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	NAPP2306936047
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible	Party XTO) Energy		OGRID 5	OGRID 5380			
Contact Nam	ne Garrett Gi	reen		Contact Te	Contact Telephone 575-200-0729			
Contact ema	Contact email garrett.green@exxonmobil.com Incid							
		3104 E. Greene St		w Mexico, 88220				
			Location	of Release So	ource			
Latitude 32	.18238			Longitude	-103.68200			
			(NAD 83 in dec	imal degrees to 5 decim	nal places)			
Site Name Ou	utrider Fed 2	28 Pad B		Site Type	Well Pad			
Date Release				API# (if app				
		_				-		
Unit Letter	Section	Township	Range	Coun	ty	-		
N	N 28 24S 32E				Lea			
Surface Owne	Materia		Nature and	l Volume of I	justification for the	volumes provided below)		
		Volume Release			Volume Reco	1.4.11.)		
× Produced	Water	Volume Release	28.86		Volume Recovered (bbls) 25.00			
			tion of total dissolves water >10,000 mg.	()	Yes N	0		
Condensa	ite	Volume Release			Volume Recovered (bbls)			
☐ Natural C	ias	Volume Release	d (Mcf)		Volume Recovered (Mcf)			
Other (describe) Volume/Weight Released (provide unit				units)	Volume/Weight Recovered (provide units)			
Cause of Rel	During			ement allowed fluid remediation purpos		pad. All free fluids were recovered. A		

-Dn	000	<i>6</i> 7	n#	100
Pa	20		an	1000
	0-	_		,,

Incident ID	NAPP2306936047
District RP	
Facility ID	
Application ID	

(4)		
Was this a major	If YES, for what reason(s) does the respon	nsible party consider this a major release?
release as defined by 19.15.29.7(A) NMAC?	A release equal to or greater than 25 barre	ls.
19.13.29.7(A) NIVIAC!		
Yes No		
If YES, was immediate n	otice given to the OCD? By whom? To wh	nom? When and by what means (phone, email, etc)?
Yes, by Melanie Collins t	o ocd.enviro@emnrd.nm.gov, Bratcher, Mic	chael mike.bratcher@emnrd.nm.gov, Hamlet, Robert,
Robert.Hamlet@emnrd.ni	m.gov, Harimon, Jocelyn, Jocelyn.Harimon	@emnrd.nm.gov on 02/27/2023 via email.
	Initial Ro	esponse
The responsible	party must undertake the following actions immediatel	y unless they could create a safety hazard that would result in injury
➤ The source of the rele	ease has been stopped.	
The impacted area ha	as been secured to protect human health and	the environment.
	<u>-</u>	likes, absorbent pads, or other containment devices.
l	ecoverable materials have been removed an	· · · · · · · · · · · · · · · · · · ·
	d above have <u>not</u> been undertaken, explain	· · · · · · · · · · · · · · · · · · ·
NA	d above have <u>not</u> been undertaken, explain	wily.
INA		
		emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred
		please attach all information needed for closure evaluation.
I hereby certify that the info	armation 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 noti	fications and perform corrective actions for releases which may endanger
		OCD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In
		responsibility for compliance with any other federal, state, or local laws
and/or regulations.		
Printed Name: Garrett G	reen	Title: SSHE Coordinator
Signature:	Satt Dur	Date: 03/09/2023
	xonmobil.com	
email:		Telephone: 575-200-0729
OCD Only		
_	1 . 11 . 1	22/12/222
Received by:	celyn Harimon	Date:03/10/2023

	Page 3 of 8	87
Incident ID	NAPP2306936047	
District RP		
Facility ID		
Application ID		

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	>100 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ⊠ No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vercontamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	rtical extents of soil
Characterization Report Checklist: Each of the following items must be included in the report.	
 \infty Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well in Field data 	ls.
Data table of soil contaminant concentration data	
Depth to water determination Determination of water assumes and significant waters surely within 1/2 mile of the letteral systems of the release.	
Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs	
Boring or excavation logs Photographs including date and GIS information	
☐ Topographic/Aerial maps	
☐ Laboratory data including chain of custody	

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

Received by OCD: 6/13/2023 10:32:21 AM
Form C-141 State of New Mexico
Page 5 Oil Conservation Division

	Page 4 of	87
Incident ID	NAPP2306936047	
District RP		

Facility ID
Application ID

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

Printed Name: _Garrett Green______ Title: _SSHE Coordinator_____

Signature: _____ Date: _____6/13/2023_____

email: _garrett.green@exxonmobil.com_____ Telephone: ____575-200-0729______

OCD Only

Received by: ____ Jocelyn Harimon _____ Date: ____6/13/2023______

State of New Mexico Incident ID NAP

	Page 5 of	<i>87</i>
Incident ID	NAPP2306936047	
District RP		
Facility ID		
Application ID		

Closure

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

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

□ A scaled site and sampling diagram as described in 19.15.29.11 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	
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. 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: _Garrett Green Title: _SSHE Coordinator	
Signature: Date:6/13/2023	
email:garrett.green@exxonmobil.com Telephone:575-200-0729	
OCD Only	
Received by: Date: Date: Date:	
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and 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: Nelson Velez Printed Name: Nelson Velez Date: 09/13/2023 Title: Environmental Specialist -Adv	
Printed Name: Nelson Velez Title:Environmental Specialist -Adv	



June 13, 2023

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

Re: Closure Request
Outrider Fed 28 Pad B
Incident Number NAPP2306936047
Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared this *Closure Request* to document assessment and soil sampling activities at the Outrider Fed 28 Pad B (Site). The purpose of the Site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following a release of produced water at the Site. Based on Site assessment activities and soil sample laboratory analytical results, XTO is submitting this *Closure Request*, describing remediation activities that have occurred and requesting no further action for Incident Number NAPP2306936047.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit N, Section 28, Township 24 South, Range 32 East, in Lea County, New Mexico (32.18238°, -103.68200°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On February 24, 2023, a valve was improperly installed during hydraulic fracturing (frac) operations causing approximately 25.36 barrels (bbls) of produced water to release onto the surface of the well pad. A vacuum truck was immediately dispatched and recovered approximately 25 bbls of produced water. XTO notified the New Mexico Oil Conservation Division (NMOCD) via email on February 27, 2023, and submitted a Release Notification Form C-141 (Form C-141) on March 9, 2023. The release was assigned Incident Number NAPP2306936047.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential Site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The nearest groundwater well is permitted by the New Mexico Office of the State Engineer (OSE file number C-4536) and is located approximately 0.48 miles east of the Site. The groundwater well was completed on June 10, 2021, and was drilled to a total depth of 500 feet bgs. The static groundwater level upon completion was 314 feet bgs. All wells used for depth to water determination are depicted on Figure 1 and the Well Record and Log for groundwater well C-4536 is included in Appendix A.

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 3122 National Park Highway | Carlsbad, NM 88220 | ensolum.com XTO Energy, Inc Closure Request Outrider Fed 28 Pad B

The closest continuously flowing or significant watercourse to the Site is a freshwater emergent wetland, located approximately 3,694 feet north of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area).

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

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

Chloride: 20,000 mg/kg

SITE ASSESSMENT ACTIVITIES

On May 11, 2023, Site assessment activities were conducted at the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Eight delineation soil samples (SS01 through SS08) were collected within and around the release extent at a depth of 0.5 feet bgs. Soil samples SS01 through SS04 were collected within the release extent to assess for the presence of absence of soil impacted soil. Soil samples SS05 through SS08 were collected around the release extent to confirm the lateral extent of the release. The delineation soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. The release extent and soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photo documentation was conducted during the Site visits and a photographic log is included in Appendix B.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of the following constituents of concern (COC): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0. Soil samples delivered to the laboratory the same day they were collected may not have equilibrated to 6 degrees Celcius required for shipment and long term storage, but are considered to have been received in acceptable condition by the laboratory.

Laboratory analytical results for delineation samples SS01 through SS08 indicated all COC concentrations were compliant with the Site Closure Criteria. Laboratory analytical results for delineation samples SS05 through SS08 provided lateral delineation of the release to the strictest Table I Closure Criteria. Additional vertical delineation activities were warranted within the release extent to further confirm the absence of impacted soil.

XTO Energy, Inc Closure Request Outrider Fed 28 Pad B

DELINEATION AND SURFACE SCRAPING ACTIVITIES

On May 19, 2023, Ensolum personnel returned to the Site to complete vertical delineation activities to confirm the absence of impacted soil. Four potholes (PH01 through PH04) were advanced by use of heavy equipment at the locations of delineation samples SS01 through SS04, respectively. Discrete delineation soil samples were collected from each pothole at depths ranging from 1-foot to 4 feet bgs. Field screening results and observations for the potholes were logged on lithologic/soil sampling logs and are included in Appendix C. The delineation soil samples were field screened, handled, and analyzed as described above. The soil sample locations are depicted on Figure 2. Following the delineation activities, surface scraping was completed via heavy equipment to address visible staining within the release extent. The soil removed from the surface scraping activities was transported and properly disposed of at the R360 Landfill Facility in Hobbs, New Mexico.

Laboratory analytical results for vertical delineation samples PH01 through PH04 indicated all COC concentrations were compliant with the Site Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix D.

CLOSURE REQUEST

Site assessment and delineation activities were conducted at the Site to assess for the presence or absence of impacted soil resulting from the February 24, 2023 release of produced water. Laboratory analytical results for the delineation soil samples indicated all COC concentrations were in compliance with the Site Closure Criteria. Additionally, the release has been laterally defined to the strictest Table I Closure Criteria by soil samples SS05 through SS08. Surface scraping activities were completed to remove surficial staining within the release extent in the areas of soil samples SS01 through SS04, where elevated chloride concentrations were identified.

Depth to groundwater has been estimated to be greater than 100 feet bgs and no other sensitive receptors were identified near the release extent. Based on laboratory analytical results compliant with the Site Closure Criteria, no further remediation is required. As such, XTO respectfully requests closure for Incident Number NAPP2306936047.

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

Sincerely, Ensolum, LLC

Mariaha O'Dell

Mariaha D. O'Dell Associate Geologist

CC: Shelby Pennington, XTO

BLM

Garrett Green, XTO

Appendices:

Ashley L. Ager, MS, PG Principal

ashley L. ager

Page 3



XTO Energy, Inc Closure Request Outrider Fed 28 Pad B

Figure 1 Site Receptor Map

Figure 2 Delineation Soil Sample Locations
Table 1 Soil Sample Analytical Results
Appendix A Referenced Well Records

Appendix B Photographic Log

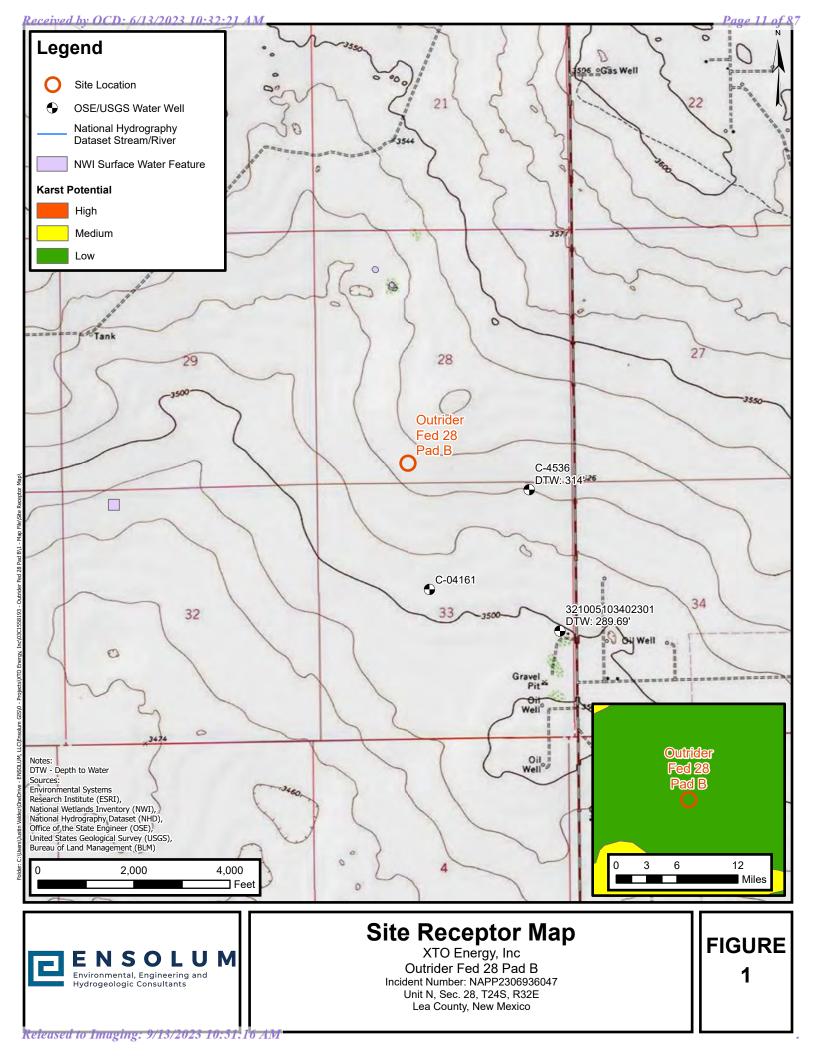
Appendix C Lithology Soil Sampling Logs

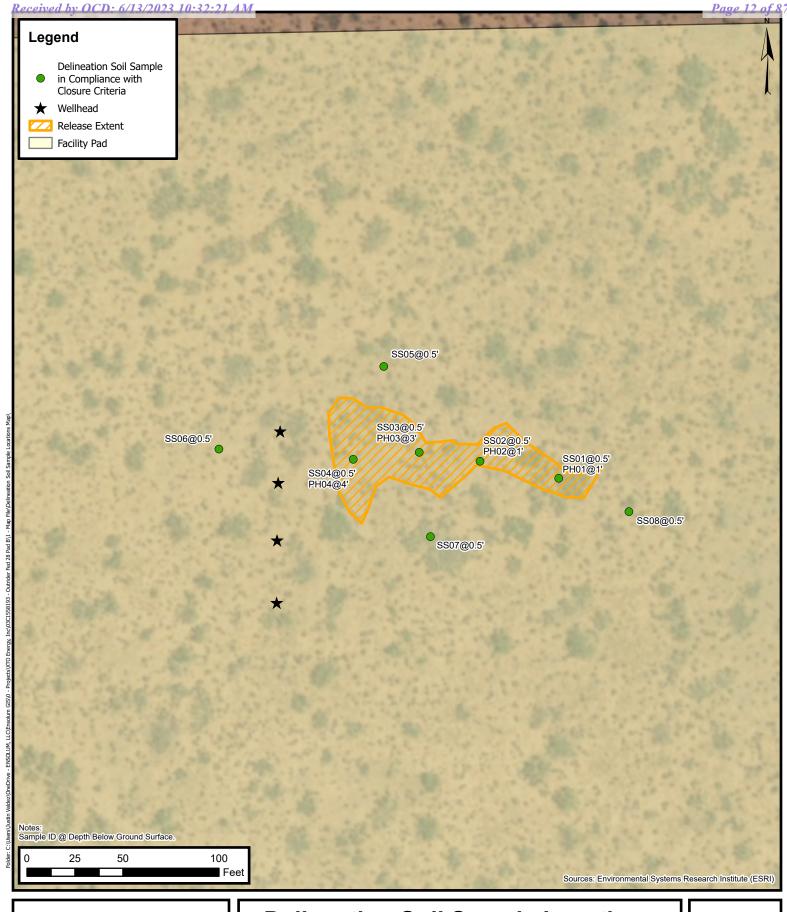
Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation

Appendix E NMOCD Notifications



FIGURES







Delineation Soil Sample Locations

XTO Energy, Inc Outrider Fed 28 Pad B Incident Number: NAPP2306936047 Unit N, Sec. 28, T24S, R32E Lea County, New Mexico FIGURE 2



TABLES

Page 14 of 87



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Outrider Fed 28 Pad B XTO Energy, Inc Lea County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I CI	osure Criteria (I	NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
				Delir	neation Soil Sa	mples				
SS01	05/11/2023	0.5	<0.00199	<0.00398	55.1	<50.0	<50.0	55.1	55.1	9,330
PH01	05/19/2023	1	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	220
SS02	05/11/2023	0.5	<0.00200	<0.00399	<49.8	220	<49.8	220	220	10,900
PH02	05/19/2023	1	< 0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	188
SS03	05/11/2023	0.5	<0.00198	< 0.00397	59.7	61.7	<50.0	121	121	18,500
PH03	05/19/2023	3	< 0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	124
SS04	05/11/2023	0.5	<0.00200	<0.00401	<49.9	103	<49.9	103	103	13,900
PH04	05/19/2023	4	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	1,350
SS05	05/11/2023	0.5	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	525
SS06	05/11/2023	0.5	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	556
SS07	05/11/2023	0.5	<0.00199	<0.00398	<49.9	50.5	<49.9	50.5	50.5	575
SS08	05/11/2023	0.5	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	592

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code

Ensolum 1 of 1



APPENDIX A

Referenced Well Records

PAGE 1 OF 2

WELL TAG ID NO.

