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	NAPP2306054654
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	XTO	Energy		OGRID 5	5380	
Contact Name Gar				Contact Te	elephone 575-200.	-0729
Contact email garr	rett.gree	n@exxonmobil.c	om	Incident #	(assigned by OCD)	
Contact mailing ac				w Mexico, 88220		
			Location	of Release So	ource	
Latitude 32.1824	12			Longitude _	-103.68631	
			(NAD 83 in dec	cimal degrees to 5 decim	nal places)	
Site Name Outrid	ler 28 F	ed 501H		Site Type I	Production Well	
Date Release Disco	overed	02/15/2023		API# (if app	licable)	
	. 1			-		
Unit Letter Sec	ction	Township	Range	Coun	ty	
M 2	28	24S	32E	Lea		
Surface Owner:			Nature and	l Volume of F)
Crude Oil	Material	Volume Release		calculations or specific	Volume Recove	
Produced Wate	er	Volume Release	d (bbls)		Volume Recove	ered (bbls)
			ion of total dissolv water >10,000 mg	` '	☐ Yes ☐ No	
Condensate		Volume Release	d (bbls)		Volume Recove	ered (bbls)
☐ Natural Gas		Volume Release	d (Mcf)		Volume Recove	ered (Mcf)
X Other (describe	e)	Volume/Weight	Released (provide	e units)	Volume/Weigh	t Recovered (provide units)
Produced Water w	/FR	20.00			5.00	
Cause of Release I	During 1	frac operations a 2 ed. A third-party	2" plug valve wash contractor has bee	ned out, resulting in n retained for reme	a fluid release or diation purposes.	nto the ground. All free fluids were

Received by OCD: 8/14/2023 12:13631 PM State of New Mexico
Page 2 Oil Conservation Division

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			<u> </u>	- 3				

Incident ID	NAPP2306054654
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Was this a major	If YES, for what reason(s) does the respon	nsible party consider this a major release?
release as defined by 19.15.29.7(A) NMAC?	N/A	
, ,		
Yes 🗷 No		
If VES, was immediate n	otice given to the OCD? By whom? To w	nom? When and by what means (phone, email, etc)?
N/A	once given to the OCD. By whom: 10 wi	ioni: when and by what means (phone, eman, etc):
	I242 a.l. D	
	Initial R	esponse
The responsible	party must undertake the following actions immediate	y unless they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.	
	as been secured to protect human health and	the environment.
	•	likes, absorbent pads, or other containment devices.
	ecoverable materials have been removed an	
If all the actions describe	d above have <u>not</u> been undertaken, explain	why:
NA		
has begun, please attach	a narrative of actions to date. If remedial	emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred blease attach all information needed for closure evaluation.
		best of my knowledge and understand that pursuant to OCD rules and fications and perform corrective actions for releases which may endanger
		OCD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In
addition, OCD acceptance o		responsibility for compliance with any other federal, state, or local laws
and/or regulations. Garrett G.	raan	SSHE Coordinator
Printed Name:		Title: SSHE Coordinator
Signature:	At Sun	Date: 03/01/2023
email: garrett.green@exx	xonmobil.com	Telephone: 575-200-0729
		•
OCD Only		
Received by: Jocely	n Harimon	Date: 03/01/2023

Location:	Outrider 28 Fed 501H		
Spill Date:	2/15/2023+		
	Area 1		
Approximate A	rea =	5.61	cu.ft.
	VOLUME OF LEAK		
Total Crude Oil	=	0.00	bbls
Total Produced	Water =	1.00	bbls
	Area 2		
Approximate A	rea =	3369.00	sq. ft.
Average Satura	tion (or depth) of spill =	2.00	inches
Average Porosi	ty Factor =	0.15	
	VOLUME OF LEAK		
Total Crude Oil	=	0.00	bbls
Total Produced	Water =	19.00	bbls
	TOTAL VOLUME OF LEAK		

TOTAL VOLUME OF LEAK					
Total Crude Oil =	0.00	bbls			
Total Produced Water =	20.00	bbls			
TOTAL VOLUME RECOVERED					
Total Crude Oil =	0.00	bbls			
Total Produced Water =	5.00	bbls			

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

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

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

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

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

CONDITIONS

Action 192173

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	192173
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimor	n None	3/1/2023

re of New Mexico

Incident ID	NAPP2306054654
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? Did this release impact groundwater or surface water? Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse? Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)? Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church? 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? Are the lateral extents of the release within 1000 feet of any other fresh water well or spring? Are the lateral extents of the release within 1000 feet of any other fresh water well or spring? Are the lateral extents of the release within 1000 feet of any other fresh water well or spring? Are the lateral extents of the release within 1000 feet of a wetland? Are the lateral extents of the release within 300 feet of a wetland? Are the lateral extents of the release overlying a subsurface mine? Are the lateral extents of the release overlying an unstable area such as karst geology? Are the lateral extents of the release within a 100-year floodplain? Yes No No Are the lateral extents of the release within a 100-year floodplain? Did the release impact areas not on an exploration, development, production, or storage site? Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics. Characterization Report Checklist: Each of the following items must be included in the report. Characterization Report Checklist: Each of the following items must be included in the report.		
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Are the lateral extents of the release within 300 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)? Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church? 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? Are the lateral extents of the release within 1000 feet of any other fresh water well or spring? Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field? Are the lateral extents of the release within 300 feet of a wetland? Are the lateral extents of the release within 300 feet of a wetland? Are the lateral extents of the release overlying a subsurface mine? Are the lateral extents of the release overlying an unstable area such as karst geology? Are the lateral extents of the release within a 100-year floodplain? Did the release impact areas not on an exploration, development, production, or storage site? Characterization Report Checklist: Each of the following items must be included in the report. Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information Topographic/Aerial maps	Did this release impact groundwater or surface water?	☐ Yes ⊠ No
ordinary high-water mark)? Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church? 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? Are the lateral extents of the release within 1000 feet of any other fresh water well or spring? Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field? Are the lateral extents of the release within 300 feet of a wetland? Are the lateral extents of the release overlying a subsurface mine? Are the lateral extents of the release overlying an unstable area such as karst geology? Are the lateral extents of the release overlying an unstable area such as karst geology? Are the lateral extents of the release within a 100-year floodplain? Did the release impact areas not on an exploration, development, production, or storage site? Ohatach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics. Characterization Report Checklist: Each of the following items must be included in the report. Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information Topographs including date and GIS information	, , , , , , , , , , , , , , , , , , ,	☐ Yes ⊠ No
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by less than five households for domestic or stock watering purposes? Are the lateral extents of the release within 1000 feet of any other fresh water well or spring? Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field? Are the lateral extents of the release within 300 feet of a wetland? Are the lateral extents of the release overlying a subsurface mine? Are the lateral extents of the release overlying an unstable area such as karst geology? Are the lateral extents of the release within a 100-year floodplain? Did the release impact areas not on an exploration, development, production, or storage site? Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics. Characterization Report Checklist: Each of the following items must be included in the report. Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographic/Aerial maps		☐ Yes ⊠ No
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Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information Topographic/Aerial maps		rtical extents of soil
Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information Topographic/Aerial maps	Characterization Report Checklist: Each of the following items must be included in the report.	
	Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information Topographic/Aerial maps	lls.

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: 8/14/2023 12:11:31 PM Form C-141 State of New Mexico Page 5 Oil Conservation Division

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Incident ID	NAPP2306054654	
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Application ID		

regulations all operators are required to report and/or file certain public health or the environment. The acceptance of a C-141 repfailed to adequately investigate and remediate contamination that	plete to the best of my knowledge and understand that pursuant to OCD rules and release notifications and perform corrective actions for releases which may endanger bort by the OCD does not relieve the operator of liability should their operations have to pose a threat to groundwater, surface water, human health or the environment. In operator of responsibility for compliance with any other federal, state, or local laws
Printed Name: _Garrett Green	_ Title: _SSHE Coordinator
Signature:Sath Sun	
email: _garrett.green@exxonmobil.com	Telephone:575-200-0729
OCD Only	
Received by: _Shelly Wells	Date: 8/14/2023

Page 7 of 117

Incident ID	NAPP2306054654
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 19.15.2	9.11 NMAC								
Note: appropriate OCD District office must be notified 2 days prior to liner inspection)									
☐ Laboratory analyses of final sampling (Note: appropriate O	DC District office must be notified 2 days prior to final sampling)								
☐ Description of remediation activities									
and regulations all operators are required to report and/or file cert may endanger public health or the environment. The acceptance should their operations have failed to adequately investigate and human health or the environment. In addition, OCD acceptance compliance with any other federal, state, or local laws and/or regulations.	plete to the best of my knowledge and understand that pursuant to OCD rules tain release notifications and perform corrective actions for releases which of a C-141 report by the OCD does not relieve the operator of liability remediate contamination that pose a threat to groundwater, surface water, of a C-141 report does not relieve the operator of responsibility for ulations. The responsible party acknowledges they must substantially conditions that existed prior to the release or their final land use in e OCD when reclamation and re-vegetation are complete.								
Printed Name: _Garrett Green	Title: _SSHE Coordinator								
Signature:	Date:7/21/2023								
email:garrett.green@exxonmobil.com	Telephone:575-200-0729								
OCD Only									
Received by:Shelly Wells	Date: _8/14/2023								
	rty of liability should their operations have failed to adequately investigate and ce water, human health, or the environment nor does not relieve the responsible nd/or regulations.								
Closure Approved by: Nelson Velez	Date:11/28/2023								
Printed Name: Nelson Velez	Title:Environmental Specialist – Adv								



July 21, 2023

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

Re: Closure Request
Outrider 28 Fed 501H
Incident Number NAPP2306054654
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, excavation, and soil sampling activities at the Outrider 28 Fed 501H (Site). The purpose of the Site assessment, excavation, and soil sampling activities was to assess for the presence or absence of impacts to soil following a release of produced water with friction reducer at the Site. Based on excavation activities and soil sample laboratory analytical results, XTO is submitting this *Closure Request*, describing remediation that has occurred and requesting closure for Incident Number NAPP2306054654.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit M, Section 28, Township 24 South, Range 32 East, in Lea County, New Mexico (32.18242°, -103.68631°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On February 15, 2023, a plug valve washed out during hydraulic fracturing (frac) operations causing approximately 20 barrels (bbls) of produced water mixed with friction reducer to release onto the surface of the well pad. A vacuum truck was immediately dispatched and recovered approximately 5 bbls of released fluids. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on March 1, 2023. The release was assigned Incident Number NAPP2306054654.

Produced water is recycled through filtering and separation, then mixed in a blender with friction reducer and used as frac fluid during the well completion process. The safety data sheet (SDS) for friction reducer is provided as Appendix A.

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 0.73 miles

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

XTO Energy, Inc Closure Request Outrider 28 Fed 501H

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 B.

The closest continuously flowing or significant watercourse to the Site is a freshwater emergent wetland, located approximately 3,914 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 from a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area).

Based on the distance of groundwater well C-4536 exceeding 0.5 miles from the Site and guidance issued by NMOCD, 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): 100 mg/kg

Chloride: 600 mg/kg

Because the release included produced water and friction reducer, the friction reducer SDS was reviewed to determine what additional constituents of concern (COCs), if any, should be assessed. According to the SDS, the friction reducer does not cotain any constituents regulated by the Clean Water Act (CWA) or the Comprehensive Environmental Response Compensation and Liability Act (CERCLA); however friction reducer does include hydro-treated petroleum distillates, which can be detected through analysis of TPH. As such, no additional COCs were assessed for this release.

SITE ASSESSMENT ACTIVITIES

On May 12, 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. Four delineation soil samples (SS01 through SS04) were collected within the release extent at a depth of 0.5 feet bgs to assess for the presence of absence of soil impacted soil. 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 C.

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 COCs: BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (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.

XTO Energy, Inc Closure Request Outrider 28 Fed 501H

Laboratory analytical results for delineation samples SS01 through SS04 indicated TPH and chloride concentrations exceeded the Site Closure Criteria. Based on the presence of impacted soil, additional delineation and excavation activities were warranted.

DELINEATION AND EXCAVATION ACTIVITIES

On May 22, 2023, Ensolum personnel returned to the Site to oversee additional delineation and excavation 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 a terminal depth of 1.5 feet bgs. Field screening results and observations for the potholes were logged on lithologic/soil sampling logs and are included in Appendix D. The delineation soil samples were field screened, handled, and analyzed as described above. The delineation soil sample locations are depicted on Figure 2.

Impacted soil was excavated from the release area as indicated by delineation soil samples SS01 through SS04, which contained TPH and chloride impacted soil. Excavation activities were performed utilizing a trackhoe and transport vehicles. The excavation occurred on the well pad. To direct excavation activities, soil was field screened for VOCs and chloride.

Following removal of the impacted soil, 5-point composite soil samples were collected every 200 square feet from the floor and sidewalls of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Confirmation soil samples FS01 through FS13 were collected from the floor of the excavation at an approximate depth of 1.5 feet bgs. Confirmation soil samples SW01 and SW02 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 1.5 feet bgs. All excavation confirmation soil samples collected were handled and analyzed following the same procedures as described above. The excavation extent and excavation confirmation soil sample locations are presented on Figure 3. Photographic documentation of the excavation is included in Appendix C.

The final excavation extent measured approximately 2,219 square feet. A total of approximately 120 cubic yards of impacted soil was removed during excavation activities. The impacted soil was transported and properly disposed of at R360 Landfill Disposal Facility in Hobbs, New Mexico. After completion of confirmation sampling, the excavation area was secured with fencing.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for excavation floor samples FS01 through FS11 and FS13 and excavation sidewall samples SW01 and SW02 indicated all COC concentrations were compliant with the Site Closure Criteria. Laboratory analytical results for excavation floor soil sample FS12 indicated chloride concentrations slightly exceeded the Site Closure Criteria. On June 1, 2023, Ensolum returned to the Site to recollect in the area of excavation floor soil sample FS12. One 5-point composite soil sample (FS12A) was collected in the vicinity of FS12 from the floor of the excavation at a depth of 1.5 feet bgs. The soil sample was collected, field screened, and handled following the same procedures described above but was submitted to Cardinal Laboratories in Hobbs, New Mexico, which can reliably provide results within a rush turnaround time of 24 hours. The soil sample was analyzed for the same COCs listed above, but chloride was analyzed following Method SM4500 Cl-B in order to achieve rush turnaround time. Laboratory analytical results for soil sample FS12A indicated all COC concentrations were compliant with the Site Closure Criteria. The difference in the results of the chloride analysis is likely related to soil heterogenity within the composite aliquots collected. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included in Appendix E. Notification of sampling events are included in Appendix F.

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CLOSURE REQUEST

Site assessment, delineation, and excavation activities were conducted at the Site to address the February 15, 2023 release of produced water with friction reducer. Laboratory analytical results for all excavation soil samples collected from the final excavation extent indicated all COC concentrations were compliant with the Site Closure Criteria. Based on laboratory analytical results, no further remediation was required. The release is fully defined laterally through the collection of composite sidewall samples SW01 and SW02, and vertically through the collection of delineation soil samples PH01 through PH04 and composite floor samples FS01 through FS13. On June 7, 2023, XTO backfilled the excavation due to XTO flowback operations needing to complete work near the excavation area. The excavation was backfilled with material purchased locally and the area was recontoured to match pre-existing site conditions. Photographic documentation of the backfill is included in Appendix C.

Excavation of impacted soil has mitigated adverse effects at this Site. 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 NAPP2306054654.

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

ashley L. ager

Principal

Ashley L. Ager, MS, PG

Sincerely, **Ensolum, LLC**

Benjamin J. Belill Project Geologist

cc: Garrett Green, XTO

Shelby Pennington, XTO

BLM

Appendices:

Figure 1 Site Receptor Map

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

Appendix A Friction Reducer SDS
Appendix B Referenced Well Records

Appendix C Photographic Log

Appendix D Lithology Soil Sampling Logs

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

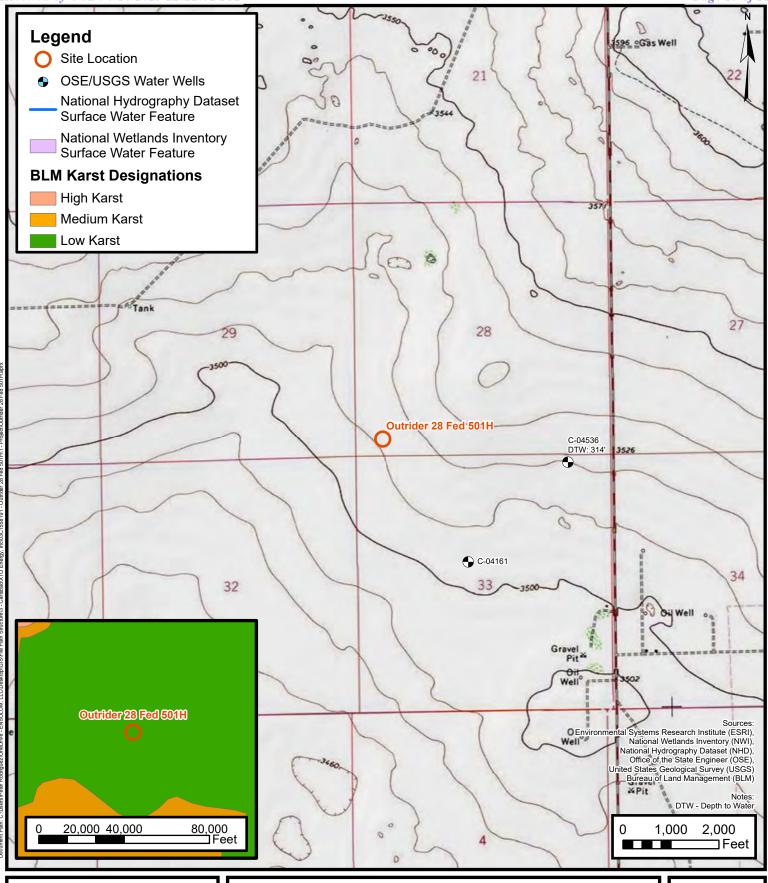
Appendix F NMOCD Notifications/Correspondence

Page 4





FIGURES



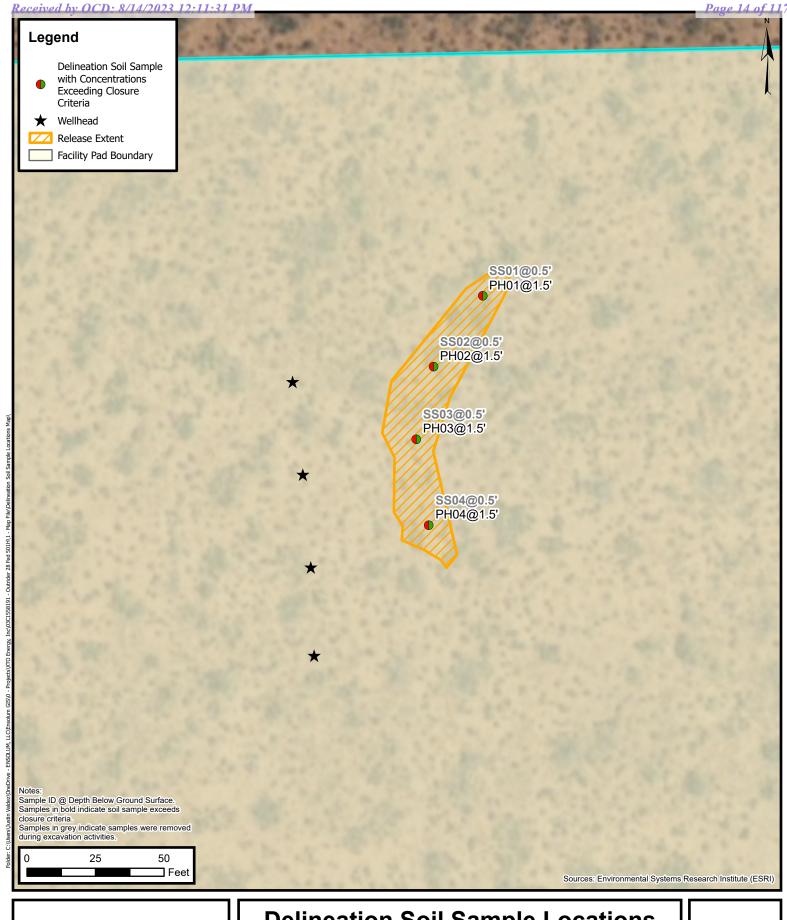


Site Receptor Map

XTO Energy, Inc Outrider 28 Fed 501H Incident Number: NAPP2306054654

Unit M, Section 28, T24S, R32E Lea County, New Mexico FIGURE

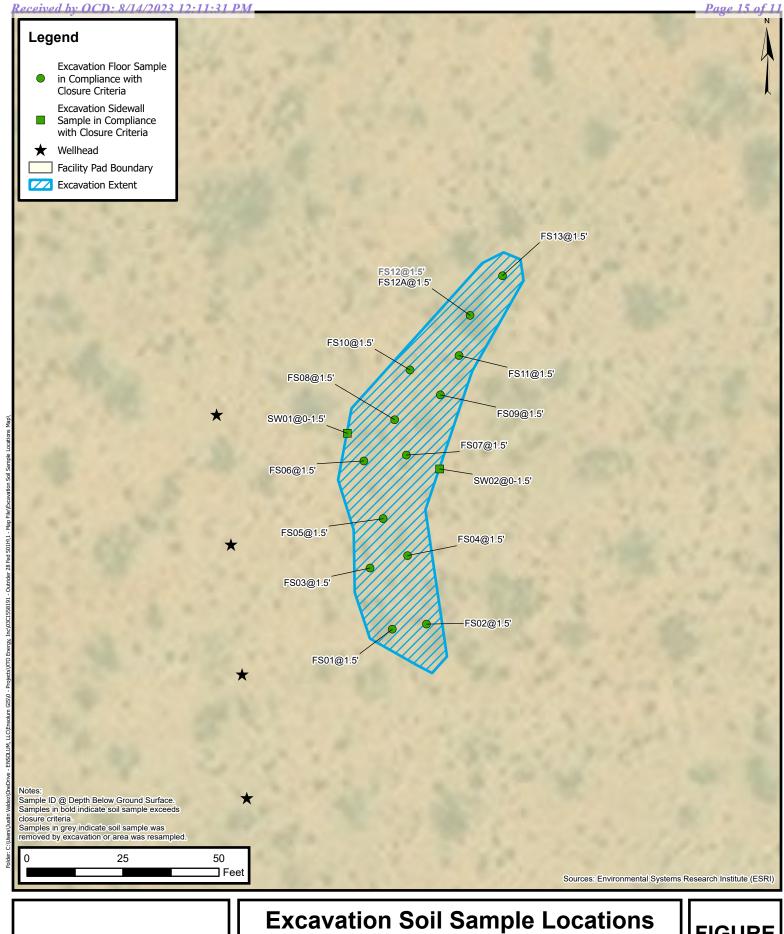
1





Delineation Soil Sample Locations

XTO Energy, Inc Outrider 28 Fed 501H Incident Number: NAPP2306054654 Unit M, Sec 28, T24S, R32E Lea County, New Mexico FIGURE 2





