/Site: Ross Draw Unit #034 SDG: 03A1987018

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

Lab Sample ID: LCS 880-48781/2-A

Matrix: Solid

Analysis Batch: 48812

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 48781

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Diesel Range Organics (Over	1000	1006		mg/Kg		101	70 - 130
0.40, 0.00)							

C10-C28)

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	121		70 - 130
o-Terphenyl	136	S1+	70 - 130

Lab Sample ID: LCSD 880-48781/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 48812
Prep Batch: 48781

Spike LCSD LCSD %Rec RPD Added Result Qualifier Limit Analyte Unit %Rec Limits RPD 1000 859.6 86 70 - 130 22 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 881.0 mg/Kg 88 70 - 130 13 20 C10-C28)

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	104		70 - 130
o-Terphenyl	120		70 - 130

Lab Sample ID: 890-4297-A-3-B MS

Client Sample ID: Matrix Spike

Matrix: Solid

Prep Type: Total/NA

Matrix: Solid Prep Type: Total/NA
Analysis Batch: 48812 Prep Batch: 48781

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits <49.9 U *1 Gasoline Range Organics 998 898.9 mg/Kg 85 70 - 130 (GRO)-C6-C10 998 Diesel Range Organics (Over 133 1034 90 70 - 130 mg/Kg C10-C28)

MS MS

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	96	70 - 130
o-Terphenvl	101	70 - 130

Lab Sample ID: 890-4297-A-3-C MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Prep Type: Total/NA

Matrix: Solid Prep Type: Total/NA
Analysis Batch: 48812 Prep Batch: 48781

	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 *1	999	1011		mg/Kg		96	70 - 130	12	20
(GRO)-C6-C10											
Diesel Range Organics (Over	133		999	1176		mg/Kg		104	70 - 130	13	20
C10-C28)											

MSD MSD
Surrogate %Recovery Qualifier Limits

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	112		70 - 130
o-Terphenyl	114		70 - 130

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Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

QC Sample Results

Client: Ensolum Job ID: 890-4301-1 Project/Site: Ross Draw Unit #034 SDG: 03A1987018

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-48967/1-A

Matrix: Solid

Analysis Batch: 49323

MB MB

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 mg/Kg 03/22/23 20:50

Lab Sample ID: LCS 880-48967/2-A

Matrix: Solid

Analysis Batch: 49323

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 257.2 mg/Kg 103 90 - 110

Lab Sample ID: LCSD 880-48967/3-A

Matrix: Solid

Analysis Batch: 49323

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 257.0 mg/Kg 103 90 - 110

Lab Sample ID: 880-25949-A-1-E MS

Matrix: Solid

Analysis Batch: 49323

MS MS Sample Sample Spike %Rec Analyte Qualifier Added %Rec Result Result Qualifier Unit Limits Chloride 387 249 643.6 103 90 - 110 mg/Kg

Lab Sample ID: 880-25949-A-1-F MSD

Matrix: Solid

Analysis Batch: 49323

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit 249 Chloride 387 652.5 mg/Kg 107 90 - 110 20

QC Association Summary

Client: Ensolum
Project/Site: Ross Draw Unit #034

Job ID: 890-4301-1 SDG: 03A1987018

GC VOA

Prep Batch: 49025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-49025/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 49217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4301-1	SW06	Total/NA	Solid	5035	
MB 880-49217/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-49217/1-A	Lab Control Sample	Total/NA	Solid	5035	
890-4375-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
890-4375-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 49405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4301-1	SW06	Total/NA	Solid	8021B	49217
MB 880-49025/5-A	Method Blank	Total/NA	Solid	8021B	49025
MB 880-49217/5-A	Method Blank	Total/NA	Solid	8021B	49217
LCS 880-49217/1-A	Lab Control Sample	Total/NA	Solid	8021B	49217
890-4375-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	49217
890-4375-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	49217

Analysis Batch: 49525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4301-1	SW06	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 48781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4301-1	SW06	Total/NA	Solid	8015NM Prep	
MB 880-48781/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-48781/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-48781/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4297-A-3-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4297-A-3-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 48812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4301-1	SW06	Total/NA	Solid	8015B NM	48781
MB 880-48781/1-A	Method Blank	Total/NA	Solid	8015B NM	48781
LCS 880-48781/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	48781
LCSD 880-48781/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	48781
890-4297-A-3-B MS	Matrix Spike	Total/NA	Solid	8015B NM	48781
890-4297-A-3-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	48781

Analysis Batch: 49094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4301-1	SW06	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 48967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4301-1	SW06	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Ensolum
Project/Site: Ross Draw Unit #034
Job ID: 890-4301-1
SDG: 03A1987018

HPLC/IC (Continued)

Leach Batch: 48967 (Continued)

Lab Sample ID MB 880-48967/1-A	Client Sample ID Method Blank	Prep Type Soluble	Matrix Solid	Method DI Leach	Prep Batch
LCS 880-48967/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-48967/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-25949-A-1-E MS	Matrix Spike	Soluble	Solid	DI Leach	
880-25949-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 49323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4301-1	SW06	Soluble	Solid	300.0	48967
MB 880-48967/1-A	Method Blank	Soluble	Solid	300.0	48967
LCS 880-48967/2-A	Lab Control Sample	Soluble	Solid	300.0	48967
LCSD 880-48967/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	48967
880-25949-A-1-E MS	Matrix Spike	Soluble	Solid	300.0	48967
880-25949-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	48967

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Date Received: 03/14/23 09:14

Lab Chronicle

Client: Ensolum Job ID: 890-4301-1 Project/Site: Ross Draw Unit #034 SDG: 03A1987018

Client Sample ID: SW06 Lab Sample ID: 890-4301-1 Date Collected: 03/13/23 18:00

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	49217	03/22/23 13:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49405	03/25/23 20:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49525	03/26/23 08:53	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48781	03/16/23 15:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48812	03/17/23 18:28	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	48967	03/20/23 10:55	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49323	03/22/23 21:34	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: 890-4301-1 Project/Site: Ross Draw Unit #034 SDG: 03A1987018

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	NE	ELAP	T104704400-22-25	06-30-23
The following analytes the agency does not of	• •	ut the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes fo
Analysis Method	Prep Method	Matrix	Analyte	
0 ,		Matrix Solid	Analyte Total TPH	

Method Summary

Job ID: 890-4301-1 Client: Ensolum Project/Site: Ross Draw Unit #034 SDG: 03A1987018

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum

Project/Site: Ross Draw Unit #034

Job ID: 890-4301-1

SDG: 03A1987018

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4301-1	SW06	Solid	03/13/23 18:00	03/14/23 09:14	0 - 4

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

Total 200.7 / 6010

200.8 / 6020:

8RCRA 13PPM Texas 11 Al

Sb As Ba

ВеВ

Cd Ca Cr

Co Cu Fe Pb

Mg Mn Mo Ni

X Se

Ag SiO₂ Na Sr

TI Sn U V Zn

Hg.

