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:	nAB1702454101
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

			Respo	onsible I alt	y	
Responsible Party: WPX Energy Permian, LLC OGRID		OGRID: 2	246289			
Contact Name: Jim Raley			Contact To	elephone: 575-689-7597		
Contact ema	il: jim.raley	@dvn.com		Incident #	(assigned by OCD): nAB1702454101	
Contact mai	ling address:	5315 Buena Vista	a Dr, Carlsbad, NM	1, 88220		
			Location	of Release So	ource	
Latitude	32.0070	6894	(NAD 83 in deci	Longitude _ imal degrees to 5 decin	-103.9397305 mal places)	
Site Name: U	JCBH WW I	Federal 3		Site Type:	Wellpad	
Date Release	Discovered	: 1/6/2017		API# (if app	plicable): 30-015-24451	
Unit Letter	Section	Township	Range	Cour	nty	
N	25	26S	29E	Eddy	<i>y</i>	
	Materia	ıl(s) Released (Select al		Volume of l	Release	ow)
Crude Oi	il	Volume Release		•	Volume Recovered (bbls): 0	,
N Produced	l Water	Volume Release	d (bbls): 5 bbls		Volume Recovered (bbls): 0	
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?		nloride in the	☐ Yes ☐ No		
Condensate Volume Released (bbls)			Volume Recovered (bbls)			
Natural C	Natural Gas Volume Released (Mcf)		Volume Recovered (Mcf)			
Other (de	Other (describe) Volume/Weight Released (provide units)		units)	Volume/Weight Recovered (pro	vide units)	
Cause of Rel	lease:	.1				
Human Erro	or; leaking st	uffing box. Approx	ximately 5 bbls of	water and oil spill	ed on location.	
	bbl estimate	$e = \frac{\text{saturated soil volum}}{4.21(\frac{ft^3}{bbl \text{ equivalen}}}$	$\frac{e(ft^3)}{u}$ * estimated soi	il porosity (%) + red	coverd fluids (bbls)	

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Incident ID:	nAB1702454101
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the respon	nsible party consider this a major release?
release as defined by 19.15.29.7(A) NMAC?		
` ,		
☐ Yes 🛛 No		
If YES, was immediate no	otice given to the OCD? By whom? To wh	om? When and by what means (phone, email, etc)?
	Initial Ro	esponse
The responsible p	party must undertake the following actions immediatel	y unless they could create a safety hazard that would result in injury
The source of the rele	ase has been stopped.	
The impacted area has	s been secured to protect human health and	the environment.
Released materials ha	we been contained via the use of berms or d	ikes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed an	d managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain	why:
has begun, please attach a	a narrative of actions to date. If remedial	emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred clease attach all information needed for closure evaluation.
		best of my knowledge and understand that pursuant to OCD rules and
		fications and perform corrective actions for releases which may endanger PCD does not relieve the operator of liability should their operations have
failed to adequately investigated	ate and remediate contamination that pose a thre	at to groundwater, surface water, human health or the environment. In
addition, OCD acceptance of and/or regulations.	t a C-141 report does not relieve the operator of	responsibility for compliance with any other federal, state, or local laws
Duinted Manager 1' D. 1		TW F
Printed Name: <u>Jim Raley</u>		
Signature:		Date:5/23/2023
email:Jim.Raley@dv	rn.com	Telephone: 575-689-7597
		-
OCD Only		
D i d l		Date:

e of New Mexico

Incident ID:	nAB1702454101
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?	51-100 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	⊠ Yes □ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	Yes No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes 🛛 No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes 🛛 No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
Characterization Report Checklist: Each of the following items must be included in the report.	
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well 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	ls.
Roring or excavation logs	

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.