XTO Energy, Inc Outrider 28 Fed 501H Incident Number: NAPP2306054654 Unit M, Sec 28, T24S, R32E Lea County, New Mexico

FIGURE



TABLES



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Outrider 28 Fed 501H 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 C	Closure Criteria (I	NMAC 19.15.29)	10	50	NE	NE	NE	NE	100	600
				Deli	neation Soil Sa	mples				
SS01	05/12/2023	0.5	<0.00199	<0.00398	<49.8	443	<49.8	443	443	18,900
PH01	05/22/2023	1.5	< 0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	151
SS02	05/12/2023	0.5	<0.00200	<0.00399	<49.9	396	<49.9	396	396	19,200
PH02	05/22/2023	1.5	< 0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	182
SS03	05/12/2023	0.5	<0.00201	<0.00402	<49.8	854	<49.8	854	854	121,000
PH03	05/22/2023	1.5	< 0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	90.8
SS04	05/12/2023	0.5	<0.00200	<0.00401	<49.9	1100	<49.9	1,100	1,100	28,800
PH04	05/22/2023	1.5	< 0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	108
				Conf	irmation Soil Sa	amples				
FS01	05/22/2023	1.5	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	136
FS02	05/22/2023	1.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	147
FS03	05/22/2023	1.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	133
FS04	05/22/2023	1.5	<0.00200	< 0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	147
FS05	05/22/2023	1.5	< 0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	95.7
FS06	05/22/2023	1.5	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	64.2
FS07	05/22/2023	1.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	121
FS08	05/22/2023	1.5	< 0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	167
FS09	05/22/2023	1.5	<0.00200	< 0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	435
FS10	05/22/2023	1.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	174
FS11	05/22/2023	1.5	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	192
FS12	05/22/2023	1.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	758
FS12A	06/01/2023	1.5	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS13	05/22/2023	1.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	375
SW01	05/22/2023	0 - 1.5	<0.00200	< 0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	122
SW02	05/22/2023	0 - 1.5	<0.00202	< 0.00403	<49.8	<49.8	<49.8	<49.8	<49.8	320

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

Grey-text indicates soil sample removed during excavation activities or area

resampled.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code

Ensolum

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APPENDIX A

Friction Reducer SDS



SAFETY DATA SHEET

Issuing Date 01-Aug-2019 Revision Date 01-Aug-2019 Revision Number 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name POLYglide Xcel-200

Other means of identification

Product Code(s) 10497

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use No information available

Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Address Manufacturer Address

PfP Industries PfP Industries 29738 Goynes Rd. 29738 Goynes Rd. Katy, TX 77493 Katy, TX 77493

Emergency telephone number

Company Phone Number 281-371-2000

Emergency Telephone Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids Category 4

Hazards not otherwise classified (HNOC)

Not applicable

Label elements

Warning

Combustible liquid

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Appearance Opaque Physical state Liquid Odor Mineral Oil

Precautionary Statements - Prevention

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

In case of fire: Use CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other Information

May be harmful in contact with skin Harmful to aquatic life

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Chemical name	CAS No	Weight-%	Trade secret
Petroleum distillates, hydrotreated light	64742-47-8	40 - 70	

^{*}The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of first aid measures

Inhalation Remove to fresh air.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep

eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present

and easy to do. Continue rinsing.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes.

Ingestion Clean mouth with water and drink afterwards plenty of water.

Self-protection of the first aider Remove all sources of ignition. Ensure that medical personnel are aware of the material(s)

involved, take precautions to protect themselves and prevent spread of contamination.

Wear personal protective clothing (see section 8).

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

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5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam.

Unsuitable extinguishing media CAUTION: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the

chemical

Keep product and empty container away from heat and sources of ignition. In the event of

fire, cool tanks with water spray.

Explosion data

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Evacuate personnel to safe areas. Use personal protective equipment as required. See

section 8 for more information. Take precautionary measures against static discharges. Do

not touch or walk through spilled material.

Environmental precautions

Environmental precautions Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage

if safe to do so.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Do not touch or walk through spilled material. Dike far

ahead of liquid spill for later disposal.

Methods for cleaning up Take precautionary measures against static discharges. Dam up. Soak up with inert

absorbent material. Pick up and transfer to properly labeled containers.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Use personal protection equipment. Do not breathe vapor or mist. Keep away from heat,

> hot surfaces, sparks, open flames and other ignition sources. No smoking, Take precautionary measures against static discharges. Use with local exhaust ventilation.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from

heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Store in accordance with the particular

national regulations. Store in accordance with local regulations.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Limits The following ingredients are the only ingredients of the product above the cut-off level (or

level that contributes to the hazard classification of the mixture) which have an exposure

limit applicable in the region for which this safety data sheet is intended or other

recommended limit. At this time, the other relevant constituents have no known exposure

limits from the sources listed here.

Appropriate engineering controls

Engineering controls Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Tight sealing safety goggles.

Skin and body protection No special protective equipment required.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Do not eat, drink or smoke when using this product. Contaminated work clothing should not

be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Liquid
Appearance Opaque

Color Milky white to yellow

Odor Mineral Oil

Odor threshold No information available

Property Values Remarks • Method

pH No data available None known
Melting point / freezing point No data available None known
Boiling point / boiling range No data available None known

Flash point >= 67 °C / 153 °F

Evaporation rate No data available None known Flammability (solid, gas) No data available None known

Flammability Limit in Air

None known

Upper flammability limit: No data available
Lower flammability limit: No data available

Vapor pressureNo data availableNone knownVapor densityNo data availableNone known

Relative density 0.97 - 1.03 Water solubility Miscible in water

Solubility in other solvents
Partition coefficient
No data available
No data available
None known
Autoignition temperature
No data available
None known
No data available
None known
No data available
None known

Kinematic viscosity ≥150 mm²/s

Dynamic viscosity No data available None known Explosive properties No information available

Oxidizing properties No information available No information available

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Other Information

Softening point

Molecular weight

VOC Content (%)

Liquid Density

No information available

10. STABILITY AND REACTIVITY

Reactivity No information available.

Chemical stability Stable under normal conditions.

Possibility of hazardous reactions None under normal processing.

Conditions to avoid Heat, flames and sparks.

Incompatible materials None known based on information supplied.

Hazardous decomposition products None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation Specific test data for the substance or mixture is not available.

Eye contact Specific test data for the substance or mixture is not available.

Skin contact Specific test data for the substance or mixture is not available.

Ingestion Specific test data for the substance or mixture is not available.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Numerical measures of toxicity

Acute toxicity

The following values are calculated based on chapter 3.1 of the GHS document.

 ATEmix (oral)
 5,005.00 mg/kg

 ATEmix (dermal)
 2,002.00 mg/kg

 ATEmix (inhalation-dust/mist)
 5.20 mg/l

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50		
Petroleum distillates, hydrotreated light 64742-47-8	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 5.2 mg/L (Rat)4 h		

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation No information available.

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Serious eye damage/eye irritation No information available.

Respiratory or skin sensitization No information available.

Germ cell mutagenicity No information available.

Carcinogenicity No information available.

Reproductive toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Aspiration hazard No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Petroleum distillates, hydrotreated light 64742-47-8	-	2.4: 96 h Oncorhynchus mykiss mg/L LC50 static 45: 96 h Pimephales promelas mg/L LC50 flow-through 2.2: 96 h Lepomis macrochirus mg/L LC50 static		4720: 96 h Den-dronereides heteropoda mg/L LC50

Persistence and degradability No information available.

Bioaccumulation There is no data for this product.

Other adverse effects No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

Contaminated packaging Do not reuse empty containers.

14. TRANSPORT INFORMATION

DOT Not regulated. Product does not sustain combustion (49 CFR 173.120(b)(3))

15. REGULATORY INFORMATION

International Inventories

TSCA Complies
DSL/NDSL Complies
EINECS/ELINCS Complies
ENCS Does not comply
IECSC Complies
KECL Complies

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PICCS Complies
AICS Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	Yes
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

US State Regulations

This product does not contain any substances regulated by state right-to-know regulations

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

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16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA Health hazards 2 Flammability 2 Instability 0 Physical and chemical

properties HMIS Health hazards 2 Flammability 2 Physical hazards 0 Personal protection X

Issuing Date 01-Aug-2019

Revision Date 01-Aug-2019

Revision Note No information available.

Disclaimer

The data supplied herein is for use only in connection with occupational safety and health. The information provided in this Safety Data Sheet is believed to be correct as of the date issued. Updates to this information may be obtained by contacting (either reference contact location or website). PfP Industries MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. This information is not meant to be an all-inclusive document on worldwide hazard communication regulations. Each user of the material described herein must evaluate the conditions of use and design, many of which will be solely within the user's knowledge and control, and the appropriate protective actions, including proper notification and training of employees, necessary to prevent employee exposures, property damage or release to the environment.

End of Safety Data Sheet

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APPENDIX B

Referenced Well Records

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WELL TAG ID NO.

OSE OTI JUL 9 2021 PM 1:52



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

6SE 00 JUN 21 2021 M10:14

	1912	SD .									
NO	OSE POD NO	MELL N			WELL TAG ID NO 20E37).		OSE FILE NO(C-4536	s).		
ОСАТІ	WELL OWN		s) IES RANCHES LI	.c	PHONE (OPTI	ONAL)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
WELL L	WELL OWNER MAILING ADDRESS 3300 N A STREET, BLDG 1, STE 220									STATE TX	ΖIР 79705
GENERAL AND WELL LOCATION	WELL LOCATIO	N L	ATITUDE	DEGREES 32	MINUTES 10	secon 50.			REQUIRED: ONE TEN	TH OF A SECOND	
GENER	(FROM GE DESCRIPTION	L	ONGITUDE ING WELL LOCATION	103 TO STREET AD	40 DRESS AND COMMO	25. N LANDMA		<u> </u>	QUIRED: WGS 84 WNSHJIP, RANGE) WH	ERE AVAILABLE	
									4 - 4 22 - 2 - 2		- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1-
	LICENSE NO WD1		NAME OF LICENSI	D DRILLER	Bryce Wallace				NAME OF WELL DR Elite I	ILLING COMPANY Drillers Corporation	
	DRILLING S 06/09		DRILLING ENDED 06/10/21	DEPTH OF (COMPLETED WELL (F 500	T)		LE DEPTH (FT) 500		ST ENCOUNTERED (F 314	
N.	COMPLETE	D WELL IS	: ARTESIAN	DRY H	DRY HOLE SHALLOW (UNCONFINED) STATIC WATER LEVEL IN COMP					VELL (FT)	
ATIC	DRILLING F	LUID:	✓ AIR	☐ MUD	ADDITT	VES – SPEC	IFY:				
RM	DRILLING M	ŒTHOD:	▼ ROTARY	HAMM	ER CABLE	TOOL	□ отне	R - SPECIFY:	-		
& CASING INFORMATION	FROM TO DIAM		- BOKE HOLE	(includ	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)		CON	ASING NECTION YPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
C	0	0 20 12 3/4		100	STEEL		(add coupling diameter) N/A		8.28	.337	
	0	300	7 7/8		SDR17 PVC			LINE	4.3	SDR17	
2. DRILLING	300	500	7 7/8		SDR17 PVC		SI	LINE	4.3	SDR17	.032
2. DI											
	DEPTH	(feet bgl)	BORE HOLE		LIST ANNULAR S	EAL MA	ΓERIAL A	AND	AMOUNT	МЕТН	OD OF
IAL	FROM	то	DIAM. (inches) GR	AVEL PACK SIZE	E-RANGE	BY INTE	RVAL	(cubic feet)	PLACI	EMENT
TER	0	20	12 3/4			MENT			10		FILL
MA	0	20	7 7/8			EMENT			6		FILL
AR	300	500	7 7/8		8/16 SIL	LICA SAN	ND		46	ТОР	FILL
ANNULAR MATERIAL				-	· · · · · · · · · · · · · · · · · · ·						
3. AN				+	· · · · · · · · · · · · · · · · · · ·						
							· · · · · ·				
FOR	OSE INTER	NAL US	E					WR-2	0 WELL RECORD	& LOG (Version 06:	/30/17)

OSE DII JUL 9 2021 PM1:53

05E DII JUN 21 2021 PM10:14

-	DEPTH (f	eet bgl)	THICKNESS	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONE	WATER BEARING?	ESTIMATED YIELD FOR WATER-					
	FROM	(YES / NO)	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						
	2,35	480	245	TAN SANDSTONE & CLAY STRINGERS	✓Y N	4.00					
ا پ	480	500	20	RED CLAY WITH SAND STRINGERS	Y √N						
Z T					Y N						
5					Y N						
3					Y N						
2					Y N						
5					YN						
5					Y N						
4. HYDROGEOLOGIC LOG OF WELL					YN						
<u> </u>					YN						
4					YN						
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-					Y N	• •					
-				· · · · · · · · · · · · · · · · · · ·	Y N						
-					Y N						
-					Y N						
	METHOD U			OF WATER-BEARING STRATA:	TOTAL ESTIMATED WELL YIELD (gpm):	4.00					
	PUMP	·	IR LIFT	BAILER OTHER - SPECIFY:	WELL HELD (gpm):	4.00					
\prod	WELL TEST			ACH A COPY OF DATA COLLECTED DURING WELL TESTING, INC IE, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVI							
NOIST -	MISCELLAN	JEOUS INI	FORMATION:								
	MIGGELLAN	VEOUS IIVI	ORMATION.								
ital, mo sorem											
; -	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE										
;	PRINT NAM	E(8) OF D	RILL RIG SUPER	VISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CON	STRUCTION OTHER TE	IAN LICENSEE					
T	THE UNDER	RSIGNED F	IEREBY CERTIFI	ES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELI	EF, THE FOREGOING IS	A TRUE AND					
	CORRECT R	ECORD WITH THE STA	TE ENGINEER								
AI	INI	7 110									
SIGNATURE		ו עו	06/16/2021								
6		SIGNAT	TIBE OF DOIL LE	R / PRINT SIGNEE NAME	17 A 3777						
		SIGNAT	OWE OF DRIFTER	X / TRINI SIUNEE NAME	DATE	· · · · · · · · · · · · · · · · · · ·					
OR	OSE INTERN	IAL USE		WR-20 WEI	LL RECORD & LOG (Ve	sion 06/30/2017					



APPENDIX C

Photographic Log



Photographic Log
XTO Energy, Inc
Outrider 28 Fed 501H
Incident Number NAPP2306054654





Photograph 1 Date: 5/12/2023 Description: Site assessment, release extent area.

View: South

Photograph 2 Date: 5/12/2023 Description: Delineation activities, PH03 and PH04.

View: North





Photograph 3 Date: 5/22/2023 Photograph 4 Date: 5/22/2023

Description: Excavation extent Description: Excavation extent

View: North View: South

ENSOLUM

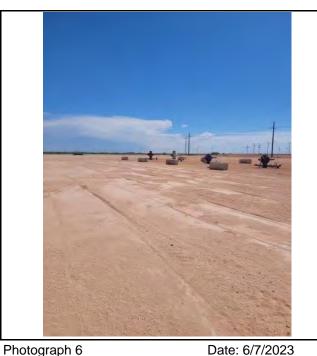
Photographic Log XTO Energy, Inc Outrider 28 Fed 501H Incident Number NAPP2306054654



Photograph 5 Date: 6/7/2023

Description: Excavation backfilled.

View: Northwest



Photograph 6 Date: Description: Excavation backfilled.

View: Southwest



APPENDIX D

Lithologic Soil Sampling Logs

								Sample Name: PH01	Date: 5/22/2023
							B.4	Site Name: Outrider 28 Fed 50	
			N	3	0 1	Incident Number: nAPP230605			
								Job Number: 03C1558191	74034
	1	ITHOU	OG!	^ / SOIL G	SAMPLING	S L O G		Logged By: CW	Method: Trackhoe
Coor	dinates:32			-	AIVIFLING	LOG		Hole Diameter: N/A	Total Depth: 1.5
Com	ments: Fiel	d screeni	ing co	nducted w				PID for chloride and vapor, res on factor is included in all chlor	pectively. Chloride test
Nioisture	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Descriptions
	34,523	0.0	SZZ	SS01 PH01	(π bgs) I 0.5 - 1.5 - - - - - - - - - - - - -	I 0	SO CCHE SP TD	0-0.5', CALICHE, moist, ta some well rounded sm unconsolidated fill, no 0.5'-1.5', SAND, moist, refine grained, poorly gracaliche gravel, no stain Total depth at 1.5 feet by	ided, trace small , no odor.
					-	- 12			

								Sample Name: PH02	Date: 5/22/2023
							B.4	Site Name: Outrider 28 Fed 50	
			N	5	0 1	Incident Number: nAPP230605			
						Job Number: 03C1558191	74034		
		ITHOU	OGI4	^ / SOIL 9	SAMPLING	ine		Logged By: CW	Method: Trackhoe
Coor	dinates:32			-	AIVII LIIVO	100		Hole Diameter: N/A	Total Depth: 1.5
Com	ments: Fiel	d screeni	ing co	nducted w				PID for chloride and vapor, response factor is included in all chlor	pectively. Chloride test
IVIOISTURE	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Descriptions
	30,268	0.0	SZZ	SS02 PH02	1.5	I 0	CCHE SP TD	0-0.5', CALICHE, moist, ta some well rounded smunconsolidated fill, no 0.5'-1.5', SAND, moist, refine grained, poorly gracaliche gravel, no stain. Total depth at 1.5 feet by	stain, no odor. eddish brown, fine-very nded, trace small , no odor.
						12			

								Sample Name: PH03	Date: 5/22/2023	
				6			N .4	Site Name: Outrider 28 Fed 501H	, , ,	
ENSOLUM							Incident Number: nAPP2306054654			
							Job Number: 03C1558191			
LITHOLOGIC / SOIL SAMPLING LOG							Logged By: CW	Method: Trackhoe		
-							Hole Diameter: N/A	Total Depth: 1.5		
	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. A 40% correction factor is included in all chloride field screenings.										
Nioisture	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Des		
						I 0	CCHE	0-0.5', CALICHE, moist, tan, some well rounded small t	some fine grain sand, to medium gravel	
М	34,523	0.0	N	SS03	0.5	‡	C.5	unconsolidated fill, no stain, no odor. 1.5'-1.5', SAND, moist, reddish brown, fine fine grained, poorly graded, trace small	n, no odor.	
					-	_ 1	SP	JU.5 -1.5 , SAND, moist, reddi fine grained, poorly graded	reddish brown, fine-very raded, trace small	
, 4	4100	0.0	N	חווח	4.5	- * -		caliche gravel, no stain, no odor.		
М	<168	0.0	IN	PH03	1.5	_	TD	Total depth at 1.5 feet bgs.		
					-	_ 2		,		
					-	- -				
					-	3				
					-	_				
					_	_				
						4				
					-	-				
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						10				
					_	_ 10				
					-	-				
						11				
					-	-				
						- 43				
						12				

								Sample Name: PH04	Date: 5/22/2023				
				6	0		B.4	Site Name: Outrider 28 Fed 501H					
			N	3	0 1	LU	IV	Incident Number: nAPP230605465	54				
								Job Number: 03C1558191	· ·				
	1	LITHOU	OGIO	: / SOIL S	SAMPLING	LOG		Logged By: CW Method: Trackhoe					
Cool	rdinates: 32							Hole Diameter: N/A	Total Depth: 1.5				
					rith HACH Ch	loride Test S	Strips and	PID for chloride and vapor, respect	·				
								on factor is included in all chloride					
Ivioisture	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Des	·				
М	>34,523	0.0	N	SS04	0.5] 0 - -	SP	0-0.5', CALICHE, moist, tan, some well rounded small t unconsolidated fill, no stai 0.5'-1.5', SAND, moist, redd	n, no odor. ish brown, fine-very				
М	<168	0.0	N	PH04	1.5	1		fine grained, poorly graded caliche gravel, no stain, no	d, trace small				
					- -	2	TD	Total depth at 1.5 feet bgs.					
					- - -	3							
					- - -	- _ 4 -							
					- - -	5 - -							
					- - -	_ 6 - -							
					_ - -	7							
					- - -	_ 8 _ -							
					-	9							
					_ _ _	10							
					- - -	11 - 12							



APPENDIX E

Laboratory Analytical Reports & Chain of Custody Documentation



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

June 05, 2023

BEN BELILL

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: OUTRIDER 28 FED 501H

Enclosed are the results of analyses for samples received by the laboratory on 06/02/23 8:34.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

Wite Sough

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

Sincerely,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC BEN BELILL 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 06/02/2023 Sampling Date: 06/01/2023

Reported: 06/05/2023 Sampling Type: Soil

Project Name: OUTRIDER 28 FED 501H Sampling Condition: Cool & Intact
Project Number: 03C1558191 Sample Received By: Shalyn Rodriguez

Project Location: LEA COUNTY, NEW MEXICO

Sample ID: FS 12 A 1.5' (H232788-01)

BTEX 8021B	mg/	'kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2023	ND	1.97	98.5	2.00	9.75	
Toluene*	<0.050	0.050	06/02/2023	ND	2.02	101	2.00	11.3	
Ethylbenzene*	<0.050	0.050	06/02/2023	ND	1.92	96.1	2.00	9.47	
Total Xylenes*	<0.150	0.150	06/02/2023	ND	5.92	98.7	6.00	10.0	
Total BTEX	<0.300	0.300	06/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	0 106% 71.5-13		4						
Chloride, SM4500Cl-B	mg/kg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/02/2023	ND	416	104	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/02/2023	ND	167	83.4	200	3.82	
DRO >C10-C28*	<10.0	10.0	06/02/2023	ND	173	86.7	200	5.72	
EXT DRO >C28-C36	<10.0	10.0	06/02/2023	ND					
Surrogate: 1-Chlorooctane	76.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.8	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Mule Sough