OSE DTI JUL 9 2021 PM 1:52



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

GSE DII JUN 21 2021 PM10:14

	1912								/.		
	OSE POD NO	(WELL NO	.)	1	ELL TAG ID NO.			OSE FILE NO(S).		
S N	E1536-	109	> (20E37 C-4536			C-4536	V			
GENERAL AND WELL LOCATION	WELL OWN		ES RANCHES LLC					PHONE (OPTIONAL)			
LL	WELL OWN	ER MAILING	G ADDRESS					CITY	CITY STATE ZI		
WEL	3300 N A	STREET,	BLDG 1, STE 220					MIDLAND		TX	79705
AND	WELL		DE	GREES 32	MINUTES 10	SECONI 50.8					
ΔĽ,	LOCATIO	277	TITUDE				N N		'REQUIRED: ONE TEN' QUIRED: WGS 84	TH OF A SECOND	
NER	(FROM GI	ro	NGITUDE	103	40	25.9		<u> </u>			
1. GE	DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE										
	LICENSE NO	<u> </u>	NAME OF LICENSED	DDILLED					NAME OF WELL DR	H LING COMPANY	
<u> </u> -	WD1		TABLE OF BICEROES		yce Wallace				Į	Drillers Corporation	
	DRILLING STARTED DRILLING ENDED 06/09/21 06/10/21			DEPTH OF COMP	LETED WELL (F 500	T)		LE DEPTH (FT) 500	DEPTH WATER FIR	ST ENCOUNTERED (FT 314)
Z	COMPLETE	D WELL IS:	ARTESIAN	DRY HOLE	HOLE SHALLOW (UNCONFINED)			STATIC WATER LEVEL IN COMPLETED WELL (FT) 314			
ATIC	DRILLING F	LUID:	✓ AIR	MUD ADDITIVES - SPECIFY:							
RM	DRILLING METHOD: ROTARY			HAMMER CABLE TOOL OTHER - SPECIF			R - SPECIFY:				
INFC	DEPTH (feet bgl) BORE HOLE		CASING MATERIAL AND/OR		CA	ASING	CASING	CASING WALL	SLOT		
CASING INFORMATION	FROM TO DIAM (inches)		(include each casing string, and			CONN T	NECTION YPE	INSIDE DIAM. (inches)	THICKNESS (inches)	SIZE (inches)	
& C	0 20 12 3/4		STEEL				N/A	8.28	.337		
	0	300	7 7/8	SDR17 PVC			SF	LINE	4.3	SDR17	
2. DRILLING	300	500	7 7/8	SD	SDR17 PVC		SF	LINE	4.3	SDR17	.032
. DR											ļ
7											-
											-
	DEPTH	(feet bgl)	BORE HOLE		ANNULAR SI				AMOUNT	метно	
IVR	FROM	то	DIAM. (inches)	GRAVE	L PACK SIZE		BY INTE	RVAL (cubic feet)		PLACE	
TER	0	20	12 3/4			MENT		10		TOPI	
MA	0	20	7 7/8			MENT	<u> </u>		6 TOP		
LAR	300	500	7 7/8		8/16 SIL	ICA SAN	υ ·····		46	TOPI	LIPP
ANNULAR MATERIAL			-					<u>:</u>			
3. AN			-		· · · · · · · · ·						
							 				
	000 7			l					<u> </u>		
FOR	OSE INTER	NAL USE			· 			WR-2	0 WELL RECORD	& LOG (Version 06/3	50/17)

OSE DII JUL 9 2021 PM1:53

05E DII JUN 21 2021 PM10:14

L DEF	PTH (feet bgl)	THICKNESS	COLOR AND TYPE OF MATERIAL ENCOUNTERED -	WATER	ESTIMATED YIELD FOR
FROI	м то	(feet)	INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONE (attach supplemental sheets to fully describe all units)	S BEARING? (YES / NO)	WATER- BEARING ZONES (gpm)
0	3	3	RED SAND	Y VN	
3	12	9	CALICHE	Y ✓N	
12	180	168	RED CLAY	Y ✓ N	
180	235	415	TAN SANDSTONE	Y ✓N	
235	480	245	TAN SANDSTONE & CLAY STRINGERS	✓ Y N	4.00
480	500	20	RED CLAY WITH SAND STRINGERS	Y √N	
480				Y N	
<u> </u>				Y N	
<u> </u>				Y N	
<u>}</u>				Y N	
į L				Y N	
ؤ				Y N	
				Y N	
				Y N	
[†]				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
METH	OD USED TO E	STIMATE YIELD	OF WATER-BEARING STRATA:	TOTAL ESTIMATED	
	PUMP []A	AIR LIFT	BAILER OTHER - SPECIFY:	WELL YIELD (gpm):	4.00
WELL			ACH A COPY OF DATA COLLECTED DURING WELL TESTING, INC ME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OV		
MISCE	LLANEOUS IN	FORMATION:			
PRINT	NAME(S) OF D	RILL RIG SUPER	VISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CON	STRUCTION OTHER TH	IAN LICENSEE
THE U	ECT RECORD C	F THE ABOVE D	IES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELI ESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL R 0 DAYS AFTER COMPLETION OF WELL DRILLING:	EF, THE FOREGOING IS ECORD WITH THE STA	A TRUE AND TE ENGINEER
THE U	ECT RECORD C	F THE ABOVE D	ESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL R	EF, THE FOREGOING IS ECORD WITH THE STA 06/16/2021	A TRUE AND TE ENGINEER
THE U	ECT RECORD OF THE PORMIT HO	of the above dollar within 2	ESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL R O DAYS AFTER COMPLETION OF WELL DRILLING:	ECORD WITH THE STA	A TRUE AND TE ENGINEER
THE U	ECT RECORD OF THE PORMIT HO	of the above dollar within 2	ESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL R 0 DAYS AFTER COMPLETION OF WELL DRILLING: Bryce Wallace R / PRINT SIGNEE NAME	ECORD WITH THE STA	TE ENGINEER



APPENDIX B

Photographic Log



Photographic Log
XTO Energy, Inc
Outrider Fed 28 Pad B
Incident Number NAPP2306936047





Photograph 1 Date: 05/11/2023 Description: Site assessment, release extent area.

View: South

Photograph 2 Date: 05/11/2023 Description: Site assessment, release extent area. View: West





Photograph 3 Date: 05/19/2023

Description: Delineation activities, PH01 through PH04

View: East

Photograph 4 Date: 05/19/2023

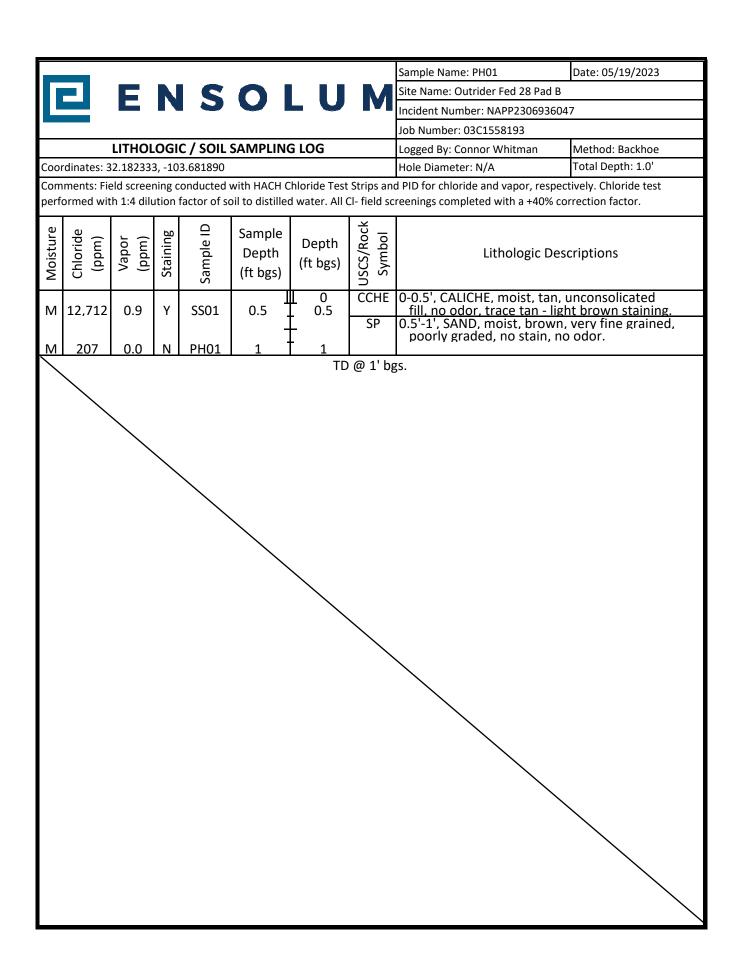
Description: Surface scraping activities

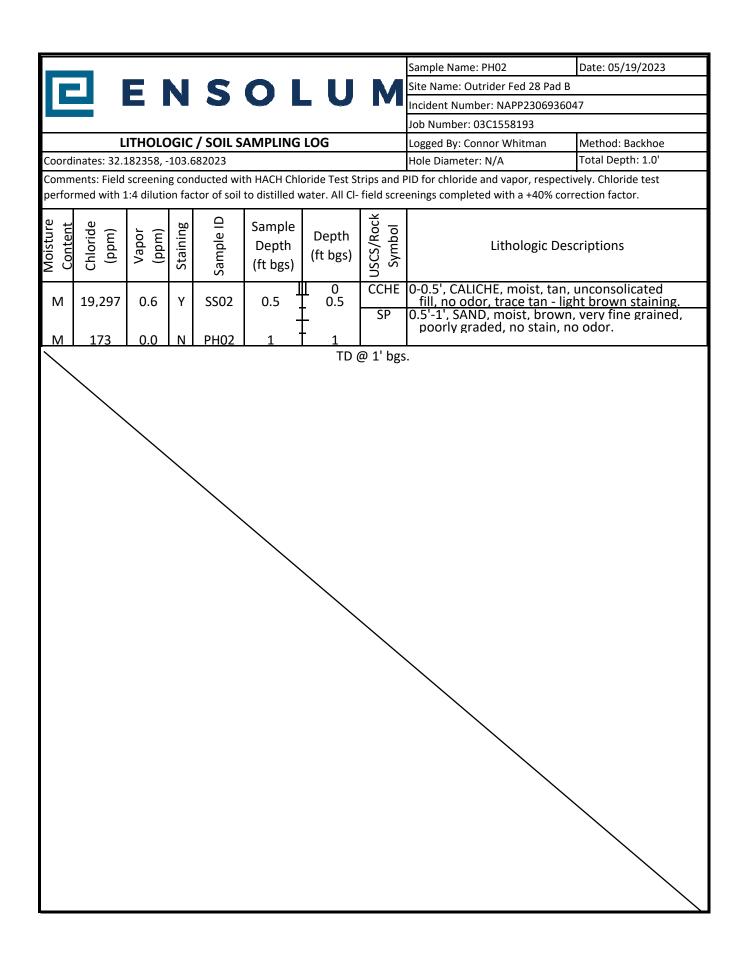
View: West

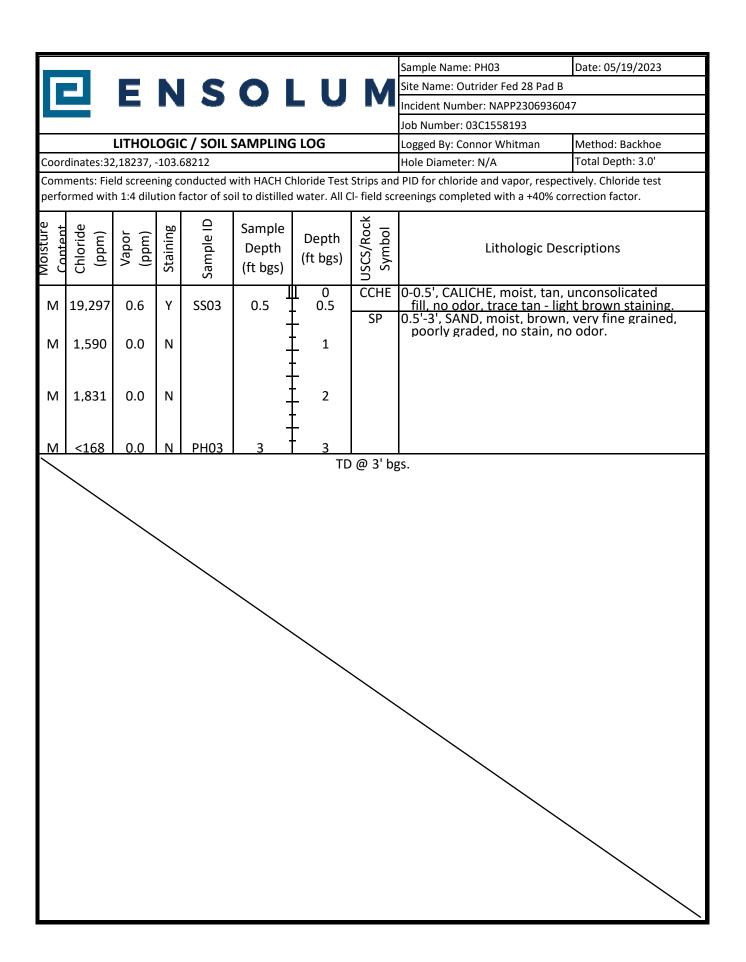


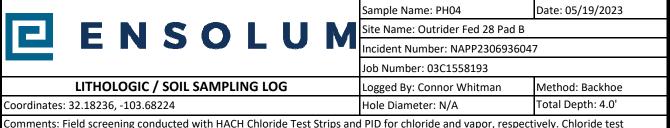
APPENDIX C

Lithologic Soil Sampling Logs









Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. All Cl- field screenings completed with a +40% correction factor.

Moisture	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
М	17,673	0.7	Υ	SS04	0.5	0 0.5	CCHE	0-0.5', CALICHE, moist, tan, unconsolicated fill, no odor, trace tan - light brown staining.
М	2,576	0.0	N		1	1	SP	0.5'-3', SAND, moist, brown, very fine grained, poorly graded, no stain, no odor.
IVI	2,370	0.0	IN		-	- ¹		
М	1,478	0.0	N		2	2		
					_	<u>-</u>		
M	2,100	0.0	N		3 _	3	SP	3-4', SAND, moist, brown, very fine grained, poorly graded, trace clay, no stain, no odor.
М	1,708	0.0	N	PH04	4	- - 4	CCHE	@4', CALICHE, moist, off white-tan, moderately consolidated, abundant fine grain sand.

TD @ 4' bgs.



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill

Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 5/18/2023 6:17:26 PM Revision 1

JOB DESCRIPTION

Outrider Fed 28 Pad B SDG NUMBER 03C1558193

JOB NUMBER

890-4651-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

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

Authorization

Generated 5/18/2023 6:17:26 PM Revision 1

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

3

Δ

5

6

9

10

12

13

14

Laboratory Job ID: 890-4651-1 Client: Ensolum Project/Site: Outrider Fed 28 Pad B SDG: 03C1558193

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	7
Surrogate Summary	14
QC Sample Results	15
QC Association Summary	21
Lab Chronicle	25
Certification Summary	28
Method Summary	29
Sample Summary	30
Chain of Custody	31
Receipt Checklists	32

Definitions/Glossary

Client: Ensolum Job ID: 890-4651-1 Project/Site: Outrider Fed 28 Pad B

SDG: 03C1558193

Qualifiers

GC VOA Qualifier

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

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

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**

F1 MS and/or MSD recovery exceeds control limits.