1631 / 245.1 / 7470 / 7471

Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U

TCLP / SPLP 6010: 8RCRA

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

eurofins

Environment Testing

Xenco

Phone:

832-541-7719 Carlsbad, NM 88220 3122 National Parks HWY

Email: gmo Turn Around

City Add Con

City, State ZIP:

ddress:

Company Name:

Ensolum

Project Manager:

Gilbert Moreno

Samples Received Intact: SAMPLE RECEIPT

Cooler Custody Seals:

Yes Yes

> Correction Factor: Thermometer ID:

8

Corrected Temperature: Temperature Reading:

CHLORIDES (EPA: 300.0)

890-4301 Chain of Custody

1 × (8) Temp Blank: (

No.

Yas No

Wet Ice:

es 8

Parameters

100 VI

ample Custody Seals:

Sample Identification **SW06**

> Matrix S

> > Date

Time

Depth

Comp Grab/

Cont # of

TPH (8015)

BTEX (8021

Sampled

3.13.23 Sampled

18:00

0-4

Comp

Sampler's Name:

Gilbert Moreno

1061093901

Eddy, NM

Due Date:

TAT starts the day received by the lab, if received by 4:30pm

Routine

Rush 5 Day TAT

Pres.

ANALYSIS REQUEST

HCL: HC

HNO3: HN MeOH: Me DI Water: H₂O

NaOH: Na

Cool: Coo None: NO

Preservative Codes

Project Location:

Project Number: Project Name:

03A1987018

Ross Draw Unit #034

Chain of Custody

Midland, TX	Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334	Work Order No:
EL Paso, T	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296	
Hobbs, NM	Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	
		www.xenco.com Page of
o: (if different)	Jim Raley	Work Order Comments
pany Name:	WPX	Program: UST/PST PRP Brownfields RRC Superfund
ress:	5315 Buena Vista Dr.	State of Project:
State ZIP:	Carlsbad, NM 88220	Reporting: Level II Level III PST/UST TRRP Level IV
eno@Ensolur	oreno@Ensolum.com, jim.raley@dvn.com	Deliverables: EDD

		o			6 0
		4			1 hatte
		/2	3-14-23-9142	(July) M/)	Conson)
nature) Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)

NaOH+Ascorbic Acid: SAPC

Sample Comments

NAB1528240224 Incident ID Zn Acetate+NaOH: Zn

Na₂S₂O₃: NaSO₃ NaHSO₄: NABIS H3PO4: HP H2SO4: H2

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4301-1 SDG Number: 03A1987018

Login Number: 4301 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	CHECK NCM
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: 890-4301-1 SDG Number: 03A1987018

Login Number: 4301 **List Source: Eurofins Midland** List Number: 2 List Creation: 03/15/23 11:19 AM

Creator: Rodriguez, Leticia

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

<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Devon Team Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701

Generated 3/24/2023 9:18:20 AM

JOB DESCRIPTION

Ross Draw Unit #034 SDG NUMBER 03A1987018

JOB NUMBER

890-4306-1

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 3/24/2023 9:18:20 AM

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

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Client: Ensolum
Project/Site: Ross Draw Unit #034
Laboratory Job ID: 890-4306-1
SDG: 03A1987018

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Definitions/Glossary

Job ID: 890-4306-1 Client: Ensolum Project/Site: Ross Draw Unit #034

SDG: 03A1987018

Qualifiers

GC VOA

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

U

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**

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

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" Minimum Detectable Activity (Radiochemistry) MDA MDC Minimum Detectable Concentration (Radiochemistry)

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

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)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Job ID: 890-4306-1 Project/Site: Ross Draw Unit #034 SDG: 03A1987018

Job ID: 890-4306-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4306-1

Receipt

The samples were received on 3/14/2023 9:14 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 0.8°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: FS01 (890-4306-1), FS02 (890-4306-2), FS03 (890-4306-3), FS04 (890-4306-4), FS05 (890-4306-5) and FS06 (890-4306-6).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: FS02 (890-4306-2). 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 880-48883 and analytical batch 880-48946 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-48883/2-A) and (LCSD 880-48883/3-A). 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.

Eurofins Carlsbad 3/24/2023

Client: Ensolum Job ID: 890-4306-1
Project/Site: Ross Draw Unit #034 SDG: 03A1987018

Client Sample ID: FS01 Lab Sample ID: 890-4306-1

Date Collected: 03/13/23 15:30 Date Received: 03/14/23 09:14

Sample Depth: 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/22/23 13:23	03/23/23 14:13	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/22/23 13:23	03/23/23 14:13	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/22/23 13:23	03/23/23 14:13	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/22/23 13:23	03/23/23 14:13	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/22/23 13:23	03/23/23 14:13	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/22/23 13:23	03/23/23 14:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				03/22/23 13:23	03/23/23 14:13	1
1,4-Difluorobenzene (Surr)	106		70 - 130				03/22/23 13:23	03/23/23 14:13	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			03/24/23 08:51	1
					0 0				
Mothod: SW946 9045 NM Dioce	I Bango Organ	ice (DBO) (0 0				
Method: SW846 8015 NM - Diese			GC)	MDI		n	Propared		Dil Fac
Analyte	Result	Qualifier	GC)	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
		Qualifier	GC)	MDL		<u>D</u>	Prepared		Dil Fac
Analyte	Result <49.9	Qualifier U	GC) RL 49.9	MDL	Unit	<u>D</u>	Prepared	Analyzed	
Analyte Total TPH	Result <49.9	Qualifier U	GC) RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed	
Analyte Total TPH Method: SW846 8015B NM - Dies	Result <49.9	Qualifier Unics (DRO) Qualifier	GC) RL 49.9		Unit mg/Kg			Analyzed 03/22/23 16:11	1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result <49.9 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U	GC) RL 49.9 (GC) RL		Unit mg/Kg		Prepared	Analyzed 03/22/23 16:11 Analyzed	1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 sel Range Orga Result <49.9	Qualifier U nics (DRO) Qualifier U	GC) RL 49.9 (GC) RL 49.9		Unit mg/Kg Unit mg/Kg		Prepared 03/18/23 09:47	Analyzed 03/22/23 16:11 Analyzed 03/20/23 17:39	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U nics (DRO) Qualifier U	GC) RL 49.9 (GC) RL 49.9 49.9		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/18/23 09:47 03/18/23 09:47	Analyzed 03/22/23 16:11 Analyzed 03/20/23 17:39 03/20/23 17:39	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 <49.9 sel Range Orga	Qualifier U nics (DRO) Qualifier U U	GC) RL 49.9 (GC) RL 49.9 49.9 49.9		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/18/23 09:47 03/18/23 09:47 03/18/23 09:47	Analyzed 03/22/23 16:11 Analyzed 03/20/23 17:39 03/20/23 17:39 03/20/23 17:39	1 Dil Fac 1 1 1