Topographic/Aerial maps

Photographs including date and GIS information

■ Laboratory data including chain of custody

Received by OCD: 5/23/2023 12:12:39 PM Form C-141 State of New Mexico Page 4 Oil Conservation Division

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Incident ID:	nAB1702454101	
District RP		
Facility ID		

Application ID

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Title: Environmental Professional Printed Name: Jim Raley Date: 5/23/2023 Signature: email: <u>jim.raley@</u>dvn.com Telephone: 575-689-7597 **OCD Only** Jocelyn Harimon Received by: 05/24/2023 Date:

	Page 5 of 9	94
Incident ID:	nAB1702454101	
District RP		
Facility ID		
Application ID		

Remediation Plan

Remediation Plan Checklist: Each of the following items must b	e included in the plan.
 ☑ Detailed description of proposed remediation technique ☑ Scaled sitemap with GPS coordinates showing delineation point ☑ Estimated volume of material to be remediated ☑ Closure criteria is to Table 1 specifications subject to 19.15.29. ☑ Proposed schedule for remediation (note if remediation plan times) 	.2(C)(4) NMAC
Deferral Requests Only: Each of the following items must be con	firmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around predeconstruction.	roduction equipment where remediation could cause a major facility
☐ Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human health	n, the environment, or groundwater.
	e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of
Printed Name: Jim Raley	Title: Environmental Professional
Signature:	Date:
email: jim.raley@dvn.com	Telephone: 575-689-7597
OCD Only	
Received by: Jocelyn Harimon	Date:05/24/2023
☐ Approved ☐ Approved with Attached Conditions of	Approval
Signature:	Date:



REMEDIATION WORK PLAN

UCBH WW Federal 3
Eddy County, New Mexico
Incident Number nAB1702454101

Prepared For: WPX Permian Energy, LLC.

Carlsbad • Midland • San Antonio • Lubbock • Hobbs • Lafayette



SYNOPSIS

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of WPX Energy Permian, LLC (WPX), presents the following Remediation Work Plan (RWP) detailing site assessment and delineation soil sampling activities at the UCBH WW Federal 3 (Site). Based on field observations, field screening activities and review of the laboratory analytical results from delineation soil sampling activities at the Site, WPX proposes this RWP, which summarizes initial response efforts and details remediation objectives to rectify environmental impacts.

SITE LOCATION AND RELEASE BACKGROUND

The Site is located in Unit N, Section 25, Township 26 South, Range 29 East, in Eddy County, New Mexico (32.00706894°N, 103.9397305°W) and is associated with oil and gas exploration and production operations on Bureau of Land Management (BLM) Federal Land (**Figure 1** in **Appendix A**).

On January 6, 2017, a stuffing box on the wellhead failed and released approximately 5 barrels (bbls) of crude oil and 5 bbls of produced water to the well pad surface and adjacent pasture. No fluids were able to be recovered. WPX reported the release to the New Mexico Oil Conservation Division (NMOCD) with a Corrective Action Form C-141 (Form C-141), which was received by the NMOCD on January 19, 2017, and was subsequently assigned Incident Number nAB1702454101. **Figure 2** in **Appendix A** depicts the observed release area, hereafter referred to as the Area of Concern (AOC). Since initial response efforts, plugging and abandonment activities at the Site were completed in December of 2019.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

Etech characterized the Site according to Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC) considering depth to groundwater and the proximity to:

- Any continuously flowing watercourse or any other significant watercourse;
- Any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark);
- An occupied permanent residence, school, hospital, institution or church;
- A spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes;
- Any freshwater well or spring;
- Incorporated municipal boundaries or a defined municipal fresh water well field covered under a municipal ordinance;
- A wetland:
- A subsurface mine;
- An unstable area (i.e. high karst potential); and
- A 100-year floodplain.

Depth to groundwater at the Site is estimated to be between 51 and 100 feet below ground surface (bgs) based a recent measurement of a nearby well on the JC Williams Yard owned by WPX, located approximately 0.5 miles northwest of the Site. The well does not appear to have an identification number corresponding to the New Mexico Office of the State Engineer (NMOSE) or United States Geological Survey (USGS) well records. However, a depth to groundwater measurement at the well was obtained on August 15, 2022, and measured 82.9 feet bgs. The location of the JC Williams well is provided in **Figure 1** in **Appendix A**. The Groundwater Measurement Form summarizing findings is provided as **Appendix B**.