Н Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.

U Indicates the analyte was analyzed for but not detected.

Glossary

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

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

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

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

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

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

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

NC Not Calculated

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

Negative / Absent NEG POS Positive / Present

Practical Quantitation Limit POI

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)

Too Numerous To Count **TNTC**

Eurofins Carlsbad

Case Narrative

Client: Ensolum

Job ID: 890-4651-1 SDG: 03C1558193 Project/Site: Outrider Fed 28 Pad B

Job ID: 890-4651-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4651-1

REVISION

The report being provided is a revision of the original report sent on 5/17/2023. The report (revision 1) is being revised due to Revised report to re-run sample for verification per client request..

Receipt

The samples were received on 5/11/2023 3:10 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 9.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS01 (890-4651-1), SS02 (890-4651-2), SS03 (890-4651-3), SS04 (890-4651-4), SS05 (890-4651-5), SS06 (890-4651-6), SS07 (890-4651-7) and SS08 (890-4651-8).

GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-53453 recovered above the upper control limit for Toluene and m-Xylene & p-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-53453 recovered above the upper control limit for m-Xylene & p-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8021B: Surrogate recovery for the following samples were outside control limits: SS01 (890-4651-1), SS02 (890-4651-2), SS03 (890-4651-3), SS04 (890-4651-4), SS05 (890-4651-5), SS06 (890-4651-6), SS07 (890-4651-7), SS08 (890-4651-8), (890-4651-A-1-G MS) and (890-4651-A-1-H MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-53495 and analytical batch 880-53453 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch laboratory control sample duplicate and matrix spike duplicate (LCSD/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-53495 and analytical batch 880-53453 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCSD) recovery was within acceptance limits.

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

GC Semi VOA

Method 8015MOD NM: The surrogate recovery for the blank associated with preparation batch 880-53379 and analytical batch 880-53324 was outside the upper control limits.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: SS03 (890-4651-3) and SS04 (890-4651-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

Method 300 ORGFM 28D: Samples ran within hold. SS05 (890-4651-5), SS06 (890-4651-6), SS07 (890-4651-7) and SS08 (890-4651-8)

Eurofins Carlsbad 5/18/2023 (Rev. 1)

Case Narrative

Client: Ensolum

Project/Site: Outrider Fed 28 Pad B SD

Job ID: 890-4651-1 SDG: 03C1558193

Job ID: 890-4651-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-53260 and 880-53260 and analytical batch 880-53531 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-53361 and analytical batch 880-53529 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300_ORGFM_28D: Samples ran within hold. SS01 (890-4651-1), SS02 (890-4651-2), SS03 (890-4651-3) and SS04 (890-4651-4)

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

4

5

6

0

9

10

11

13

114

Matrix: Solid

Lab Sample ID: 890-4651-1

05/15/23 12:47 05/15/23 16:32

Client: Ensolum Job ID: 890-4651-1
Project/Site: Outrider Fed 28 Pad B SDG: 03C1558193

Client Sample ID: SS01

Date Collected: 05/11/23 07:20 Date Received: 05/11/23 15:10

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/16/23 15:10	05/17/23 01:27	1
Toluene	< 0.00199	U F1 *+	0.00199	mg/Kg		05/16/23 15:10	05/17/23 01:27	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		05/16/23 15:10	05/17/23 01:27	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398	mg/Kg		05/16/23 15:10	05/17/23 01:27	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/16/23 15:10	05/17/23 01:27	1
Xylenes, Total	<0.00398	U *+	0.00398	mg/Kg		05/16/23 15:10	05/17/23 01:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	157	S1+	70 - 130			05/16/23 15:10	05/17/23 01:27	1
1,4-Difluorobenzene (Surr)	82		70 - 130			05/16/23 15:10	05/17/23 01:27	1

	Method: TAL SOP Total BTEX	- Total BTE	X Calculati	ion					
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Total BTEX	<0.00398	U	0.00398	mg/Kg			05/17/23 15:53	1
ì									

Method: SW846 8015 NN	/I - Diesel Range Organics (D	RO) (GC)					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	55.1	50.0	mg/Kg			05/16/23 11:52	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	55.1		50.0	mg/Kg		05/15/23 12:47	05/15/23 16:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/15/23 12:47	05/15/23 16:32	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/15/23 12:47	05/15/23 16:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	129		70 - 130			05/15/23 12:47	05/15/23 16:32	1

Method: EPA 300.0 - Anions, I	on Chromatography - S	Soluble					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9330 H F1	250	ma/Ka			05/16/23 19:57	50

70 - 130

101

Client Sample ID: SS02

Date Collected: 05/11/23 07:25

Lab Sample ID: 890-4651-2

Matrix: Solid

Date Received: 05/11/23 15:10

Sample Depth: 0.5

o-Terphenyl

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/16/23 15:10	05/17/23 01:52	1
Toluene	<0.00200	U *+	0.00200	mg/Kg		05/16/23 15:10	05/17/23 01:52	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/16/23 15:10	05/17/23 01:52	1
m-Xylene & p-Xylene	<0.00399	U *+	0.00399	mg/Kg		05/16/23 15:10	05/17/23 01:52	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/16/23 15:10	05/17/23 01:52	1
Xylenes, Total	<0.00399	U *+	0.00399	mg/Kg		05/16/23 15:10	05/17/23 01:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	166	S1+	70 - 130			05/16/23 15:10	05/17/23 01:52	1

Eurofins Carlsbad

2

3

4

6

8

10

12

13

Job ID: 890-4651-1

Client: Ensolum Project/Site: Outrider Fed 28 Pad B SDG: 03C1558193

Client Sample ID: SS02 Lab Sample ID: 890-4651-2

Date Collected: 05/11/23 07:25 **Matrix: Solid** Date Received: 05/11/23 15:10

Sample Depth: 0.5

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

Surrogate	%Recovery Qualifi		Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	82	70 - 130	05/16/23 15:10	05/17/23 01:52	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00399	U	0.00399	mg/Kg			05/17/23 15:53	1

Analyte	Result Qualit	ier RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	220	49.8	mg/Kg			05/16/23 11:52	1

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

	Diocol italigo oi gainot	(=:(=)(==)					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8 U	49.8	mg/Kg		05/15/23 12:47	05/15/23 17:37	1
Diesel Range Organics (Over C10-C28)	220	49.8	mg/Kg		05/15/23 12:47	05/15/23 17:37	1
Oll Range Organics (Over C28-C36)	<49.8 U	49.8	mg/Kg		05/15/23 12:47	05/15/23 17:37	1
Surrogate	%Recovery Qualifier	l imits			Prenared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130	05/15/23 12:47	05/15/23 17:37	1
o-Terphenyl	96		70 - 130	05/15/23 12:47	05/15/23 17:37	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	Unit	D Prepa	ared Analyzed	Dil Fac
Chloride	10900 H	248	mg/Kg		05/16/23 20:13	50

Lab Sample ID: 890-4651-3 **Client Sample ID: SS03 Matrix: Solid**

Date Collected: 05/11/23 07:30 Date Received: 05/11/23 15:10

Sample Depth: 0.5

Mothod: SW946 9024B	Volatile Organ	aic Compounds	· /CC\

MICHIOG. SYVOTO OUZ ID - VO	nathe Organic	Compoun	us (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		05/16/23 15:10	05/17/23 02:18	1
Toluene	<0.00198	U *+	0.00198	mg/Kg		05/16/23 15:10	05/17/23 02:18	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		05/16/23 15:10	05/17/23 02:18	1
m-Xylene & p-Xylene	< 0.00397	U *+	0.00397	mg/Kg		05/16/23 15:10	05/17/23 02:18	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		05/16/23 15:10	05/17/23 02:18	1
Xylenes, Total	<0.00397	U *+	0.00397	mg/Kg		05/16/23 15:10	05/17/23 02:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	163	S1+	70 - 130			05/16/23 15:10	05/17/23 02:18	1
1 4-Difluorobenzene (Surr)	88		70 - 130			05/16/23 15:10	05/17/23 02:18	1

Method: TA	I SOP Total RTFX.	- Total RTFY	Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00397	U	0.00397	mg/Kg			05/17/23 15:53	1

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	121	50.0	mg/Kg			05/16/23 11:52	1

Eurofins Carlsbad

Client: Ensolum Job ID: 890-4651-1 Project/Site: Outrider Fed 28 Pad B SDG: 03C1558193

Da Date Received: 05/11/23 15:10

Sample Depth: 0.5

Client Sample ID: SS03	Lab Sample ID: 890-4651-3
Pate Collected: 05/11/23 07:30	Matrix: Solid

Method: SW846 8015B NM - E	Diesel Range	Organics	s (DRO) (GC)					
Analyte	_	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	59.7		50.0	mg/Kg		05/15/23 12:47	05/15/23 17:59	1
Diesel Range Organics (Over C10-C28)	61.7		50.0	mg/Kg		05/15/23 12:47	05/15/23 17:59	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/15/23 12:47	05/15/23 17:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	136	S1+	70 - 130			05/15/23 12:47	05/15/23 17:59	1
o-Terphenyl	106		70 - 130			05/15/23 12:47	05/15/23 17:59	1
Method: EPA 300.0 - Anions,	lon Chroma	tography ·	- Soluble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18500		250	mg/Kg			05/18/23 15:47	50

Lab Sample ID: 890-4651-4 **Client Sample ID: SS04** Date Collected: 05/11/23 07:35 **Matrix: Solid**

Date Received: 05/11/23 15:10

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/16/23 15:10	05/17/23 02:44	1
Toluene	<0.00200	U *+	0.00200	mg/Kg		05/16/23 15:10	05/17/23 02:44	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/16/23 15:10	05/17/23 02:44	1
m-Xylene & p-Xylene	< 0.00401	U *+	0.00401	mg/Kg		05/16/23 15:10	05/17/23 02:44	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/16/23 15:10	05/17/23 02:44	1
Xylenes, Total	<0.00401	U *+	0.00401	mg/Kg		05/16/23 15:10	05/17/23 02:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	178	S1+	70 - 130			05/16/23 15:10	05/17/23 02:44	1
1,4-Difluorobenzene (Surr)	91		70 - 130			05/16/23 15:10	05/17/23 02:44	1
Method: TAL SOP Total BTEX	- Total BTE	X Calculat	ion					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			05/17/23 15:53	1
- Method: SW846 8015 NM - Die								
IVICUIUU. 34V040 OU IS NIVI - DIE	esei Kande (Organics (DRO) (GC)					
Analyte		Organics (Qualifier	DRO) (GC) RL	Unit	D	Prepared	Analyzed	Dil Fac
				Unit mg/Kg	<u>D</u>	Prepared	Analyzed 05/16/23 11:52	Dil Fac
Analyte Total TPH	Result 103	Qualifier	RL 49.9		<u>D</u>	Prepared		
Analyte Total TPH Method: SW846 8015B NM - D	Result 103 Diesel Range	Qualifier	RL 49.9		<u>D</u>	Prepared Prepared		
Analyte	Result 103 Diesel Range	Qualifier Organics Qualifier	49.9 (DRO) (GC)	mg/Kg	_ =		05/16/23 11:52	1
Analyte Total TPH Method: SW846 8015B NM - D Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 103 Diesel Range Result	Qualifier Organics Qualifier	RL 49.9 (DRO) (GC) RL	mg/Kg Unit	_ =	Prepared	05/16/23 11:52 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - D Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result 103 Diesel Range Result <49.9	Qualifier Organics Qualifier U	RL 49.9 (DRO) (GC) RL 49.9	mg/Kg Unit mg/Kg	_ =	Prepared 05/15/23 12:47	05/16/23 11:52 Analyzed 05/15/23 18:20	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - D Analyte Gasoline Range Organics	Result 103 Diesel Range Result <49.9	Qualifier Organics Qualifier U	RL 49.9 (DRO) (GC) RL 49.9	mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 05/15/23 12:47 05/15/23 12:47	05/16/23 11:52 Analyzed 05/15/23 18:20 05/15/23 18:20	1 Dil Fac 1
Analyte Total TPH Method: SW846 8015B NM - D Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result 103 Diesel Range Result < 49.9 103 <49.9	Qualifier Organics Qualifier U Qualifier	RL 49.9 (DRO) (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 05/15/23 12:47 05/15/23 12:47 05/15/23 12:47	05/16/23 11:52 Analyzed 05/15/23 18:20 05/15/23 18:20 05/15/23 18:20	Dil Fac 1 1 1

Eurofins Carlsbad

5/18/2023 (Rev. 1)

Job ID: 890-4651-1

Client: Ensolum Project/Site: Outrider Fed 28 Pad B SDG: 03C1558193

Client Sample ID: SS04 Lab Sample ID: 890-4651-4 Date Collected: 05/11/23 07:35

Matrix: Solid

Date Received: 05/11/23 15:10 Sample Depth: 0.5

Method: EPA 300.0 - Anions, I	on Chromatography	r - Soluble					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13900 H	249	mg/Kg			05/16/23 20:23	50

Client Sample ID: SS05 Lab Sample ID: 890-4651-5

Date Collected: 05/11/23 07:40 Matrix: Solid

Date Received: 05/11/23 15:10

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202		0.00202	mg/Kg	— <u> </u>	05/16/23 15:10		
Toluene	<0.00202	U *+	0.00202	mg/Kg		05/16/23 15:10	05/17/23 03:09	
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		05/16/23 15:10	05/17/23 03:09	
m-Xylene & p-Xylene	< 0.00403	U *+	0.00403	mg/Kg		05/16/23 15:10	05/17/23 03:09	
o-Xylene	<0.00202	U	0.00202	mg/Kg			05/17/23 03:09	
Xylenes, Total	<0.00403	U *+	0.00403	mg/Kg		05/16/23 15:10	05/17/23 03:09	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	158	S1+	70 - 130			05/16/23 15:10	05/17/23 03:09	
1,4-Difluorobenzene (Surr)	76		70 - 130			05/16/23 15:10	05/17/23 03:09	
Method: TAL SOP Total BTEX	- Total BTE	X Calculat	ion					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	< 0.00403	U	0.00403	mg/Kg			05/17/23 15:53	-
			D.	1114		Barra a sana at	A I	D:: F -
			DI	I Imit		Dramarad	A malumad	DilEa
Analyte Total TPH	<50.0	Qualifier U	50.0	mg/Kg	D	Prepared	Analyzed 05/16/23 11:52	Dil Fa
Total TPH	<50.0	U	50.0		<u>D</u>	Prepared		Dil Fa
Total TPH Method: SW846 8015B NM - D	<50.0	U	50.0		<u>D</u>	Prepared Prepared		
Total TPH Method: SW846 8015B NM - D Analyte Gasoline Range Organics	<50.0	Organics Qualifier	50.0 (DRO) (GC)	mg/Kg		<u> </u>	05/16/23 11:52 Analyzed	Dil Fa
Total TPH Method: SW846 8015B NM - D Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<50.0 Diesel Range Result	Organics Qualifier	50.0 (DRO) (GC)	mg/Kg Unit		Prepared	05/16/23 11:52 Analyzed 05/15/23 18:41	Dil Fa
Total TPH Method: SW846 8015B NM - DANALYTE Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<50.0 Ciesel Range Result <50.0	Organics Qualifier U	50.0 (DRO) (GC) RL 50.0	mg/Kg Unit mg/Kg		Prepared 05/15/23 12:47	05/16/23 11:52 Analyzed 05/15/23 18:41 05/15/23 18:41	Dil Fa
	<50.0 Columbia	Organics Qualifier U	50.0 (DRO) (GC) RL 50.0 (50.0)	mg/Kg Unit mg/Kg mg/Kg		Prepared 05/15/23 12:47 05/15/23 12:47	05/16/23 11:52 Analyzed 05/15/23 18:41 05/15/23 18:41	Dil Fa
Total TPH Method: SW846 8015B NM - DANAINTE Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<50.0 Columbia	Organics Qualifier U	50.0 (DRO) (GC) RL 50.0 (50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 05/15/23 12:47 05/15/23 12:47 05/15/23 12:47 Prepared	05/16/23 11:52 Analyzed 05/15/23 18:41 05/15/23 18:41	Dil Fa
Method: SW846 8015B NM - EANAINTE Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<50.0 Columbia	Organics Qualifier U	50.0 (DRO) (GC) RL 50.0 50.0 50.0 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 05/15/23 12:47 05/15/23 12:47 05/15/23 12:47 Prepared 05/15/23 12:47	05/16/23 11:52 Analyzed 05/15/23 18:41 05/15/23 18:41 05/15/23 18:41 Analyzed	Dil Fa
Total TPH Method: SW846 8015B NM - DANAINTE Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<50.0 Color	U Organics Qualifier U U Qualifier	50.0 (DRO) (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 05/15/23 12:47 05/15/23 12:47 05/15/23 12:47 Prepared 05/15/23 12:47	05/16/23 11:52 Analyzed 05/15/23 18:41 05/15/23 18:41 Analyzed 05/15/23 18:41	Dil Fa