Client Sample ID: FS02 Lab Sample ID: 890-4306-2

RL

5.03

MDL Unit

mg/Kg

D

Prepared

Analyzed

03/22/23 18:36

Dil Fac

Matrix: Solid

Date Collected: 03/13/23 16:00 Date Received: 03/14/23 09:14

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier

557

Sample Depth: 4

Analyte

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/22/23 13:23	03/23/23 14:33	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/22/23 13:23	03/23/23 14:33	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/22/23 13:23	03/23/23 14:33	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/22/23 13:23	03/23/23 14:33	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/22/23 13:23	03/23/23 14:33	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/22/23 13:23	03/23/23 14:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130				03/22/23 13:23	03/23/23 14:33	1

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/24/2022

Client: Ensolum Job ID: 890-4306-1 Project/Site: Ross Draw Unit #034 SDG: 03A1987018

Client Sample ID: FS02 Lab Sample ID: 890-4306-2

Date Collected: 03/13/23 16:00 Matrix: Solid Date Received: 03/14/23 09:14

Sample Depth: 4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	112		70 - 130	03/22/23 13:23	03/23/23 14:33	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit)	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg		_	03/24/23 08:51	1

1		
Method: SW846 8015 NM -	Discal Dance Occasion	(DDO) (CC)
I WETDOO'S WAAH AU15 NIVI .	. Diesei Ranne Ornanics	(I)R()) ((=(.)

Analyte	Result	Qualifier	RL	MDL	Unit	I	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			_	03/22/23 16:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/18/23 09:47	03/20/23 18:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/18/23 09:47	03/20/23 18:00	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/18/23 09:47	03/20/23 18:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery G	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130	03/18/23 09:47	03/20/23 18:00	1
o-Terphenyl	95		70 - 130	03/18/23 09:47	03/20/23 18:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	509		25.0		mg/Kg			03/22/23 18:51	5

Client Sample ID: FS03 Lab Sample ID: 890-4306-3

Date Collected: 03/13/23 18:05 Date Received: 03/14/23 09:14

Sample Depth: 4

Mothodi	CIMOAC GOOAD	Valatile Or	ganic Compour	de (CC)
i wethod:	5W846 8U21B	- volatile Ur	danic Compour	ias (GC)

Welliou. 344040 002 ID - Volatile V	organic comp	ounus (GC))						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/22/23 13:23	03/23/23 14:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/22/23 13:23	03/23/23 14:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/22/23 13:23	03/23/23 14:53	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/22/23 13:23	03/23/23 14:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/22/23 13:23	03/23/23 14:53	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/22/23 13:23	03/23/23 14:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130				03/22/23 13:23	03/23/23 14:53	1

Surrogate	%Recovery	Quaimer	Limits	Prepared	Anaryzea	DII Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	03/22/23 13:23	03/23/23 14:53	1
1,4-Difluorobenzene (Surr)	107		70 - 130	03/22/23 13:23	03/23/23 14:53	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00399	U	0.00399	ma/Ka			03/24/23 08:51	1

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

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

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Matrix: Solid

Lab Sample ID: 890-4306-3

Lab Sample ID: 890-4306-4

Matrix: Solid

Job ID: 890-4306-1

Client: Ensolum Project/Site: Ross Draw Unit #034 SDG: 03A1987018

Client Sample ID: FS03 Date Collected: 03/13/23 18:05 Date Received: 03/14/23 09:14

Sample Depth: 4

Analyte	Result	Qualifier	RL	MDL (Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	r	mg/Kg		03/18/23 09:47	03/20/23 18:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	r	mg/Kg		03/18/23 09:47	03/20/23 18:22	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	r	mg/Kg		03/18/23 09:47	03/20/23 18:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				03/18/23 09:47	03/20/23 18:22	1
o-Terphenyl	104		70 - 130				03/18/23 09:47	03/20/23 18:22	1

Result Qualifier MDL Unit Analyte RL D Prepared Analyzed Dil Fac 1100 5.05 03/22/23 18:56 Chloride mg/Kg

Client Sample ID: FS04

Date Collected: 03/13/23 18:10

Date Received: 03/14/23 09:14

Sample Depth: 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/22/23 13:23	03/23/23 15:14	1
Toluene	< 0.00199	U	0.00199		mg/Kg		03/22/23 13:23	03/23/23 15:14	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		03/22/23 13:23	03/23/23 15:14	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/22/23 13:23	03/23/23 15:14	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		03/22/23 13:23	03/23/23 15:14	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/22/23 13:23	03/23/23 15:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				03/22/23 13:23	03/23/23 15:14	1
1,4-Difluorobenzene (Surr)	110		70 - 130				03/22/23 13:23	03/23/23 15:14	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/24/23 08:51	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/22/23 16:11	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/18/23 09:47	03/20/23 18:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/18/23 09:47	03/20/23 18:43	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/18/23 09:47	03/20/23 18:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				03/18/23 09:47	03/20/23 18:43	1
o-Terphenyl	102		70 - 130				03/18/23 09:47	03/20/23 18:43	1

Job ID: 890-4306-1

Client: Ensolum Project/Site: Ross Draw Unit #034 SDG: 03A1987018

Client Sample ID: FS04 Lab Sample ID: 890-4306-4

Date Collected: 03/13/23 18:10 Matrix: Solid Date Received: 03/14/23 09:14

Sample Depth: 4

Method: EPA 300.0 - Anions, Ion Ch	romatograph	ny - Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2090		24.8		mg/Kg			03/22/23 19:01	5