Based on the initial desktop review, the closest continuously flowing or significant water course to the Site is a dry wash, located approximately 37 feet south of the Site. It should be noted that a margin of error is possible based on imagery only; field verification can further confirm these specified classifications developed from image analysis. The Site is underlaid by unstable geology (high potential karst designation

Remediation Work Plan Incident Number nAB1702454101 UCBH WW Federal 3



area). All other potential receptors are not within the established buffers in NMAC 19.15.29.12. Receptor details from the site characterization are included in **Figure 1** in **Appendix A**.

Based on the results from the desktop review and estimated regional depth to groundwater at the Site, the following Closure Criteria was applied:

Constituents of Concern (COCs)	Laboratory Analytical Method	Closure Criteria
Chloride	Environmental Protection Agency (EPA) 300.0	600 milligrams per kilogram (mg/kg)
Total Petroleum Hydrocarbon (TPH)	EPA 8015 M/D	100 mg/kg
Benzene	EPA 8021B	10 mg/kg
Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA 8021B	50 mg/kg

DELINEATION SOIL SAMPLING ACTIVITIES

On September 14, 2022, delineation soil sampling activities were conducted at the Site to assess the presence or absence of soil impacts associated with the AOC. Eight boreholes (BH01 through BH08) were advanced with a hand auger within and outside of the AOC. Delineation activities were driven by field screening soil for volatile aromatic hydrocarbons utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. A minimum of two soil samples were collected from each delineation soil sample location: the sample with the highest observed field screening and the greatest depth. The locations of the delineation soil samples are shown in **Figure 2** in **Appendix A**. Field screening results and observations for each delineation soil sample were recorded on soil sampling logs (**Appendix C**). Photographic documentation during delineation activities is included in **Appendix D**.

Delineation soil samples were placed directly into lab provided pre-cleaned glass jars, packaged with minimal void space, labeled 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 COCs.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for BH01, BH02 and BH04 advanced within the AOC indicated chloride concentrations exceeding the Site Closure Criteria (ranging from 0.5-foot bgs to 8 feet bgs); delineation soil samples collected outside of the AOC indicated all COCs were below the Site Closure Criteria and will assist with defining a clean lateral excavation boundary.

Laboratory analytical results are summarized in **Table 1** included in **Appendix E**. The executed chain-of-custody forms and laboratory analytical reports are provided in **Appendix F**.

PROPOSED REMEDIATION WORK PLAN

Based on the summary of delineation soil sampling results, the following conclusions regarding the release are presented:

- Laboratory analytical results for all delineation soil samples indicated BTEX and TPH concentrations were below the laboratory detection threshold for soil samples collected from every depth;
- Laboratory analytical results for BH01, BH02 and BH04 advanced within the AOC indicated chloride concentrations exceeding the Site Closure Criteria (ranging from 0.5-foot bgs to 8 feet bgs);

Remediation Work Plan Incident Number nAB1702454101 UCBH WW Federal 3



delineation soil samples collected outside of the AOC indicated all COCs were below the Site Closure Criteria and will assist with defining a clean lateral excavation boundary;

- Currently, delineation soil sampling results provide representative lateral and vertical delineation of residual impacts in soil. Remaining impacts within the AOC are characterized by chloride concentrations ranging from 727 mg/kg to 3,910 mg/kg based on BH01, BH02 and BH04.
- Based on current delineation soil sampling results, locations and the extent of the mapped AOC (17,850 square feet), an estimated 3,307 cubic yards of impacted soil is anticipated to be removed from the Site for disposal in accordance with state and federal regulations;

Based on the conclusions drawn above, WPX proposes the following remediation efforts:

- Depth to groundwater at the Site is estimated to be between 51 and 100 feet bgs based a recent measurement of a nearby well on the JC Williams Yard, located approximately 0.5 miles northwest of the Site, where groundwater was observed to be 82.9 feet bgs;
- WPX requests up to the top four feet of impacted soil be excavated within the AOC to address
 chloride exceedances and a 20-mil impermeable liner installed on the excavation floor. The liner
 would mitigate migration of residual chloride impacts into the subsurface. The proposed lateral
 extent of the excavation will be confirmed via confirmation sidewall soil samples (Figure 3 in
 Appendix A);
- Following removal of soil impacts, 5-point confirmation soil samples will be collected from the
 excavation sidewalls and be analyzed by an accredited laboratory for BTEX, TPH and chloride.
 Excavated soil will then be transferred to a New Mexico approved landfill facility for disposal and
 the excavation will be backfilled with non-waste containing soil, as defined by "Procedures for
 Implementation of the Spill Rule" (September 6, 2019);
- WPX is requesting a variance to the 200 square foot confirmation sampling requirement for the areas to be excavated, which would require an estimated 15 sidewall soil samples. Due to the extensive anticipated excavation extent based of measurements of the AOC (580 linear feet by 4 feet bgs), WPX proposes increasing the confirmation sampling frequency to 500 square feet for the sidewalls of the excavation, for a total of 7 sidewall soil samples. Residual chloride impacts within the AOC are defined by BH01 at 4 feet, BH02 at 6 feet and BH04 at 0.5-foot bgs., therefore no confirmation floor soil samples will be collected.
- There are areas off pad that will likely require third-party operator oversight and additional safety measures before or during remediation activities near their respective subsurface pipelines. WPX or the third-party operator may implement additional safety precautions above encroachment guidelines, including restrictions on hand shoveling and cribbing. These restrictions may be implemented as health and safety precautions at the judgment and responsibility of a WPX or third-party operator safety representative; and
- Subsequent to the completion of remediation and receipt of soil confirmation sample results
 documenting that impacted soil had been removed, the excavation will be backfilled with clean
 and/or treated soil and restored to "as close to its original state" as possible.

WPX believes the scope of work described above will meet requirements set forth in NMAC guidelines and be protective of human health, the environment, and groundwater. As such, WPX respectfully requests approval of this RWP from NMOCD.

If you have any questions or comments, please do not hesitate to contact Joseph Hernandez at (281) 702-2329 or joseph@etechenv.com or Anna Byers at (575) 200-6754 or anna@etechenv.com.

Remediation Work Plan Incident Number nAB1702454101 UCBH WW Federal 3



Documentation of communication with NMOCD regarding Incident Number nAB1702454101 is presented as **Attachment G**.

Sincerely,

Etech Environmental and Safety Solutions, Inc.

Anna Byers Senior Geologist Joseph Hernandez Senior Managing Geologist

cc: Jim Raley, WPX

New Mexico Oil Conservation Division

Bureau of Land Management

Appendices:

Appendix A: Figure 1: Site Map

Figure 2: Delineation Soil Sample Locations

Figure 3: Proposed Remediation Area

Appendix B: Referenced Well Records

Appendix C: Soil Sampling Logs **Appendix D**: Photographic Log

Appendix E: Tables

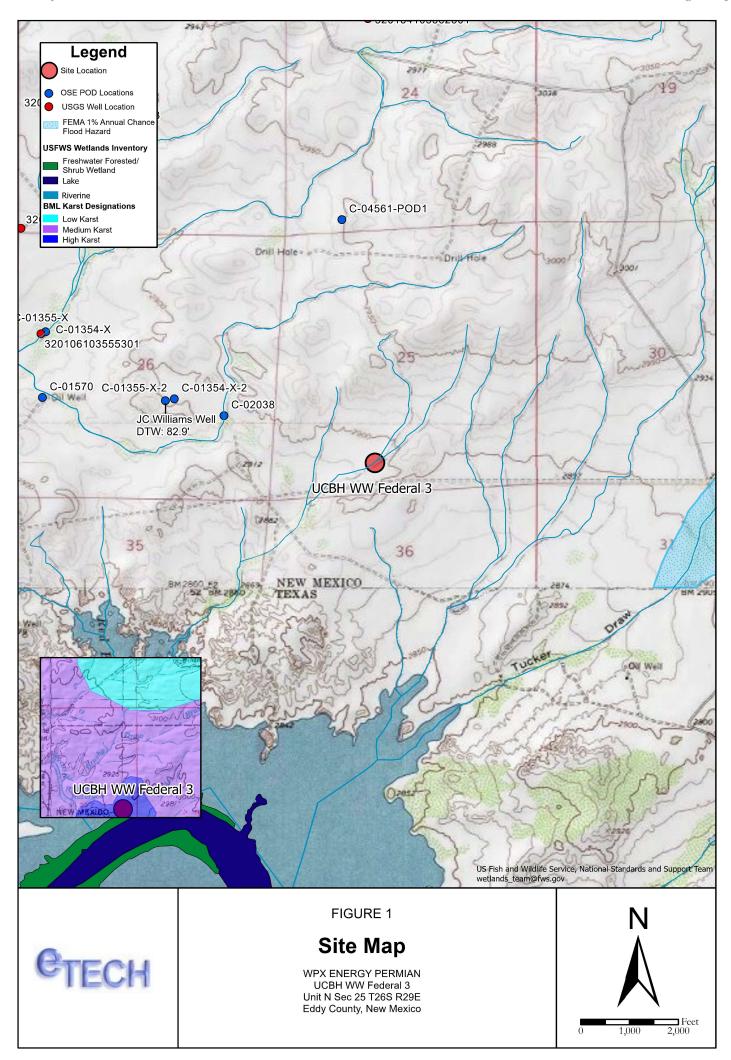
Appendix F: Laboratory Analytical Reports & Chain-of-Custody Documentation