Eurofins Carlsbad

05/17/23 00:18

5.04

mg/Kg

525 H

Chloride

Client: Ensolum Job ID: 890-4651-1 Project/Site: Outrider Fed 28 Pad B SDG: 03C1558193

Client Sample ID: SS06

Lab Sample ID: 890-4651-6 Date Collected: 05/11/23 07:45 **Matrix: Solid** Date Received: 05/11/23 15:10

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/16/23 15:10	05/17/23 03:35	1
Toluene	<0.00199	U *+	0.00199	mg/Kg		05/16/23 15:10	05/17/23 03:35	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		05/16/23 15:10	05/17/23 03:35	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398	mg/Kg		05/16/23 15:10	05/17/23 03:35	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		05/16/23 15:10	05/17/23 03:35	1
Xylenes, Total	<0.00398	U *+	0.00398	mg/Kg		05/16/23 15:10	05/17/23 03:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	180	S1+	70 - 130			05/16/23 15:10	05/17/23 03:35	1
1,4-Difluorobenzene (Surr)	83		70 - 130			05/16/23 15:10	05/17/23 03:35	1
Method: TAL SOP Total BTEX	- Total BTE	X Calculat	ion					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/17/23 15:53	1
Method: SW846 8015 NM - Did Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			05/16/23 11:52	
-				0 0			03/10/23 11.32	1
Method: SW846 8015B NM - D	Diesel Range	organics	(DRO) (GC)	0 0			03/10/23 11.32	1
		Organics Qualifier	(DRO) (GC)	Unit	D	Prepared	Analyzed	1 Dil Fac
Analyte Gasoline Range Organics		Qualifier			<u>D</u>	Prepared 05/15/23 12:47		Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U	RL	Unit	<u>D</u>	05/15/23 12:47	Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.8	Qualifier U	RL 49.8	Unit mg/Kg	<u> </u>	05/15/23 12:47 05/15/23 12:47	Analyzed 05/15/23 19:03	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.8	Qualifier U U U	49.8 49.8	Unit mg/Kg mg/Kg	<u>D</u>	05/15/23 12:47 05/15/23 12:47	Analyzed 05/15/23 19:03 05/15/23 19:03	Dil Fac 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <49.8 <49.8 <49.8	Qualifier U U U	49.8 49.8 49.8	Unit mg/Kg mg/Kg	<u> </u>	05/15/23 12:47 05/15/23 12:47 05/15/23 12:47	Analyzed 05/15/23 19:03 05/15/23 19:03 05/15/23 19:03	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 <49.8 <49.8 <49.8 <49.8 <49.8 <80	Qualifier U U U	49.8 49.8 49.8 Limits	Unit mg/Kg mg/Kg	<u>D</u>	05/15/23 12:47 05/15/23 12:47 05/15/23 12:47 Prepared 05/15/23 12:47	Analyzed 05/15/23 19:03 05/15/23 19:03 05/15/23 19:03 Analyzed	Dil Fac
Method: SW846 8015B NM - EANalyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: EPA 300.0 - Anions,	Result <49.8 <49.8 <49.8 <49.8 <49.8	Qualifier U U Qualifier	RL 49.8 49.8 49.8 Limits 70 - 130 70 - 130	Unit mg/Kg mg/Kg	<u> </u>	05/15/23 12:47 05/15/23 12:47 05/15/23 12:47 Prepared 05/15/23 12:47	Analyzed 05/15/23 19:03 05/15/23 19:03 05/15/23 19:03 Analyzed 05/15/23 19:03	1 1 1 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	Result	Qualifier U U Qualifier	RL 49.8 49.8 49.8 Limits 70 - 130 70 - 130	Unit mg/Kg mg/Kg	<u>D</u>	05/15/23 12:47 05/15/23 12:47 05/15/23 12:47 Prepared 05/15/23 12:47	Analyzed 05/15/23 19:03 05/15/23 19:03 05/15/23 19:03 Analyzed 05/15/23 19:03	

Client Sample ID: SS07 Lab Sample ID: 890-4651-7 Date Collected: 05/11/23 07:50 **Matrix: Solid**

Date Received: 05/11/23 15:10

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/16/23 15:10	05/17/23 04:01	1
Toluene	< 0.00199	U *+	0.00199	mg/Kg		05/16/23 15:10	05/17/23 04:01	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		05/16/23 15:10	05/17/23 04:01	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398	mg/Kg		05/16/23 15:10	05/17/23 04:01	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		05/16/23 15:10	05/17/23 04:01	1
Xylenes, Total	<0.00398	U *+	0.00398	mg/Kg		05/16/23 15:10	05/17/23 04:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	156	S1+	70 - 130			05/16/23 15:10	05/17/23 04:01	1

Eurofins Carlsbad

Job ID: 890-4651-1

Client: Ensolum Project/Site: Outrider Fed 28 Pad B SDG: 03C1558193

Client Sample ID: SS07 Lab Sample ID: 890-4651-7 Matrix: Solid

Date Collected: 05/11/23 07:50 Date Received: 05/11/23 15:10 Sample Depth: 0.5

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

Surrogate %Recovery Qualifier I imits Prepared Analyzed Dil Fac 05/16/23 15:10 05/17/23 04:01 70 - 130 1,4-Difluorobenzene (Surr)

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Total BTEX <0.00398 U 0.00398 mg/Kg 05/17/23 15:53

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

Result Qualifier Unit D Prepared Analyzed Dil Fac 49.9 **Total TPH** 50.5 mg/Kg 05/16/23 11:52

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

Result Qualifier D Dil Fac **Analyte** Unit Analyzed Prepared <49.9 U 49.9 05/15/23 12:47 05/15/23 19:24 Gasoline Range Organics mg/Kg (GRO)-C6-C10 **Diesel Range Organics (Over** 49.9 mg/Kg 05/15/23 12:47 05/15/23 19:24 50.5 C10-C28) Oll Range Organics (Over C28-C36) <49.9 U 49.9 05/15/23 12:47 05/15/23 19:24 mg/Kg

%Recovery Qualifier Dil Fac Surrogate Limits Prepared Analyzed 70 - 130 1-Chlorooctane 119 05/15/23 12:47 05/15/23 19:24 o-Terphenyl 88 70 - 130 05/15/23 12:47 05/15/23 19:24

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier Analyte RL Unit Prepared Analyzed Dil Fac Chloride 575 H 4.99 mg/Kg 05/17/23 00:29

Client Sample ID: SS08 Lab Sample ID: 890-4651-8 Matrix: Solid

Date Collected: 05/11/23 07:55 Date Received: 05/11/23 15:10

Sample Depth: 0.5

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

Analyte Result Qualifier RI Unit D Prepared Dil Fac Analyzed Benzene <0.00201 U 0.00201 mg/Kg 05/16/23 15:10 05/17/23 04:26 Toluene <0.00201 U*+ 0.00201 mg/Kg 05/16/23 15:10 05/17/23 04:26 Ethylbenzene <0.00201 U 0.00201 mg/Kg 05/16/23 15:10 05/17/23 04:26 m-Xylene & p-Xylene <0.00402 U *+ 0.00402 mg/Kg 05/16/23 15:10 05/17/23 04:26 o-Xylene <0.00201 U 0.00201 mg/Kg 05/16/23 15:10 05/17/23 04:26 Xylenes, Total <0.00402 U *+ 0.00402 mg/Kg 05/16/23 15:10 05/17/23 04:26 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac

170 S1+ 70 - 130 05/16/23 15:10 05/17/23 04:26 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) 87 70 - 130 05/16/23 15:10 05/17/23 04:26

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac <0.00402 U Total BTEX 0.00402 mg/Kg 05/17/23 15:53

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

Analyte Result Qualifier Unit Prepared Analyzed Dil Fac Total TPH <49.8 U 49.8 mg/Kg 05/16/23 11:52

Matrix: Solid

Lab Sample ID: 890-4651-8

Client Sample Results

Client: Ensolum Job ID: 890-4651-1
Project/Site: Outrider Fed 28 Pad B SDG: 03C1558193

Client Sample ID: SS08

Date Collected: 05/11/23 07:55 Date Received: 05/11/23 15:10

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		05/15/23 12:47	05/15/23 19:46	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		05/15/23 12:47	05/15/23 19:46	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/15/23 12:47	05/15/23 19:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130			05/15/23 12:47	05/15/23 19:46	1
o-Terphenyl	87		70 - 130			05/15/23 12:47	05/15/23 19:46	1

Method: EPA 300.0 - A	nions, Ion Chromatography -	Soluble					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorido	502 H	5.00	ma/Ka			05/17/23 00:34	

2

3

6

9

10

4.0

13

Surrogate Summary

Client: Ensolum Job ID: 890-4651-1 Project/Site: Outrider Fed 28 Pad B SDG: 03C1558193

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

			Percei	nt Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-4651-1	SS01	157 S1+	82	
890-4651-1 MS	SS01	146 S1+	102	
890-4651-1 MSD	SS01	137 S1+	80	
890-4651-2	SS02	166 S1+	82	
390-4651-3	SS03	163 S1+	88	
890-4651-4	SS04	178 S1+	91	
890-4651-5	SS05	158 S1+	76	
890-4651-6	SS06	180 S1+	83	
890-4651-7	SS07	156 S1+	73	
890-4651-8	SS08	170 S1+	87	
LCS 880-53495/1-A	Lab Control Sample	143 S1+	89	
LCSD 880-53495/2-A	Lab Control Sample Dup	119	98	
MB 880-53382/5-A	Method Blank	83	76	
MB 880-53495/5-A	Method Blank	85	76	
Surrogate Legend				
BFB = 4-Bromofluorob	enzene (Surr)			
DFBZ = 1,4-Difluorobe	enzene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

			Percent Surrog	ate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-4651-1	SS01	129	101	
890-4651-1 MS	SS01	121	88	
890-4651-1 MSD	SS01	125	90	
890-4651-2	SS02	126	96	
890-4651-3	SS03	136 S1+	106	
890-4651-4	SS04	131 S1+	102	
890-4651-5	SS05	123	92	
890-4651-6	SS06	121	90	
890-4651-7	SS07	119	88	
890-4651-8	SS08	117	87	
LCS 880-53379/2-A	Lab Control Sample	108	86	
LCSD 880-53379/3-A	Lab Control Sample Dup	113	88	
MB 880-53379/1-A	Method Blank	177 S1+	144 S1+	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-4651-1 Project/Site: Outrider Fed 28 Pad B SDG: 03C1558193

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-53382/5-A

Matrix: Solid

Analysis Batch: 53453

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 53382

	MB I	MR						
Analyte	Result (Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200 U	J	0.00200	mg/Kg		05/15/23 13:08	05/16/23 11:44	1
Toluene	<0.00200 l	J	0.00200	mg/Kg		05/15/23 13:08	05/16/23 11:44	•
Ethylbenzene	<0.00200 l	J	0.00200	mg/Kg		05/15/23 13:08	05/16/23 11:44	•
m-Xylene & p-Xylene	<0.00400 U	J	0.00400	mg/Kg		05/15/23 13:08	05/16/23 11:44	
o-Xylene	<0.00200 l	J	0.00200	mg/Kg		05/15/23 13:08	05/16/23 11:44	1
Xylenes, Total	<0.00400 l	J	0.00400	mg/Kg		05/15/23 13:08	05/16/23 11:44	

MB MB

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	83	70 - 130
1,4-Difluorobenzene (Surr)	76	70 - 130

Prepared Analyzed Dil Fac 05/15/23 13:08 05/16/23 11:44 05/15/23 13:08 05/16/23 11:44

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

Prep Batch: 53495

Lab Sample ID: MB 880-53495/5-A

Matrix: Solid

Analysis Batch: 53453

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/16/23 15:10	05/17/23 01:01	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/16/23 15:10	05/17/23 01:01	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/16/23 15:10	05/17/23 01:01	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/16/23 15:10	05/17/23 01:01	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/16/23 15:10	05/17/23 01:01	1
Xylenes, Total	< 0.00400	U	0.00400	mg/Kg		05/16/23 15:10	05/17/23 01:01	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85	70 - 130	05/16/23 15:10	05/17/23 01:01	1
1,4-Difluorobenzene (Surr)	76	70 - 130	05/16/23 15:10	05/17/23 01:01	1

Lab Sample ID: LCS 880-53495/1-A

Matrix: Solid

Analysis Batch: 53453

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

Client Sample ID: Lab Control Sample Dup

Prep Batch: 53495

Spike	LCS	LCS				%Rec	
Added	Result	Qualifier	Unit	D	%Rec	Limits	
0.100	0.1280		mg/Kg	_	128	70 - 130	
0.100	0.1330	*+	mg/Kg		133	70 - 130	
0.100	0.1209		mg/Kg		121	70 - 130	
0.200	0.2739	*+	mg/Kg		137	70 - 130	
0.100	0.1251		mg/Kg		125	70 - 130	
	0.100 0.100 0.100 0.200	Added Result 0.100 0.1280 0.100 0.1330 0.100 0.1209 0.200 0.2739	Added Result Qualifier 0.100 0.1280 0.100 0.1330 *+ 0.100 0.1209 0.200 0.2739 *+	Added Result Qualifier Unit 0.100 0.1280 mg/Kg 0.100 0.1330 *+ mg/Kg 0.100 0.1209 mg/Kg 0.200 0.2739 *+ mg/Kg	Added Result Qualifier Unit D 0.100 0.1280 mg/Kg 0.100 0.1330 *+ mg/Kg 0.100 0.1209 mg/Kg 0.200 0.2739 *+ mg/Kg	Added Result Qualifier Unit D %Rec 0.100 0.1280 mg/Kg 128 0.100 0.1330 *+ mg/Kg 133 0.100 0.1209 mg/Kg 121 0.200 0.2739 *+ mg/Kg 137	Added Result Qualifier Unit D %Rec Limits 0.100 0.1280 mg/Kg 128 70 - 130 0.100 0.1330 *+ mg/Kg 133 70 - 130 0.100 0.1209 mg/Kg 121 70 - 130 0.200 0.2739 *+ mg/Kg 137 70 - 130

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	143	S1+	70 - 130
1,4-Difluorobenzene (Surr)	89		70 - 130

Lab Sample ID: LCSD 880-53495/2-A

Matrix: Solid							Prep Ty	pe: Tot	al/NA
Analysis Batch: 53453							Prep E	Batch:	53495
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1172		mg/Kg		117	70 - 130	9	35

Eurofins Carlsbad

Client: Ensolum Job ID: 890-4651-1 Project/Site: Outrider Fed 28 Pad B SDG: 03C1558193

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

Lab Sample ID: LCSD 880-53495/2-A

Matrix: Solid

Analysis Batch: 53453

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 53495

LCSD LCSD Spike %Rec **RPD** Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit Toluene 0.100 0.1192 mg/Kg 119 70 - 130 35 11 0.100 Ethylbenzene 0.1089 mg/Kg 109 70 - 130 10 35 m-Xylene & p-Xylene 0.200 0.2476 mg/Kg 124 70 - 130 10 35 0.100 35 o-Xylene 0.1134 mg/Kg 113 70 - 130 10

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 890-4651-1 MS Client Sample ID: SS01

Matrix: Solid

Analysis Batch: 53453

Prep Type: Total/NA

Prep Batch: 53495

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.0998	0.1283		mg/Kg		129	70 - 130	
Toluene	< 0.00199	U F1 *+	0.0998	0.1339	F1	mg/Kg		134	70 - 130	
Ethylbenzene	< 0.00199	U	0.0998	0.1167		mg/Kg		117	70 - 130	
m-Xylene & p-Xylene	<0.00398	U *+	0.200	0.2596		mg/Kg		130	70 - 130	
o-Xylene	<0.00199	U	0.0998	0.1180		mg/Kg		118	70 - 130	
I .										