Client Sample ID: FS05 Lab Sample ID: 890-4306-5

Date Collected: 03/13/23 18:20

Date Received: 03/14/23 09:14

Sample Depth: 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/22/23 13:23	03/23/23 15:34	
Toluene	<0.00201	U	0.00201		mg/Kg		03/22/23 13:23	03/23/23 15:34	•
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/22/23 13:23	03/23/23 15:34	
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/22/23 13:23	03/23/23 15:34	
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/22/23 13:23	03/23/23 15:34	
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/22/23 13:23	03/23/23 15:34	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	114		70 - 130				03/22/23 13:23	03/23/23 15:34	
1,4-Difluorobenzene (Surr)	105		70 - 130				03/22/23 13:23	03/23/23 15:34	
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00402	U	0.00402		mg/Kg			03/24/23 08:51	
Method: SW846 8015 NM - Diese Analyte	•	ics (DRO) (0 Qualifier	GC)	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<50.0		50.0		mg/Kg	— <u> </u>		03/22/23 16:11	
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/18/23 09:47	03/20/23 19:04	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/18/23 09:47	03/20/23 19:04	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/18/23 09:47	03/20/23 19:04	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	87		70 - 130				03/18/23 09:47	03/20/23 19:04	
o-Terphenyl	99		70 - 130				03/18/23 09:47	03/20/23 19:04	
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	12.7		5.03		mg/Kg			03/22/23 19:06	

Client Sample Results

Client: Ensolum Job ID: 890-4306-1
Project/Site: Ross Draw Unit #034 SDG: 03A1987018

Client Sample ID: FS06 Lab Sample ID: 890-4306-6

Date Collected: 03/13/23 18:30
Date Received: 03/14/23 09:14

Sample Depth: 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/22/23 13:23	03/23/23 15:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/22/23 13:23	03/23/23 15:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/22/23 13:23	03/23/23 15:55	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/22/23 13:23	03/23/23 15:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/22/23 13:23	03/23/23 15:55	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/22/23 13:23	03/23/23 15:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130				03/22/23 13:23	03/23/23 15:55	1
1,4-Difluorobenzene (Surr)	107		70 - 130				03/22/23 13:23	03/23/23 15:55	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	ulation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese	•		•	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH	•	Qualifier	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 03/22/23 16:11	Dil Fac
Analyte Total TPH	Result <49.9	Qualifier U	RL 49.9	MDL		<u>D</u>	Prepared		
Analyte	Result <49.9 sel Range Orga	Qualifier U	RL 49.9			<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: SW846 8015B NM - Dies	Result <49.9 sel Range Orga	Qualifier Unics (DRO) Qualifier	RL 49.9		mg/Kg	=		03/22/23 16:11	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result <49.9 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U	(GC)		mg/Kg	=	Prepared	03/22/23 16:11 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 sel Range Orga Result <49.9	Qualifier U nics (DRO) Qualifier U	(GC) RL 49.9		mg/Kg Unit mg/Kg	=	Prepared 03/18/23 09:47	03/22/23 16:11 Analyzed 03/20/23 19:25	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U nics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 03/18/23 09:47 03/18/23 09:47	03/22/23 16:11 Analyzed 03/20/23 19:25 03/20/23 19:25	1 Dil Fac
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 49.9 (GC) RL 49.9 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 03/18/23 09:47 03/18/23 09:47 03/18/23 09:47	03/22/23 16:11 Analyzed 03/20/23 19:25 03/20/23 19:25	Dil Fac
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) Surrogate	Result <49.9	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 03/18/23 09:47 03/18/23 09:47 03/18/23 09:47 Prepared	03/22/23 16:11 Analyzed 03/20/23 19:25 03/20/23 19:25 03/20/23 19:25 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <49.9	Qualifier U 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 03/18/23 09:47 03/18/23 09:47 03/18/23 09:47 Prepared 03/18/23 09:47	03/22/23 16:11 Analyzed 03/20/23 19:25 03/20/23 19:25 Analyzed 03/20/23 19:25	Dil Fac 1 1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result <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	MDL	mg/Kg Unit mg/Kg mg/Kg	=	Prepared 03/18/23 09:47 03/18/23 09:47 03/18/23 09:47 Prepared 03/18/23 09:47	03/22/23 16:11 Analyzed 03/20/23 19:25 03/20/23 19:25 Analyzed 03/20/23 19:25	Dil Fac 1 1 Dil Fac

Surrogate Summary

Job ID: 890-4306-1 Client: Ensolum Project/Site: Ross Draw Unit #034 SDG: 03A1987018

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)	
890-4305-A-1-E MS	Matrix Spike	113	113	
890-4305-A-1-F MSD	Matrix Spike Duplicate	114	110	
890-4306-1	FS01	110	106	
890-4306-2	FS02	138 S1+	112	
390-4306-3	FS03	119	107	
890-4306-4	FS04	116	110	
390-4306-5	FS05	114	105	
390-4306-6	FS06	117	107	
_CS 880-49216/1-A	Lab Control Sample	102	108	
LCSD 880-49216/2-A	Lab Control Sample Dup	102	108	
MB 880-49216/5-A	Method Blank	99	101	
Surrogate Legend				

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Lim
		1001	OTPH1	
_ab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-25948-A-1-B MS	Matrix Spike	89	91	
80-25948-A-1-C MSD	Matrix Spike Duplicate	87	90	
90-4306-1	FS01	81	91	
90-4306-2	FS02	86	95	
90-4306-3	FS03	91	104	
90-4306-4	FS04	91	102	
90-4306-5	FS05	87	99	
90-4306-6	FS06	86	99	
CS 880-48883/2-A	Lab Control Sample	117	140 S1+	
CSD 880-48883/3-A	Lab Control Sample Dup	131 S1+	156 S1+	
	Method Blank	134 S1+	160 S1+	

OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-4306-1
Project/Site: Ross Draw Unit #034 SDG: 03A1987018

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-49216/5-A

Matrix: Solid Analysis Batch: 49289 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 49216

	МВ	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/22/23 13:23	03/23/23 12:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/22/23 13:23	03/23/23 12:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/22/23 13:23	03/23/23 12:26	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/22/23 13:23	03/23/23 12:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/22/23 13:23	03/23/23 12:26	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/22/23 13:23	03/23/23 12:26	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99	70 - 130	03/22/23 13:23	03/23/23 12:26	1
1,4-Difluorobenzene (Surr)	101	70 - 130	03/22/23 13:23	03/23/23 12:26	1