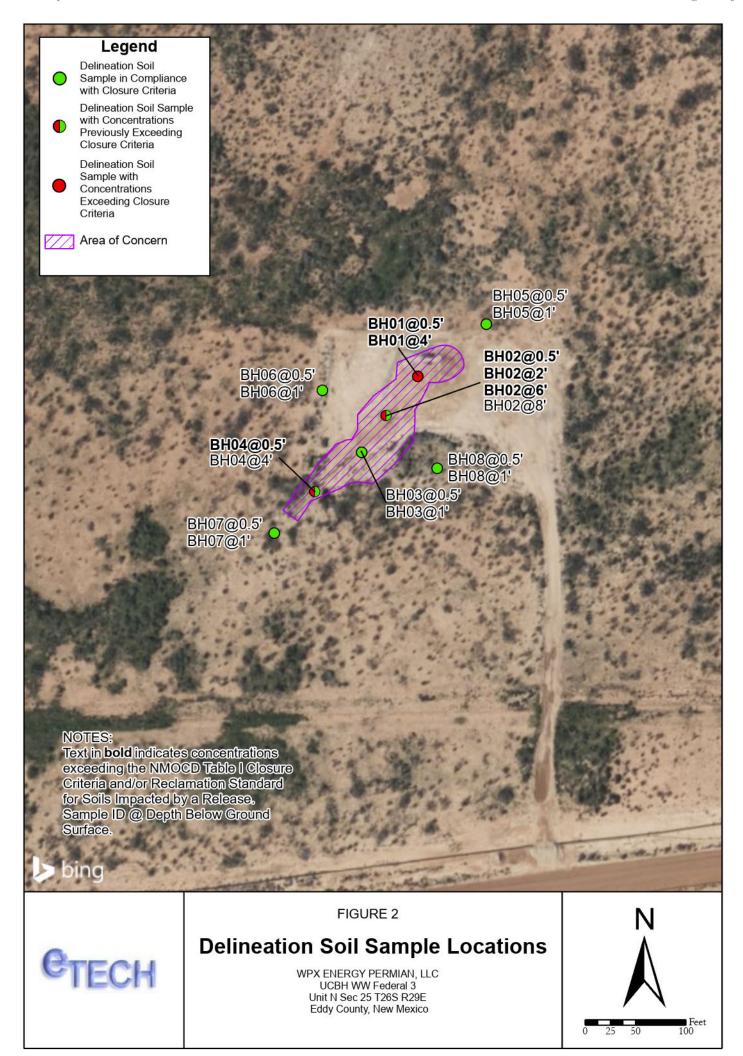
Appendix G: NMOCD Correspondence

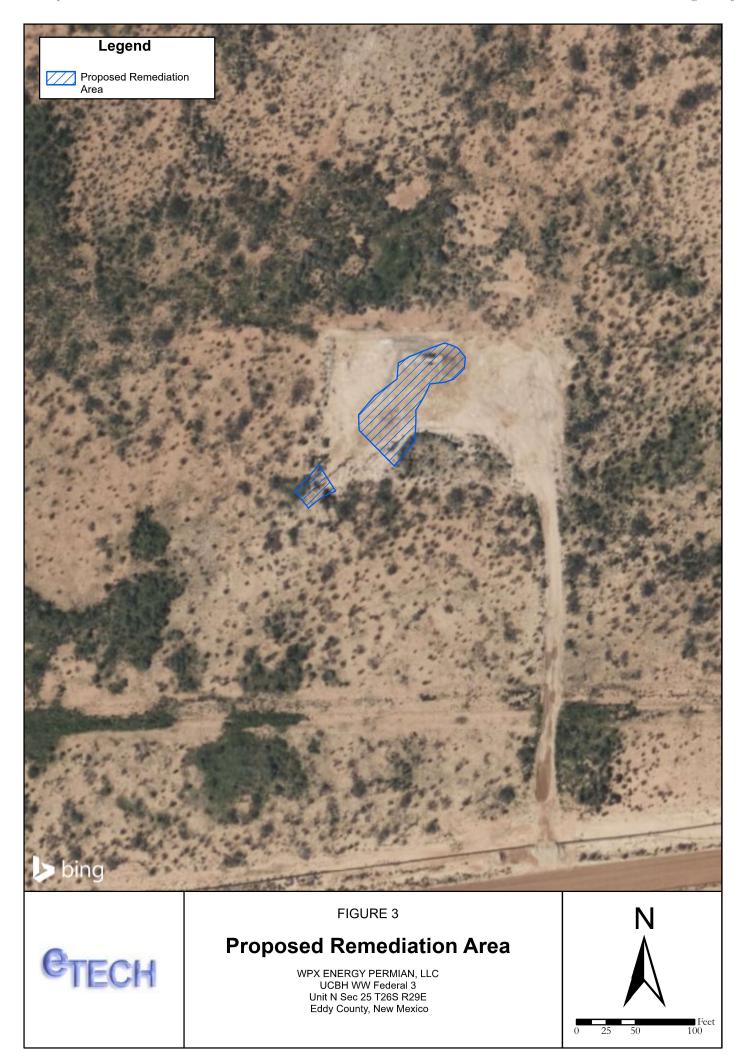
APPENDIX A

Figures









APPENDIX B

Referenced Well Records



Solit Borrey / Market With Number - NA Project & OAST 1987/13 Type of Water Coaley Market NA Tops of Water Coaley Market NA NA NA NA NA NA NA N	ient: Devon Energy oject Name: JC Williams Well GW measurement oject Location: 32.0105289,-103.9534960 oject Manager: Joseph Hernandez	GROUNDWATER SAMPLING FORM
NA = Not Available	ate Completed: NA otal Depth of Monitor Well: NA creen Interval: NA ample Tubing Intake Depth: NA	Project #: 03A1987013 Type of Water Quality Meter: Date Calibrated NA
NA = Not Available	Tubing Placement GW Donth (static) After Purge	