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

Cardinal Laboratories *=Accredited Analyte

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Me Sough

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Released to Imaging: 11/29/2023 1:49:15 PM

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 oratories

(575) 393-2326 FAX (575) 393-2476

BILL TO	PLEASE NOTE: Lability and Damages. Cardinal's liabil analyses. All claims including those for negligence and service. In no event shall Cardinal se liable for incidental affliates or successors arising out of or related to the per Relinquished By: Relinquished By:	PLEASE NOTE: Lability and Damages. Card analyses. All claims including those for neglig service. In no event shall cardipable liable to affiliate or successor arising out of or relate. Relinquished By:	PLEASE NOTE: Lability and Damages. Card analyses. All claims including those for neglig service. In no event shall Cardjnal be liable to affiliates or successors arising out of or relates	PLEASE NOTE: Liability and Damages, Card										ES PERSON	Lab I.D. Samp	FOR LAB USE ONLY	Sampler Name: Dmitry Nikanorov	Project Location: Lea County, New Mexico	Project Name: Outrider	Project #: 03C1558191	Phone #: 9898540852	City: Midland	Address: 601 N. Marienfeld St. STE 400	Project Manager: Ben Belill	Company Name: Ensolu	(575) 39
Cost Center#: 222292100 Company: XTO Energy. Attn: Garrett Green Address: 3104 E Green Address: 3104 E Green City: Carlsbad State: NM Zip: 88220 Phone #: 575 200 0720 Fax #: PRESERV. SAMPLIN ON AND TO UNITED BY				ence and any other recidental or conse	inal's liability and oli	\							7121	2120	ole I.D.		kanorov	unty, New	28 Fed 5				Id St. STE 4	=	m, LLC	3-2326 FA
ANALYSIS Chlorides (EPA 4500) X TPH (8015) X BTEX (8021) BTEX (8021) ANALYSIS ANALYSIS ANALYSIS	Date: 2323	0 100	3 10	cause whatsoever shall be or quental damages, including of services hereunder by C	ent's exclusive remedy for a	1								יבי ק	Sample Depth (feet)			Mexico	01H	Project Owner	Fax #:	×	00			(575) 393-2326 FAX (575) 393-2476
Cost Center#: 2222921001 Company: XTO Energy, Inc Ath: Garriett Green Ath: Garriett Green St. City: Carlsbad Stak: NM Zp: 88220 Phone #: 575 200 0729 AC US THE ING PRESERY SAMPLING PRESERY SAMPLING AC US THE ING PRESERY SAMPLING PRESERY SAMPLING PA 45 AC US THE ING AC US TH		Rece		without lin	y claim ar	1	1				Ц	\exists	-	-).						Zip:				76
Cost Center#: 2222921001 Company:XTO Energy, Inc. Attn: Garrett Green Address: 3104 E Green St. City: Carlsbad State:NM Zip: 88220 Phone #: 575 200 0729 Fax #: DATE TIME CITY: Carlsbad State:NM Zip: 88220 PRESERV, SAMPLING PRESERV, SAMPLING EN STATE TIME CITY: Carlsbad State:NM Zip: 88220 PA 450 PRESERV, SAMPLING EN STATE TIME CITY: Carlsbad State:NM Zip: 88220 PA 450 PA 450 CITY: Carlsbad State:NM Zip: 88220 PA 450 PA 450 CITY: Carlsbad State:NM Zip: 88220 PA 450 PA 450 CITY: Carlsbad State:NM Zip: 88220 CITY: Ca	200	Received By:	by Di	sived unless made in hitation, business inter pardless of whether s	sing whether based in	-							,	×	GROUNDWATER WASTEWATER SOIL	MATE						79701				
Date Time To an Analysis Request Section 1. September 2.222921001 Sompany: XTO Energy, Inc ten: Garrett Green Iddress: 3104 E Green St. Sig: Carlsbad State: NM Zip: 88220 None #: 575 200 0729 Tax #: PRESERV SAMPLING PRESERV SAMPLING PRESERV SAMPLING A Signature of the september of	1	5		rruptions, los uch claim is	n contract or	1		1							SLUDGE	- R	_	77	10		-	P	0	0		
E 2222921001 E 222921001 Zip: 88220 Zip: 88220 SAMPLING SAMPLING PA SAMPLING SAMPLING PA ITIME DATE TIME DATE TIME CI TO Energy, Inc. (Green St. and	220			eceived by Cardinal vision use, or loss of pi based upon any of the	tort shall be limited		1	1							ACID/BASE: ICE / COOL	PRESERV.	ax #:		State: NM	City: Carlsba	Address: 310	utn: Garrett	ompany: X	ost Center#	BII	
ANALYSIS REQUEST W, Inc A4 4500 A4 4500 A500 A5	4	5		rolits incurred by cline above stated rear	to the amount paid									6/1/2023	DATE	SAMPL		5 200 07	Zip: 88220	ad	04 E Gree	Green	O Energy	£ 22229210	TT 10	
ANALYSIS REQUEST ANALYSIS REQUEST A 45000 Chilorides (80015) TPH (80015) TPH (80015) TPH (80016) TPH (80016) TPH (80016) A True (80016) A True (80016) TPH (80016) A True (80016)	Turnaralli	REMARK	All Result	ent, its subsidiar	by the client for									244	TIME	ING		29			n St.		, Inc	001		
ANALYSIS REQUEST TPH (8015) BTEX (8021) X X BTEX (8021) X Yes □ No Add'l Phone #: halled. Please provide Email address: n.com, garrett.green@exxonmobil.com, TMorrissay@ensolur		Ś	ensolun	les,	the					1					Chlorides (E	PA	45	500)								1
ANALYSIS REQUEST (8021) BTEX No Add'l Phone #: Please provide Email address: parrett green@exxxonmobil.com, TMorrissey@ensolun			nailed.	4						1						_				_					1	١
ANALYSIS REQUEST Add'I Phone #: ide Email address: @exxonmobil.com, TMorrissey@ensolun			Please proparrett.green	1			+	+		-	1			×	BTEX (802	21)		_		_		_			1	
Phone #: mobil.com, TMorrissey@ensolun			vide Ema	Add'I				I			1														ANA	
REQUEST R. TMorrissey@ensolun	Bactoria		nobil.co	hone #			_		-	-	1	-					_		_	_						
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n, on	ample Condition Observed Temp. °C		ım.com					+	+		-		1											_	1	

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 5/19/2023 11:03:42 AM

JOB DESCRIPTION

Outrider 28 Fed 501H SDG NUMBER 03C1558191

JOB NUMBER

890-4664-1

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 5/19/2023 11:03:42 AM

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

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

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Client: Ensolum
Project/Site: Outrider 28 Fed 501H
Laboratory Job ID: 890-4664-1
SDG: 03C1558191

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Definitions/Glossary

 Client: Ensolum
 Job ID: 890-4664-1

 Project/Site: Outrider 28 Fed 501H
 SDG: 03C1558191

C1558191

Qualifiers

GC VOA

 Qualifier
 Qualifier Description

 S1 Surrogate recovery exceeds control limits, low biased.

 U
 Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

F1 MS and/or MSD recovery exceeds control limits.

U Indicates the analyte was analyzed for but not detected.

Glossary

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

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

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

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

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

NC Not Calculated

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

 NEG
 Negative / Absent

 POS
 Positive / Present

 PQL
 Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Eurofins Carlsbad

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Case Narrative

Client: Ensolum

Project/Site: Outrider 28 Fed 501H

Job ID: 890-4664-1 SDG: 03C1558191

Job ID: 890-4664-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4664-1

Receipt

The samples were received on 5/15/2023 9:36 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 2.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS01 (890-4664-1), SS02 (890-4664-2), SS03 (890-4664-3) and SS04 (890-4664-4).

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-53494 and analytical batch 880-53673 was outside the upper control limits.

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-53486 and analytical batch 880-53447 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-53447/31) and (LCS 880-53486/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (890-4662-A-1-D). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-53447/47) and (CCV 880-53447/58). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SS01 (890-4664-1) and SS04 (890-4664-4). 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: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-53475 and analytical batch 880-53583 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

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Job ID: 890-4664-1

Client: Ensolum Project/Site: Outrider 28 Fed 501H SDG: 03C1558191

Client Sample ID: SS01 Lab Sample ID: 890-4664-1 Date Collected: 05/12/23 12:55 Matrix: Solid

Date Received: 05/15/23 09:36 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 14:55	05/18/23 22:32	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/16/23 14:55	05/18/23 22:32	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		05/16/23 14:55	05/18/23 22:32	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/16/23 14:55	05/18/23 22:32	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/16/23 14:55	05/18/23 22:32	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/16/23 14:55	05/18/23 22:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			05/16/23 14:55	05/18/23 22:32	1
1,4-Difluorobenzene (Surr)	88		70 - 130			05/16/23 14:55	05/18/23 22:32	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/19/23 10:46	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	443		49.8	mg/Kg			05/17/23 10:58	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		05/16/23 13:04	05/17/23 03:17	1
Diesel Range Organics (Over C10-C28)	443		49.8	mg/Kg		05/16/23 13:04	05/17/23 03:17	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/16/23 13:04	05/17/23 03:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130			05/16/23 13:04	05/17/23 03:17	1
o-Terphenyl	134	S1+	70 - 130			05/16/23 13:04	05/17/23 03:17	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18900		248	mg/Kg			05/17/23 17:55	50

Client Sample ID: SS02 Lab Sample ID: 890-4664-2 Matrix: Solid

Date Collected: 05/12/23 13:00 Date Received: 05/15/23 09:36

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 14:55	05/18/23 22:52	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/16/23 14:55	05/18/23 22:52	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/16/23 14:55	05/18/23 22:52	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/16/23 14:55	05/18/23 22:52	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/16/23 14:55	05/18/23 22:52	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/16/23 14:55	05/18/23 22:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130			05/16/23 14:55	05/18/23 22:52	

Matrix: Solid

Client Sample Results

 Client: Ensolum
 Job ID: 890-4664-1

 Project/Site: Outrider 28 Fed 501H
 SDG: 03C1558191

Client Sample ID: SS02 Lab Sample ID: 890-4664-2

Date Collected: 05/12/23 13:00 Date Received: 05/15/23 09:36

Sample Depth: 0.5'

Method: SW846 8021B - Volatile	Organic Compounds	(GC) (Continued)
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Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	92	70 - 130	05/16/23 14:55	05/18/23 22:52	1

1	Method: TA	I SOP Total	BTEX - Total	RTFY Cal	culation
	mictilou. Ir	L COI IOIAI	DIEX - Iotai	DIEA Out	Culation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00399	U	0.00399	mg/Kg			05/19/23 10:46	1

Mathed CMO4C CO4E NM Discal Dance Occasion (DI	201	1001	
Method: SW846 8015 NM - Diesel Range Organics (DI	くしょいし	((36.)	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	396		49.9	mg/Kg			05/17/23 10:58	1

Method: SW846 8015	Rango Or	ranice (DRO) (GC)
michica. Offoro colo	i i i i i i i i i i i i i i i i i i i	garries (Ditto) (CO)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/16/23 13:04	05/17/23 03:38	1
Diesel Range Organics (Over C10-C28)	396		49.9	mg/Kg		05/16/23 13:04	05/17/23 03:38	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/16/23 13:04	05/17/23 03:38	1
Surrogata	%/Bassyany	Qualifier	Limito			Duamanad	Amalumad	Dil Faa

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130	05/16/23 13:04	05/17/23 03:38	1
o-Terphenyl	126		70 - 130	05/16/23 13:04	05/17/23 03:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19200	252	mg/Kg			05/17/23 18:00	50

Client Sample ID: SS03 Lab Sample ID: 890-4664-3

Date Collected: 05/12/23 13:05 Date Received: 05/15/23 09:36

Sample Depth: 0.5'

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

rgaine comp	ounus (CC)	,					
Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
<0.00201	U	0.00201	mg/Kg		05/16/23 14:55	05/18/23 23:13	1
<0.00201	U	0.00201	mg/Kg		05/16/23 14:55	05/18/23 23:13	1
< 0.00201	U	0.00201	mg/Kg		05/16/23 14:55	05/18/23 23:13	1
<0.00402	U	0.00402	mg/Kg		05/16/23 14:55	05/18/23 23:13	1
< 0.00201	U	0.00201	mg/Kg		05/16/23 14:55	05/18/23 23:13	1
<0.00402	U	0.00402	mg/Kg		05/16/23 14:55	05/18/23 23:13	1
%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
95		70 - 130			05/16/23 14:55	05/18/23 23:13	1
	Result <0.00201 <0.00201 <0.00201 <0.00201 <0.00402 <0.00201 <0.00402 <0.00402 %Recovery	Result Qualifier	Result Qualifier RL <0.00201	Result Qualifier RL Unit <0.00201	Result Qualifier RL Unit D <0.00201	<0.00201	Result Qualifier RL Unit D Prepared Analyzed <0.00201

4-Bromofluorobenzene (Surr)	95	70 - 130	05/16/23 14:55	05/18/23 23:13	1
1,4-Difluorobenzene (Surr)	85	70 - 130	05/16/23 14:55	05/18/23 23:13	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			05/19/23 10:46	1

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	854	49.8	mg/Kg			05/17/23 10:58	1

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Matrix: Solid

Job ID: 890-4664-1

Client: Ensolum Project/Site: Outrider 28 Fed 501H SDG: 03C1558191

Client Sample ID: SS03 Lab Sample ID: 890-4664-3 Date Collected: 05/12/23 13:05 Matrix: Solid

Date Received: 05/15/23 09:36 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		05/16/23 13:04	05/17/23 03:59	1
Diesel Range Organics (Over C10-C28)	854		49.8	mg/Kg		05/16/23 13:04	05/17/23 03:59	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/16/23 13:04	05/17/23 03:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130			05/16/23 13:04	05/17/23 03:59	1
o-Terphenyl	129		70 - 130			05/16/23 13:04	05/17/23 03:59	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
			502	mg/Kg			05/17/23 18:06	100

Client Sample ID: SS04 Lab Sample ID: 890-4664-4 Matrix: Solid

Date Collected: 05/12/23 13:10 Date Received: 05/15/23 09:36

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 14:55	05/18/23 23:33	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/16/23 14:55	05/18/23 23:33	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/16/23 14:55	05/18/23 23:33	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		05/16/23 14:55	05/18/23 23:33	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/16/23 14:55	05/18/23 23:33	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		05/16/23 14:55	05/18/23 23:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130			05/16/23 14:55	05/18/23 23:33	1
1,4-Difluorobenzene (Surr)	82		70 - 130			05/16/23 14:55	05/18/23 23:33	1
Analyte			RL			Prepared	Analyzed	
Total BTEX Method: SW846 8015 NM - Diese Analyte			0.00401	mg/Kg		Prepared	05/19/23 10:46 Analyzed	
Total BTEX Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (0	0.00401 GC)		<u>D</u>		05/19/23 10:46	Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte	Range Organ Result 1100 sel Range Orga	ics (DRO) (0 Qualifier	0.00401 GC) RL 49.9	Unit	<u>D</u>		05/19/23 10:46 Analyzed	Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese	Range Organ Result 1100 sel Range Orga	Qualifier nics (DRO) Qualifier	0.00401 GC) RL 49.9	Unit mg/Kg		Prepared	05/19/23 10:46 Analyzed 05/17/23 10:58	Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	Range Organ Result 1100 sel Range Orga Result	Qualifier nics (DRO) Qualifier	0.00401 GC) RL 49.9 (GC) RL	Unit mg/Kg		Prepared Prepared	05/19/23 10:46 Analyzed 05/17/23 10:58 Analyzed	Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 1100 sel Range Organ Result 49.9	Qualifier nics (DRO) Qualifier U	0.00401 RL 49.9 (GC) RL 49.9	Unit mg/Kg Unit mg/Kg		Prepared Prepared 05/16/23 13:04	05/19/23 10:46 Analyzed 05/17/23 10:58 Analyzed 05/17/23 04:19	Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result 1100 sel Range Organ Result 49.9	nics (DRO) (Qualifier Nics (DRO) Qualifier U	0.00401 RL 49.9 (GC) RL 49.9 49.9	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared Prepared 05/16/23 13:04 05/16/23 13:04	Analyzed 05/17/23 10:46 Analyzed 05/17/23 10:58 Analyzed 05/17/23 04:19 05/17/23 04:19	1 Dil Fac 1 1
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	el Range Organ Result 1100 sel Range Orga Result <49.9 1100 <49.9	nics (DRO) (Qualifier Nics (DRO) Qualifier U	0.00401 RL 49.9 (GC) RL 49.9 49.9 49.9	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 05/16/23 13:04 05/16/23 13:04	05/19/23 10:46 Analyzed 05/17/23 10:58 Analyzed 05/17/23 04:19 05/17/23 04:19	Dil Fac Dil Fac 1

Client Sample Results

Client: Ensolum Job ID: 890-4664-1 Project/Site: Outrider 28 Fed 501H SDG: 03C1558191

Client Sample ID: SS04 Lab Sample ID: 890-4664-4 Matrix: Solid

Date Collected: 05/12/23 13:10 Date Received: 05/15/23 09:36

Sample Depth: 0.5'

Method: EPA 300.0 - Anions, Ion C	hromatography - Soluble						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28800	250	mg/Kg			05/17/23 18:11	50

Surrogate Summary

Job ID: 890-4664-1 Client: Ensolum Project/Site: Outrider 28 Fed 501H SDG: 03C1558191

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Re
		BFB1	DFBZ1	. orosin carrogato in
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-4653-A-1-E MS	Matrix Spike	81	115	
890-4653-A-1-F MSD	Matrix Spike Duplicate	115	103	
890-4664-1	SS01	105	88	
890-4664-2	SS02	99	92	
890-4664-3	SS03	95	85	
890-4664-4	SS04	97	82	
LCS 880-53494/1-A	Lab Control Sample	94	97	
LCSD 880-53494/2-A	Lab Control Sample Dup	112	106	
MB 880-53494/5-A	Method Blank	68 S1-	85	
Surrogate Legend				
BFB = 4-Bromofluorobe	nzene (Surr)			
DFBZ = 1,4-Difluoroben:	zene (Surr)			

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

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

				Percent Surrogate Recovery (Acceptance Limits
		1CO1	OTPH1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
90-4662-A-1-E MS	Matrix Spike	117	121	
0-4662-A-1-F MSD	Matrix Spike Duplicate	126	129	
0-4664-1	SS01	115	134 S1+	
0-4664-2	SS02	113	126	
0-4664-3	SS03	114	129	
0-4664-4	SS04	117	134 S1+	
S 880-53486/2-A	Lab Control Sample	115	131 S1+	
CSD 880-53486/3-A	Lab Control Sample Dup	106	123	
B 880-53486/1-A	Method Blank	162 S1+	204 S1+	

1CO = 1-Chlorooctane OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum Job ID: 890-4664-1 Project/Site: Outrider 28 Fed 501H SDG: 03C1558191

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-53494/5-A

Lab Sample ID: LCS 880-53494/1-A

Matrix: Solid

Analysis Batch: 53673

Matrix: Solid Analysis Batch: 53673 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 53494

	МВ	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/16/23 14:55	05/18/23 16:09	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/16/23 14:55	05/18/23 16:09	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/16/23 14:55	05/18/23 16:09	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/16/23 14:55	05/18/23 16:09	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/16/23 14:55	05/18/23 16:09	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/16/23 14:55	05/18/23 16:09	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	68	S1-	70 - 130	05/16/23 14:55	05/18/23 16:09	1
1,4-Difluorobenzene (Surr)	85		70 - 130	05/16/23 14:55	05/18/23 16:09	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 53494

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.09702 mg/Kg 97 70 - 130 Toluene 0.100 0.09851 mg/Kg 99 70 - 130 0.100 Ethylbenzene 0.1096 mg/Kg 110 70 - 130 0.200 0.2014 101 70 - 130 m-Xylene & p-Xylene mg/Kg 0.100 0.09829 70 - 130 o-Xylene mg/Kg 98

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	94	70 - 130
1,4-Difluorobenzene (Surr)	97	70 - 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 53673

Lab Sample ID: LCSD 880-53494/2-A

Prep Type: Total/NA Prep Batch: 53494

	Бріке	LC2D	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1145		mg/Kg		115	70 - 130	17	35	
Toluene	0.100	0.1080		mg/Kg		108	70 - 130	9	35	
Ethylbenzene	0.100	0.1088		mg/Kg		109	70 - 130	1	35	
m-Xylene & p-Xylene	0.200	0.2305		mg/Kg		115	70 - 130	14	35	
o-Xylene	0.100	0.1148		mg/Kg		115	70 - 130	16	35	

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	112	70 - 130
1,4-Difluorobenzene (Surr)	106	70 - 130

Lab Sample ID: 890-4653-A-1-E MS

Matrix: Solid

Analysis Batch: 53673

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

Prep Batch: 53494

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.0998	0.1202		mg/Kg		120	70 - 130	
Toluene	<0.00200	U	0.0998	0.09234		mg/Kg		92	70 - 130	

QC Sample Results

Job ID: 890-4664-1 Client: Ensolum Project/Site: Outrider 28 Fed 501H SDG: 03C1558191

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

Lab Sample ID: 890-4653-A-1-E MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 53673

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00200	U	0.0998	0.08222		mg/Kg		82	70 - 130	
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1593		mg/Kg		80	70 - 130	
o-Xylene	<0.00200	U	0.0998	0.07902		mg/Kg		79	70 - 130	

MS MS

Surrogate	%Recovery Qualifie	r Limits
4-Bromofluorobenzene (Surr)	81	70 - 130
1,4-Difluorobenzene (Surr)	115	70 - 130

Lab Sample ID: 890-4653-A-1-F MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 53673