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	146	S1+	70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 890-4651-1 MSD

Matrix: Solid

Analysis Batch: 53453

Client Sample ID: SS01 Prep Type: Total/NA

Prep Batch: 53495

_	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U	0.0990	0.1065		mg/Kg		108	70 - 130	19	35
Toluene	<0.00199	U F1 *+	0.0990	0.1114		mg/Kg		112	70 - 130	18	35
Ethylbenzene	< 0.00199	U	0.0990	0.08992		mg/Kg		91	70 - 130	26	35
m-Xylene & p-Xylene	<0.00398	U *+	0.198	0.2126		mg/Kg		107	70 - 130	20	35
o-Xylene	<0.00199	U	0.0990	0.09987		mg/Kg		101	70 - 130	17	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130
1,4-Difluorobenzene (Surr)	80		70 - 130

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

Lab Sample ID: MB 880-53379/1-A

Matrix: Solid

Analysis Batch: 53324

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

Prep Batch: 53379

MB MB Result Qualifier RL Unit Analyte Prepared Analyzed Gasoline Range Organics <50.0 U 50.0 mg/Kg 05/15/23 12:47 05/15/23 14:57

(GRO)-C6-C10

Client: Ensolum Job ID: 890-4651-1 Project/Site: Outrider Fed 28 Pad B

SDG: 03C1558193

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

Lab Sample ID: MB 880-53379/1-A **Matrix: Solid**

Lab Sample ID: LCS 880-53379/2-A

Analysis Batch: 53324

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 53379

	MB	MR						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/15/23 12:47	05/15/23 14:57	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/15/23 12:47	05/15/23 14:57	1
	MD	MD						

MB MB

	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	1-Chlorooctane	177	S1+	70 - 130	05/15/23 12:47	05/15/23 14:57	1
Į	o-Terphenyl	144	S1+	70 - 130	05/15/23 12:47	05/15/23 14:57	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 53379

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	945.0		mg/Kg		95	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	983.1		mg/Kg		98	70 - 130	
C10-C28)								

LCS LCS

l	Surrogate	%Recovery	Qualifier	Limits
	1-Chlorooctane	108		70 - 130
	o-Terphenyl	86		70 - 130

Lab Sample ID: LCSD 880-53379/3-A Client Sample ID: Lab Control Sample Dup

LCSD LCSD

930.1

972.8

Result Qualifier Unit

mg/Kg

mg/Kg

Spike

Added

1000

1000

Matrix: Solid

(GRO)-C6-C10

Analyte

Matrix: Solid

Analysis Batch: 53324

Analysis Batch: 53324

Gasoline Range Organics

Diesel Range Organics (Over

Prep Type: Total/NA Prep Batch: 53379

97

70 - 130

%Rec **RPD** D %Rec Limits RPD Limit 93 70 - 130 2 20

C10-C28)		
	LCSD LCSD	
Surrogate	%Recovery Qualified	r Limits
1-Chlorooctane	113	70 - 130
o-Terphenyl	88	70 - 130

Lab Sample ID: 890-4651-1 MS

Matrix: Solid

Analysis Batch: 53324

Client Sample ID: SS01 Prep Type: Total/NA

Prep Batch: 53379

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	55.1		997	962.5		mg/Kg		91	70 - 130	_
Diesel Range Organics (Over C10-C28)	<50.0	U	997	857.2		mg/Kg		84	70 - 130	

	IVIS	IVIS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	121		70 - 130
o-Terphenyl	88		70 - 130

Eurofins Carlsbad

Client: Ensolum Job ID: 890-4651-1 Project/Site: Outrider Fed 28 Pad B SDG: 03C1558193

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

Lab Sample ID: 890-4651-1 MSD Client Sample ID: SS01

Matrix: Solid

Analysis Batch: 53324

Prep Type: Total/NA Prep Batch: 53379

Sample Sample Spike MSD MSD %Rec **RPD** Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit Analyte Gasoline Range Organics 55.1 997 984.7 mg/Kg 93 70 - 130 2 20 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 997 882.1 87 70 - 130 mg/Kg 3 20

C10-C28)

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	125		70 - 130
o-Terphenyl	90		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-53361/1-A **Client Sample ID: Method Blank**

Matrix: Solid

Analysis Batch: 53529

Prep Type: Soluble

MB MB

	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
l	Chloride	<5.00	U	5.00	mg/Kg			05/16/23 19:40	1

Lab Sample ID: LCS 880-53361/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 53529

	Spike	LCS L	.cs				%Rec	
Analyte	Added	Result C	Qualifier (Unit	D	%Rec	Limits	
Chloride	250	242.6	1	mg/Kg		97	90 - 110	

Lab Sample ID: LCSD 880-53361/3-A **Client Sample ID: Lab Control Sample Dup Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 53529

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	242.9		mg/Kg		97	90 - 110	0	20	

Lab Sample ID: 890-4651-1 MS **Client Sample ID: SS01 Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 53529

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	9330	H F1	12500	15990	F1	ma/Ka	_	53	90 - 110	

Lab Sample ID: 890-4651-1 MSD Client Sample ID: SS01 **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 53529

Alialysis Datell. 00020											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	9330	H F1	12500	16050	F1	mg/Kg		54	90 - 110	0	20

Client: Ensolum Job ID: 890-4651-1 SDG: 03C1558193 Project/Site: Outrider Fed 28 Pad B

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 880-53260/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 53531

MB MB Result Qualifier RL Unit Analyzed Dil Fac Analyte D Prepared 5.00 05/16/23 22:05 Chloride <5.00 U mg/Kg

Lab Sample ID: LCS 880-53260/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 53531

Spike LCS LCS %Rec Added Result Qualifier Unit D %Rec Limits Analyte 250 90 - 110 Chloride 258.3 mg/Kg 103

Lab Sample ID: LCSD 880-53260/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 53531

Spike LCSD LCSD %Rec **RPD** Added Result Qualifier Limits **RPD** Analyte Unit %Rec Limit Chloride 250 259.4 104 90 - 110 20 mg/Kg

Lab Sample ID: 890-4642-A-5-D MS **Client Sample ID: Matrix Spike Matrix: Solid Prep Type: Soluble**

Analysis Batch: 53531

Spike MS MS %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 5040 F1 2510 6793 F1 Chloride mg/Kg 70 90 - 110

Lab Sample ID: 890-4642-A-5-E MSD **Client Sample ID: Matrix Spike Duplicate Matrix: Solid Prep Type: Soluble**

Analysis Batch: 53531

MSD MSD RPD Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 5040 F1 2510 6811 F1 mg/Kg 90 - 110

Lab Sample ID: MB 880-53653/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 53664

MB MB Result Qualifier Analyte RL Unit D Dil Fac Prepared Analyzed 5.00 05/18/23 13:38 Chloride <5.00 U mg/Kg

Lab Sample ID: LCS 880-53653/2-A Client Sample ID: Lab Control Sample **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 53664 Spike LCS LCS

%Rec Added Result Qualifier Limits Analyte Unit %Rec 250 258.0 Chloride mg/Kg 103 90 - 110

Lab Sample ID: LCSD 880-53653/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 53664

Spike LCSD LCSD %Rec **RPD RPD** Added Analyte Result Qualifier Unit D %Rec Limits Limit Chloride 250 260.1 mg/Kg 104 90 - 110 20

QC Sample Results

Client: Ensolum Job ID: 890-4651-1 Project/Site: Outrider Fed 28 Pad B SDG: 03C1558193

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-4671-A-3-E MS **Client Sample ID: Matrix Spike Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 53664

%Rec Sample Sample Spike MS MS Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Chloride 248 145 404.9 mg/Kg 105 90 - 110

Lab Sample ID: 890-4671-A-3-F MSD Client Sample ID: Matrix Spike Duplicate **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 53664

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	145		248	404.9		mg/Kg		105	90 - 110	0	20

Page 20 of 33

Client: Ensolum Job ID: 890-4651-1
Project/Site: Outrider Fed 28 Pad B SDG: 03C1558193

GC VOA

Prep Batch: 53382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-53382/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 53453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4651-1	SS01	Total/NA	Solid	8021B	53495
890-4651-2	SS02	Total/NA	Solid	8021B	53495
890-4651-3	SS03	Total/NA	Solid	8021B	53495
890-4651-4	SS04	Total/NA	Solid	8021B	53495
890-4651-5	SS05	Total/NA	Solid	8021B	53495
890-4651-6	SS06	Total/NA	Solid	8021B	53495
890-4651-7	SS07	Total/NA	Solid	8021B	53495
890-4651-8	SS08	Total/NA	Solid	8021B	53495
MB 880-53382/5-A	Method Blank	Total/NA	Solid	8021B	53382
MB 880-53495/5-A	Method Blank	Total/NA	Solid	8021B	53495
LCS 880-53495/1-A	Lab Control Sample	Total/NA	Solid	8021B	53495
LCSD 880-53495/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	53495
890-4651-1 MS	SS01	Total/NA	Solid	8021B	53495
890-4651-1 MSD	SS01	Total/NA	Solid	8021B	53495

Prep Batch: 53495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4651-1	SS01	Total/NA	Solid	5035	
890-4651-2	SS02	Total/NA	Solid	5035	
890-4651-3	SS03	Total/NA	Solid	5035	
890-4651-4	SS04	Total/NA	Solid	5035	
890-4651-5	SS05	Total/NA	Solid	5035	
890-4651-6	SS06	Total/NA	Solid	5035	
890-4651-7	SS07	Total/NA	Solid	5035	
890-4651-8	SS08	Total/NA	Solid	5035	
MB 880-53495/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-53495/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-53495/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4651-1 MS	SS01	Total/NA	Solid	5035	
890-4651-1 MSD	SS01	Total/NA	Solid	5035	

Analysis Batch: 53610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4651-1	SS01	Total/NA	Solid	Total BTEX	
890-4651-2	SS02	Total/NA	Solid	Total BTEX	
890-4651-3	SS03	Total/NA	Solid	Total BTEX	
890-4651-4	SS04	Total/NA	Solid	Total BTEX	
890-4651-5	SS05	Total/NA	Solid	Total BTEX	
890-4651-6	SS06	Total/NA	Solid	Total BTEX	
890-4651-7	SS07	Total/NA	Solid	Total BTEX	
890-4651-8	SS08	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 53324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4651-1	SS01	Total/NA	Solid	8015B NM	53379

Eurofins Carlsbad

3

5

9

111

13

Client: Ensolum Job ID: 890-4651-1 Project/Site: Outrider Fed 28 Pad B SDG: 03C1558193

GC Semi VOA (Continued)

Analysis Batch: 53324 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4651-2	SS02	Total/NA	Solid	8015B NM	53379
890-4651-3	SS03	Total/NA	Solid	8015B NM	53379
890-4651-4	SS04	Total/NA	Solid	8015B NM	53379
890-4651-5	SS05	Total/NA	Solid	8015B NM	53379
890-4651-6	SS06	Total/NA	Solid	8015B NM	53379
890-4651-7	SS07	Total/NA	Solid	8015B NM	53379
890-4651-8	SS08	Total/NA	Solid	8015B NM	53379
MB 880-53379/1-A	Method Blank	Total/NA	Solid	8015B NM	53379
LCS 880-53379/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	53379
LCSD 880-53379/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	53379
890-4651-1 MS	SS01	Total/NA	Solid	8015B NM	53379
890-4651-1 MSD	SS01	Total/NA	Solid	8015B NM	53379

Prep Batch: 53379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4651-1	SS01	Total/NA	Solid	8015NM Prep	
890-4651-2	SS02	Total/NA	Solid	8015NM Prep	
890-4651-3	SS03	Total/NA	Solid	8015NM Prep	
890-4651-4	SS04	Total/NA	Solid	8015NM Prep	
890-4651-5	SS05	Total/NA	Solid	8015NM Prep	
890-4651-6	SS06	Total/NA	Solid	8015NM Prep	
890-4651-7	SS07	Total/NA	Solid	8015NM Prep	
890-4651-8	SS08	Total/NA	Solid	8015NM Prep	
MB 880-53379/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-53379/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-53379/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4651-1 MS	SS01	Total/NA	Solid	8015NM Prep	
890-4651-1 MSD	SS01	Total/NA	Solid	8015NM Prep	

Analysis Batch: 53470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4651-1	SS01	Total/NA	Solid	8015 NM	
890-4651-2	SS02	Total/NA	Solid	8015 NM	
890-4651-3	SS03	Total/NA	Solid	8015 NM	
890-4651-4	SS04	Total/NA	Solid	8015 NM	
890-4651-5	SS05	Total/NA	Solid	8015 NM	
890-4651-6	SS06	Total/NA	Solid	8015 NM	
890-4651-7	SS07	Total/NA	Solid	8015 NM	
890-4651-8	SS08	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 53260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4651-5	SS05	Soluble	Solid	DI Leach	
890-4651-6	SS06	Soluble	Solid	DI Leach	
890-4651-7	SS07	Soluble	Solid	DI Leach	
890-4651-8	SS08	Soluble	Solid	DI Leach	
MB 880-53260/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-53260/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-53260/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Client: Ensolum Job ID: 890-4651-1 Project/Site: Outrider Fed 28 Pad B SDG: 03C1558193

HPLC/IC (Continued)

Leach Batch: 53260 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4642-A-5-D MS	Matrix Spike	Soluble	Solid	DI Leach	
890-4642-A-5-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 53361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4651-1	SS01	Soluble	Solid	DI Leach	
890-4651-2	SS02	Soluble	Solid	DI Leach	
890-4651-4	SS04	Soluble	Solid	DI Leach	
MB 880-53361/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-53361/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-53361/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4651-1 MS	SS01	Soluble	Solid	DI Leach	
890-4651-1 MSD	SS01	Soluble	Solid	DI Leach	

Analysis Batch: 53529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4651-1	SS01	Soluble	Solid	300.0	53361
890-4651-2	SS02	Soluble	Solid	300.0	53361
890-4651-4	SS04	Soluble	Solid	300.0	53361
MB 880-53361/1-A	Method Blank	Soluble	Solid	300.0	53361
LCS 880-53361/2-A	Lab Control Sample	Soluble	Solid	300.0	53361
LCSD 880-53361/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	53361
890-4651-1 MS	SS01	Soluble	Solid	300.0	53361
890-4651-1 MSD	SS01	Soluble	Solid	300.0	53361

Analysis Batch: 53531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4651-5	SS05	Soluble	Solid	300.0	53260
890-4651-6	SS06	Soluble	Solid	300.0	53260
890-4651-7	SS07	Soluble	Solid	300.0	53260
890-4651-8	SS08	Soluble	Solid	300.0	53260
MB 880-53260/1-A	Method Blank	Soluble	Solid	300.0	53260
LCS 880-53260/2-A	Lab Control Sample	Soluble	Solid	300.0	53260
LCSD 880-53260/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	53260
890-4642-A-5-D MS	Matrix Spike	Soluble	Solid	300.0	53260
890-4642-A-5-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	53260

Leach Batch: 53653

Lab Sample ID 890-4651-3	Client Sample ID SS03	Prep Type Soluble	Matrix Solid	Method DI Leach	Prep Batch
MB 880-53653/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-53653/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-53653/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4671-A-3-E MS	Matrix Spike	Soluble	Solid	DI Leach	
890-4671-A-3-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 53664