Lab Sample ID: LCS 880-49216/1-A

Matrix: Solid

Analysis Batch: 49289

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 49216

	Spike	LCS	LUS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09819	-	mg/Kg		98	70 - 130	
Toluene	0.100	0.09454		mg/Kg		95	70 - 130	
Ethylbenzene	0.100	0.08635		mg/Kg		86	70 - 130	
m-Xylene & p-Xylene	0.200	0.1710		mg/Kg		85	70 - 130	
o-Xylene	0.100	0.08571		mg/Kg		86	70 - 130	

LCS LCS

Surrogate	%Recovery Qu	alifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: LCSD 880-49216/2-A

Matrix: Solid

Analysis Batch: 49289

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 49216

Prep Batch: 49216

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.09773		mg/Kg		98	70 - 130	0	35	
Toluene	0.100	0.09731		mg/Kg		97	70 - 130	3	35	
Ethylbenzene	0.100	0.08515		mg/Kg		85	70 - 130	1	35	
m-Xylene & p-Xylene	0.200	0.1677		mg/Kg		84	70 - 130	2	35	
o-Xylene	0.100	0.08493		mg/Kg		85	70 - 130	1	35	

LCSD LCSD

Surrogate	%Recovery Qualif	ier Limits
4-Bromofluorobenzene (Surr)	102	70 - 130
1 4-Difluorobenzene (Surr)	108	70 - 130

Lab Sample ID: 890-4305-A-1-E MS

Matrix: Solid

Analysis Batch: 49289

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 49216

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.0998	0.1082		mg/Kg	_	108	70 - 130	
Toluene	<0.00200	U	0.0998	0.1073		mg/Kg		108	70 - 130	

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QC Sample Results

Client: Ensolum Job ID: 890-4306-1 SDG: 03A1987018 Project/Site: Ross Draw Unit #034

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

Lab Sample ID: 890-4305-A-1-E MS

Matrix: Solid

Analysis Batch: 49289

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

Prep Batch: 49216

Sample	Sample	Spike	MS	MS				%Rec	
Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
<0.00200	U	0.0998	0.09314		mg/Kg		93	70 - 130	
<0.00399	U	0.200	0.1848		mg/Kg		93	70 - 130	
<0.00200	U	0.0998	0.09348		mg/Kg		94	70 - 130	
	Result <0.00200 <0.00399	Result Qualifier <0.00200 U <0.00399 U	Result Qualifier Added <0.00200	Result Qualifier Added Result <0.00200	Result Qualifier Added Result Qualifier <0.00200	<0.00200 U 0.0998 0.09314 mg/Kg <0.00399 U 0.200 0.1848 mg/Kg	Result Qualifier Added Result Qualifier Unit Unit Unit Major D <0.00200	Result Qualifier Added Result Qualifier Unit Unit Unit Unit Unit Unit Unit Unit	Result Qualifier Added Added Result Qualifier Unit Unit Unit D %Rec Limits <0.00200 U

MS MS

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

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 49216

Matrix: Solid

Lab Sample ID: 890-4305-A-1-F MSD

Analysis Batch: 49289

-	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	0.09784		mg/Kg		97	70 - 130	10	35
Toluene	<0.00200	U	0.100	0.09820		mg/Kg		98	70 - 130	9	35
Ethylbenzene	<0.00200	U	0.100	0.08628		mg/Kg		86	70 - 130	8	35
m-Xylene & p-Xylene	<0.00399	U	0.201	0.1710		mg/Kg		85	70 - 130	8	35
o-Xylene	<0.00200	U	0.100	0.08590		mg/Kg		86	70 - 130	8	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	110		70 - 130

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

Lab Sample ID: MB 880-48883/1-A

Matrix: Solid

Analysis Batch: 48946

Client	Sample	ID: Met	thod	Blank
	_	_	_	

Prep Type: Total/NA

Prep Batch: 48883

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/18/23 09:47	03/20/23 08:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/18/23 09:47	03/20/23 08:39	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/18/23 09:47	03/20/23 08:39	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	134	S1+	70 - 130	03/18/23 09:47	03/20/23 08:39	1
o-Terphenyl	160	S1+	70 - 130	03/18/23 09:47	03/20/23 08:39	1

Lab Sample ID: LCS 880-48883/2-A

Matrix: Solid

Analysis Batch: 48946

Client Sample	ID:	Lab	Control	Sample
		Dro	n Tuno:	Total/NIA

Prep Type: Total/NA Prep Batch: 48883

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	985.4		mg/Kg		99	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	936.6		mg/Kg		94	70 - 130	
C10-C28)								

Job ID: 890-4306-1 Client: Ensolum Project/Site: Ross Draw Unit #034 SDG: 03A1987018

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

LCS LCS

Lab Sample ID: LCS 880-48883/2-A

Matrix: Solid

Analysis Batch: 48946

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 48883

Surrogate

%Recovery Qualifier Limits 1-Chlorooctane 117 70 - 130 o-Terphenyl 140 S1+ 70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 48883

Lab Sample ID: LCSD 880-48883/3-A **Matrix: Solid**

Analysis Batch: 48946

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	1000	1106		mg/Kg		111	70 - 130	12	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	1038		mg/Kg		104	70 - 130	10	20	

C10-C28)

LCSD LCSD Surrogate %Recovery Qualifier Limits 131 S1+ 70 - 130 1-Chlorooctane 156 S1+ 70 - 130 o-Terphenyl

Lab Sample ID: 880-25948-A-1-B MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 48946

Prep Type: Total/NA Prep Batch: 48883

Sample Sample MS MS Spike Added Analyte Result Qualifier Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.9 U 998 847.2 mg/Kg 83 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 998 903.5 mg/Kg 88 70 - 130

C10-C28)

MS MS %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 89 o-Terphenyl 91 70 - 130

Lab Sample ID: 880-25948-A-1-C MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 48946

Sample Sample MSD MSD RPD Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit Gasoline Range Organics U 999 826.2 80 <49.9 70 - 130 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 999 897.5 mg/Kg 88 70 - 130 20

C10-C28)

MSD MSD Qualifier Surrogate %Recovery Limits 1-Chlorooctane 87 70 - 130 90 70 - 130 o-Terphenyl

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Prep Batch: 48883

Client: Ensolum Job ID: 890-4306-1 Project/Site: Ross Draw Unit #034

SDG: 03A1987018

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-48964/1-A

Matrix: Solid

Analysis Batch: 49308

Client Sample ID: Method Blank **Prep Type: Soluble**

мв мв MDL Unit Dil Fac Analyte Result Qualifier RL D Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 03/22/23 18:22

Lab Sample ID: LCS 880-48964/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 49308

Spike LCS LCS %Rec Added %Rec Analyte Result Qualifier Unit D Limits Chloride 250 250.8 mg/Kg 100 90 - 110