Prep Type: Total/NA

Prep Batch: 53494 RPD

Prep Batch: 53494

Sample Sample Spike MSD MSD Result Qualifier Added Result Qualifier RPD Limit Analyte Unit %Rec Limits 0.0990 Benzene <0.00200 U 0.1140 mg/Kg 115 70 - 130 5 35 Toluene 0.0990 105 <0.00200 U 0.1041 mg/Kg 70 - 130 12 35 Ethylbenzene <0.00200 U 0.0990 0.1078 mg/Kg 109 70 - 130 27 35 <0.00399 U 0.198 70 - 130 35 m-Xylene & p-Xylene 0.2248 mg/Kg 114 34 0.0990 <0.00200 U 0.1128 70 - 130 35 o-Xylene mg/Kg 114

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 880-53486/1-A Client Sample ID: Method Blank Ma

An

Matrix: Solid Analysis Batch: 53447						Prep Type: Prep Bato		
	MB	MB						
nalvte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
	Gasoline Range Organics	<50.0	U	50.0	mg/Kg		05/16/23 13:04	05/16/23 19:50	1	
١	(GRO)-C6-C10									
	Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		05/16/23 13:04	05/16/23 19:50	1	
١	C10-C28)									
	Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/16/23 13:04	05/16/23 19:50	1	
-1										

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	162	S1+	70 - 130	05/16/23 13:04	05/16/23 19:50	1
o-Terphenyl	204	S1+	70 - 130	05/16/23 13:04	05/16/23 19:50	1

Lab Sample ID: LCS 880-53486/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid Analysis Batch: 53447

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	985.1		mg/Kg		99	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1069		mg/Kg		107	70 - 130	

C10-C28)

Eurofins Carlsbad

Prep Type: Total/NA

Prep Batch: 53486

Job ID: 890-4664-1 Client: Ensolum Project/Site: Outrider 28 Fed 501H SDG: 03C1558191

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

LCS LCS

Lab Sample ID: LCS 880-53486/2-A Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 53447

Prep Type: Total/NA

Prep Batch: 53486

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 115 70 - 130 o-Terphenyl 131 S1+ 70 - 130

Lab Sample ID: LCSD 880-53486/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 53447

Prep Type: Total/NA Prep Batch: 53486

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 940.8 94 70 - 1305 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 104 1043 mg/Kg 70 - 1303 20

C10-C28)

LCSD LCSD Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 106 123 70 - 130 o-Terphenyl

Lab Sample ID: 890-4662-A-1-E MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 53447

Prep Type: Total/NA

Prep Batch: 53486

Sample Sample MS MS Spike Added Analyte Result Qualifier Result Qualifier Unit %Rec Limits D Gasoline Range Organics <49.9 U 997 1114 mg/Kg 109 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 997 1206 mg/Kg 119 70 - 130 C10-C28)

MS MS %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 117 o-Terphenyl 121 70 - 130

Lab Sample ID: 890-4662-A-1-F MSD Client Sample ID: Matrix Spike Duplicate

Analysis Batch: 53447

Matrix: Solid

Prep Type: Total/NA Prep Batch: 53486

Sample Sample MSD MSD RPD Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit U 999 Gasoline Range Organics <49.9 1145 mg/Kg 112 70 - 130 20 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 999 1291 mg/Kg 127 70 - 130 20

C10-C28)

MSD MSD Qualifier Surrogate %Recovery Limits 1-Chlorooctane 126 70 - 130 129 70 - 130 o-Terphenyl

QC Sample Results

Client: Ensolum Job ID: 890-4664-1 Project/Site: Outrider 28 Fed 501H

SDG: 03C1558191

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-53475/1-A

Client Sample ID: Method Blank

Prep Type: Soluble

Analysis Batch: 53583

Matrix: Solid

MB MB

Dil Fac Analyte Result Qualifier RL Unit D Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 05/17/23 15:46

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 880-53475/2-A **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 53583

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 255.6 mg/Kg 102 90 - 110

Lab Sample ID: LCSD 880-53475/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Soluble

Analysis Batch: 53583

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit Limits **RPD** Limit Chloride 250 257.4 103 90 - 110 mg/Kg

Lab Sample ID: 880-28465-A-3-F MS Client Sample ID: Matrix Spike **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 53583

Spike Sample Sample MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 252 820.2 F1 606 F1 85 90 - 110 mg/Kg

QC Association Summary

 Client: Ensolum
 Job ID: 890-4664-1

 Project/Site: Outrider 28 Fed 501H
 SDG: 03C1558191

GC VOA

Prep Batch: 53494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4664-1	SS01	Total/NA	Solid	5035	
890-4664-2	SS02	Total/NA	Solid	5035	
890-4664-3	SS03	Total/NA	Solid	5035	
890-4664-4	SS04	Total/NA	Solid	5035	
MB 880-53494/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-53494/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-53494/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4653-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
890-4653-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 53673

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4664-1	SS01	Total/NA	Solid	8021B	53494
890-4664-2	SS02	Total/NA	Solid	8021B	53494
890-4664-3	SS03	Total/NA	Solid	8021B	53494
890-4664-4	SS04	Total/NA	Solid	8021B	53494
MB 880-53494/5-A	Method Blank	Total/NA	Solid	8021B	53494
LCS 880-53494/1-A	Lab Control Sample	Total/NA	Solid	8021B	53494
LCSD 880-53494/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	53494
890-4653-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	53494
890-4653-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	53494

Analysis Batch: 53761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4664-1	SS01	Total/NA	Solid	Total BTEX	
890-4664-2	SS02	Total/NA	Solid	Total BTEX	
890-4664-3	SS03	Total/NA	Solid	Total BTEX	
890-4664-4	SS04	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 53447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4664-1	SS01	Total/NA	Solid	8015B NM	53486
890-4664-2	SS02	Total/NA	Solid	8015B NM	53486
890-4664-3	SS03	Total/NA	Solid	8015B NM	53486
890-4664-4	SS04	Total/NA	Solid	8015B NM	53486
MB 880-53486/1-A	Method Blank	Total/NA	Solid	8015B NM	53486
LCS 880-53486/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	53486
LCSD 880-53486/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	53486
890-4662-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	53486
890-4662-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	53486

Prep Batch: 53486

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4664-1	SS01	Total/NA	Solid	8015NM Prep	
890-4664-2	SS02	Total/NA	Solid	8015NM Prep	
890-4664-3	SS03	Total/NA	Solid	8015NM Prep	
890-4664-4	SS04	Total/NA	Solid	8015NM Prep	
MB 880-53486/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-53486/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum Job ID: 890-4664-1 Project/Site: Outrider 28 Fed 501H SDG: 03C1558191

GC Semi VOA (Continued)

Prep Batch: 53486 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-53486/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4662-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4662-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 53582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch
890-4664-1	SS01	Total/NA	Solid	8015 NM
890-4664-2	SS02	Total/NA	Solid	8015 NM
890-4664-3	SS03	Total/NA	Solid	8015 NM
890-4664-4	SS04	Total/NA	Solid	8015 NM

HPLC/IC

Leach Batch: 53475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4664-1	SS01	Soluble	Solid	DI Leach	
890-4664-2	SS02	Soluble	Solid	DI Leach	
890-4664-3	SS03	Soluble	Solid	DI Leach	
890-4664-4	SS04	Soluble	Solid	DI Leach	
MB 880-53475/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-53475/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-53475/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-28465-A-3-F MS	Matrix Spike	Soluble	Solid	DI Leach	
880-28465-A-3-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 53583

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4664-1	SS01	Soluble	Solid	300.0	53475
890-4664-2	SS02	Soluble	Solid	300.0	53475
890-4664-3	SS03	Soluble	Solid	300.0	53475
890-4664-4	SS04	Soluble	Solid	300.0	53475
MB 880-53475/1-A	Method Blank	Soluble	Solid	300.0	53475
LCS 880-53475/2-A	Lab Control Sample	Soluble	Solid	300.0	53475
LCSD 880-53475/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	53475
880-28465-A-3-F MS	Matrix Spike	Soluble	Solid	300.0	53475
880-28465-A-3-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	53475

Date Received: 05/15/23 09:36

Client: Ensolum Project/Site: Outrider 28 Fed 501H

SDG: 03C1558191

Job ID: 890-4664-1

Client Sample ID: SS01 Lab Sample ID: 890-4664-1 Date Collected: 05/12/23 12:55

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	53494	05/16/23 14:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53673	05/18/23 22:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53761	05/19/23 10:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			53582	05/17/23 10:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	53486	05/16/23 13:04	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53447	05/17/23 03:17	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	53475	05/16/23 12:01	KS	EET MID
Soluble	Analysis	300.0		50	50 mL	50 mL	53583	05/17/23 17:55	CH	EET MID

Client Sample ID: SS02 Lab Sample ID: 890-4664-2

Date Collected: 05/12/23 13:00 Matrix: Solid

Date Received: 05/15/23 09:36

	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	53494	05/16/23 14:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53673	05/18/23 22:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53761	05/19/23 10:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			53582	05/17/23 10:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	53486	05/16/23 13:04	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53447	05/17/23 03:38	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	53475	05/16/23 12:01	KS	EET MID
Soluble	Analysis	300.0		50	50 mL	50 mL	53583	05/17/23 18:00	CH	EET MID

Client Sample ID: SS03 Lab Sample ID: 890-4664-3 Date Collected: 05/12/23 13:05 **Matrix: Solid**

Date Received: 05/15/23 09:36

	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	53494	05/16/23 14:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53673	05/18/23 23:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53761	05/19/23 10:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			53582	05/17/23 10:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	53486	05/16/23 13:04	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53447	05/17/23 03:59	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	53475	05/16/23 12:01	KS	EET MID
Soluble	Analysis	300.0		100	50 mL	50 mL	53583	05/17/23 18:06	CH	EET MID

Client Sample ID: SS04 Lab Sample ID: 890-4664-4 Date Collected: 05/12/23 13:10 **Matrix: Solid**

Date Received: 05/15/23 09:36

Г										
	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	53494	05/16/23 14:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53673	05/18/23 23:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53761	05/19/23 10:46	SM	EET MID

Eurofins Carlsbad

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Date Received: 05/15/23 09:36

Lab Chronicle

Client: Ensolum Job ID: 890-4664-1 Project/Site: Outrider 28 Fed 501H SDG: 03C1558191

Client Sample ID: SS04 Lab Sample ID: 890-4664-4 Date Collected: 05/12/23 13:10

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			53582	05/17/23 10:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	53486	05/16/23 13:04	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53447	05/17/23 04:19	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	53475	05/16/23 12:01	KS	EET MID
Soluble	Analysis	300.0		50	50 mL	50 mL	53583	05/17/23 18:11	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-4664-1 Project/Site: Outrider 28 Fed 501H

SDG: 03C1558191

Laboratory: Eurofins Midland

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

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

Method Summary

Client: Ensolum Job ID: 890-4664-1 Project/Site: Outrider 28 Fed 501H

SDG: 03C1558191

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 28 Fed 501H

Job ID: 890-4664-1

SDG: 03C1558191

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4664-1	SS01	Solid	05/12/23 12:55	05/15/23 09:36	0.5'
890-4664-2	SS02	Solid	05/12/23 13:00	05/15/23 09:36	0.5'
890-4664-3	SS03	Solid	05/12/23 13:05	05/15/23 09:36	0.5'
890-4664-4	SS04	Solid	05/12/23 13:10	05/15/23 09:36	0.5'

« eurotins	OTINS Environment Testing	Houston, T Midland, TX (Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-333
	Xenco	EL Paso, T) Hobbs, NM	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs. NM (575) 392-7550, Carlsbad, NM (575) 988-3199
Project Manager:	Tacoma Morrissey	Bill to: (if different)	Garrett Green
Company Name:	Ensolum	Company Name:	XTO Energy
Address:	3122 National Parks Hwy	Address:	3104 E. Green St.
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone.	303-887-2046	Email: Carrett Croop Evyon Mobil com	Sp. Mobil com

Project Number: Project Location:

Outrider 28 Fed 501H

03C1558191

✓ Routine

Turn Around Rush

ANALYSIS REQUEST

Deliverables: EDD

State of Project:

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

Work Order No:

2000 20			6						
			35 0934	013/	7	hy Spar	مرهر ها	The	Charter
Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time I	D	ire)	Received by: (Signature)	Receive	ature)	Relinquished by: (Signature)
	It assigns standard terms and conditions edue to circumstances beyond the control will be enforced unless previously negotiated.	lotice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	y to Eurofins Xenco, its es or expenses incurre itted to Eurofins Xenco,	ient compan for any loss ample subm	hase order from cl any responsibility ye of \$5 for each s	itutes a valid purc shall not assume roject and a charg	samples consti of samples and pplied to each p	and relinquishment of iable only for the cost rige of \$85.00 will be a	e: Signature of this documen vice. Eurofins Xenco will be rofins Xenco. A minimum ch
Sn ∪ V Zn 470 /7471	Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Tl Sn U V Zn Ni Se Ag Tl U Hg: 1631/245.1/7470/7471	Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni I Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U	b As Ba Be B Cd Sb As Ba Be Cd	Al Sb A	RA 13PPM Texas 11 AI Sb As Ba Be B	8RCRA 13PPN		200.8 / 6020: lal(s) to be analyz	Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed
			Z						
			Citat	/	/				
	AFE:								
2222921001		090-4664 Chain of Custody							
nter:	Cost Center:		/ / /		.5 G	1,10		_	6504
			///		5 6	1.05			5503
nAPP2306054654			///		,5 G	00.			5502
ID:	Incident ID:		///	-	,5 G	12:55	5/11/23	2	5501
Sample Comments	San		TPH (80	# of Cont	Depth Grab/	Time Sampled	Date Sampled	on Matrix	Sample Identification
NaOH+Ascorbic Acid: SAPC	NaOH+As		015)	1056	0.8	emperature:	Corrected Temperature		Total Containers:
Zn Acetate+NaOH: Zn	Zn Acetat				e is	Reading:	Temperature Reading:	Yes No (N/A)	Sample Custody Seals:
NaSO ₃	Na ₂ S ₂ O ₃ : NaSO ₃		A: 3	_	4.0	actor:	Correction Factor	0	Cooler Custody Seals:
NABIS	NaHSO ₄ NABIS			-	1/m - 307	r ID:	Thermometer ID:	(say	Samples Received Intact:
ס	H₃PO₄: HP		.0)	ete	No No	Wet Ice:	(es) No	Temp Blank:	SAMPLE RECEIPT
NaOH: Na	H ₂ S0 ₄ : H ₂			rs	the lab, if received by 4:30pm	the lab, if rec			PO#:
HNO3: HN	HCL: HC				TAT starts the day received by	TAT starts the	man	Connor Whitman	Sampler's Name:

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4664-1

SDG Number: 03C1558191

Login Number: 4664 List Source: Eurofins Carlsbad

List Number: 1

Creator: Stutzman, Amanda Question

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

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Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4664-1

SDG Number: 03C1558191

List Source: Eurofins Midland List Creation: 05/16/23 10:43 AM

List Number: 2 Creator: Rodriguez, Leticia

Login Number: 4664

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

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<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill

Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 5/30/2023 12:16:03 PM

JOB DESCRIPTION

Outrider 28 Fed 501H SDG NUMBER 03C1558191

JOB NUMBER

890-4711-1

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 5/30/2023 12:16:03 PM

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

Client: Ensolum
Project/Site: Outrider 28 Fed 501H

Laboratory Job ID: 890-4711-1
SDG: 03C1558191

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Definitions/Glossary

Job ID: 890-4711-1 Client: Ensolum Project/Site: Outrider 28 Fed 501H SDG: 03C1558191

Qualifiers

GC VOA

Qualifier **Qualifier Description** LCS and/or LCSD is outside acceptance 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. U Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

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

Glossary

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

%R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit

CNF Contains No Free Liquid

DFR Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

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

Decision Level Concentration (Radiochemistry) DLC

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

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

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Project/Site: Outrider 28 Fed 501H

Job ID: 890-4711-1

SDG: 03C1558191

Job ID: 890-4711-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4711-1

Receipt

The samples were received on 5/23/2023 8:34 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.8°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: PH04 (890-4711-1), PH03 (890-4711-2), PH02 (890-4711-3), PH01 (890-4711-4), SW01 (890-4711-5), SW02 (890-4711-6), FS01 (890-4711-7), FS02 (890-4711-8), FS03 (890-4711-9), FS04 (890-4711-10), FS05 (890-4711-11), FS06 (890-4711-12), FS07 (890-4711-13), FS08 (890-4711-14), FS09 (890-4711-15), FS10 (890-4711-16), FS11 (890-4711-17), FS12 (890-4711-18) and FS13 (890-4711-19).

GC VOA

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-54106 and analytical batch 880-54208 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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 880-54064 and analytical batch 880-54024 was outside the upper control limits.

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

HPLC/IC

Method 300 ORGFM 28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-54057 and analytical batch 880-54094 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Matrix: Solid

Lab Sample ID: 890-4711-1

05/25/23 10:20

Lab Sample ID: 890-4711-2

 Client: Ensolum
 Job ID: 890-4711-1

 Project/Site: Outrider 28 Fed 501H
 SDG: 03C1558191

Client Sample ID: PH04

Date Collected: 05/22/23 09:10 Date Received: 05/23/23 08:34

Sample Depth: 1.5'

Total TPH

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *+	0.00201	mg/Kg		05/24/23 16:22	05/27/23 00:07	1
Toluene	<0.00201	U	0.00201	mg/Kg		05/24/23 16:22	05/27/23 00:07	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		05/24/23 16:22	05/27/23 00:07	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		05/24/23 16:22	05/27/23 00:07	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		05/24/23 16:22	05/27/23 00:07	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		05/24/23 16:22	05/27/23 00:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130			05/24/23 16:22	05/27/23 00:07	1
1,4-Difluorobenzene (Surr)	95		70 - 130			05/24/23 16:22	05/27/23 00:07	1
Method: TAL SOP Total BTEX	- Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			05/30/23 09:08	1
- Method: SW846 8015 NM - Die	esel Range Organ	ics (DRO) (GC)					
Analyte	• •	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		05/24/23 12:15	05/24/23 21:57	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		05/24/23 12:15	05/24/23 21:57	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/24/23 12:15	05/24/23 21:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130			05/24/23 12:15	05/24/23 21:57	1
o-Terphenyl	121		70 - 130			05/24/23 12:15	05/24/23 21:57	1

49.8

mg/Kg

<49.8 U

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble							
Analyte	Result Qualifi	ier RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	108	4.99	mg/Kg			05/24/23 18:35	1

Client Sample ID: PH03

Date Collected: 05/22/23 09:20 Date Received: 05/23/23 08:34

Sample Depth: 1.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U *+	0.00202	mg/Kg		05/24/23 16:22	05/27/23 00:27	1
Toluene	<0.00202	U	0.00202	mg/Kg		05/24/23 16:22	05/27/23 00:27	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		05/24/23 16:22	05/27/23 00:27	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		05/24/23 16:22	05/27/23 00:27	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		05/24/23 16:22	05/27/23 00:27	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		05/24/23 16:22	05/27/23 00:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130			05/24/23 16:22	05/27/23 00:27	1

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Matrix: Solid

 Client: Ensolum
 Job ID: 890-4711-1

 Project/Site: Outrider 28 Fed 501H
 SDG: 03C1558191

lient Sample ID: PH03

Lab Sample ID: 890-4711-2

Client Sample ID: PH03

Date Collected: 05/22/23 09:20

Matrix: Solid

Date Received: 05/23/23 08:34

Sample Depth: 1.5'

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

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1.4-Difluorobenzene (Surr)	96	70 - 130	05/24/23 16:22	05/27/23 00:27	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404 U	0.00404	ma/Ka			05/30/23 09:08	1

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

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 U	50.0	ma/Ka		.	05/25/23 10:20	1

Method: SW846 8015B NM - Diesel Range Organics (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		05/24/23 12:15	05/24/23 23:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/24/23 12:15	05/24/23 23:01	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/24/23 12:15	05/24/23 23:01	1
Surrogate	%Pecovery	Qualifier	l imite			Propared	Analyzod	Dil Eac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111	70 - 130	05/24/23 12:15	05/24/23 23:01	1
o-Terphenyl	115	70 - 130	05/24/23 12:15	05/24/23 23:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualif		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	90.8	5.01	mg/Kg			05/24/23 18:51	1

Client Sample ID: PH02 Lab Sample ID: 890-4711-3

Date Collected: 05/22/23 12:50 Date Received: 05/23/23 08:34

Sample Depth: 1.5'

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

Welliou. 344040 0021B - Volat	ne Organic Comp	ourius (GC))					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *+	0.00199	mg/Kg		05/24/23 16:22	05/27/23 00:48	1
Toluene	< 0.00199	U	0.00199	mg/Kg		05/24/23 16:22	05/27/23 00:48	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		05/24/23 16:22	05/27/23 00:48	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/24/23 16:22	05/27/23 00:48	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		05/24/23 16:22	05/27/23 00:48	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/24/23 16:22	05/27/23 00:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 130			05/24/23 16:22	05/27/23 00:48	

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzea	DII Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	05/24/23 16:22	05/27/23 00:48	1
1,4-Difluorobenzene (Surr)	95		70 - 130	05/24/23 16:22	05/27/23 00:48	1

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			05/30/23 09:08	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/25/23 10:20	1

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Matrix: Solid

Client: Ensolum Project/Site: Outrider 28 Fed 501H SDG: 03C1558191

Client Sample ID: PH02 Lab Sample ID: 890-4711-3 Date Collected: 05/22/23 12:50 Matrix: Solid

Date Received: 05/23/23 08:34 Sample Depth: 1.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		05/24/23 12:15	05/24/23 23:23	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		05/24/23 12:15	05/24/23 23:23	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/24/23 12:15	05/24/23 23:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane			70 - 130			05/24/23 12:15	05/24/23 23:23	1
o-Terphenyl	116		70 - 130			05/24/23 12:15	05/24/23 23:23	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: PH01 Lab Sample ID: 890-4711-4 Date Collected: 05/22/23 12:55 Matrix: Solid