Lab Sample ID 890-4651-3	Client Sample ID SS03	Prep Type Soluble	Matrix Solid	Method 300.0	Prep Batch 53653
MB 880-53653/1-A	Method Blank	Soluble	Solid	300.0	53653
LCS 880-53653/2-A	Lab Control Sample	Soluble	Solid	300.0	53653

Client: Ensolum Job ID: 890-4651-1 Project/Site: Outrider Fed 28 Pad B

SDG: 03C1558193

HPLC/IC (Continued)

Analysis Batch: 53664 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-53653/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	53653
890-4671-A-3-E MS	Matrix Spike	Soluble	Solid	300.0	53653
890-4671-A-3-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	53653

Client Sample ID: SS01

Client: Ensolum

Date Collected: 05/11/23 07:20 Date Received: 05/11/23 15:10

Project/Site: Outrider Fed 28 Pad B

Lab Sample ID: 890-4651-1

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	53495	05/16/23 15:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53453	05/17/23 01:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53610	05/17/23 15:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			53470	05/16/23 11:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	53379	05/15/23 12:47	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53324	05/15/23 16:32	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	53361	05/15/23 11:42	KS	EET MID
Soluble	Analysis	300.0		50	50 mL	50 mL	53529	05/16/23 19:57	CH	EET MID

Client Sample ID: SS02 Lab Sample ID: 890-4651-2 Date Collected: 05/11/23 07:25

Date Received: 05/11/23 15:10

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Method Number **Prep Type** Type Run **Factor Amount** Amount or Analyzed **Analyst** Lab Total/NA 5035 53495 05/16/23 15:10 MNR EET MID Prep 5.01 g 5 mL Total/NA 8021B 5 mL 05/17/23 01:52 MNR **EET MID** Analysis 5 mL 53453 1 Total/NA Total BTEX Analysis 53610 05/17/23 15:53 SM **EET MID** 1 Total/NA 8015 NM 53470 **EET MID** Analysis 1 05/16/23 11:52 SM Total/NA Prep 8015NM Prep 10.04 g 10 mL 53379 05/15/23 12:47 AJ **EET MID** Total/NA 8015B NM 53324 Analysis 1 uL 1 uL 05/15/23 17:37 SM **EET MID** Soluble 5.04 g 50 mL 53361 Leach DI Leach 05/15/23 11:42 KS **EET MID** 300.0 05/16/23 20:13 CH Soluble Analysis 50 50 mL 50 mL 53529 **EET MID**

Client Sample ID: SS03 Lab Sample ID: 890-4651-3 Date Collected: 05/11/23 07:30

Date Received: 05/11/23 15:10

Matrix: Solid

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	53495	05/16/23 15:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53453	05/17/23 02:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53610	05/17/23 15:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			53470	05/16/23 11:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	53379	05/15/23 12:47	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53324	05/15/23 17:59	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	53653	05/18/23 10:23	СН	EET MID
Soluble	Analysis	300.0		50	50 mL	50 mL	53664	05/18/23 15:47	SMC	EET MID

Client Sample ID: SS04 Lab Sample ID: 890-4651-4 Date Collected: 05/11/23 07:35 Matrix: Solid

Date Received: 05/11/23 15:10

	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	53495	05/16/23 15:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53453	05/17/23 02:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53610	05/17/23 15:53	SM	EET MID

Project/Site: Outrider Fed 28 Pad B

SDG: 03C1558193

Lab Sample ID: 890-4651-4

Matrix: Solid

Client Sample ID: SS04 Date Collected: 05/11/23 07:35

Client: Ensolum

Date Received: 05/11/23 15:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			53470	05/16/23 11:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	53379	05/15/23 12:47	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53324	05/15/23 18:20	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	53361	05/15/23 11:42	KS	EET MID
Soluble	Analysis	300.0		50	50 mL	50 mL	53529	05/16/23 20:23	CH	EET MID

Lab Sample ID: 890-4651-5 **Client Sample ID: SS05** Date Collected: 05/11/23 07:40 **Matrix: Solid**

Date Received: 05/11/23 15:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	53495	05/16/23 15:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53453	05/17/23 03:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53610	05/17/23 15:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			53470	05/16/23 11:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	53379	05/15/23 12:47	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53324	05/15/23 18:41	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	53260	05/12/23 13:01	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	53531	05/17/23 00:18	CH	EET MID

Client Sample ID: SS06 Lab Sample ID: 890-4651-6 **Matrix: Solid**

Date Collected: 05/11/23 07:45 Date Received: 05/11/23 15:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	53495	05/16/23 15:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53453	05/17/23 03:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53610	05/17/23 15:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			53470	05/16/23 11:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	53379	05/15/23 12:47	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53324	05/15/23 19:03	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	53260	05/12/23 13:01	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	53531	05/17/23 00:24	CH	EET MID

Client Sample ID: SS07 Lab Sample ID: 890-4651-7 Date Collected: 05/11/23 07:50 Matrix: Solid

Date Received: 05/11/23 15:10

_	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	53495	05/16/23 15:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53453	05/17/23 04:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53610	05/17/23 15:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			53470	05/16/23 11:52	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.03 g 1 uL	10 mL 1 uL	53379 53324	05/15/23 12:47 05/15/23 19:24	AJ SM	EET MID EET MID

Job ID: 890-4651-1

Client: Ensolum Project/Site: Outrider Fed 28 Pad B SDG: 03C1558193

Client Sample ID: SS07 Lab Sample ID: 890-4651-7 Date Collected: 05/11/23 07:50 **Matrix: Solid**

Date Received: 05/11/23 15:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	53260	05/12/23 13:01	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	53531	05/17/23 00:29	CH	EET MID

Client Sample ID: SS08 Lab Sample ID: 890-4651-8

Date Collected: 05/11/23 07:55 Matrix: Solid Date Received: 05/11/23 15:10

_	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	53495	05/16/23 15:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53453	05/17/23 04:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53610	05/17/23 15:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			53470	05/16/23 11:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	53379	05/15/23 12:47	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53324	05/15/23 19:46	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	53260	05/12/23 13:01	KS	EET MID

50 mL

50 mL

53531

05/17/23 00:34 CH

Laboratory References:

Analysis

Soluble

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

300.0

Eurofins Carlsbad

EET MID

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-4651-1 SDG: 03C1558193

Project/Site: Outrider Fed 28 Pad B **Laboratory: Eurofins Midland**

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

Authority	Pro	ogram	Identification Number	Expiration Date
Texas	NE	LAP	T104704400-22-25	06-30-23
The following analyte	s are included in this reno	rt but the laboratory is r	not certified by the governing authority.	This list may include analytes for
the agency does not		it, but the laboratory is i	lot certified by the governing authority.	This list may include analytes for
,		Matrix	Analyte	This list may include analytes for
the agency does not	offer certification.	•	, , ,	This list may include analytes for

Method Summary

Client: Ensolum

Project/Site: Outrider Fed 28 Pad B

Job ID: 890-4651-1

SDG: 03C1558193

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: Outrider Fed 28 Pad B

Job ID: 890-4651-1

SDG: 03C1558193

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4651-1	SS01	Solid	05/11/23 07:20	05/11/23 15:10	0.5
890-4651-2	SS02	Solid	05/11/23 07:25	05/11/23 15:10	0.5
890-4651-3	SS03	Solid	05/11/23 07:30	05/11/23 15:10	0.5
890-4651-4	SS04	Solid	05/11/23 07:35	05/11/23 15:10	0.5
890-4651-5	SS05	Solid	05/11/23 07:40	05/11/23 15:10	0.5
890-4651-6	SS06	Solid	05/11/23 07:45	05/11/23 15:10	0.5
890-4651-7	SS07	Solid	05/11/23 07:50	05/11/23 15:10	0.5
890-4651-8	SS08	Solid	05/11/23 07:55	05/11/23 15:10	0.5

50 C2

Revised Date: 08/25/2020 Rev 2020 2

eurofins

Phone:

Chain of Custody

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

	Env	Environme	100	esting	X	idland, T	X (432)	704-54	40, Sar	Antonio,	Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334	09-3334			Wo	Work Order No:	er No):	/20
	Xenco	00				EL Paso Hobbs, I	. TX (91 NM (575	5) 585-	3443, L 550, Ca	ubbock, T	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	1-1296 3-3199			\$	www.yearco.com	50 50 50 50 50 50 50 50 50 50 50 50 50 5	Page of	5/18
Project Manager:	Ben Belill				Bill to: (if different)	ferent)	o Q	Garret Green	reen							Work	Order (Con	
	Ensolum				Company Name:	Vame:	×	XTO Energy	rgy					Program: UST/PST ☐ PRP ☐ Brownfields ☐	ST/PST	☐ PRP[Brow	vnfields 🗌 RRC 🔲 Superfund 🔲	
	3122 National Parks Hwy	rks Hw	Ŋ		Address:		31	3104 E. Green St	Green :	St.				State of Project:	ject:				
le ZIP:	Carlsbad, NM 88220	220			City, State ZIP:	ZIP:	C	Carlsbad, NM 88220	NM 8	8220				Reporting: L.	evel II]Level II	I □ PS	Reporting: Level II Level III PST/JST TRRP Level IV	
	303-887-2946			Email:	Garret.Green@ExxonMobil.com	een@E	xxon	Nobil.c	om				L	Deliverables: EDD	EDD		ADaPT []	7 □ Other:	
Project Name:	Outrider Fed 28 Pad B	d 28 P	ad B	Turn	Turn Around						A	ANALYSIS		REQUEST				Preservative Codes	
Project Number:	03C1558193	58193		☑ Routine	Rush	0 7	Pres. Code											None: NO DI Water: H ₂ O	
Project Location:	32.18238,-103.68200	103.68		Due Date:					-									Cool: Cool MeOH: Me	
Sampler's Name:	Kase Parker	arker		TAT starts the day received by	day receive	by by							_					HCL: HC HNO3: HN	
PO#:				the lab, if received by 4:30pm	eived by 4:30	L _	ers	-		_							-	H ₂ SO ₄ : H ₂ NaOH: Na	
SAMPLE RECEIPT	Temp Blank:		Yes No	Wet ice:	Yes N	8	nete	1.0)	_									H ₃ PO ₄ : HP	
Samples Received Intact:	(Yes) N		Thermometer ID:	2	MOON		-	300										NaHSO ₄ : NABIS	33
Cooler Custody Seals:	Yes No		Correction Factor:	actor:	-0.0			EPA			0	890-4651						Na ₂ S ₂ O ₃ , NaSO ₃	of 3
Sample Cusiony Seals.	s. Tes No	1	Jeniperature Reading.	Reading.	0				-		1			or oraciony				NaOH+Ascorbic Acid: SAPC	31
Sample Identification		Matrix	Date	Time		Grab/	0 * Of	HLORI	PH (80 TEX (8				-					Sample Comments	Page
\$\$01		S	5/11/2023	7:20	0.5' G	Grab/	_	×	×	×								Incident ID:	
SS02			5/11/2023	7:25		Grab/	_	×	×	×								NAPP2306936047	
SSO3		S	5/11/2023	7:30	0.5' G	Grab/		×	×	×						-		Cost Center:	
SS04		S	5/11/2023	7:35	0.5' G	Grab/	1	×	×	×								2221531001	
SS05		S	5/11/2023	7:40	0.5' G	Grab/	-	×	×	×								AFE:	1
SS06		S	5/11/2023	7:45	0.5' G	Grab/		×	×	×									AI
SS07		S	5/11/2023	7:50	0.5' G	Grab/		×	×	×									16
SS08		S	5/11/2023	7:55	0.5' G	Grab/		×	×	×									51:
7			(xx)													+			10:
							_	-	-										023
Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	10 200.8 / 6020: d Metal(s) to be an	0: analyze		8RCRA 13P TCLP/SI	RA 13PPM Texas 11 AI	15 11 8RCF	Al Sb	Sb As Ba Sb As Ba	a Be Ba Be	B Cd C	Sb As Ba Be B Cd Ca Cr Co Cu Fe Sb As Ba Be Cd Cr Co Cu Pb Mn	o Cu Fe Pb Mn	Mo Pb	Pb Mg Mn Mo Ni Mo Ni Se Ag Tl U		Se Ag	SiO ₂ Na g: 1631 / 2	lg SiO ₂ Na Sr Tl Sn U V Zn Hg: 1631 / 245.1 / 7470 / 7471	0/13/20
	ocument and relinquist	hment of the cost	samples cons	titutes a valid p d shall not assu	urchase orde	er from cl	ent com for any	pany to osses o	Eurofins	s Xenco, its	affiliates ar d by the clie	nd subcon	ractors.	octors. It assigns standard terms and conditions sees are due to circumstances beyond the controls	lard terms	and cond	itions		ine: 9
or Eurotins Xenco. A mini	A minimum charge or spouto will be applied to each project and a charge or so for each sample subminister to Euromis Activo, but not employed. These	Will be a	opileo to each	project and a ci	rarge or so ro	t each se	, loie au	- Interest	la Editor	Na velice	Day not and	yzed. Ille		Constitution of Constitution o					109
Rejiriquished by: (Signature)	(Signature)	1	Received	Received by: (Signature)	ture)		O	Date/Time	ne	70	Relinquished by: (Si	ed by: (signature)	re)	Receiv	Received by: (Signature)	Signatu	ure) Date/Time	Im

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4651-1

SDG Number: 03C1558193

Login Number: 4651 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: 890-4651-1 SDG Number: 03C1558193

Login Number: 4651 **List Source: Eurofins Midland** List Creation: 05/15/23 08:35 AM List Number: 2

Creator: Rodriguez, Leticia

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

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill Ensolum 601 N. Marienfeld St. Suite 400

Midland, Texas 79701

Generated 5/26/2023 4:42:15 PM

JOB DESCRIPTION

Outrider 28 Pad B SDG NUMBER 03C1558193

JOB NUMBER

890-4701-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

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

Authorization

Generated 5/26/2023 4:42:15 PM

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

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

Page 2 of 24

5/26

Λ

5

O

8

4.0

1 1

Project/Site: Outrider 28 Pad B

Client: Ensolum

Laboratory Job ID: 890-4701-1 SDG: 03C1558193

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
	10
QC Sample Results	11
QC Association Summary	15
Lab Chronicle	17
Certification Summary	19
Method Summary	20
Sample Summary	21
Chain of Custody	22
Receipt Checklists	23

6

3

4

6

8

10

12

13

Definitions/Glossary

 Client: Ensolum
 Job ID: 890-4701-1

 Project/Site: Outrider 28 Pad B
 SDG: 03C1558193

00 193

Qualifiers

GC VOA

 Qualifier
 Qualifier Description

 S1 Surrogate recovery exceeds control limits, low biased.

 U
 Indicates the analyte was analyzed for but not detected.

Qualifier Description

-4

GC Semi VOA

*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier

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

8

Glossary

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

13

Dil Fac Dilution
DL Detection

DL Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

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

NC Not Calculated

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

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

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Project/Site: Outrider 28 Pad B

Job ID: 890-4701-1

SDG: 03C1558193

Job ID: 890-4701-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4701-1

Receipt

The samples were received on 5/22/2023 8:16 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 4.8°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: PH01 (890-4701-1), PH02 (890-4701-2), PH03 (890-4701-3) and PH04 (890-4701-4).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-53970/5-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.

GC Semi VOA

Method 8015MOD NM: The surrogate recovery for the blank associated with preparation batch 880-53947 and analytical batch 880-53936 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: PH02 (890-4701-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-53947 and analytical batch 880-53936 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample duplicate (LCSD) recovery is within acceptance limits.

Method 8015MOD NM: LCS biased high for Diesel Range Organics (Over C10-C28). Since only an acceptable LCS or LCSD is required per the method, the LCSD shows recovery for the batch and the data has been qualified and reported.(LCS 880-53947/2-A)

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

HPLC/IC

Method 300 ORGFM 28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-53879 and analytical batch 880-53997 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. The associated samples are: (880-28639-A-1-A), (880-28639-A-1-B MS) and (880-28639-A-1-C MSD).