APPENDIX C

Soil Sampling Logs





LITHOLOGIC / SOIL SAMPLING LOG

Sample Name: BH01 Date: 09/14/2022

Site Name: UCBH WW Federal 3 Incident Number: nAB1702454101

Job Number:18174

Logged By: GM Method: Hand Auger

Site Coordinates: 32.007092, -103.940206 Hole Diameter: 3" Total Depth: 4'

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.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Roc k Symbol	Lithologic Descriptions/Notes
DRY	1,613	0	NO	BH01	0.5	- -	SP-SM	0-4', SAND, dry, reddish-brown, poorly graded with silt, very fine-fine, trace white subround to subangular gravel, no staining, no odor.
DRY	1,613 4,799	0.2	NO		1 _ - - 2 _ -	_ 1 - - - -	SP-SM	@ 3', trace clay, no gravel.
					3 -	- - 3 -	SP-SM	
DRY	521	0.3	NO	BH01	4 _	- - 4	SP-SM	

Total depth: 4 feet



Site Name: UCBH WW Federal 3

Date: 09/14/2022

Site Name: UCBH WW Federal 3
Incident Number: nAB1702454101

Job Number:18174

Sample Name: BH02

Logged By: GM Method: Hand Auger

Hole Diameter: 3" Total Depth: 8'

LITHOLOGIC / SOIL SAMPLING LOG

Site Coordinates: 32.007092, -103.940206

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.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rocl Symbol	Lithologic Descriptions/Notes
						_ 0		0-4', SAND, dry, reddish-brown, poorly graded with
DRY	857	0	NO	BH02	0.5	_	SP-SM	silt, very fine-fine, trace white subround to
DRY	3,545	0.2	NO		1 1	- 1	SP-SM	subangular gravel, no staining, no odor.
	5,5 15					_ ·		@ 3', trace clay, no gravel.
					4	_		
DRY	5,197	0.1	NO	BH02	2	- 2	SP-SM	
	5,197	0.1		DITUZ			31 -3W	
					l <u>İ</u>	- _		
DDV	5.047				_	-	00.014	
DRY	5,617		NO		3	_ 3	SP-SM	
					<u> </u>	_		
]	-		
DRY	2,643	0.3	NO		4 -	_ 4	SP-SM	
					†	-		
]	- -		
					4	_ 5		
					+	-		
					1	_		
DRY	2,139	0	NO	BH02	6]	_ 6	SP-SM	
					 	-		
					-	_		
						- _ 7		
						_		
						_		
DRY	168	0	NO	BH02	8 _	- _ 8	SP-SM	
						-	hal ala :- 41-	0.64
						10	tal depth:	o ieei

Site Coordinates: 32.007092, -103.940206



LITHOLOGIC / SOIL SAMPLING LOG

Sample Name: BH03 Date: 09/14/2022
Site Name: UCBH WW Federal 3

Incident Number: nAB1702454101

Job Number:18174

Logged By: GM Method: Hand Auger

Hole Diameter: 3" Total Depth: 1'

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.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	
DRY	857	0	NO	BH03	0.5	- ⁰	SP-SM	ľ
DRY	3,545	0.2	NO	BH03	1 _	L 1	SP-SM	

Lithologic Descriptions/Notes

0-4', SAND, dry, reddish-brown, poorly graded with silt, very fine-fine, trace clay gravel, no staining, no odor.