Date Received: 05/23/23 08:34

Sample Depth: 1.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *+	0.00199	mg/Kg		05/24/23 16:22	05/27/23 01:08	1
Toluene	< 0.00199	U	0.00199	mg/Kg		05/24/23 16:22	05/27/23 01:08	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		05/24/23 16:22	05/27/23 01:08	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/24/23 16:22	05/27/23 01:08	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		05/24/23 16:22	05/27/23 01:08	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/24/23 16:22	05/27/23 01:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130			05/24/23 16:22	05/27/23 01:08	1
1,4-Difluorobenzene (Surr)	94		70 - 130			05/24/23 16:22	05/27/23 01:08	1
Method: TAL SOP Total BTEX - T		culation Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398		0.00398	mg/Kg		гтератец	05/30/23 09:08	Dil Fac
Method: SW846 8015 NM - Diese		ics (DRO) (GC)	Unit	D	Dronovod	Analyzad	Dil Fac
Analyte						Prepared	Analyzed	
Total TPH - -	<49.9		49.9	mg/Kg			05/25/23 10:20	1
Method: SW846 8015B NM - Dies								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/24/23 12:15	05/24/23 23:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/24/23 12:15	05/24/23 23:44	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/24/23 12:15	05/24/23 23:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130			05/24/23 12:15	05/24/23 23:44	1

Matrix: Solid

Client: Ensolum Project/Site: Outrider 28 Fed 501H SDG: 03C1558191

Client Sample ID: PH01 Lab Sample ID: 890-4711-4

Date Collected: 05/22/23 12:55 Date Received: 05/23/23 08:34

Sample Depth: 1.5'

Method: EPA 300.0 - Anions, Ion (Chromatography - Soluble						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	151	4.98	mg/Kg			05/24/23 19:02	1

Client Sample ID: SW01 Lab Sample ID: 890-4711-5 Matrix: Solid

Date Collected: 05/22/23 14:35 Date Received: 05/23/23 08:34

Sample Depth: 0-1.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U *+	0.00200	mg/Kg		05/24/23 16:22	05/27/23 01:28	
Toluene	<0.00200	U	0.00200	mg/Kg		05/24/23 16:22	05/27/23 01:28	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/24/23 16:22	05/27/23 01:28	
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/24/23 16:22	05/27/23 01:28	
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/24/23 16:22	05/27/23 01:28	
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/24/23 16:22	05/27/23 01:28	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	92		70 - 130			05/24/23 16:22	05/27/23 01:28	
1,4-Difluorobenzene (Surr)	97		70 - 130			05/24/23 16:22	05/27/23 01:28	
· Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00399	U	0.00399	mg/Kg			05/30/23 09:08	
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<49.9	U	49.9	mg/Kg			05/25/23 10:20	
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/24/23 12:15	05/25/23 00:05	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/24/23 12:15	05/25/23 00:05	
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/24/23 12:15	05/25/23 00:05	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	102		70 - 130			05/24/23 12:15	05/25/23 00:05	
o-Terphenyl	106		70 - 130			05/24/23 12:15	05/25/23 00:05	
·	Chromatogran	hy - Solubl	6					
Method: EPA 300.0 - Anions, Ion	Cilioniatograp	on Conduction						
Method: EPA 300.0 - Anions, Ion Analyte	• •	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client: Ensolum Project/Site: Outrider 28 Fed 501H SDG: 03C1558191

Client Sample ID: SW02 Lab Sample ID: 890-4711-6

Date Collected: 05/22/23 14:40 Matrix: Solid Date Received: 05/23/23 08:34

Sample Depth: 0-1.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U *+	0.00202	mg/Kg		05/24/23 16:22	05/27/23 01:49	1
Toluene	<0.00202	U	0.00202	mg/Kg		05/24/23 16:22	05/27/23 01:49	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		05/24/23 16:22	05/27/23 01:49	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		05/24/23 16:22	05/27/23 01:49	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		05/24/23 16:22	05/27/23 01:49	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		05/24/23 16:22	05/27/23 01:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130			05/24/23 16:22	05/27/23 01:49	1
1,4-Difluorobenzene (Surr)	95		70 - 130			05/24/23 16:22	05/27/23 01:49	1
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			05/30/23 09:08	1
			•	l lait	ь.	Drangrad	Analyzad	Dil Ess
Method: SW846 8015 NM - Diese			•		_			
Analyte		Qualifier	RL 49.8	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 05/25/23 10:20	Dil Fac
Analyte Total TPH	Result <49.8	Qualifier U	49.8		<u>D</u>	Prepared		Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die	Result <49.8	Qualifier U	RL 49.8	mg/Kg		· ·	05/25/23 10:20	1
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte	Result <49.8 sel Range Orga Result	Qualifier Unics (DRO) Qualifier	RL 49.8 (GC)	mg/Kg	<u>D</u>	Prepared	05/25/23 10:20 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics	Result <49.8	Qualifier Unics (DRO) Qualifier	RL 49.8	mg/Kg		· ·	05/25/23 10:20	1
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.8 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U	RL 49.8 (GC)	mg/Kg		Prepared	05/25/23 10:20 Analyzed	1 Dil Fac
Analyte	Result <49.8 sel Range Orga Result <49.8	Qualifier U nics (DRO) Qualifier U	RL 49.8 (GC) RL 49.8	mg/Kg Unit mg/Kg		Prepared 05/24/23 12:15	05/25/23 10:20 Analyzed 05/25/23 00:26	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.8 sel Range Orga Result <49.8 <49.8	Qualifier U nics (DRO) Qualifier U U	RL 49.8 (GC) RL 49.8 49.8	mg/Kg Unit mg/Kg mg/Kg		Prepared 05/24/23 12:15 05/24/23 12:15	05/25/23 10:20 Analyzed 05/25/23 00:26 05/25/23 00:26	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <49.8	Qualifier U nics (DRO) Qualifier U U	RL 49.8 (GC) RL 49.8 49.8	mg/Kg Unit mg/Kg mg/Kg		Prepared 05/24/23 12:15 05/24/23 12:15 05/24/23 12:15	05/25/23 10:20 Analyzed 05/25/23 00:26 05/25/23 00:26 05/25/23 00:26	Dil Fac 1 1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.8	Qualifier U nics (DRO) Qualifier U U	RL 49.8 (GC) RL 49.8 49.8 49.8 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 05/24/23 12:15 05/24/23 12:15 05/24/23 12:15 Prepared	Analyzed 05/25/23 10:20 Analyzed 05/25/23 00:26 05/25/23 00:26 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result <49.8	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 49.8 (GC) RL 49.8 49.8 49.8 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 05/24/23 12:15 05/24/23 12:15 05/24/23 12:15 Prepared 05/24/23 12:15	05/25/23 10:20 Analyzed 05/25/23 00:26 05/25/23 00:26 Analyzed 05/25/23 00:26	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <49.8	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 49.8 (GC) RL 49.8 49.8 49.8 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 05/24/23 12:15 05/24/23 12:15 05/24/23 12:15 Prepared 05/24/23 12:15	05/25/23 10:20 Analyzed 05/25/23 00:26 05/25/23 00:26 Analyzed 05/25/23 00:26	1 Dil Fac 1 1 1 1 Dil Fac 1

Client Sample ID: FS01 Lab Sample ID: 890-4711-7

Date Collected: 05/22/23 13:05 **Matrix: Solid**

Date Received: 05/23/23 08:34

Sample Depth: 1.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *+	0.00200	mg/Kg		05/24/23 16:22	05/27/23 02:09	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/24/23 16:22	05/27/23 02:09	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/24/23 16:22	05/27/23 02:09	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		05/24/23 16:22	05/27/23 02:09	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/24/23 16:22	05/27/23 02:09	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		05/24/23 16:22	05/27/23 02:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130			05/24/23 16:22	05/27/23 02:09	1

Matrix: Solid

Client: Ensolum

Job ID: 890-4711-1 Project/Site: Outrider 28 Fed 501H SDG: 03C1558191

Client Sample ID: FS01 Lab Sample ID: 890-4711-7

Date Collected: 05/22/23 13:05 Date Received: 05/23/23 08:34

Sample Depth: 1.5'

Method: SW846 8021B	- Volatile Organic	Compounds (GC)	(Continued)
moundar official course	Tolumo Organio	oompounae (,	(Continuou,

Surrogate	%Recovery Qu	ualifier Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	101	70 - 130	05/24/23 16:22	05/27/23 02:09	1

Method: TAL SOP	Total RTEY - Tota	I RTEY Calculation
Method. IAL SUP	TOTAL DIEV - TOTA	I DIEA CAICUIALION

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401 U	0.00401	ma/Ka			05/30/23 09:08	1

Mathed CMO4C CO4E NM Discal Dance Occasion (DI	201	1001	
Method: SW846 8015 NM - Diesel Range Organics (DI	くしょいし	((36.)	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/25/23 10:20	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	<50.0	U	50.0	mg/Kg		05/24/23 12:15	05/25/23 00:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/24/23 12:15	05/25/23 00:47	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/24/23 12:15	05/25/23 00:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110	70 - 130	05/24/23 12:15	05/25/23 00:47	1
o-Terphenyl	116	70 - 130	05/24/23 12:15	05/25/23 00:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte		ualifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	136	5.04	mg/Kg			05/24/23 19:29	1

Client Sample ID: FS02 Lab Sample ID: 890-4711-8

Date Collected: 05/22/23 13:10 Date Received: 05/23/23 08:34

Sample Depth: 1.5'

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

mothod. Offoro COLID Tolution	organio comp	ounas (oo	,					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *+	0.00199	mg/Kg		05/24/23 16:22	05/27/23 02:30	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/24/23 16:22	05/27/23 02:30	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/24/23 16:22	05/27/23 02:30	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/24/23 16:22	05/27/23 02:30	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/24/23 16:22	05/27/23 02:30	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/24/23 16:22	05/27/23 02:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130			05/24/23 16:22	05/27/23 02:30	1
1,4-Difluorobenzene (Surr)	97		70 - 130			05/24/23 16:22	05/27/23 02:30	1

Mothod: TAI	SOP Total RTFY	- Total RTFY	Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00398	U	0.00398	ma/Ka			05/30/23 09:08	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/25/23 10:20	1

Eurofins Carlsbad

Matrix: Solid

Client: Ensolum Job ID: 890-4711-1 Project/Site: Outrider 28 Fed 501H SDG: 03C1558191

Client Sample ID: FS02 Lab Sample ID: 890-4711-8

Date Collected: 05/22/23 13:10 Matrix: Solid Date Received: 05/23/23 08:34

Sample Depth: 1.5'

Method: SW846 8015B NM - Dies	sel Range Orga	inics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		05/24/23 12:15	05/25/23 01:07	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		05/24/23 12:15	05/25/23 01:07	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/24/23 12:15	05/25/23 01:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130			05/24/23 12:15	05/25/23 01:07	1
o-Terphenyl	120		70 - 130			05/24/23 12:15	05/25/23 01:07	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	147		5.00	mg/Kg		-	05/24/23 19:34	-

Lab Sample ID: 890-4711-9 **Client Sample ID: FS03** Date Collected: 05/22/23 13:15 Matrix: Solid

Date Received: 05/23/23 08:34

Sample Depth: 1.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *+	0.00199	mg/Kg		05/24/23 16:22	05/27/23 02:50	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/24/23 16:22	05/27/23 02:50	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		05/24/23 16:22	05/27/23 02:50	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/24/23 16:22	05/27/23 02:50	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		05/24/23 16:22	05/27/23 02:50	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/24/23 16:22	05/27/23 02:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			05/24/23 16:22	05/27/23 02:50	1
1,4-Difluorobenzene (Surr)	84		70 - 130			05/24/23 16:22	05/27/23 02:50	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	П	0.00000	""			05/00/00 00 00	
IOIAI DI EX	~0.00390	U	0.00398	mg/Kg			05/30/23 09:08	1
IOIAI BIEX	\0.00390	U	0.00398	mg/Kg			05/30/23 09:08	1
Method: SW846 8015 NM - Diese				mg/Kg			05/30/23 09:08	1
: Method: SW846 8015 NM - Diese	el Range Organ			mg/kg	D	Prepared	05/30/23 09:08 Analyzed	Dil Fac
•	el Range Organ	ics (DRO) (GC)		<u>D</u>	Prepared		·
Method: SW846 8015 NM - Diese Analyte	Result <50.0	ics (DRO) (Gualifier	RL 50.0	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH	el Range Organ Result <50.0 sel Range Organ	ics (DRO) (Gualifier	RL 50.0	Unit	<u>D</u>	Prepared Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies	el Range Organ Result <50.0 sel Range Organ	Qualifier Unics (DRO) Qualifier	RL 50.0	Unit mg/Kg			Analyzed 05/25/23 10:20	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte	el Range Organ Result <50.0 sel Range Orga Result	Qualifier Unics (DRO) Qualifier	GC) RL 50.0 (GC) RL	Unit mg/Kg		Prepared	Analyzed 05/25/23 10:20 Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	el Range Organ Result <50.0 sel Range Orga Result	ics (DRO) (Qualifier U nnics (DRO) Qualifier U	GC) RL 50.0 (GC) RL	Unit mg/Kg		Prepared	Analyzed 05/25/23 10:20 Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	el Range Organ Result <50.0 sel Range Orga Result <50.0 <50.0	ics (DRO) (Qualifier U nnics (DRO) Qualifier U	GC) RL 50.0 (GC) RL 50.0 50.0	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 05/24/23 12:15 05/24/23 12:15	Analyzed 05/25/23 10:20 Analyzed 05/25/23 01:28 05/25/23 01:28	Dil Fac Dil Fac 1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10	el Range Organ Result <50.0 sel Range Orga Result <50.0	ics (DRO) (Qualifier U nnics (DRO) Qualifier U	GC) RL 50.0 (GC) RL 50.0	Unit mg/Kg Unit mg/Kg		Prepared 05/24/23 12:15	Analyzed 05/25/23 10:20 Analyzed 05/25/23 01:28	Dil Fac Dil Fac 1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	el Range Organ Result <50.0 sel Range Orga Result <50.0 <50.0 <80.0 <80.0 %Recovery	ics (DRO) (Qualifier U unics (DRO) Qualifier U U	GC) RL 50.0 (GC) RL 50.0 50.0 50.0 Limits	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 05/24/23 12:15 05/24/23 12:15 05/24/23 12:15 Prepared	Analyzed 05/25/23 10:20 Analyzed 05/25/23 01:28 05/25/23 01:28 05/25/23 01:28 Analyzed	Dil Fac Dil Fac 1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	el Range Organ Result <50.0 sel Range Orga Result <50.0 <50.0 <50.0	ics (DRO) (Qualifier U unics (DRO) Qualifier U U	GC) RL 50.0 (GC) RL 50.0 50.0 50.0	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 05/24/23 12:15 05/24/23 12:15 05/24/23 12:15	Analyzed 05/25/23 10:20 Analyzed 05/25/23 01:28 05/25/23 01:28	Dil Fac Dil Fac 1 1 1

Matrix: Solid

Job ID: 890-4711-1

Client: Ensolum Project/Site: Outrider 28 Fed 501H SDG: 03C1558191

Client Sample ID: FS03 Lab Sample ID: 890-4711-9

Date Collected: 05/22/23 13:15 Matrix: Solid Date Received: 05/23/23 08:34

Sample Depth: 1.5'

Method: EPA 300.0 - Anions, I	on Chromatography - Solubl	e					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	133	4.95	mg/Kg			05/24/23 19:39	1

Client Sample ID: FS04 Lab Sample ID: 890-4711-10

Date Collected: 05/22/23 13:45 Date Received: 05/23/23 08:34

Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U *+	0.00200	mg/Kg		05/24/23 16:22	05/27/23 03:10	
Toluene	<0.00200	U	0.00200	mg/Kg		05/24/23 16:22	05/27/23 03:10	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/24/23 16:22	05/27/23 03:10	
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/24/23 16:22	05/27/23 03:10	
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/24/23 16:22	05/27/23 03:10	
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/24/23 16:22	05/27/23 03:10	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	103		70 - 130			05/24/23 16:22	05/27/23 03:10	
1,4-Difluorobenzene (Surr)	92		70 - 130			05/24/23 16:22	05/27/23 03:10	
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	ulation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00399	U	0.00399	mg/Kg			05/30/23 09:08	
Analyte Total TPH		Qualifier U	49.9	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 05/25/23 10:20	Dil Fa
Total TPH	<49.9	U	49.9	mg/Kg			05/25/23 10:20	
Method: SW846 8015B NM - Dies			(GC)					
Analyte					_			
		Qualifier	RL	Unit	D	Prepared	Analyzed	
Gasoline Range Organics	Result <49.9		RL 49.9	mg/Kg	<u>D</u>	Prepared 05/24/23 12:15	Analyzed 05/25/23 01:48	
Gasoline Range Organics (GRO)-C6-C10		U		mg/Kg	<u>D</u>			
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<49.9	U	49.9		<u>D</u>	05/24/23 12:15	05/25/23 01:48	
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg	<u>D</u>	05/24/23 12:15	05/25/23 01:48	
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<49.9 <49.9	U U	49.9	mg/Kg	<u>D</u>	05/24/23 12:15 05/24/23 12:15	05/25/23 01:48 05/25/23 01:48	
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<49.9 <49.9 <49.9	U U	49.9 49.9 49.9	mg/Kg	<u>D</u>	05/24/23 12:15 05/24/23 12:15 05/24/23 12:15	05/25/23 01:48 05/25/23 01:48 05/25/23 01:48	Dil Fa
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate	<49.9 <49.9 <49.9 %Recovery	U U	49.9 49.9 49.9 Limits	mg/Kg	<u> </u>	05/24/23 12:15 05/24/23 12:15 05/24/23 12:15 Prepared	05/25/23 01:48 05/25/23 01:48 05/25/23 01:48 Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<49.9 <49.9 <49.9 **Recovery 112 117	U U U Qualifier	49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg	<u>D</u>	05/24/23 12:15 05/24/23 12:15 05/24/23 12:15 Prepared 05/24/23 12:15	05/25/23 01:48 05/25/23 01:48 05/25/23 01:48 Analyzed 05/25/23 01:48	Dil Fa
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<49.9 <49.9 <49.9 **Recovery 112 117 Chromatograp	U U U Qualifier	49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg	<u>D</u>	05/24/23 12:15 05/24/23 12:15 05/24/23 12:15 Prepared 05/24/23 12:15	05/25/23 01:48 05/25/23 01:48 05/25/23 01:48 Analyzed 05/25/23 01:48	Dil Fa

Matrix: Solid

Client Sample Results

 Client: Ensolum
 Job ID: 890-4711-1

 Project/Site: Outrider 28 Fed 501H
 SDG: 03C1558191

Client Sample ID: FS05 Lab Sample ID: 890-4711-11

Date Collected: 05/22/23 13:50
Date Received: 05/23/23 08:34

Sample Depth: 1.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *+	0.00201	mg/Kg		05/24/23 16:22	05/27/23 05:00	1
Toluene	<0.00201	U	0.00201	mg/Kg		05/24/23 16:22	05/27/23 05:00	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		05/24/23 16:22	05/27/23 05:00	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		05/24/23 16:22	05/27/23 05:00	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		05/24/23 16:22	05/27/23 05:00	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		05/24/23 16:22	05/27/23 05:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130			05/24/23 16:22	05/27/23 05:00	1
1,4-Difluorobenzene (Surr)	92		70 - 130			05/24/23 16:22	05/27/23 05:00	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
: Method: SW846 8015 NM - Diese	al Range Organ	ics (DRO) ((ec)					
Analyte		Qualifier	RL RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			05/25/23 10:20	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		05/24/23 12:15	05/25/23 02:30	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		05/24/23 12:15	05/25/23 02:30	
U1U-U201								1
,	<49.8	U	49.8	mg/Kg		05/24/23 12:15	05/25/23 02:30	
Oll Range Organics (Over C28-C36) Surrogate	<49.8 %Recovery		49.8 <i>Limits</i>	mg/Kg		05/24/23 12:15 Prepared	05/25/23 02:30 Analyzed	1
OII Range Organics (Over C28-C36)				mg/Kg				Dil Fac
Oll Range Organics (Over C28-C36) Surrogate	%Recovery		Limits	mg/Kg		Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: EPA 300.0 - Anions, Ion	%Recovery 109 115 Chromatograp	Qualifier	Limits 70 - 130 70 - 130			Prepared 05/24/23 12:15	Analyzed 05/25/23 02:30	1 1 <i>Dil Fac</i> 1
Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	%Recovery 109 115 Chromatograp	Qualifier hy - Solubl Qualifier	Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg	<u>D</u>	Prepared 05/24/23 12:15	Analyzed 05/25/23 02:30	1 Dil Fac

Client Sample ID: FS06

Lab Sample ID: 890-4711-12

Date Collected: 05/22/23 13:55

Matrix: Solid

Date Received: 05/23/23 08:34

Sample Depth: 1.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *+	0.00200	mg/Kg		05/24/23 16:22	05/27/23 05:21	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/24/23 16:22	05/27/23 05:21	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/24/23 16:22	05/27/23 05:21	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		05/24/23 16:22	05/27/23 05:21	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/24/23 16:22	05/27/23 05:21	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		05/24/23 16:22	05/27/23 05:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130			05/24/23 16:22	05/27/23 05:21	1

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Client: Ensolum Project/Site: Outrider 28 Fed 501H SDG: 03C1558191

Client Sample ID: FS06 Lab Sample ID: 890-4711-12

Date Collected: 05/22/23 13:55 Matrix: Solid Date Received: 05/23/23 08:34

Sample Depth: 1.5'

Method: SW846 8021B - Volatile	Organic Compounds	(GC) (Continued)
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Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	92	70 - 130	05/24/23 16:22	05/27/23 05:21	1

Mothod: TAL SO	P Total RTFY - Tot	al BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			05/30/23 09:08	1

Mathada CMO4C CO4E NM Disast Dansa Consulta (DDC) (C)	△ \
Method: SW846 8015 NM - Diesel Range Organics (DRO) (G	

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U	49.9	ma/Ka		.	05/25/23 10:20	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/24/23 12:15	05/25/23 02:50	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/24/23 12:15	05/25/23 02:50	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/24/23 12:15	05/25/23 02:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106	70 - 130	05/24/23 12:15	05/25/23 02:50	1
o-Terphenyl	110	70 - 130	05/24/23 12:15	05/25/23 02:50	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	64.2	4.96	mg/Kg			05/24/23 20:06	1

Client Sample ID: FS07 Lab Sample ID: 890-4711-13 Matrix: Solid

Date Collected: 05/22/23 14:00 Date Received: 05/23/23 08:34

Sample Depth: 1.5'

Markland, CIMO 40 00	21B - Volatile Organic	O
IVIATOON' SVVXAN XII	21B - Volatile Circanic	L.Omnollings (Lat.)