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

Matrix: Solid

Lab Sample ID: 890-4701-1

05/23/23 08:48

05/23/23 18:25

Lab Sample ID: 890-4701-2

Client Sample Results

Client: Ensolum Job ID: 890-4701-1 Project/Site: Outrider 28 Pad B SDG: 03C1558193

Client Sample ID: PH01

Date Collected: 05/19/23 11:00 Date Received: 05/22/23 08:16

Sample Depth: 1

Method: SW846 8021B - Volatile	Organic Comp	ounds (GC))					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		05/23/23 11:11	05/25/23 13:36	1
Toluene	<0.00198	U	0.00198	mg/Kg		05/23/23 11:11	05/25/23 13:36	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		05/23/23 11:11	05/25/23 13:36	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		05/23/23 11:11	05/25/23 13:36	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		05/23/23 11:11	05/25/23 13:36	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		05/23/23 11:11	05/25/23 13:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130			05/23/23 11:11	05/25/23 13:36	1
1,4-Difluorobenzene (Surr)	90		70 - 130			05/23/23 11:11	05/25/23 13:36	1
Total BTEX Method: SW846 8015 NM - Diese	<0.00396		0.00396 GC)	mg/Kg			05/26/23 17:23	1
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/24/23 09:55	1
Method: SW846 8015B NM - Dies					_			
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/23/23 08:48	05/23/23 18:25	1
Diesel Range Organics (Over	<49.9	U *+	49.9	mg/Kg		05/23/23 08:48	05/23/23 18:25	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/23/23 08:48	05/23/23 18:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130			05/23/23 08:48	05/23/23 18:25	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

122

Analyte Result Qualifier RL Unit D Prepared Dil Fac Analyzed 5.05 mg/Kg 05/23/23 19:06 Chloride 220

70 - 130

Client Sample ID: PH02

Date Collected: 05/19/23 10:50 Date Received: 05/22/23 08:16

Sample Depth: 1

o-Terphenyl

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/23/23 11:11	05/25/23 16:00	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/23/23 11:11	05/25/23 16:00	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/23/23 11:11	05/25/23 16:00	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/23/23 11:11	05/25/23 16:00	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/23/23 11:11	05/25/23 16:00	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/23/23 11:11	05/25/23 16:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130			05/23/23 11:11	05/25/23 16:00	

Eurofins Carlsbad

Matrix: Solid

Job ID: 890-4701-1

Client: Ensolum Project/Site: Outrider 28 Pad B SDG: 03C1558193

Client Sample ID: PH02 Lab Sample ID: 890-4701-2 Matrix: Solid

Date Collected: 05/19/23 10:50 Date Received: 05/22/23 08:16

Sample Depth: 1

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

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	75	70 _ 130	05/23/23 11:11	05/25/23 16:00	1

Method: TAI	SOP Total BTEX	- Total RTFY	Calculation

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398 U	0.00398	ma/Ka			05/26/23 17:23	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (0	н						
	ı	Mothod: CIMOAC ODAE NIM	Discal Bangs	Organica	(DDO)		١.
	н	MELITOU. SYVO40 OUTS INIVI-	· Diesei Kaliue	Organics	IURUI	uu	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			05/24/23 09:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		05/23/23 08:48	05/23/23 18:47	1
Diesel Range Organics (Over C10-C28)	<49.8	U *+	49.8	mg/Kg		05/23/23 08:48	05/23/23 18:47	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/23/23 08:48	05/23/23 18:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	119	70 - 130	05/23/23 08:48	05/23/23 18:47	1
o-Terphenyl	134 S1+	70 - 130	05/23/23 08:48	05/23/23 18:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	188		5.02	mg/Kg			05/23/23 19:11	1	

Client Sample ID: PH03 Lab Sample ID: 890-4701-3

Date Collected: 05/19/23 12:50 Date Received: 05/22/23 08:16

Sample Depth: 3

ı	Method: SW846 8021B	Valatila Ossasia	O = (OO)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/23/23 11:11	05/25/23 16:21	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/23/23 11:11	05/25/23 16:21	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/23/23 11:11	05/25/23 16:21	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/23/23 11:11	05/25/23 16:21	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/23/23 11:11	05/25/23 16:21	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/23/23 11:11	05/25/23 16:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130			05/23/23 11:11	05/25/23 16:21	1
4.4.Diff	70		70 400			05/00/00 44:44	05/05/00 46:04	

4-Bromofluorobenzene (Surr)	88	70 - 130	05/23/23 11:11	05/25/23 16:21	1
1,4-Difluorobenzene (Surr)	70	70 - 130	05/23/23 11:11	05/25/23 16:21	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			05/26/23 17:23	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/24/23 09:55	1

Eurofins Carlsbad

Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-4701-3

Lab Sample ID: 890-4701-4

Matrix: Solid

Client Sample Results

Client: Ensolum Job ID: 890-4701-1
Project/Site: Outrider 28 Pad B SDG: 03C1558193

Client Sample ID: PH03

Date Collected: 05/19/23 12:50 Date Received: 05/22/23 08:16

Sample Depth: 3

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		05/23/23 08:48	05/23/23 19:09	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U *+	50.0	mg/Kg		05/23/23 08:48	05/23/23 19:09	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/23/23 08:48	05/23/23 19:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130			05/23/23 08:48	05/23/23 19:09	1
o-Terphenyl	126		70 - 130			05/23/23 08:48	05/23/23 19:09	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
				mg/Kg				

Client Sample ID: PH04

Date Collected: 05/19/23 12:30

Date Received: 05/22/23 08:16

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		05/23/23 11:11	05/25/23 16:41	1
Toluene	<0.00201	U	0.00201	mg/Kg		05/23/23 11:11	05/25/23 16:41	1
Ethylbenzene	< 0.00201	U	0.00201	mg/Kg		05/23/23 11:11	05/25/23 16:41	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		05/23/23 11:11	05/25/23 16:41	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		05/23/23 11:11	05/25/23 16:41	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		05/23/23 11:11	05/25/23 16:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130			05/23/23 11:11	05/25/23 16:41	1
1,4-Difluorobenzene (Surr)	85		70 - 130			05/23/23 11:11	05/25/23 16:41	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			05/26/23 17:23	1
Method: SW846 8015 NM - Diese	Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/24/23 09:55	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/23/23 08:48	05/23/23 19:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U *+	50.0	mg/Kg		05/23/23 08:48	05/23/23 19:31	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/23/23 08:48	05/23/23 19:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
	400		70 - 130			05/23/23 08:48	05/23/23 19:31	
1-Chlorooctane	109		70 - 730			03/23/23 00.40	03/23/23 13.31	,

Eurofins Carlsbad

3

4

ŏ

10

12

Client Sample Results

Client: Ensolum Job ID: 890-4701-1 Project/Site: Outrider 28 Pad B SDG: 03C1558193

Client Sample ID: PH04 Lab Sample ID: 890-4701-4

Date Collected: 05/19/23 12:30 Matrix: Solid

Date Received: 05/22/23 08:16 Sample Depth: 4

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier Dil Fac RL Unit D Prepared Analyzed 4.98 05/23/23 19:22 Chloride 1350 mg/Kg

DFBZ = 1,4-Difluorobenzene (Surr)

Surrogate Summary

Job ID: 890-4701-1 Client: Ensolum Project/Site: Outrider 28 Pad B SDG: 03C1558193

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)	
890-4697-A-1-E MS	Matrix Spike	113	103	
890-4697-A-1-F MSD	Matrix Spike Duplicate	115	103	
890-4701-1	PH01	84	90	
890-4701-2	PH02	93	75	
890-4701-3	PH03	88	70	
890-4701-4	PH04	106	85	
LCS 880-53970/1-A	Lab Control Sample	107	91	
LCSD 880-53970/2-A	Lab Control Sample Dup	117	99	
MB 880-53970/5-A	Method Blank	69 S1-	80	
Surrogate Legend				

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

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

				Percent Surrogate Recovery (Acceptance Limits
		1CO1	OTPH1	
b Sample ID	Client Sample ID	(70-130)	(70-130)	
0-4700-A-21-B MS	Matrix Spike	115	107	
0-4700-A-21-C MSD	Matrix Spike Duplicate	109	98	
0-4701-1	PH01	103	122	
0-4701-2	PH02	119	134 S1+	
0-4701-3	PH03	110	126	
0-4701-4	PH04	109	127	
S 880-53947/2-A	Lab Control Sample	91	99	
SD 880-53947/3-A	Lab Control Sample Dup	91	98	
3 880-53947/1-A	Method Blank	168 S1+	195 S1+	

1CO = 1-Chlorooctane OTPH = o-Terphenyl

 Client: Ensolum
 Job ID: 890-4701-1

 Project/Site: Outrider 28 Pad B
 SDG: 03C1558193

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-53970/5-A

Matrix: Solid Analysis Batch: 54128 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 53970

	MB	MR						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/23/23 11:11	05/25/23 11:11	
Toluene	<0.00200	U	0.00200	mg/Kg		05/23/23 11:11	05/25/23 11:11	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/23/23 11:11	05/25/23 11:11	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/23/23 11:11	05/25/23 11:11	
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/23/23 11:11	05/25/23 11:11	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/23/23 11:11	05/25/23 11:11	

MB MB

MD MD

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	69	S1-	70 - 130	05/23/23 11:11	05/25/23 11:11	1
1.4-Difluorobenzene (Surr)	80		70 - 130	05/23/23 11:11	05/25/23 11:11	1

Lab Sample ID: LCS 880-53970/1-A

Matrix: Solid

Analysis Batch: 54128

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 53970

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1073 mg/Kg 107 70 - 130 Toluene 0.100 0.09785 mg/Kg 98 70 - 130 0.100 Ethylbenzene 0.1007 mg/Kg 101 70 - 130 0.200 0.2080 104 70 - 130 m-Xylene & p-Xylene mg/Kg 0.100 70 - 130 o-Xylene 0.1051 mg/Kg 105

LCS LCS

Surrogate	%Recovery (Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: LCSD 880-53970/2-A

Matrix: Solid

Analysis Batch: 54128

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 53970

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1172		mg/Kg		117	70 - 130	9	35	
Toluene	0.100	0.1015		mg/Kg		101	70 - 130	4	35	
Ethylbenzene	0.100	0.1084		mg/Kg		108	70 - 130	7	35	
m-Xylene & p-Xylene	0.200	0.2291		mg/Kg		115	70 - 130	10	35	
o-Xylene	0.100	0.1165		mg/Kg		117	70 - 130	10	35	

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits		
4-Bromofluorobenzene (Surr)	117		70 - 130		
1.4-Difluorobenzene (Surr)	99		70 - 130		

Lab Sample ID: 890-4697-A-1-E MS

Matrix: Solid

Analysis Batch: 54128

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 53970

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.0998	0.1171		mg/Kg		117	70 - 130	
Toluene	< 0.00199	U	0.0998	0.1083		mg/Kg		108	70 - 130	

Eurofins Carlsbad

2

4

6

1

8

10

12

QC Sample Results

Job ID: 890-4701-1 Client: Ensolum Project/Site: Outrider 28 Pad B SDG: 03C1558193

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

Lab Sample ID: 890-4697-A-1-E MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 54128

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00199	U	0.0998	0.1155		mg/Kg		116	70 - 130	
m-Xylene & p-Xylene	<0.00398	U	0.200	0.2391		mg/Kg		120	70 - 130	
o-Xylene	< 0.00199	U	0.0998	0.1196		mg/Kg		120	70 - 130	

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	113	70 - 130
1,4-Difluorobenzene (Surr)	103	70 - 130

Lab Sample ID: 890-4697-A-1-F MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 54128

Prep Type: Total/NA Prep Batch: 53970

RPD

Prep Batch: 53970

Sample Sample Spike MSD MSD Result Qualifier Added Result Qualifier %Rec RPD Limit Analyte Unit Limits 0.100 Benzene <0.00199 U 0.1131 mg/Kg 113 70 - 130 3 35 Toluene <0.00199 U 0.100 0.1023 mg/Kg 102 70 - 130 6 35 Ethylbenzene <0.00199 U 0.100 0.1112 111 70 - 130 35 mg/Kg 4 0.200 70 - 130 35 m-Xylene & p-Xylene <0.00398 U 0.2290 mg/Kg 114 0.100 <0.00199 U 0.1151 70 - 130 o-Xylene mg/Kg 115

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

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

Lab Sample ID: MB 880-53947/1-A

Matrix: Solid

Analysis Batch: 53936

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

Prep Batch: 53947

MB MB Result Qualifier RL Unit D Prepared Analyzed Dil Fac Analyte 50.0 05/23/23 08:48 05/23/23 08:52 <50.0 U Gasoline Range Organics mg/Kg (GRO)-C6-C10 05/23/23 08:48 05/23/23 08:52 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg C10-C28) OII Range Organics (Over C28-C36) <50.0 U 50.0 05/23/23 08:48 05/23/23 08:52 mg/Kg

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	168	S1+	70 - 130	05/23/23 08:48	05/23/23 08:52	1
o-Terphenyl	195	S1+	70 - 130	05/23/23 08:48	05/23/23 08:52	1

Lab Sample ID: LCS 880-53947/2-A

Matrix: Solid

Analysis Batch: 53936

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

Prep Batch: 53947

		\$	Spike	LCS	LCS				%Rec	
	Analyte	A	dded	Result	Qualifier	Unit	D	%Rec	Limits	
	Gasoline Range Organics		1000	1061		mg/Kg		106	70 - 130	
	(GRO)-C6-C10									
	Diesel Range Organics (Over		1000	1399	*+	mg/Kg		140	70 - 130	
ı	C10 C28)									

Eurofins Carlsbad

Released to Imaging: 9/13/2023 10:51:16 AM

Job ID: 890-4701-1 Client: Ensolum Project/Site: Outrider 28 Pad B SDG: 03C1558193

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

LCS LCS

%Recovery Qualifier

Lab Sample ID: LCS 880-53947/2-A Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 53936

Prep Type: Total/NA

Prep Batch: 53947

1-Chlorooctane 91 70 - 130 o-Terphenyl 99 70 - 130

Lab Sample ID: LCSD 880-53947/3-A Client Sample ID: Lab Control Sample Dup

Limits

1000

Matrix: Solid

Surrogate

Analysis Batch: 53936

Diesel Range Organics (Over

70 - 130

130

Prep Type: Total/NA Prep Batch: 53947

Spike LCSD LCSD %Rec RPD Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 1007 101 70 - 1305 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10

1300

mg/Kg

C10-C28)

Analyte

LCSD LCSD

Surrogate	%Recovery Qua	lifier Limits
1-Chlorooctane	91	70 - 130
o-Terphenyl	98	70 - 130

Lab Sample ID: 890-4700-A-21-B MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 53936

Prep Type: Total/NA

Prep Batch: 53947

Spike MS MS Sample Sample Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.9 U 1000 1085 mg/Kg 106 70 - 130 (GRO)-C6-C10 2390 *+ F1 Diesel Range Organics (Over 1000 2847 F1 mg/Kg 46 70 - 130 C10-C28)

MS MS %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 115 o-Terphenyl 107 70 - 130

Lab Sample ID: 890-4700-A-21-C MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 53936 Prep Batch: 53947 MSD MSD %Rec

Sample Sample RPD Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit <49.9 U 998 1053 103 Gasoline Range Organics mg/Kg 70 - 130 20 (GRO)-C6-C10 Diesel Range Organics (Over 2390 *+ F1 998 2702 F1 mg/Kg 31 70 - 130 20 C10-C28)

MSD MSD %Recovery Qualifier Surrogate

Limits 1-Chlorooctane 109 70 - 130 98 70 - 130 o-Terphenyl

Eurofins Carlsbad

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Client Sample ID: Matrix Spike

Job ID: 890-4701-1

Client: Ensolum SDG: 03C1558193 Project/Site: Outrider 28 Pad B

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-53879/1-A

Matrix: Solid

Analysis Batch: 53997

МВ	MB

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			05/23/23 16:39	1

Lab Sample ID: LCS 880-53879/2-A

Matrix: Solid

Analysis Batch: 53997

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	254.0		mg/Kg		102	90 - 110	

Lab Sample ID: LCSD 880-53879/3-A

Matrix: Solid

Analysis Batch: 53997

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	253.7		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 880-28639-A-1-B MS