Lab Sample ID: LCSD 880-48964/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble** Analysis Batch: 49308

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 250 245.5 mg/Kg 90 - 110

Lab Sample ID: 890-4306-1 MS **Client Sample ID: FS01 Matrix: Solid Prep Type: Soluble**

Analysis Batch: 49308

Spike MS MS Sample Sample %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 557 252 807.1 90 - 110 mg/Kg

Lab Sample ID: 890-4306-1 MSD

Matrix: Solid

Analysis Batch: 49308

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 252 557 805.9 mg/Kg 99 90 - 110 0 20

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Client Sample ID: FS01 **Prep Type: Soluble**

QC Association Summary

Client: Ensolum

Project/Site: Ross Draw Unit #034

Job ID: 890-4306-1

SDG: 03A1987018

GC VOA

Prep Batch: 49216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4306-1	FS01	Total/NA	Solid	5035	
890-4306-2	FS02	Total/NA	Solid	5035	
890-4306-3	FS03	Total/NA	Solid	5035	
890-4306-4	FS04	Total/NA	Solid	5035	
890-4306-5	FS05	Total/NA	Solid	5035	
890-4306-6	FS06	Total/NA	Solid	5035	
MB 880-49216/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-49216/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-49216/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4305-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
890-4305-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 49289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4306-1	FS01	Total/NA	Solid	8021B	49216
890-4306-2	FS02	Total/NA	Solid	8021B	49216
890-4306-3	FS03	Total/NA	Solid	8021B	49216
890-4306-4	FS04	Total/NA	Solid	8021B	49216
890-4306-5	FS05	Total/NA	Solid	8021B	49216
890-4306-6	FS06	Total/NA	Solid	8021B	49216
MB 880-49216/5-A	Method Blank	Total/NA	Solid	8021B	49216
LCS 880-49216/1-A	Lab Control Sample	Total/NA	Solid	8021B	49216
LCSD 880-49216/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	49216
890-4305-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	49216
890-4305-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	49216

Analysis Batch: 49370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4306-1	FS01	Total/NA	Solid	Total BTEX	
890-4306-2	FS02	Total/NA	Solid	Total BTEX	
890-4306-3	FS03	Total/NA	Solid	Total BTEX	
890-4306-4	FS04	Total/NA	Solid	Total BTEX	
890-4306-5	FS05	Total/NA	Solid	Total BTEX	
890-4306-6	FS06	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 48883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4306-1	FS01	Total/NA	Solid	8015NM Prep	
890-4306-2	FS02	Total/NA	Solid	8015NM Prep	
890-4306-3	FS03	Total/NA	Solid	8015NM Prep	
890-4306-4	FS04	Total/NA	Solid	8015NM Prep	
890-4306-5	FS05	Total/NA	Solid	8015NM Prep	
890-4306-6	FS06	Total/NA	Solid	8015NM Prep	
MB 880-48883/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-48883/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-48883/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-25948-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-25948-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Ensolum Job ID: 890-4306-1 Project/Site: Ross Draw Unit #034 SDG: 03A1987018

GC Semi VOA

Analysis Batch: 48946

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4306-1	FS01	Total/NA	Solid	8015B NM	48883
890-4306-2	FS02	Total/NA	Solid	8015B NM	48883
890-4306-3	FS03	Total/NA	Solid	8015B NM	48883
890-4306-4	FS04	Total/NA	Solid	8015B NM	48883
890-4306-5	FS05	Total/NA	Solid	8015B NM	48883
890-4306-6	FS06	Total/NA	Solid	8015B NM	48883
MB 880-48883/1-A	Method Blank	Total/NA	Solid	8015B NM	48883
LCS 880-48883/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	48883
LCSD 880-48883/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	48883
880-25948-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	48883
880-25948-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	48883

Analysis Batch: 49233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4306-1	FS01	Total/NA	Solid	8015 NM	
890-4306-2	FS02	Total/NA	Solid	8015 NM	
890-4306-3	FS03	Total/NA	Solid	8015 NM	
890-4306-4	FS04	Total/NA	Solid	8015 NM	
890-4306-5	FS05	Total/NA	Solid	8015 NM	
890-4306-6	FS06	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 48964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4306-1	FS01	Soluble	Solid	DI Leach	
890-4306-2	FS02	Soluble	Solid	DI Leach	
890-4306-3	FS03	Soluble	Solid	DI Leach	
890-4306-4	FS04	Soluble	Solid	DI Leach	
890-4306-5	FS05	Soluble	Solid	DI Leach	
890-4306-6	FS06	Soluble	Solid	DI Leach	
MB 880-48964/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-48964/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-48964/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4306-1 MS	FS01	Soluble	Solid	DI Leach	
890-4306-1 MSD	FS01	Soluble	Solid	DI Leach	

Analysis Batch: 49308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4306-1	FS01	Soluble	Solid	300.0	48964
890-4306-2	FS02	Soluble	Solid	300.0	48964
890-4306-3	FS03	Soluble	Solid	300.0	48964
890-4306-4	FS04	Soluble	Solid	300.0	48964
890-4306-5	FS05	Soluble	Solid	300.0	48964
890-4306-6	FS06	Soluble	Solid	300.0	48964
MB 880-48964/1-A	Method Blank	Soluble	Solid	300.0	48964
LCS 880-48964/2-A	Lab Control Sample	Soluble	Solid	300.0	48964
LCSD 880-48964/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	48964
890-4306-1 MS	FS01	Soluble	Solid	300.0	48964
890-4306-1 MSD	FS01	Soluble	Solid	300.0	48964

Client: Ensolum Project/Site: Ross Draw Unit #034 Job ID: 890-4306-1 SDG: 03A1987018

Lab Sample ID: 890-4306-1

Matrix: Solid

Client Sample ID: FS01 Date Collected: 03/13/23 15:30

Date Received: 03/14/23 09:14

	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	49216	03/22/23 13:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49289	03/23/23 14:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49370	03/24/23 08:51	MNR	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	48883	03/18/23 09:47	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48946	03/20/23 17:39	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	48964	03/20/23 10:51	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49308	03/22/23 18:36	SMC	EET MID

Client Sample ID: FS02 Lab Sample ID: 890-4306-2 Matrix: Solid

Date Collected: 03/13/23 16:00 Date Received: 03/14/23 09:14

	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	49216	03/22/23 13:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49289	03/23/23 14:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49370	03/24/23 08:51	MNR	EET MID
Total/NA	Analysis	8015 NM		1			49233	03/22/23 16:11	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48883	03/18/23 09:47	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48946	03/20/23 18:00	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	48964	03/20/23 10:51	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	49308	03/22/23 18:51	SMC	EET MID