Modifical Officero Cozin	, organio comp	ourius (CC)	,					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *+	0.00199	mg/Kg		05/24/23 16:22	05/27/23 05:41	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/24/23 16:22	05/27/23 05:41	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/24/23 16:22	05/27/23 05:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/24/23 16:22	05/27/23 05:41	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/24/23 16:22	05/27/23 05:41	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/24/23 16:22	05/27/23 05:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130			05/24/23 16:22	05/27/23 05:41	1

4-Bromofluorobenzene (Surr)	88	70 - 130	05/24/23 16:22	05/27/23 05:41	1
1,4-Difluorobenzene (Surr)	93	70 - 130	05/24/23 16:22	05/27/23 05:41	1

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			05/30/23 09:08	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/25/23 10:20	1

Client: Ensolum Job ID: 890-4711-1 Project/Site: Outrider 28 Fed 501H SDG: 03C1558191

Client Sample ID: FS07 Lab Sample ID: 890-4711-13

Date Collected: 05/22/23 14:00 Matrix: Solid Date Received: 05/23/23 08:34

Sample Depth: 1.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/24/23 12:15	05/25/23 03:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/24/23 12:15	05/25/23 03:11	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/24/23 12:15	05/25/23 03:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130			05/24/23 12:15	05/25/23 03:11	1
o-Terphenyl	114		70 - 130			05/24/23 12:15	05/25/23 03:11	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	121		5.04	mg/Kg			05/24/23 20:11	

Client Sample ID: FS08 Lab Sample ID: 890-4711-14

Date Collected: 05/22/23 14:05 Date Received: 05/23/23 08:34

Sample Depth: 1.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *+	0.00199	mg/Kg		05/24/23 16:22	05/27/23 06:02	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/24/23 16:22	05/27/23 06:02	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/24/23 16:22	05/27/23 06:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/24/23 16:22	05/27/23 06:02	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/24/23 16:22	05/27/23 06:02	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/24/23 16:22	05/27/23 06:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130			05/24/23 16:22	05/27/23 06:02	1
1,4-Difluorobenzene (Surr)	95		70 - 130			05/24/23 16:22	05/27/23 06:02	1
Method: TAL SOP Total BTEX - 1	otal BTEX Calo	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/30/23 09:08	1
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/25/23 10:20	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/24/23 12:15	05/25/23 03:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/24/23 12:15	05/25/23 03:31	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/24/23 12:15	05/25/23 03:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane			70 - 130			05/24/23 12:15	05/25/23 03:31	1

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Matrix: Solid

Job ID: 890-4711-1 SDG: 03C1558191

Client: Ensolum Project/Site: Outrider 28 Fed 501H

Client Sample ID: FS08 Lab Sample ID: 890-4711-14 Date Collected: 05/22/23 14:05

Date Received: 05/23/23 08:34

Matrix: Solid

Sample Depth: 1.5'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac			
Chloride	167	5.02	mg/Kg			05/24/23 20:28	1			

Lab Sample ID: 890-4711-15 **Client Sample ID: FS09**

Date Collected: 05/22/23 14:10 Date Received: 05/23/23 08:34 Matrix: Solid

Sample Depth: 1.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *+	0.00200	mg/Kg		05/24/23 16:22	05/27/23 06:22	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/24/23 16:22	05/27/23 06:22	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/24/23 16:22	05/27/23 06:22	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/24/23 16:22	05/27/23 06:22	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/24/23 16:22	05/27/23 06:22	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/24/23 16:22	05/27/23 06:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			05/24/23 16:22	05/27/23 06:22	1
1,4-Difluorobenzene (Surr)	96		70 - 130			05/24/23 16:22	05/27/23 06:22	1

Analyte	Result		RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			05/30/23 09:08	1
								

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Total TPH	<50.0	U	50.0	mg/Kg			05/25/23 10:20	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/24/23 12:15	05/25/23 03:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/24/23 12:15	05/25/23 03:52	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/24/23 12:15	05/25/23 03:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130			05/24/23 12:15	05/25/23 03:52	1
o-Terphenyl	118		70 - 130			05/24/23 12:15	05/25/23 03:52	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	435		4.97	mg/Kg			05/24/23 20:33	1

Matrix: Solid

Job ID: 890-4711-1

Project/Site: Outrider 28 Fed 501H

Client Sample ID: FS10

Lab Sample ID: 890-4711-16

Date Collected: 05/22/23 14:15 Date Received: 05/23/23 08:34

Sample Depth: 1.5'

Client: Ensolum

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *+	0.00201	mg/Kg		05/24/23 16:22	05/27/23 06:42	1
Toluene	<0.00201	U	0.00201	mg/Kg		05/24/23 16:22	05/27/23 06:42	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		05/24/23 16:22	05/27/23 06:42	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		05/24/23 16:22	05/27/23 06:42	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		05/24/23 16:22	05/27/23 06:42	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		05/24/23 16:22	05/27/23 06:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130			05/24/23 16:22	05/27/23 06:42	1
1,4-Difluorobenzene (Surr)	97		70 - 130			05/24/23 16:22	05/27/23 06:42	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			05/30/23 09:08	1
Method: SW846 8015 NM - Diese	el Range Organ	ice (DPO) ((•••					
Michiga. Offoro ou lo lain - Diese	n itungo organ		GC)					
Analyte		Qualifier	GC) RL	Unit	D	Prepared	Analyzed	Dil Fac
		Qualifier	•	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 05/25/23 10:20	Dil Fac
Analyte	Result <50.0	Qualifier U	50.0		<u>D</u>	Prepared		
Analyte Total TPH	Result <50.0	Qualifier U	50.0		<u>D</u>	Prepared Prepared		
Analyte Total TPH Method: SW846 8015B NM - Dies	Result <50.0	Qualifier U nics (DRO) Qualifier	RL 50.0	mg/Kg		<u> </u>	05/25/23 10:20	1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 Sel Range Orga Result	Qualifier U nics (DRO) Qualifier U	RL 50.0 (GC)	mg/Kg		Prepared	05/25/23 10:20 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	Result <50.0 sel Range Orga Result <50.0	Qualifier U nics (DRO) Qualifier U	(GC) RL 50.0	mg/Kg Unit mg/Kg		Prepared 05/24/23 12:15	05/25/23 10:20 Analyzed 05/25/23 04:12	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0	Qualifier U nics (DRO) Qualifier U U	RL 50.0 (GC) RL 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 05/24/23 12:15 05/24/23 12:15	05/25/23 10:20 Analyzed 05/25/23 04:12 05/25/23 04:12	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0	Qualifier U nics (DRO) Qualifier U U	RL 50.0 (GC) RL 50.0 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 05/24/23 12:15 05/24/23 12:15 05/24/23 12:15	05/25/23 10:20 Analyzed 05/25/23 04:12 05/25/23 04:12 05/25/23 04:12	1 Dil Fac

Client Sample ID: FS11 Lab Sample ID: 890-4711-17

RL

4.95

Unit

mg/Kg

D

Prepared

Analyzed

05/24/23 20:38

Dil Fac

Matrix: Solid

Result Qualifier

174

Date Collected: 05/22/23 14:20 Date Received: 05/23/23 08:34

Sample Depth: 1.5'

Analyte

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *+	0.00200	mg/Kg		05/24/23 16:22	05/27/23 07:03	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/24/23 16:22	05/27/23 07:03	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/24/23 16:22	05/27/23 07:03	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		05/24/23 16:22	05/27/23 07:03	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/24/23 16:22	05/27/23 07:03	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		05/24/23 16:22	05/27/23 07:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130			05/24/23 16:22	05/27/23 07:03	

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Client: Ensolum

Job ID: 890-4711-1 SDG: 03C1558191 Project/Site: Outrider 28 Fed 501H

Client Sample ID: FS11 Lab Sample ID: 890-4711-17 Matrix: Solid

Date Collected: 05/22/23 14:20 Date Received: 05/23/23 08:34

Sample Depth: 1.5'

Method: SW846 8021B - Volat	ile Organic Compounds	(GC) (Continued)
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Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	98	70 - 130	05/24/23 16:22	05/27/23 07:03	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401 U	0.00401	ma/Ka			05/30/23 09:08	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			05/25/23 10:20	1

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

		(,	(/					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8	mg/Kg		05/24/23 12:15	05/25/23 04:32	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.8	U	49.8	mg/Kg		05/24/23 12:15	05/25/23 04:32	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/24/23 12:15	05/25/23 04:32	1
Currogato	% Pocovory	Qualifier	Limite			Propared	Analyzod	Dil Esc

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112	70 - 130	05/24/23 12:15	05/25/23 04:32	1
o-Terphenyl	121	70 - 130	05/24/23 12:15	05/25/23 04:32	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	192		4.96	mg/Kg			05/24/23 20:44	1

Client Sample ID: FS12 Lab Sample ID: 890-4711-18 **Matrix: Solid**

Date Collected: 05/22/23 14:25 Date Received: 05/23/23 08:34

Sample Depth: 1.5'

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

			,					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *+	0.00199	mg/Kg		05/24/23 16:22	05/27/23 07:23	1
Toluene	< 0.00199	U	0.00199	mg/Kg		05/24/23 16:22	05/27/23 07:23	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/24/23 16:22	05/27/23 07:23	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/24/23 16:22	05/27/23 07:23	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		05/24/23 16:22	05/27/23 07:23	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/24/23 16:22	05/27/23 07:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			05/24/23 16:22	05/27/23 07:23	1
1 1 Diffusionabanzana (Curri	05		70 120			05/04/00 46:00	05/07/02 07:02	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzea	DII Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	05/24/23 16:22	05/27/23 07:23	1
1,4-Difluorobenzene (Surr)	95		70 - 130	05/24/23 16:22	05/27/23 07:23	1

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			05/30/23 09:08	1

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

Analyte	. 5 5.	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg		_	05/25/23 10:20	1

Matrix: Solid

Lab Sample ID: 890-4711-18

 Client: Ensolum
 Job ID: 890-4711-1

 Project/Site: Outrider 28 Fed 501H
 SDG: 03C1558191

Client Sample ID: FS12

Date Collected: 05/22/23 14:25 Date Received: 05/23/23 08:34

Sample Depth: 1.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/24/23 12:15	05/25/23 04:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/24/23 12:15	05/25/23 04:53	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/24/23 12:15	05/25/23 04:53	1

Surrogate	%Recovery	Qualifier	Limits		Preparea	Anaiyzea	DII Fac
1-Chlorooctane	112		70 - 130	05/	/24/23 12:15	05/25/23 04:53	1
o-Terphenyl	119		70 - 130	05/	/24/23 12:15	05/25/23 04:53	1
Г.,							

Method: EPA 300.0 - Anions, Ion Chromatography - SolubleAnalyteResultQualifierRLUnitDPreparedAnalyzedDil FacChloride7584.98mg/Kg05/24/23 20:491

Client Sample ID: FS13

Date Collected: 05/22/23 14:30

Lab Sample ID: 890-4711-19

Matrix: Solid

Date Received: 05/23/23 08:34

Released to Imaging: 11/29/2023 1:49:15 PM

Sample Depth: 1.5'

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

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199 U *+	0.00199	mg/Kg		05/24/23 16:22	05/27/23 07:44	1
Toluene	<0.00199 U	0.00199	mg/Kg		05/24/23 16:22	05/27/23 07:44	1
Ethylbenzene	<0.00199 U	0.00199	mg/Kg		05/24/23 16:22	05/27/23 07:44	1
m-Xylene & p-Xylene	<0.00398 U	0.00398	mg/Kg		05/24/23 16:22	05/27/23 07:44	1
o-Xylene	<0.00199 U	0.00199	mg/Kg		05/24/23 16:22	05/27/23 07:44	1
Xylenes, Total	<0.00398 U	0.00398	mg/Kg		05/24/23 16:22	05/27/23 07:44	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97	70 - 130	05/24/23 16:22	05/27/23 07:44	1
1,4-Difluorobenzene (Surr)	101	70 - 130	05/24/23 16:22	05/27/23 07:44	1

Method: TAL SOP Total BTEX - Total	al BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/30/23 09:08	1

Method: SW846 8015 NM - Diesel F	Range Organi	cs (DRO) (G	SC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/25/23 10:20	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/24/23 12:15	05/25/23 05:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/24/23 12:15	05/25/23 05:13	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/24/23 12:15	05/25/23 05:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130	05/24/23 12:15	05/25/23 05:13	1
o-Terphenyl	118		70 - 130	05/24/23 12:15	05/25/23 05:13	1

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Client Sample Results

 Client: Ensolum
 Job ID: 890-4711-1

 Project/Site: Outrider 28 Fed 501H
 SDG: 03C1558191

Client Sample ID: FS13 Lab Sample ID: 890-4711-19

Date Collected: 05/22/23 14:30 Date Received: 05/23/23 08:34 Matrix: Solid

Sample Depth: 1.5'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	375		5.00	mg/Kg			05/24/23 20:54	1	

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Surrogate Summary

 Client: Ensolum
 Job ID: 890-4711-1

 Project/Site: Outrider 28 Fed 501H
 SDG: 03C1558191

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
90-4711-1	PH04	83	95	
390-4711-1 MS	PH04	92	100	
890-4711-1 MSD	PH04	93	101	
390-4711-2	PH03	88	96	
390-4711-3	PH02	95	95	
390-4711-4	PH01	90	94	
390-4711-5	SW01	92	97	
390-4711-6	SW02	99	95	
390-4711-7	FS01	97	101	
390-4711-8	FS02	99	97	
390-4711-9	FS03	102	84	
390-4711-10	FS04	103	92	
390-4711-11	FS05	85	92	
390-4711-12	FS06	82	92	
390-4711-13	FS07	88	93	
390-4711-14	FS08	93	95	
390-4711-15	FS09	101	96	
390-4711-16	FS10	96	97	
390-4711-17	FS11	94	98	
390-4711-18	FS12	107	95	
390-4711-19	FS13	97	101	
CS 880-54106/1-A	Lab Control Sample	92	95	
CSD 880-54106/2-A	Lab Control Sample Dup	93	118	
MB 880-54083/5-A	Method Blank	87	104	
ИВ 880-54106/5-A	Method Blank	93	98	

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-4711-1	PH04	114	121	
890-4711-1 MS	PH04	105	100	
890-4711-1 MSD	PH04	113	107	
890-4711-2	PH03	111	115	
890-4711-3	PH02	111	116	
890-4711-4	PH01	112	117	
890-4711-5	SW01	102	106	
890-4711-6	SW02	107	112	
890-4711-7	FS01	110	116	
890-4711-8	FS02	116	120	
890-4711-9	FS03	110	118	
890-4711-10	FS04	112	117	
890-4711-11	FS05	109	115	
890-4711-12	FS06	106	110	

Surrogate Summary

Client: Ensolum Job ID: 890-4711-1 Project/Site: Outrider 28 Fed 501H SDG: 03C1558191

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-4711-13	FS07	110	114	
890-4711-14	FS08	110	114	
890-4711-15	FS09	111	118	
890-4711-16	FS10	110	119	
890-4711-17	FS11	112	121	
890-4711-18	FS12	112	119	
890-4711-19	FS13	111	118	
LCS 880-54064/2-A	Lab Control Sample	86	82	
LCSD 880-54064/3-A	Lab Control Sample Dup	86	84	
MB 880-54064/1-A	Method Blank	169 S1+	181 S1+	

OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-4711-1 SDG: 03C1558191 Project/Site: Outrider 28 Fed 501H

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-54083/5-A

Matrix: Solid Analysis Batch: 54208 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 54083

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/24/23 13:32	05/26/23 12:02	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/24/23 13:32	05/26/23 12:02	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/24/23 13:32	05/26/23 12:02	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/24/23 13:32	05/26/23 12:02	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/24/23 13:32	05/26/23 12:02	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/24/23 13:32	05/26/23 12:02	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	05/24/23 13:32	05/26/23 12:02	1
1,4-Difluorobenzene (Surr)	104		70 - 130	05/24/23 13:32	05/26/23 12:02	1

Lab Sample ID: MB 880-54106/5-A

Matrix: Solid

Analysis Batch: 54208

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

Prep Batch: 54106

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/24/23 16:22	05/26/23 23:38	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/24/23 16:22	05/26/23 23:38	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/24/23 16:22	05/26/23 23:38	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/24/23 16:22	05/26/23 23:38	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/24/23 16:22	05/26/23 23:38	1
Xylenes, Total	< 0.00400	U	0.00400	mg/Kg		05/24/23 16:22	05/26/23 23:38	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	05/24/23 16:22	05/26/23 23:38	1
1,4-Difluorobenzene (Surr)	98		70 - 130	05/24/23 16:22	05/26/23 23:38	1

Lab Sample ID: LCS 880-54106/1-A

Matrix: Solid

Analysis Batch: 54208

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 54106

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1347	*+	mg/Kg		135	70 - 130	
Toluene	0.100	0.1126		mg/Kg		113	70 - 130	
Ethylbenzene	0.100	0.1119		mg/Kg		112	70 - 130	
m-Xylene & p-Xylene	0.200	0.2200		mg/Kg		110	70 - 130	
o-Xylene	0.100	0.09833		mg/Kg		98	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	92	70 - 130
1.4-Difluorobenzene (Surr)	95	70 - 130

Lab Sample ID: LCSD 880-54106/2-A

Matrix: Solid

Analysis Batch: 54208

Client Sample I	D: Lab Contro	ol Sample Dup
	Prep	Type: Total/NA

Prep Batch: 54106

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1464	*+	mg/Kg		146	70 - 130	8	35

QC Sample Results

Job ID: 890-4711-1 Client: Ensolum Project/Site: Outrider 28 Fed 501H SDG: 03C1558191

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

Lab Sample ID: LCSD 880-54106/2-A

Matrix: Solid

Analysis Batch: 54208

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 54106

Spike LCSD LCSD %Rec **RPD** Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit D Toluene 0.100 0.1194 119 70 - 130 35 mg/Kg 6 Ethylbenzene 0.100 0.1123 mg/Kg 112 70 - 130 0 35 0.200 m-Xylene & p-Xylene 0.2245 mg/Kg 112 70 - 130 2 35 o-Xylene 0.100 0.1025 mg/Kg 103 70 - 130 35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	118		70 - 130

Lab Sample ID: 890-4711-1 MS

Matrix: Solid

Analysis Batch: 54208

Client Sample ID: PH04 Prep Type: Total/NA

Prep Batch: 54106

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U *+	0.0998	0.1293		mg/Kg		130	70 - 130	
Toluene	<0.00201	U	0.0998	0.1087		mg/Kg		108	70 - 130	
Ethylbenzene	<0.00201	U	0.0998	0.1031		mg/Kg		103	70 - 130	
m-Xylene & p-Xylene	<0.00402	U	0.200	0.2005		mg/Kg		100	70 - 130	
o-Xylene	<0.00201	U	0.0998	0.08897		mg/Kg		89	70 - 130	

MS MS

Surrogate		%Recovery	Qualifier	Limits
	4-Bromofluorobenzene (Surr)	92		70 - 130
	1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 890-4711-1 MSD

Matrix: Solid

Analysis Batch: 54208

Client Sample ID: PH04

Prep Type: Total/NA

Spike MSD MSD RPD Sample Sample %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Benzene <0.00201 U *+ 0.100 0.1225 mg/Kg 122 70 - 130 5 35 Toluene <0.00201 0.100 0.1038 mg/Kg 103 70 - 130 5 35 Ethylbenzene <0.00201 U 0.100 0.09474 mg/Kg 95 70 - 130 8 35 0.200 <0.00402 U 0.1908 95 70 - 130 5 35 m-Xylene & p-Xylene mg/Kg 0.100 o-Xylene <0.00201 U 0.08602 mg/Kg 70 - 130 35

MSD MSD

мв мв

<50.0 U

Result Qualifier

Surrogate	76Recovery	Qualifier	LIIIIII
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

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

Lab Sample ID: MB 880-54064/1-A

Matrix: Solid

Analysis Batch: 54024

Gasoline Range Organics

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

Prep Batch: 54064

Prepared mg/Kg 05/24/23 12:15 05/24/23 20:53

(GRO)-C6-C10

Analyte

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RL

50.0

Unit

Prep Batch: 54106

Client: Ensolum Job ID: 890-4711-1 Project/Site: Outrider 28 Fed 501H SDG: 03C1558191

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

Lab Sample ID: MB 880-54064/1-A **Matrix: Solid**

Analysis Batch: 54024

Diesel Range Organics (Over

Analyte

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

Prep Batch: 54064

MB MB Result Qualifier RL Unit Prepared Analyzed Dil Fac <50.0 U 50.0 05/24/23 12:15 05/24/23 20:53

mg/Kg

C10-C28) OII Range Organics (Over C28-C36) 50.0 05/24/23 12:15 05/24/23 20:53 <50.0 U mg/Kg

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	169	S1+	70 - 130	05/24/23 12:15	05/24/23 20:53	1
o-Terphenyl	181	S1+	70 - 130	05/24/23 12:15	05/24/23 20:53	1

Lab Sample ID: LCS 880-54064/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Analysis Batch: 54024

Prep Type: Total/NA Prep Batch: 54064

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 973.2 97 70 - 130 mg/Kg (GRO)-C6-C10 1000 984.0 Diesel Range Organics (Over mg/Kg 98 70 - 130C10-C28)

LCS LCS

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	86	70 - 130
o-Terphenyl	82	70 - 130

Lab Sample ID: LCSD 880-54064/3-A

Matrix: Solid

Analysis Batch: 54024

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 54064

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	1000	958.6		mg/Kg		96	70 - 130	2	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	1005		mg/Kg		100	70 - 130	2	20	

C10-C28)

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	86		70 - 130
o-Terphenyl	84		70 - 130

Lab Sample ID: 890-4711-1 MS Client Sample ID: PH04 **Matrix: Solid**

Analysis Batch: 54024

Prep Type: Total/NA Prep Batch: 54064

MS MS Spike %Rec Sample Sample Limits Analyte Result Qualifier Added Result Qualifier Unit %Rec <49.8 U 999 970.9 95 70 - 130 Gasoline Range Organics mg/Kg (GRO)-C6-C10 999 934.2 Diesel Range Organics (Over <49.8 U mg/Kg 70 - 130