Matrix: Solid

Analysis Batch: 53997

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	84.6	F1	249	365.4	F1	mg/Kg	_	113	90 - 110	

Lab Sample ID: 880-28639-A-1-C MSD

Matrix: Solid

Analysis Batch: 53997

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	84.6	F1	249	366.9	F1	mg/Kg		113	90 - 110	0	20

QC Association Summary

Client: Ensolum Job ID: 890-4701-1 Project/Site: Outrider 28 Pad B SDG: 03C1558193

GC VOA

Prep Batch: 53970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4701-1	PH01	Total/NA	Solid	5035	
890-4701-2	PH02	Total/NA	Solid	5035	
890-4701-3	PH03	Total/NA	Solid	5035	
890-4701-4	PH04	Total/NA	Solid	5035	
MB 880-53970/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-53970/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-53970/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4697-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
890-4697-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 54128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4701-1	PH01	Total/NA	Solid	8021B	53970
890-4701-2	PH02	Total/NA	Solid	8021B	53970
890-4701-3	PH03	Total/NA	Solid	8021B	53970
890-4701-4	PH04	Total/NA	Solid	8021B	53970
MB 880-53970/5-A	Method Blank	Total/NA	Solid	8021B	53970
LCS 880-53970/1-A	Lab Control Sample	Total/NA	Solid	8021B	53970
LCSD 880-53970/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	53970
890-4697-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	53970
890-4697-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	53970

Analysis Batch: 54280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4701-1	PH01	Total/NA	Solid	Total BTEX	
890-4701-2	PH02	Total/NA	Solid	Total BTEX	
890-4701-3	PH03	Total/NA	Solid	Total BTEX	
890-4701-4	PH04	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 53936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4701-1	PH01	Total/NA	Solid	8015B NM	53947
890-4701-2	PH02	Total/NA	Solid	8015B NM	53947
890-4701-3	PH03	Total/NA	Solid	8015B NM	53947
890-4701-4	PH04	Total/NA	Solid	8015B NM	53947
MB 880-53947/1-A	Method Blank	Total/NA	Solid	8015B NM	53947
LCS 880-53947/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	53947
LCSD 880-53947/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	53947
890-4700-A-21-B MS	Matrix Spike	Total/NA	Solid	8015B NM	53947
890-4700-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	53947

Prep Batch: 53947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4701-1	PH01	Total/NA	Solid	8015NM Prep	
890-4701-2	PH02	Total/NA	Solid	8015NM Prep	
890-4701-3	PH03	Total/NA	Solid	8015NM Prep	
890-4701-4	PH04	Total/NA	Solid	8015NM Prep	
MB 880-53947/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-53947/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

Eurofins Carlsbad

QC Association Summary

Client: Ensolum Job ID: 890-4701-1
Project/Site: Outrider 28 Pad B SDG: 03C1558193

GC Semi VOA (Continued)

Prep Batch: 53947 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-53947/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4700-A-21-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4700-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 54055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch
890-4701-1	PH01	Total/NA	Solid	8015 NM
890-4701-2	PH02	Total/NA	Solid	8015 NM
890-4701-3	PH03	Total/NA	Solid	8015 NM
890-4701-4	PH04	Total/NA	Solid	8015 NM

HPLC/IC

Leach Batch: 53879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4701-1	PH01	Soluble	Solid	DI Leach	
890-4701-2	PH02	Soluble	Solid	DI Leach	
890-4701-3	PH03	Soluble	Solid	DI Leach	
890-4701-4	PH04	Soluble	Solid	DI Leach	
MB 880-53879/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-53879/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-53879/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-28639-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-28639-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 53997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4701-1	PH01	Soluble	Solid	300.0	53879
890-4701-2	PH02	Soluble	Solid	300.0	53879
890-4701-3	PH03	Soluble	Solid	300.0	53879
890-4701-4	PH04	Soluble	Solid	300.0	53879
MB 880-53879/1-A	Method Blank	Soluble	Solid	300.0	53879
LCS 880-53879/2-A	Lab Control Sample	Soluble	Solid	300.0	53879
LCSD 880-53879/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	53879
880-28639-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	53879
880-28639-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	53879

Eurofins Carlsbad

_1

3

4

6

8

9

13

Client Sample ID: PH01

Project/Site: Outrider 28 Pad B

Client: Ensolum

Date Collected: 05/19/23 11:00 Date Received: 05/22/23 08:16 Lab Sample ID: 890-4701-1

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	53970	05/23/23 11:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54128	05/25/23 13:36	SM	EET MID
Total/NA	Analysis	Total BTEX		1			54280	05/26/23 17:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			54055	05/24/23 09:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	53947	05/23/23 08:48	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53936	05/23/23 18:25	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	53879	05/22/23 12:18	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	53997	05/23/23 19:06	SMC	EET MID

Client Sample ID: PH02 Lab Sample ID: 890-4701-2

Date Collected: 05/19/23 10:50 Date Received: 05/22/23 08:16 Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	53970	05/23/23 11:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54128	05/25/23 16:00	SM	EET MID
Total/NA	Analysis	Total BTEX		1			54280	05/26/23 17:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			54055	05/24/23 09:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	53947	05/23/23 08:48	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53936	05/23/23 18:47	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	53879	05/22/23 12:18	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	53997	05/23/23 19:11	SMC	EET MID

Client Sample ID: PH03

Date Collected: 05/19/23 12:50 Date Received: 05/22/23 08:16 Lab Sample ID: 890-4701-3

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	53970	05/23/23 11:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54128	05/25/23 16:21	SM	EET MID
Total/NA	Analysis	Total BTEX		1			54280	05/26/23 17:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			54055	05/24/23 09:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	53947	05/23/23 08:48	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53936	05/23/23 19:09	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	53879	05/22/23 12:18	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	53997	05/23/23 19:17	SMC	EET MID

Client Sample ID: PH04

Date Collected: 05/19/23 12:30

Date Received: 05/22/23 08:16

Lab Sample ID:	890-4701-4
----------------	------------

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	53970	05/23/23 11:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54128	05/25/23 16:41	SM	EET MID
Total/NA	Analysis	Total BTEX		1			54280	05/26/23 17:23	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum Job ID: 890-4701-1
Project/Site: Outrider 28 Pad B SDG: 03C1558193

Client Sample ID: PH04

Lab Sample ID: 890-4701-4

Matrix: Solid

Date Collected: 05/19/23 12:30 Date Received: 05/22/23 08:16

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			54055	05/24/23 09:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	53947	05/23/23 08:48	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53936	05/23/23 19:31	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	53879	05/22/23 12:18	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	53997	05/23/23 19:22	SMC	EET MID

Laboratory References:

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

10

13

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Outrider 28 Pad B
SDG: 03C1558193

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, but	it the laboratory is not certific	ed by the governing authority. This list ma	av include analytes fo
the agency does not of	• •	it the laboratory is not certain	su by the governing authority. This list his	ay include analytes to
,	• •	Matrix	Analyte	ay include analytes to
the agency does not of	fer certification.	,	, , ,	ay illoude allalytes lo

1

3

4

5

7

10

12

Method Summary

Client: Ensolum Job ID: 890-4701-1
Project/Site: Outrider 28 Pad B SDG: 03C1558193

Method **Method Description** Protocol Laboratory 8021B Volatile Organic Compounds (GC) SW846 EET MID Total BTEX Calculation TAL SOP Total BTEX 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 **EET MID** Closed System Purge and Trap SW846 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

6

5

7

0

10

12

IJ

Sample Summary

Client: Ensolum

Project/Site: Outrider 28 Pad B

Job ID: 890-4701-1

SDG: 03C1558193

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4701-1	PH01	Solid	05/19/23 11:00	05/22/23 08:16	1
890-4701-2	PH02	Solid	05/19/23 10:50	05/22/23 08:16	1
890-4701-3	PH03	Solid	05/19/23 12:50	05/22/23 08:16	3
890-4701-4	PH04	Solid	05/19/23 12:30	05/22/23 08:16	4

Relinquished by: (Signature)

Received by: (Signature)

8:10 5/22/23

Date/Time

Relinquished by: (Signature)

16 25 99.3x

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

Received by: (Signature)

Date/Time

eurofins **Environment Testing** Kenco

Phone:

City, State ZIP:

SAMPLE RECEIPT Samples Received Intact:

Sampler's Name: Project Location:

Chain of Custody

Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443 Hobbs, NM (575) 392-7550 Houston, TX (281) 240-4200, Dailas, TX (214) 902-0300

Work Order No:

roject Manager: Ben	Ben Belill			Bill to: (if different)		Garrett Green		Work Order Comments	Comments
	Ensolum			Company Name:		XTO Energy	Progran	Program: UST/PST ☐ PRP☐ Brownfields ☐ RRC ☐	vnfields ☐ RRC ☐ Superfund ☐
	3122 National Parks Hwy	s Hwy		Address:		3104 E. Green St	State of Project:	Project:	
e ZIP:	Carlsbad, NM 88220	0		City, State ZIP:		Carlsbad, NM 88220	Reportin	Reporting: Level III Level III PST/UST TRRP	ST/UST TRRP Level IV
	303-887-2946		Email:	Email: Garrett.Green@ExxonMobil.com	@Exx	nMobil.com	Delivera	Deliverables: EDD	ADaPT Other:
roiect Name:	Outrider 28 Pad B	Pad B	Turn	Turn Around			ANALYSIS REQUEST		Preservative Codes
roject Number:	03C1558193	3193	✓ Routine	Rush	Pres.				None: NO DI Water: H ₂ O
roject Location:			Due Date:						Cool: Cool MeOH: Me
ampler's Name:	Connor Whitman	hitman	TAT starts the	TAT starts the day received by				_	HCL: HC HNO3: HN
90 #			the lab, if rec	the lab, if received by 4:30pm	rs				H ₂ SO ₄ : H ₂ NaOH: Na
SAMPLE RECEIPT	Temp Blank:	Yes No	Wet Ice:	Yes No	nete	0.0)			H ₃ PO ₄ : HP
amples Received Intact:	Yes No	Thermometer ID:	er ID:	MOS	arar	3000			NaHSO ₄ : NABIS
cooler Custody Seals:	Yes No	MA Correction Factor:	actor:	000	Pa	PA:			Na ₂ S ₂ O ₃ : NaSO ₃
ample Custody Seals:	Yes No N/A	A Temperature Reading:	Reading	00.0)	890-4701 Chain of Custody	louy	Ala Out-Assorbio Acid: SABO
Otal Containors.		Concome tomporation	on por accord.			801			
Sample Identification	ation Matrix	Date Sampled	Time Sampled	Depth Grab/	# of Cont	TPH (86			Sample Comments
(Ha)	4	5/19/23	ileo	3 -	-	///			Incident ID:
PHOZ			050	1	-	///			NAPP2306936047
P1103			1250	3	-	///			
40 To		_	1230	4	-				Cost Center:
/									2221531001
									AFE:
						23			
						1			
Total 200.7 / 6010	200.8 / 6020:	8	8RCRA 13PP	13PPM Texas 11	Al Sb	Al Sb As Ba Be B Cd Ca C	Cd Ca Cr Co Cu Fe Pb Mg Mn Mo	00 Ni K Se Ag SiO₂ Na	Va Sr TI Sn U V Zn
ircle Method(s) and Metal(s) to be analyzed	/letal(s) to be an		TCLP / SF	LP 6010: 8R	CRA	TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo	13		Hg: 1631 / 245.1 / 7470 / 7471
stone Stone that document and altonutable constitutes a valid our base order from client commany to Eurofina Xenco, its affiliates and subcontractors. It assigns standard terms and conditions	ment and relinquiehme								

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4701-1 SDG Number: 03C1558193

Login Number: 4701 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: 890-4701-1 SDG Number: 03C1558193

> **List Source: Eurofins Midland** List Creation: 05/23/23 10:47 AM

Creator: Rodriguez, Leticia

Login Number: 4701

List Number: 2

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").



APPENDIX E

NMOCD Notifications

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

To: <u>Tacoma Morrissey</u>; <u>Ben Belill</u>

Subject: Fwd: [EXTERNAL] XTO - Sampling Notification (Week of 5/15/23 - 5/19/23)

Date: Friday, May 12, 2023 5:50:39 PM

[**EXTERNAL EMAIL**]

Sent from my iPhone

Begin forwarded message:

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

Date: May 12, 2023 at 4:02:13 PM MDT

To: "Green, Garrett J" <garrett.green@exxonmobil.com>

Cc: "Bratcher, Michael, EMNRD" <mike.bratcher@emnrd.nm.gov>, "Hamlet,

Robert, EMNRD" <Robert.Hamlet@emnrd.nm.gov>

Subject: RE: [EXTERNAL] XTO - Sampling Notification (Week of 5/15/23 -

5/19/23)

External Email - Think Before You Click

Garrett,

Please be aware that notification requirements are **two business days**, per rule. When sampling at multiple sites, a more detailed schedule of days at each site should be provide. You may proceed on your schedule. This, and all correspondence, should be included in the closure report to insure inclusion 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 | Jocelyn.Harimon@emnrd.nm.gov

http://www.emnrd.nm.gov



From: Green, Garrett J <garrett.green@exxonmobil.com>

Sent: Thursday, May 11, 2023 11:04 AM

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

 $\textbf{Cc:} \ \ \textbf{DelawareSpills} \ \ \textbf{/SM < DelawareSpills@exxonmobil.com>;} \ \ \textbf{Tacoma Morrissey}$

<tmorrissey@ensolum.com>

Subject: [EXTERNAL] XTO - Sampling Notification (Week of 5/15/23 - 5/19/23)

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

All,

XTO plans to complete final sampling activities at the sites listed below for the week of May 15, 2023.

Monday

- Ross Draw 3031/ nAPP2227244441 & NAPP2300442748

Tuesday

- Ross Draw 3031/ nAPP2227244441 and NAPP2300442748
- Outrider Fed 28 Pad B / NAPP2306936047

Wednesday

Outrider Fed 28 Pad B / NAPP2306936047

Thursday

- Outrider Fed 28 Pad B / NAPP2306936047
- PLU PC 17 BATTERY/ nAPP2233951574

Friday

- Sizzler 2H / NMAP1822337753
- PLU PC 17 BATTERY/ nAPP2233951574
- JRU 108 / nAPP2217931599

Thank you,

Garrett Green

Environmental Coordinator Delaware Business Unit (575) 200-0729

Garrett.Green@ExxonMobil.com

XTO Energy, Inc.

3104 E. Greene Street | Carlsbad, NM 88220 | M: (575)200-0729

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

To: ocd.enviro (ocd.enviro@emnrd.nm.gov); Bratcher, Michael, EMNRD (mike.bratcher@emnrd.nm.gov); Hamlet,

Robert, EMNRD (Robert, Hamlet@emnrd.nm.gov); Harimon, Jocelyn, EMNRD (Jocelyn, Harimon@emnrd.nm.gov)

Cc: <u>Green, Garrett J</u>; <u>Ben Belill</u>; <u>Tacoma Morrissey</u>; <u>DelawareSpills /SM</u>

Subject: XTO - Extension Request - Outrider Fed 28 Pad B - Incident Number NAPP2306936047

Date: Thursday, May 25, 2023 3:20:34 PM

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

[**EXTERNAL EMAIL**]

All,

XTO is requesting an extension for the current deadline of May 25, 2023 for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC at the Outrider Fed 28 Pad B (Incident Number NAPP2306936047). The release occurred on February 24, 2023, and initial site assessment activities have been completed. However, due to XTO onsite operations, including frac and flowback operations, further remediation activities were postponed to ensure the safety of all onsite personnel. Delineation activities were completed on May 19, 2023, and laboratory analytical results are currently pending. To review the laboratory analytical results and complete additional remediation activities or submit a remediation work plan or closure report, XTO requests an extension until August 23, 2023.

Thanks.

Melanie Collins



Environmental Technician

melanie.collins@exxonmobil.com

432-556-3756

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

District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III 1000 Rio Brazos Rd., Aztec, NM 87410

Phone:(505) 334-6178 Fax:(505) 334-6170

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

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

CONDITIONS

Action 226898

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	226898
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	9/13/2023