Client Sample ID: FS03 Lab Sample ID: 890-4306-3 Date Collected: 03/13/23 18:05 **Matrix: Solid**

Date Received: 03/14/23 09:14

	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	49216	03/22/23 13:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49289	03/23/23 14:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49370	03/24/23 08:51	MNR	EET MID
Total/NA	Analysis	8015 NM		1			49233	03/22/23 16:11	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48883	03/18/23 09:47	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48946	03/20/23 18:22	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	48964	03/20/23 10:51	KS	EET MIC
Soluble	Analysis	300.0		1	50 mL	50 mL	49308	03/22/23 18:56	SMC	EET MID

Client Sample ID: FS04 Lab Sample ID: 890-4306-4

Date Collected: 03/13/23 18:10 Date Received: 03/14/23 09:14

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	49216	03/22/23 13:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49289	03/23/23 15:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49370	03/24/23 08:51	MNR	EET MID

Eurofins Carlsbad

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Matrix: Solid

Client: Ensolum Job ID: 890-4306-1 Project/Site: Ross Draw Unit #034 SDG: 03A1987018

Lab Sample ID: 890-4306-4

Matrix: Solid

Matrix: Solid

Client Sample ID: FS04 Date Collected: 03/13/23 18:10 Date Received: 03/14/23 09:14

	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			49233	03/22/23 16:11	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48883	03/18/23 09:47	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48946	03/20/23 18:43	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	48964	03/20/23 10:51	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	49308	03/22/23 19:01	SMC	EET MID

Client Sample ID: FS05 Lab Sample ID: 890-4306-5

Date Collected: 03/13/23 18:20 **Matrix: Solid**

Date Received: 03/14/23 09:14

	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	49216	03/22/23 13:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49289	03/23/23 15:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49370	03/24/23 08:51	MNR	EET MID
Total/NA	Analysis	8015 NM		1			49233	03/22/23 16:11	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48883	03/18/23 09:47	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48946	03/20/23 19:04	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	48964	03/20/23 10:51	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49308	03/22/23 19:06	SMC	EET MID

Client Sample ID: FS06 Lab Sample ID: 890-4306-6

Date Collected: 03/13/23 18:30 Date Received: 03/14/23 09:14

	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	49216	03/22/23 13:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49289	03/23/23 15:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49370	03/24/23 08:51	MNR	EET MID
Total/NA	Analysis	8015 NM		1			49233	03/22/23 16:11	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48883	03/18/23 09:47	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48946	03/20/23 19:25	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	48964	03/20/23 10:51	KS	EET MIC
Soluble	Analysis	300.0		1	50 mL	50 mL	49308	03/22/23 19:20	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: 890-4306-1
Project/Site: Ross Draw Unit #034 SDG: 03A1987018

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	NE	ELAP	T104704400-22-25	06-30-23	
The following analytes	are included in this report, bu	it the laboratory is not certific	ed by the governing authority. This list ma	av include analytes for w	
the agency does not of	fer certification.	,,	ou by the generaling during, the notine	ay molado analytoo for w	
the agency does not of Analysis Method	fer certification. Prep Method	Matrix	Analyte	ay molade analytee for the	
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Method Summary

Client: Ensolum Job ID: 890-4306-1
Project/Site: Ross Draw Unit #034 SDG: 03A1987018

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

Eurofins Carlsbad

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Sample Summary

Client: Ensolum

Project/Site: Ross Draw Unit #034

Job ID: 890-4306-1

SDG: 03A1987018

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Davids
Lab Salliple ID	— — — — — — — — — — — — — — — — — — —	IVIALI IX	Conected	Received	Depth
890-4306-1	FS01	Solid	03/13/23 15:30	03/14/23 09:14	4
890-4306-2	FS02	Solid	03/13/23 16:00	03/14/23 09:14	4
890-4306-3	FS03	Solid	03/13/23 18:05	03/14/23 09:14	4
890-4306-4	FS04	Solid	03/13/23 18:10	03/14/23 09:14	4
890-4306-5	FS05	Solid	03/13/23 18:20	03/14/23 09:14	4
890-4306-6	FS06	Solid	03/13/23 18:30	03/14/23 09:14	4