C10-C28)

	IVIS	IVIS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	100		70 - 130

Job ID: 890-4711-1 Client: Ensolum Project/Site: Outrider 28 Fed 501H

SDG: 03C1558191

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

Lab Sample ID: 890-4711-1 MSD Client Sample ID: PH04 **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 54024 Prep Batch: 54064

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<49.8	U	997	1025		mg/Kg		100	70 - 130	5	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<49.8	U	997	1015		mg/Kg		99	70 - 130	8	20
C40 C20)											

C10-C28)

MSD		
%Recovery	Qualifier	Limits
113		70 - 130
107		70 - 130
	%Recovery 113	

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-54057/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 54094

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	ma/Ka			05/24/23 18:19	1

Lab Sample ID: LCS 880-54057/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble Matrix: Solid**

Analysis Batch: 54094

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

Lab Sample ID: LCSD 880-54057/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 54094

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	261.9		mg/Kg	_	105	90 - 110	2	20	

Lab Sample ID: 890-4711-1 MS Client Sample ID: PH04 **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 54094

	Sample	Sample	Бріке	IVIO	IVIS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	108		250	350.8		mg/Kg		97	90 - 110	

Lab Sample ID: 890-4711-1 MSD **Client Sample ID: PH04 Matrix: Solid Prep Type: Soluble**

Analysis Batch: 54094

Sample Sample Spike MSD MSD %Rec RPD Result Qualifier Added Result Qualifier Limits Limit Analyte Unit %Rec RPD 250 Chloride 353.7 90 - 110 108 mg/Kg

QC Sample Results

Client: Ensolum Job ID: 890-4711-1 Project/Site: Outrider 28 Fed 501H

SDG: 03C1558191

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-4711-11 MS **Client Sample ID: FS05 Matrix: Solid Prep Type: Soluble**

Analysis Batch: 54094

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	95.7	F1	251	378.5	F1	mg/Kg		113	90 - 110	

Lab Sample ID: 890-4711-11 MSD **Client Sample ID: FS05 Matrix: Solid Prep Type: Soluble**

Analysis Batch: 54094

Sample Sample Spike MSD MSD %Rec RPD RPD Limit Analyte Result Qualifier Added Result Qualifier Limits Unit %Rec 251 Chloride 95.7 F1 378.2 F1 mg/Kg 113 90 - 110 0

Client: Ensolum Job ID: 890-4711-1 Project/Site: Outrider 28 Fed 501H SDG: 03C1558191

GC VOA

Prep Batch: 54083

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-54083/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 54106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4711-1	PH04	Total/NA	Solid	5035	
890-4711-2	PH03	Total/NA	Solid	5035	
890-4711-3	PH02	Total/NA	Solid	5035	
890-4711-4	PH01	Total/NA	Solid	5035	
890-4711-5	SW01	Total/NA	Solid	5035	
890-4711-6	SW02	Total/NA	Solid	5035	
890-4711-7	FS01	Total/NA	Solid	5035	
890-4711-8	FS02	Total/NA	Solid	5035	
890-4711-9	FS03	Total/NA	Solid	5035	
890-4711-10	FS04	Total/NA	Solid	5035	
890-4711-11	FS05	Total/NA	Solid	5035	
890-4711-12	FS06	Total/NA	Solid	5035	
890-4711-13	FS07	Total/NA	Solid	5035	
890-4711-14	FS08	Total/NA	Solid	5035	
890-4711-15	FS09	Total/NA	Solid	5035	
890-4711-16	FS10	Total/NA	Solid	5035	
890-4711-17	FS11	Total/NA	Solid	5035	
890-4711-18	FS12	Total/NA	Solid	5035	
890-4711-19	FS13	Total/NA	Solid	5035	
MB 880-54106/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-54106/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-54106/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4711-1 MS	PH04	Total/NA	Solid	5035	
890-4711-1 MSD	PH04	Total/NA	Solid	5035	

Analysis Batch: 54208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4711-1	PH04	Total/NA	Solid	8021B	54106
890-4711-2	PH03	Total/NA	Solid	8021B	54106
890-4711-3	PH02	Total/NA	Solid	8021B	54106
890-4711-4	PH01	Total/NA	Solid	8021B	54106
890-4711-5	SW01	Total/NA	Solid	8021B	54106
890-4711-6	SW02	Total/NA	Solid	8021B	54106
890-4711-7	FS01	Total/NA	Solid	8021B	54106
890-4711-8	FS02	Total/NA	Solid	8021B	54106
890-4711-9	FS03	Total/NA	Solid	8021B	54106
890-4711-10	FS04	Total/NA	Solid	8021B	54106
890-4711-11	FS05	Total/NA	Solid	8021B	54106
890-4711-12	FS06	Total/NA	Solid	8021B	54106
890-4711-13	FS07	Total/NA	Solid	8021B	54106
890-4711-14	FS08	Total/NA	Solid	8021B	54106
890-4711-15	FS09	Total/NA	Solid	8021B	54106
890-4711-16	FS10	Total/NA	Solid	8021B	54106
890-4711-17	FS11	Total/NA	Solid	8021B	54106
890-4711-18	FS12	Total/NA	Solid	8021B	54106
890-4711-19	FS13	Total/NA	Solid	8021B	54106
MB 880-54083/5-A	Method Blank	Total/NA	Solid	8021B	54083

Client: Ensolum Job ID: 890-4711-1 Project/Site: Outrider 28 Fed 501H SDG: 03C1558191

GC VOA (Continued)

Analysis Batch: 54208 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-54106/5-A	Method Blank	Total/NA	Solid	8021B	54106
LCS 880-54106/1-A	Lab Control Sample	Total/NA	Solid	8021B	54106
LCSD 880-54106/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	54106
890-4711-1 MS	PH04	Total/NA	Solid	8021B	54106
890-4711-1 MSD	PH04	Total/NA	Solid	8021B	54106

Analysis Batch: 54350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4711-1	PH04	Total/NA	Solid	Total BTEX	
890-4711-2	PH03	Total/NA	Solid	Total BTEX	
890-4711-3	PH02	Total/NA	Solid	Total BTEX	
890-4711-4	PH01	Total/NA	Solid	Total BTEX	
890-4711-5	SW01	Total/NA	Solid	Total BTEX	
890-4711-6	SW02	Total/NA	Solid	Total BTEX	
890-4711-7	FS01	Total/NA	Solid	Total BTEX	
890-4711-8	FS02	Total/NA	Solid	Total BTEX	
890-4711-9	FS03	Total/NA	Solid	Total BTEX	
890-4711-10	FS04	Total/NA	Solid	Total BTEX	
890-4711-11	FS05	Total/NA	Solid	Total BTEX	
890-4711-12	FS06	Total/NA	Solid	Total BTEX	
890-4711-13	FS07	Total/NA	Solid	Total BTEX	
890-4711-14	FS08	Total/NA	Solid	Total BTEX	
890-4711-15	FS09	Total/NA	Solid	Total BTEX	
890-4711-16	FS10	Total/NA	Solid	Total BTEX	
890-4711-17	FS11	Total/NA	Solid	Total BTEX	
890-4711-18	FS12	Total/NA	Solid	Total BTEX	
890-4711-19	FS13	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 54024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4711-1	PH04	Total/NA	Solid	8015B NM	54064
890-4711-2	PH03	Total/NA	Solid	8015B NM	54064
890-4711-3	PH02	Total/NA	Solid	8015B NM	54064
890-4711-4	PH01	Total/NA	Solid	8015B NM	54064
890-4711-5	SW01	Total/NA	Solid	8015B NM	54064
890-4711-6	SW02	Total/NA	Solid	8015B NM	54064
890-4711-7	FS01	Total/NA	Solid	8015B NM	54064
890-4711-8	FS02	Total/NA	Solid	8015B NM	54064
890-4711-9	FS03	Total/NA	Solid	8015B NM	54064
890-4711-10	FS04	Total/NA	Solid	8015B NM	54064
890-4711-11	FS05	Total/NA	Solid	8015B NM	54064
890-4711-12	FS06	Total/NA	Solid	8015B NM	54064
890-4711-13	FS07	Total/NA	Solid	8015B NM	54064
890-4711-14	FS08	Total/NA	Solid	8015B NM	54064
890-4711-15	FS09	Total/NA	Solid	8015B NM	54064
890-4711-16	FS10	Total/NA	Solid	8015B NM	54064
890-4711-17	FS11	Total/NA	Solid	8015B NM	54064
890-4711-18	FS12	Total/NA	Solid	8015B NM	54064
890-4711-19	FS13	Total/NA	Solid	8015B NM	54064

Client: Ensolum Job ID: 890-4711-1 Project/Site: Outrider 28 Fed 501H SDG: 03C1558191

GC Semi VOA (Continued)

Analysis Batch: 54024 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-54064/1-A	Method Blank	Total/NA	Solid	8015B NM	54064
LCS 880-54064/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	54064
LCSD 880-54064/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	54064
890-4711-1 MS	PH04	Total/NA	Solid	8015B NM	54064
890-4711-1 MSD	PH04	Total/NA	Solid	8015B NM	54064

Prep Batch: 54064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4711-1	PH04	Total/NA	Solid	8015NM Prep	
890-4711-2	PH03	Total/NA	Solid	8015NM Prep	
890-4711-3	PH02	Total/NA	Solid	8015NM Prep	
890-4711-4	PH01	Total/NA	Solid	8015NM Prep	
890-4711-5	SW01	Total/NA	Solid	8015NM Prep	
890-4711-6	SW02	Total/NA	Solid	8015NM Prep	
890-4711-7	FS01	Total/NA	Solid	8015NM Prep	
890-4711-8	FS02	Total/NA	Solid	8015NM Prep	
890-4711-9	FS03	Total/NA	Solid	8015NM Prep	
890-4711-10	FS04	Total/NA	Solid	8015NM Prep	
890-4711-11	FS05	Total/NA	Solid	8015NM Prep	
890-4711-12	FS06	Total/NA	Solid	8015NM Prep	
890-4711-13	FS07	Total/NA	Solid	8015NM Prep	
890-4711-14	FS08	Total/NA	Solid	8015NM Prep	
890-4711-15	FS09	Total/NA	Solid	8015NM Prep	
890-4711-16	FS10	Total/NA	Solid	8015NM Prep	
890-4711-17	FS11	Total/NA	Solid	8015NM Prep	
890-4711-18	FS12	Total/NA	Solid	8015NM Prep	
890-4711-19	FS13	Total/NA	Solid	8015NM Prep	
MB 880-54064/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-54064/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-54064/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4711-1 MS	PH04	Total/NA	Solid	8015NM Prep	
890-4711-1 MSD	PH04	Total/NA	Solid	8015NM Prep	

Analysis Batch: 54158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4711-1	PH04	Total/NA	Solid	8015 NM	
890-4711-2	PH03	Total/NA	Solid	8015 NM	
890-4711-3	PH02	Total/NA	Solid	8015 NM	
890-4711-4	PH01	Total/NA	Solid	8015 NM	
890-4711-5	SW01	Total/NA	Solid	8015 NM	
890-4711-6	SW02	Total/NA	Solid	8015 NM	
890-4711-7	FS01	Total/NA	Solid	8015 NM	
890-4711-8	FS02	Total/NA	Solid	8015 NM	
890-4711-9	FS03	Total/NA	Solid	8015 NM	
890-4711-10	FS04	Total/NA	Solid	8015 NM	
890-4711-11	FS05	Total/NA	Solid	8015 NM	
890-4711-12	FS06	Total/NA	Solid	8015 NM	
890-4711-13	FS07	Total/NA	Solid	8015 NM	
890-4711-14	FS08	Total/NA	Solid	8015 NM	
890-4711-15	FS09	Total/NA	Solid	8015 NM	
890-4711-16	FS10	Total/NA	Solid	8015 NM	

 Client: Ensolum
 Job ID: 890-4711-1

 Project/Site: Outrider 28 Fed 501H
 SDG: 03C1558191

GC Semi VOA (Continued)

Analysis Batch: 54158 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4711-17	FS11	Total/NA	Solid	8015 NM	
890-4711-18	FS12	Total/NA	Solid	8015 NM	
890-4711-19	FS13	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 54057

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-4711-1	PH04	Soluble	Solid	DI Leach	
890-4711-2	PH03	Soluble	Solid	DI Leach	
890-4711-3	PH02	Soluble	Solid	DI Leach	
890-4711-4	PH01	Soluble	Solid	DI Leach	
890-4711-5	SW01	Soluble	Solid	DI Leach	
890-4711-6	SW02	Soluble	Solid	DI Leach	
890-4711-7	FS01	Soluble	Solid	DI Leach	
890-4711-8	FS02	Soluble	Solid	DI Leach	
890-4711-9	FS03	Soluble	Solid	DI Leach	
890-4711-10	FS04	Soluble	Solid	DI Leach	
890-4711-11	FS05	Soluble	Solid	DI Leach	
890-4711-12	FS06	Soluble	Solid	DI Leach	
890-4711-13	FS07	Soluble	Solid	DI Leach	
890-4711-14	FS08	Soluble	Solid	DI Leach	
890-4711-15	FS09	Soluble	Solid	DI Leach	
890-4711-16	FS10	Soluble	Solid	DI Leach	
890-4711-17	FS11	Soluble	Solid	DI Leach	
890-4711-18	FS12	Soluble	Solid	DI Leach	
890-4711-19	FS13	Soluble	Solid	DI Leach	
MB 880-54057/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-54057/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-54057/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4711-1 MS	PH04	Soluble	Solid	DI Leach	
890-4711-1 MSD	PH04	Soluble	Solid	DI Leach	
890-4711-11 MS	FS05	Soluble	Solid	DI Leach	
890-4711-11 MSD	FS05	Soluble	Solid	DI Leach	

Analysis Batch: 54094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4711-1	PH04	Soluble	Solid	300.0	54057
890-4711-2	PH03	Soluble	Solid	300.0	54057
890-4711-3	PH02	Soluble	Solid	300.0	54057
890-4711-4	PH01	Soluble	Solid	300.0	54057
890-4711-5	SW01	Soluble	Solid	300.0	54057
890-4711-6	SW02	Soluble	Solid	300.0	54057
890-4711-7	FS01	Soluble	Solid	300.0	54057
890-4711-8	FS02	Soluble	Solid	300.0	54057
890-4711-9	FS03	Soluble	Solid	300.0	54057
890-4711-10	FS04	Soluble	Solid	300.0	54057
890-4711-11	FS05	Soluble	Solid	300.0	54057
890-4711-12	FS06	Soluble	Solid	300.0	54057
890-4711-13	FS07	Soluble	Solid	300.0	54057
890-4711-14	FS08	Soluble	Solid	300.0	54057

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E/20/2022

 Client: Ensolum
 Job ID: 890-4711-1

 Project/Site: Outrider 28 Fed 501H
 SDG: 03C1558191

HPLC/IC (Continued)

Analysis Batch: 54094 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4711-15	FS09	Soluble	Solid	300.0	54057
890-4711-16	FS10	Soluble	Solid	300.0	54057
890-4711-17	FS11	Soluble	Solid	300.0	54057
890-4711-18	FS12	Soluble	Solid	300.0	54057
890-4711-19	FS13	Soluble	Solid	300.0	54057
MB 880-54057/1-A	Method Blank	Soluble	Solid	300.0	54057
LCS 880-54057/2-A	Lab Control Sample	Soluble	Solid	300.0	54057
LCSD 880-54057/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	54057
890-4711-1 MS	PH04	Soluble	Solid	300.0	54057
890-4711-1 MSD	PH04	Soluble	Solid	300.0	54057
890-4711-11 MS	FS05	Soluble	Solid	300.0	54057
890-4711-11 MSD	FS05	Soluble	Solid	300.0	54057

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Client: Ensolum Project/Site: Outrider 28 Fed 501H SDG: 03C1558191

Client Sample ID: PH04 Lab Sample ID: 890-4711-1

Date Collected: 05/22/23 09:10 **Matrix: Solid** Date Received: 05/23/23 08:34

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	54106	05/24/23 16:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54208	05/27/23 00:07	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			54350	05/30/23 09:08	AJ	EET MID
Total/NA	Analysis	8015 NM		1			54158	05/25/23 10:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	54064	05/24/23 12:15	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54024	05/24/23 21:57	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	54057	05/24/23 11:20	KS	EET MID
Soluble	Analysis	300.0		1			54094	05/24/23 18:35	CH	EET MID

Lab Sample ID: 890-4711-2 **Client Sample ID: PH03** Date Collected: 05/22/23 09:20 **Matrix: Solid**

Date Received: 05/23/23 08:34

Dil Initial Final Batch Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 Total/NA 4.95 g 5 mL 54106 05/24/23 16:22 MNR EET MID Total/NA 8021B 5 mL 54208 **EET MID** Analysis 1 5 mL 05/27/23 00:27 ΑJ Total/NA Total BTEX 54350 05/30/23 09:08 Analysis A.I **EET MID** 1 Total/NA Analysis 8015 NM 54158 05/25/23 10:20 SM **EET MID** Total/NA 54064 Prep 8015NM Prep 10.00 g 10 mL 05/24/23 12:15 ΑJ EET MID Total/NA Analysis 8015B NM 1 uL 1 uL 54024 05/24/23 23:01 SM **EET MID** Soluble Leach DI Leach 4.99 g 50 mL 54057 05/24/23 11:20 KS EET MID

Lab Sample ID: 890-4711-3 **Client Sample ID: PH02** Date Collected: 05/22/23 12:50 **Matrix: Solid**

54094

05/24/23 18:51

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Date Received: 05/23/23 08:34

Analysis

300.0

Soluble

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035		·	5.02 g	5 mL	54106	05/24/23 16:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54208	05/27/23 00:48	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			54350	05/30/23 09:08	AJ	EET MID
Total/NA	Analysis	8015 NM		1			54158	05/25/23 10:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	54064	05/24/23 12:15	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54024	05/24/23 23:23	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	54057	05/24/23 11:20	KS	EET MID
Soluble	Analysis	300.0		1			54094	05/24/23 18:57	CH	EET MID

Client Sample ID: PH01 Lab Sample ID: 890-4711-4 Date Collected: 05/22/23 12:55 **Matrix: Solid**

Date Received: 05/23/23 08:34

Γ	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	54106	05/24/23 16:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54208	05/27/23 01:08	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			54350	05/30/23 09:08	AJ	EET MID

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EET MID

Client: Ensolum

Job ID: 890-4711-1

SDG: 03C1558191 Project/Site: Outrider 28 Fed 501H

Client Sample ID: PH01 Lab Sample ID: 890-4711-4 Date Collected: 05/22/23 12:55 Matrix: Solid

Date Received: 05/23/23 08:34

	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			54158	05/25/23 10:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	54064	05/24/23 12:15	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54024	05/24/23 23:44	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	54057	05/24/23 11:20	KS	EET MID
Soluble	Analysis	300.0		1			54094	05/24/23 19:02	CH	EET MID

Client Sample ID: SW01 Lab Sample ID: 890-4711-5

Date Collected: 05/22/23 14:35 **Matrix: Solid**

Date Received: 05/23/23 08:34

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	54106	05/24/23 16:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54208	05/27/23 01:28	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			54350	05/30/23 09:08	AJ	EET MID
Total/NA	Analysis	8015 NM		1			54158	05/25/23 10:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	54064	05/24/23 12:15	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54024	05/25/23 00:05	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	54057	05/24/23 11:20	KS	EET MID
Soluble	Analysis	300.0		1			54094	05/24/23 19:07	CH	EET MID

Client Sample ID: SW02 Lab Sample ID: 890-4711-6

Date Collected: 05/22/23 14:40 Date Received: 05/23/23 08:34

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	54106	05/24/23 16:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54208	05/27/23 01:49	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			54350	05/30/23 09:08	AJ	EET MID
Total/NA	Analysis	8015 NM		1			54158	05/25/23 10:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	54064	05/24/23 12:15	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54024	05/25/23 00:26	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	54057	05/24/23 11:20	KS	EET MID
Soluble	Analysis	300.0		1			54094	05/24/23 19:23	CH	EET MID

Lab Sample ID: 890-4711-7 Client Sample ID: FS01

Date Collected: 05/22/23 13:05 Date Received: 05/23/23 08:34

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	54106	05/24/23 16:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54208	05/27/23 02:09	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			54350	05/30/23 09:08	AJ	EET MID
Total/NA	Analysis	8015 NM		1			54158	05/25/23 10:20	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.00 g 1 uL	10 mL 1 uL	54064 54024	05/24/23 12:15 05/25/23 00:47	AJ SM	EET MID EET MID

Eurofins Carlsbad

Matrix: Solid

Matrix: Solid

Client: Ensolum

Project/Site: Outrider 28 Fed 501H

Date Received: 05/23/23 08:34

Job ID: 890-4711-1 SDG: 03C1558191

Lab Sample ID: 890-4711-7

Client Sample ID: FS01 Lab S
Date Collected: 05/22/23 13:05

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	54057	05/24/23 11:20	KS	EET MID
Soluble	Analysis	300.0		1			54094	05/24/23 19:29	CH	EET MID

Client Sample ID: FS02 Lab Sample ID: 890-4711-8

Matrix: Solid

Date Collected: 05/22/23 13:10 Date Received: 05/23/23 08:34

Batch Batch Dil Initial Final Batch Prepared **Prep Type** Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA 5035 5.02 g 54106 05/24/23 16:22 MNR EET MID Prep 5 mL Total/NA 8021B 5 mL 5 mL Analysis 1 54208 05/27/23 02:30 AJ **EET MID** Total/NA Total BTEX 54350 05/30/23 09:08 Analysis AJ **EET MID** 1 Total/NA Analysis 8015 NM 54158 05/25/23 10:20 SM **EET MID** 54064 EET MID Total/NA Prep 8015NM Prep 10.01 g 10 mL 05/24/23 12:15 AJ 8015B NM 1 uL **EET MID** Total/NA Analysis 1 uL 54024 05/25/23 01:07 SM Soluble DI Leach 5 g 50 mL 54057 05/24/23 11:20 KS **EET MID** Leach 300.0 54094 05/24/23 19:34 СН **EET MID** Soluble Analysis 1