Chain of Custody

eurofins		Environ	Environment Testing Xenco	ting	EL Midia Ha	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	X (281) 432) 70 X (915) 5	240-420 4-5440, 85-344	San Anto	s, TX (21 nio, TX (sk, TX (8	4) 902-0 210) 509 26) 794-	300 -3334 1296				Wo	rk Or	Work Order No:	<u></u>					
					귱	Hobbs, NM (575) 392-7550. Carlsbad, NM (575) 988-3199	(575) 39	92-7550,	Carlsba	d, NM (5	75) 988-	3199				i s	ww.xe	www.xenco.com		Page_	-	of	1	of
Project Manager:	Gilbert Moreno				Bill to: (if different)	ent)	Jim Raley	aley									Worl	Orde	Work Order Comments	ments				
	Ensolum				Company Name:	me:	WPX							Progra	m: US	T/PST	PR	Bro	Program: UST/PST PRP Brownfields RRC	IS R	RC □	Supen	fund 🗆	RC ☐ Superfund ☐
	3122 National Parks HWY	arks HV	¥		Address:		5315	Buena	5315 Buena Vista Dr				<u> </u>	State of Project:	of Proje	ct:					ı]	
City, State ZIP:	Carlsbad, NM 88220	3220			City, State ZIP:	Φ.	Carls	bad, N	Carlsbad, NM 88220					Report	ing: Le	/el [Level	=	ST/US		RRP		el V	Reporting: Level II Level III L PST/UST TRRP Level IVL
	832-541-7719			Email:	Email: gmoreno@Ensolum.com, jim.raley@dvn.com	nsolun	n.com,	iim.ral	ey@dv	n.com			L	Deliverables: EDD	ables:	EDD		Ð	ADaPT 🗆		ther:			Other:
Project Name:	Ross Draw Unit #034	#034		Turn.	Turn Around						AN	ANALYSIS REQUEST	SREQ	JEST				-	H	Prese	ervativ	re Cod	es	Preservative Codes
97:	03A1987018			☑ Routine	Rush	Code				_		-			_	_	\vdash	\vdash	Non	None: NO		DI Wate	3r: H ₂ O	DI Water: H ₂ O
Project Location:	Eddy, NM			Due Date:	5 Day TAT														Coo	Cool: Cool		MeOH:	Me	MeOH: Me
	Gilbert Moreno			AT starts the	TAT starts the day received by	Ý,													E C	HCL: HC		HNO3:	Z	HNO ₃ : HN
CC #:	1061093901		>	the lab, if rece	the lab, if received by 4:30pm						_						-	-	H ₂ U	H ₂ SU ₄ : H ₂		NaOH	a	NaOH: Na
SAMPLE RECEIPT	PT Temp Blank:		No No	Wet Ice:	Yes No	mete).0)												H ₃ P	H ₃ PO ₄ : HP				
Samples Received Intact:	act: (es)	N N	Thermometer ID:	ID:	2m00	Para	A: 30												Na ₂	Na ₂ S ₂ O ₃ : NaSO ₃	laSO ₃			VaSO ₃
Sample Custody Seals:	Yes	<u>~</u>	Temperature Reading:	Reading:	- 0	_1	(EF				χ <u>=</u>	800.4306	Chain I	Chain of Clistody					Zn /	\cetate	+NaOF	ł: Zn		Zn Acetate+NaOH: Zn
Total Containers:			Corrected Temperature:	nperature:	Z 10		IDE	015)	8021		- 1								NaC)H+Asc	orbic A	\cid: SA	R	NaOH+Ascorbic Acid: SAPC
Sample identification		Matrix	Date Sampled	Time Sampled	Depth Grab/	b/ # of np Cont	CHLOR	TPH (8	BTEX (Samı	ple Cc	mmen	क्रि	Sample Comments
FS01		S	3.13.23	15:30	4' Comp	np 1	×	×	×	_	-	\vdash				-	+	-						
FS02	2	S	3.13.23	16:00	4' Comp	np 1	×	×	×	-	-					-	-	-	+					
FS03	3	S	3.13.23	18:05	4' Comp	np 1	×	×	×	-	-					-	-	+			ncide	nt lo		Incident ID
FS04	4	S	3.13.23	18:10	4' Comp	ng 1	×	×	×	_	-					+	-	┝	+	N.	B1528	24022	12	NAB1528240224
FS05	6	S	3.13.23	18:20	4' Comp	np 1	×	×	×		-					-	-	+	+					
FS06	0,	S	3.13.23	18:30	4' Comp	1	×	×	×		+	+				+	+	-	+					
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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 \$6 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	locument and relinqui o will be liable only fo imum charge of \$85.0	shment of r the cost 0 will be a	samples const of samples and pplied to each p	itutes a valid p shall not assu roject and a ch	urchase order f me any respons narge of \$6 for e	rom clien sibility for ach samp	t compar rany loss ple subm	ny to Eur ses or ex itted to E	ofins Xen penses in urofins X	co, its aff curred by enco, but	iliates an the clies not anal	subcon It if such zed. The	tractors. losses ar se terms	It assign e due to will be er	s standa circumst	rd terms ances be inless pr	s and co eyond the eviously	nditions e contro negotia	ed.					
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Revised Date: 08/25/2020 Rev. 2020.2

3/24/2023

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4306-1 SDG Number: 03A1987018

Login Number: 4306 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: 890-4306-1

SDG Number: 03A1987018

Login Number: 4306
List Source: Eurofins Midland
List Number: 2
List Creation: 03/15/23 11:19 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	

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APPENDIX D

Email Correspondence

Erick Herrera

From: Enviro, OCD, EMNRD < OCD.Enviro@emnrd.nm.gov>

Sent: Wednesday, March 8, 2023 5:06 PM

To: Erick Herrera

Cc: Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD

Subject: RE: [EXTERNAL] WPX Site Sampling Activity Update (3/13 - 3/17/2023)

[**EXTERNAL EMAIL**]

Erick,

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JH

Jocelyn Harimon • Environmental Specialist

Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | <u>Jocelyn.Harimon@emnrd.nm.gov</u>

http://www.emnrd.nm.gov



From: Erick Herrera <eherrera@ensolum.com> Sent: Wednesday, March 8, 2023 3:53 PM

To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; 'CFO Spill, BLM NM' <bl >blm nm cfo spill@blm.gov>

Cc: Raley, Jim <jim.raley@dvn.com>; Devon Team <Devon-Team@ensolum.com> **Subject:** [EXTERNAL] WPX Site Sampling Activity Update (3/13 - 3/17/2023)

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

Good afternoon.

WPX anticipates conducting confirmation soil sampling activities at the following site between March 13 – March 17, 2023:

Site Name: Ross Draw Unit #034

API: 30-015-41578

Incident Number: NAB1528240224

Thank you,

Erick Herrera

From: Raley, Jim < Jim.Raley@dvn.com>
Sent: Thursday, March 23, 2023 12:48 PM

To: OCDOnline@state.nm.us

Cc: Devon Team

Subject: RDU 34 Extension Request -- NAB1528240224

[**EXTERNAL EMAIL**]

WPX Energy Permian, LLC (WPX) is requesting an extension to the current deadline for a closure report required in 19.15.29.12.B.(1) NMAC at the Ross Draw Unit #034.

A produced water release was discovered on October 6, 2015 and assigned Incident Number NAB1528240224. A remediation work plan (RWP) to address this release was approved by the New Mexico Oil Conservation Division on December 29, 2022. WPX conducted remediation efforts following an approved sundry request to access off pad areas impacted by the subject release. Remediation activities are complete pending laboratory analytical results.

To provide enough time for review of confirmation soil results and to complete a closure report, WPX requests an extension of the deadline to **June 27, 2023.**

Jim Raley | Environmental Professional - Permian Basin 5315 Buena Vista Dr., Carlsbad, NM 88220 C: (575)689-7597 | jim.raley@dvn.com



Confidentiality Warning: This message and any attachments are intended only for the use of the intended recipient(s), are confidential, and may be privileged. If you are not the intended recipient, you are hereby notified that any review, retransmission, conversion to hard copy, copying, circulation or other use of all or any portion of this message and any attachments is strictly prohibited. If you are not the intended recipient, please notify the sender immediately by return e-mail, and delete this message and any attachments from your system.

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

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

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

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

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

CONDITIONS

Action 231344

CONDITIONS

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory Oklahoma City, OK 73102	Action Number: 231344
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created I	By Condition	Condition Date
rhamle	We have received your closure report and final C-141 for Incident #NAB1528240224 ROSS DRAW UNIT 34, thank you. This closure is approved.	11/29/2023