Client Sample ID: FS03 Lab Sample ID: 890-4711-9

Matrix: Solid

Date Collected: 05/22/23 13:15 Date Received: 05/23/23 08:34

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	54106	05/24/23 16:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54208	05/27/23 02:50	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			54350	05/30/23 09:08	AJ	EET MID
Total/NA	Analysis	8015 NM		1			54158	05/25/23 10:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	54064	05/24/23 12:15	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54024	05/25/23 01:28	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	54057	05/24/23 11:20	KS	EET MID
Soluble	Analysis	300.0		1			54094	05/24/23 19:39	CH	EET MID

Client Sample ID: FS04 Lab Sample ID: 890-4711-10

Date Collected: 05/22/23 13:45 Date Received: 05/23/23 08:34

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	54106	05/24/23 16:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54208	05/27/23 03:10	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			54350	05/30/23 09:08	AJ	EET MID
Total/NA	Analysis	8015 NM		1			54158	05/25/23 10:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	54064	05/24/23 12:15	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54024	05/25/23 01:48	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	54057	05/24/23 11:20	KS	EET MID
Soluble	Analysis	300.0		1			54094	05/24/23 19:45	CH	EET MID

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Matrix: Solid

Released to Imaging: 11/29/2023 1:49:15 PM Page 36 of 46

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Client: Ensolum Project/Site: Outrider 28 Fed 501H SDG: 03C1558191

Client Sample ID: FS05 Lab Sample ID: 890-4711-11

Date Collected: 05/22/23 13:50 **Matrix: Solid** Date Received: 05/23/23 08:34

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	54106	05/24/23 16:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54208	05/27/23 05:00	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			54350	05/30/23 09:08	AJ	EET MID
Total/NA	Analysis	8015 NM		1			54158	05/25/23 10:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	54064	05/24/23 12:15	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54024	05/25/23 02:30	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	54057	05/24/23 11:20	KS	EET MID
Soluble	Analysis	300.0		1			54094	05/24/23 19:50	CH	EET MID

Client Sample ID: FS06 Lab Sample ID: 890-4711-12

Date Collected: 05/22/23 13:55 **Matrix: Solid** Date Received: 05/23/23 08:34

Dil Initial Final Batch Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 Total/NA 4.99 g 5 mL 54106 05/24/23 16:22 MNR EET MID Total/NA 8021B 5 mL 54208 **EET MID** Analysis 1 5 mL 05/27/23 05:21 ΑJ Total/NA Total BTEX 54350 05/30/23 09:08 Analysis A.I **EET MID** 1 Total/NA Analysis 8015 NM 54158 05/25/23 10:20 SM **EET MID** Total/NA 54064 Prep 8015NM Prep 10.02 g 10 mL 05/24/23 12:15 ΑJ EET MID

Client Sample ID: FS07 Lab Sample ID: 890-4711-13

1 uL

5.04 g

1 uL

50 mL

54024

54057

54094

05/25/23 02:50

05/24/23 11:20

05/24/23 20:06

SM

KS

СН

Date Collected: 05/22/23 14:00 Date Received: 05/23/23 08:34

Analysis

Leach

Analysis

8015B NM

DI Leach

300.0

Total/NA

Soluble

Soluble

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	54106	05/24/23 16:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54208	05/27/23 05:41	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			54350	05/30/23 09:08	AJ	EET MID
Total/NA	Analysis	8015 NM		1			54158	05/25/23 10:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	54064	05/24/23 12:15	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54024	05/25/23 03:11	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	54057	05/24/23 11:20	KS	EET MID
Soluble	Analysis	300.0		1			54094	05/24/23 20:11	CH	EET MID

Lab Sample ID: 890-4711-14 **Client Sample ID: FS08**

Date Collected: 05/22/23 14:05 **Matrix: Solid** Date Received: 05/23/23 08:34

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	54106	05/24/23 16:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54208	05/27/23 06:02	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			54350	05/30/23 09:08	AJ	EET MID

Matrix: Solid

EET MID

EET MID

EET MID

Client: Ensolum Job ID: 890-4711-1 SDG: 03C1558191 Project/Site: Outrider 28 Fed 501H

Client Sample ID: FS08

Date Collected: 05/22/23 14:05 Date Received: 05/23/23 08:34 Lab Sample ID: 890-4711-14

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			54158	05/25/23 10:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	54064	05/24/23 12:15	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54024	05/25/23 03:31	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	54057	05/24/23 11:20	KS	EET MID
Soluble	Analysis	300.0		1			54094	05/24/23 20:28	CH	EET MID

Client Sample ID: FS09 Lab Sample ID: 890-4711-15 Date Collected: 05/22/23 14:10

Date Received: 05/23/23 08:34

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	54106	05/24/23 16:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54208	05/27/23 06:22	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			54350	05/30/23 09:08	AJ	EET MID
Total/NA	Analysis	8015 NM		1			54158	05/25/23 10:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	54064	05/24/23 12:15	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54024	05/25/23 03:52	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	54057	05/24/23 11:20	KS	EET MID
Soluble	Analysis	300.0		1			54094	05/24/23 20:33	CH	EET MID

Client Sample ID: FS10 Lab Sample ID: 890-4711-16

Date Collected: 05/22/23 14:15 Date Received: 05/23/23 08:34

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	54106	05/24/23 16:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54208	05/27/23 06:42	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			54350	05/30/23 09:08	AJ	EET MID
Total/NA	Analysis	8015 NM		1			54158	05/25/23 10:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	54064	05/24/23 12:15	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54024	05/25/23 04:12	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	54057	05/24/23 11:20	KS	EET MID
Soluble	Analysis	300.0		1			54094	05/24/23 20:38	CH	EET MID

Lab Sample ID: 890-4711-17 **Client Sample ID: FS11**

Date Collected: 05/22/23 14:20 Date Received: 05/23/23 08:34

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	54106	05/24/23 16:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54208	05/27/23 07:03	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			54350	05/30/23 09:08	AJ	EET MID
Total/NA	Analysis	8015 NM		1			54158	05/25/23 10:20	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.04 g 1 uL	10 mL 1 uL	54064 54024	05/24/23 12:15 05/25/23 04:32	AJ SM	EET MID EET MID

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Matrix: Solid

Matrix: Solid

Client: Ensolum Job ID: 890-4711-1
Project/Site: Outrider 28 Fed 501H SDG: 03C1558191

Client Sample ID: FS11 Lab Sample ID: 890-4711-17

Date Collected: 05/22/23 14:20
Date Received: 05/23/23 08:34
Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	54057	05/24/23 11:20	KS	EET MID
Soluble	Analysis	300.0		1			54094	05/24/23 20:44	CH	EET MID

Client Sample ID: FS12 Lab Sample ID: 890-4711-18

Date Collected: 05/22/23 14:25 Matrix: Solid

Date Received: 05/23/23 08:34

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	54106	05/24/23 16:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54208	05/27/23 07:23	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			54350	05/30/23 09:08	AJ	EET MID
Total/NA	Analysis	8015 NM		1			54158	05/25/23 10:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	54064	05/24/23 12:15	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54024	05/25/23 04:53	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	54057	05/24/23 11:20	KS	EET MID
Soluble	Analysis	300.0		1			54094	05/24/23 20:49	CH	EET MID

Client Sample ID: FS13 Lab Sample ID: 890-4711-19

Date Collected: 05/22/23 14:30 Matrix: Solid
Date Received: 05/23/23 08:34

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	54106	05/24/23 16:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54208	05/27/23 07:44	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			54350	05/30/23 09:08	AJ	EET MID
Total/NA	Analysis	8015 NM		1			54158	05/25/23 10:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	54064	05/24/23 12:15	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54024	05/25/23 05:13	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	54057	05/24/23 11:20	KS	EET MID
Soluble	Analysis	300.0		1			54094	05/24/23 20:54	СН	EET MID

Laboratory References:

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

Accreditation/Certification Summary

 Client: Ensolum
 Job ID: 890-4711-1

 Project/Site: Outrider 28 Fed 501H
 SDG: 03C1558191

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	NI	ELAP	T104704400-22-25	06-30-23		
The following analytes	are included in this report by	it the laboratory is not certific	ed by the governing authority. This list ma	av include analytes for y		
the agency does not of	. ,	at the laboratory is not contin	ed by the governing additionty. This list me	ay illolude allalytes for t		
0 ,	. ,	Matrix	Analyte	ay include analytes for v		
the agency does not of	fer certification.	•	, , ,	ay include analytes for v		

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Method Summary

 Client: Ensolum
 Job ID: 890-4711-1

 Project/Site: Outrider 28 Fed 501H
 SDG: 03C1558191

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Carlsbad

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Sample Summary

Client: Ensolum

Project/Site: Outrider 28 Fed 501H

Job ID: 890-4711-1

SDG: 03C1558191

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4711-1	PH04	Solid	05/22/23 09:10	05/23/23 08:34	1.5'
890-4711-2	PH03	Solid	05/22/23 09:20	05/23/23 08:34	1.5'
890-4711-3	PH02	Solid	05/22/23 12:50	05/23/23 08:34	1.5'
890-4711-4	PH01	Solid	05/22/23 12:55	05/23/23 08:34	1.5'
890-4711-5	SW01	Solid	05/22/23 14:35	05/23/23 08:34	0-1.5'
890-4711-6	SW02	Solid	05/22/23 14:40	05/23/23 08:34	0-1.5'
890-4711-7	FS01	Solid	05/22/23 13:05	05/23/23 08:34	1.5'
890-4711-8	FS02	Solid	05/22/23 13:10	05/23/23 08:34	1.5'
890-4711-9	FS03	Solid	05/22/23 13:15	05/23/23 08:34	1.5'
890-4711-10	FS04	Solid	05/22/23 13:45	05/23/23 08:34	1.5'
890-4711-11	FS05	Solid	05/22/23 13:50	05/23/23 08:34	1.5'
890-4711-12	FS06	Solid	05/22/23 13:55	05/23/23 08:34	1.5'
890-4711-13	FS07	Solid	05/22/23 14:00	05/23/23 08:34	1.5'
890-4711-14	FS08	Solid	05/22/23 14:05	05/23/23 08:34	1.5'
890-4711-15	FS09	Solid	05/22/23 14:10	05/23/23 08:34	1.5'
890-4711-16	FS10	Solid	05/22/23 14:15	05/23/23 08:34	1.5'
890-4711-17	FS11	Solid	05/22/23 14:20	05/23/23 08:34	1.5'
890-4711-18	FS12	Solid	05/22/23 14:25	05/23/23 08:34	1.5'
890-4711-19	FS13	Solid	05/22/23 14:30	05/23/23 08:34	1.5'

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

Total 200.7 / 6010

200.8 / 6020:

Shil

5

0

F5 63 F502

-50/ 51,02 SWOI

2:35 12:55

2:00 05

SILO

PHO PH02 PHO3 CHOY

ice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions

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

Mn Mo Ni K Se

Ag SiO₂ Na Sr Tl Sn U V Zn Hg: 1631/245.1/7470

17471

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

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eurofins Kenco Environment Testing

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

Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 9

Work Order No:

							Chain of Custody				-				NALYSIS REQUEST	Deliverables: EDD	Reporting: Level II Level III PST/UST TRRP	State of Project:	Program: UST/PST PRP BI	Work Ord	www.xenco.com
AFE:	2222921001	Cost Center:	nAPP2306054654	Incident ID:	Sample Comments	NaOH+Ascorbic Acid: SAPC	Zn Acetate+NaCH: Zn	Na ₂ S ₂ O ₃ : NaSO ₃	NaHSO4: NABIS	H₃PO₄: HP	H ₂ SO ₄ : H ₂ NaOH: Na	HCL: HC HNO3: HN	Cool: Cool MeOH: Me	None: NO DI Water: H ₂ O	Preservative Codes	ADaPT Other:	PST/UST TRRP Level IV		Program: UST/PST ☐ PRP☐ Brownfields ☐ RRC ☐ Superfund ☐	Work Order Comments	om Page of 4

SAMPLE RECEIPT

Temp Blank:

Tes No

Wet lce:

PS No

Cooler Custody Seals: Samples Received Intact:

Yes Yes

> Correction Factor Thermometer ID:

ample Custody Seals:

N_O No

Corrected Temperature

CHLORIDES (EPA: 3000.0)

890-471

Total Containers:

Sample Identification

Matrix

Sampled

Sampled

Date

Time

Depth

Comp Grab/

Cont

TPH (8015) BTEX (8021)

5/21/23

076

9:20

2:50

0 0

3

0

Sampler's Name:

Connor Whitman

Due Date:

Routine

Rush

Code

Turn Around

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

Project Number

roject Name:

Outrider 28 Fed 501H

03C1558191

Phone:

303-887-2946

Email: Garrett.Green@ExxonMobil.com

City, State ZIP:

ddress

3122 National Parks Hwy

Address:

Bill to: (if different) Company Name:

City, State ZIP:

Carlsbad, NM 88220 3104 E. Green St XTO Energy Garrett Green

Carlsbad, NM 88220

Company Name: roject Manager:

Ensolum

Ben Belill

5/23/23

08.39

Revised Date: 08/25/2020 Rev. 2020.2

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Environment Testing

Xenco

eurofins

Chain of Custody

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

the second secon
Work Order Comments
rogram: UST/PST ☐ PRP∐ Brownfields ☐ RRC ☐ Superfund ☐
state of Project:
teporting: Level III ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
beliverables: EDD ADaPT Other:

t and relinquishment liable only for the co arge of \$85.00 will be	al(s) to b	20	1					FS09	E508	FS07	2052	505	Sample Identification	Total Containers:	Sample Custody Seals:	Cooler Custody Seals:	Samples Received Intact:	SAMPLE RECEIPT		Sampler's Name:	Project Location:	Project Number:	Project Name:
a st	Circle Method(s) and Metal(s) to be analyzed	200.8 / 6020:										8	on Matrix		Yes No N/A	Yes No N/A	Yes No	Temp Blank:		Connor Whitman		03C1558191	Outrider 28 Fed 501H
f samples constitut of samples and sh pplied to each proj	ed	8RC										5/22/23	Date Sampled	Corrected Temperature	Temperature Reading	Correction Factor	Thermometer ID	Yes No					501H
es a valid purch all not assume a ect and a charge	TCLP / SPL	RA 13PPN		230	225	220	215	210	205	200	153	150	Time Sampled	erature:	ading	2		Wet log	the lab, if received by 4:30pm	TAT starts the	Due Date:	Routine	Turn A
ase order from c iny responsibility e of \$5 for each :	P 6010: 8R	8RCRA 13PPM Texas 11	-	1.5	1,5.	.5'	1.5'	5	1,5'	1.5'	.s.	1,5' Comp	Depth Comp		1			Yes No	ved by 4:30pm	TAT starts the day received by		Rush	Turn Around
lient compa / for any los sample sub	CRA S	Al Sb	50	-	-	-	_	_				_	# of Cont			P	arar	nete	rs			Code	
any to Euro sses or exp mitted to E	b As Ba	As Ba	-	_										_	S (El	PA:	3000).0)					
fins Xenco, enses incu irofins Xen	Be Co	3e B C											BTEX (8021)								
its affiliates and subcontractors. It assigns str rred by the client if such losses are due to circu co, but not analyzed. These terms will be enfor																							ANALYSIS REQUEST
andard terms and conditions umstances beyond the control ced unless previously negotiated.		Mo Ni K Se Ag SiO2 Na Sr TI Sn					AFE:	22	Cost Cente		nAP	Incident ID:	Sampl	NaOH+Asco	Zn Acetate+	Na ₂ S ₂ O ₃ . Na	NaHSO ₄ : NA	H ₃ PO ₄ : HP	H ₂ S0 ₄ : H ₂	HCL: HC	Cool: Cool	None: NO	riesei
	0 / 7471	U V Zn						22921001	ā		P2306054654		le Comments	rbic Acid: SAPC	NaOH: Zn	1803	NBIS		NaOH: Na	HNO ₃ : HN	MeOH: Me	DI Water: H ₂ O	Liezer Adrive Codes
	voltee. Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of service. Eurofins Xenco, A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245 1 / 7470 / 7471 se a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions all not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control actions are control and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Tl Sn U V Zn P 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631/245.1/7470 /7471 se order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions be of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Tl Sn U V Zn P6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631/245.1/7470 /7471 se order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions by responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotilated.	Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Tl Sn U V Zn P 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631/245.1/7470 /7471 see order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions by responsibility for any losses or expenses incurred by the client if such basses are due to circumstances beyond the control of \$5 for each sample submitted to Eurofina Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Tl Sn U V Zn P 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631/245.1/7470 /7471 se order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions by responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of \$5 for each sample submitted to Eurofina Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Tl Sn U V Zn P6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631/245.1/7470 / 7471 se order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions by responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	AFE: S' AFE: S' AFE: AFE: S' AFE: AFE: AFE:	AFE: S AFE: AFE: S AFE: AFE: S AFE: AFE: AFE: S AFE: AFE: S AFE: AFE: A	AFE: AFE: AFE: 14a Sr TI 44a Sr TI 45/1/245.1/7	AFE: AFE: Va Sr TI 1	Cost Cer AFE: Va Sr TI 1	Cost Co	Sa Inciden Cost Cost Cost Cost Cost Cost Cost Cost		Zn A Na O Cost Incicio O AFE						Cool: Cool HCL: HC H ₂ SO ₄ : H ₂ H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaOt NaOH+Ascorbic Sample Co Incident ID: nAPP2300 AFE: 222293 AFE: 222293 AFE:	None: NO Cool: Cool HCL: HC H ₂ SO ₄ : H ₂ H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaOH NaOH+Ascorbic A Sample Co Incident ID: nAPP2306 Incident Ser TI Sn U N Va Sr TI Sn U N Va Sr TI Sn U N

Phone:

303-887-2946 Carlsbad, NM 88220 3122 National Parks Hwy

Email: |Garrett.Green@ExxonMobil.com

ANALYSIS REQUEST

Preservative Codes

City, State ZIP:

Carlsbad, NM 88220 3104 E. Green St. XTO Energy Garrett Green

City, State ZIP:

Address:

Company Name: Project Manager:

Ensolum Ben Belill

Bill to: (if different)

Company Name: Address:

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4711-1 SDG Number: 03C1558191

Login Number: 4711 List Source: Eurofins Carlsbad

Answer

N/A

True N/A

True

N/A

Comment

Refer to Job Narrative for details.

List Number: 1

Question

Creator: Stutzman, Amanda

Appropriate sample containers are used.

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

Containers requiring zero headspace have no headspace or bubble is

Sample bottles are completely filled.

Sample Preservation Verified.

MS/MSDs

<6mm (1/4").

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

Login Sample Receipt Checklist

 Client: Ensolum
 Job Number: 890-4711-1

 SDG Number: 03C1558191

List Source: Eurofins Midland List Creation: 05/24/23 10:58 AM

Creator: Rodriguez, Leticia

Login Number: 4711

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	

oj 117

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12

14

<6mm (1/4").



APPENDIX F

NMOCD Notifications/Correspondence

From: Green, Garrett J

To: Ben Belill

Subject: FW: [EXTERNAL] XTO - Extension Request - Outrider 28 Fed 501H - Incident Number NAPP2306054654

Date: Tuesday, May 16, 2023 2:10:44 PM

[**EXTERNAL EMAIL**]

From: Nobui, Jennifer, EMNRD < Jennifer. Nobui@emnrd.nm.gov>

Sent: Tuesday, May 16, 2023 11:07 AM

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

Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>

Subject: FW: [EXTERNAL] XTO - Extension Request - Outrider 28 Fed 501H - Incident Number

NAPP2306054654

External Email - Think Before You Click

Hello Garrett

OCD approves your 90-day extension request to August 16, 2023 to submit a remediation plan or closure report. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thanks, Jennifer Nobui

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

Sent: Tuesday, May 16, 2023 8:46 AM

To: Enviro, OCD, EMNRD < CCD.Enviro@emnrd.nm.gov; Bratcher, Michael, EMNRD < closelyn.emnrd.nm.gov; Harimon, Jocelyn, EMNRD < jocelyn.Harimon@emnrd.nm.gov>

Cc: DelawareSpills /SM <<u>DelawareSpills@exxonmobil.com</u>>; Ben Belill <<u>bbelill@ensolum.com</u>> **Subject:** [EXTERNAL] XTO - Extension Request - Outrider 28 Fed 501H - Incident Number

NAPP2306054654

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

All,

XTO is requesting an extension for the current deadline of May 16, 2023 for submitting a

remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC at the Outrider 28 Fed 501H (Incident Number NAPP2306054654). The release occurred on February 15, 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 are scheduled to begin on May 19, 2023. In order to complete remediation efforts, review the laboratory analytical results, and submit a remediation work plan or closure report, XTO requests an extension until August 14, 2023.

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

Sent: Friday, May 19, 2023 9:00 AM

To: ocd.enviro (ocd.enviro@emnrd.nm.gov) <ocd.enviro@emnrd.nm.gov>; Hamlet, Robert, EMNRD (Robert.Hamlet@emnrd.nm.gov) <Robert.Hamlet@emnrd.nm.gov>; Bratcher, Michael, EMNRD (mike.bratcher@emnrd.nm.gov) <mike.bratcher@emnrd.nm.gov>; Harimon, Jocelyn, EMNRD (Jocelyn.Harimon@emnrd.nm.gov) <Jocelyn.Harimon@emnrd.nm.gov>

Cc: Tacoma Morrissey <tmorrissey@ensolum.com>; Green, Garrett J <garrett.green@exxonmobil.com>

Subject: XTO - Sampling Notification (Week of 5/22/23 - 5/26/23)

[**EXTERNAL EMAIL**]

All,

XTO plans to complete final sampling activities at the sites listed below for the week of May 22, 2023.

Monday

- JRU 108 / nAPP2217931599
- Outrider Fed 28 Pad B / NAPP2306936047
- •

Tuesday

- JRU 108 / nAPP2217931599
- Outrider Fed 28 Pad B / NAPP2306936047
- Outrider Fed 28 501H / nAPP2306054654

Wednesday

- JRU 108 / nAPP2217931599
- Outrider Fed 28 501H / nAPP2306054654

Thursday

Outrider Fed 28 501H / nAPP2306054654

Thank you,

Melanie Collins



Environmental Technician

melanie.collins@exxonmobil.com

432-556-3756

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

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

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

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

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

CONDITIONS

Action 251783

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	251783
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	11/29/2023