Total depth: 1 foot

Site Coordinates: 32.007092, -103.940206



LITHOLOGIC / SOIL SAMPLING LOG

Site Name: UCBH WW Federal 3
Incident Number: nAB1702454101

Job Number: 18174

Sample Name: BH04

Logged By: GM Method: Hand Auger

Date: 09/14/2022

Hole Diameter: 3" Total Depth: 4'

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.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
DRY	1,014	0.2	NO	BH04	0.5	- 0	SP-SM	0-4', SAND, dry, reddish-brown, poorly graded with silt, very fine-fine, trace clay gravel, no staining, no odor.
DRY	857	0.1	NO		1 1	- _ 1 -	SP-SM	
DRY	930	0.2	NO		2	- _ 2 -	SP-SM	
DRY	1,014	0.1	NO		3 _	- - - 3 -	SP-SM	
DRY	414	0.1	NO	BH04	4	_ - _ 4	SP-SM	

Total depth: 4 feet



LITHOLOGIC / SOIL SAMPLING LOG

Site Coordinates: 32.007092, -103.940206

Sample Name: BH05 Date: 09/14/2022
Site Name: UCBH WW Federal 3

Incident Number: nAB1702454101

Job Number:18174

Logged By: GM Method: Hand Auger

Hole Diameter: 3" Total Depth: 1'

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.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Roch Symbol	Lithologic Descriptions/Notes
						0		0-4', SAND, dry, reddish-brown, poorly graded with
DRY	<168	0	NO	BH05	0.5	_	SP-SM	silt, very fine, no staining, no odor.
DRY	<168	0	NO	BH05	1 _	- _ 1	SP-SM	

Total depth: 1 feet

Released to Imaging: 10/17/2023 2:29:20 PM



LITHOLOGIC / SOIL SAMPLING LOG

Site Coordinates: 32.007092, -103.940206

Sample Name: BH06 Date: 09/14/2022
Site Name: UCBH WW Federal 3
Incident Number: nAB1702454101

Job Number:18174

Logged By: GM Method: Hand Auger

Hole Diameter: 3" Total Depth: 1'

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.

Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	
<168	0	NO	BH06	0.5	0	SP-SM	C
<168	0	NO	BH06	1 _	1	SP-SM	
	<168	<168 0	<168 0 NO	Chlorid (ppm) ON Vapor (ppm) ON Staining	Chlorid (ppm) ON Vapor (ppm) ON Staining Sample Sample (feet bgg	Chlorid (ppm) O Vapor (ppm) O Staining Sample (feet bgg the pg	Chlorid (ppm) ON Vapor (ppm) ON Staining Sample ODepth OFFICE bg (feet bg OSS/Roo Symbo

Lithologic Descriptions/Notes

0-4', SAND, dry, reddish-brown, poorly graded with silt, very fine, no staining, no odor.

Total depth: 1 feet

Site Coordinates: 32.007092, -103.940206



LITHOLOGIC / SOIL SAMPLING LOG

Site Name: UCBH WW Federal 3
Incident Number: nAB1702454101

Job Number:18174

Sample Name: BH07

Logged By: GM Method: Hand Auger
Hole Diameter: 3" Total Depth: 1'

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.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	
DRY	<168	0	NO	BH07	0.5	- ⁰	SP-SM	C
DRY	<168	0	NO	BH07	1 _	L 1	SP-SM	

Lithologic Descriptions/Notes

Date: 09/14/2022

0-4', SAND, dry, reddish-brown, poorly graded with silt, very fine, no staining, no odor.

Total depth: 1 feet



LITHOLOGIC / SOIL SAMPLING LOG

Site Coordinates: 32.007092, -103.940206

Sample Name: BH08 Date: 09/14/2022

Site Name: UCBH WW Federal 3 Incident Number: nAB1702454101

Job Number:18174

Logged By: GM Method: Hand Auger

Hole Diameter: 3" Total Depth: 1'

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.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	
DRY	<168	0	NO	BH08	0.5	- ⁰	SP-SM	C
DRY	<168	0	NO	BH08	1 _	- 1	SP-SM	

Lithologic Descriptions/Notes

0-4', SAND, dry, reddish-brown, poorly graded with silt, very fine, no staining, no odor.

Total depth: 1 feet

APPENDIX D

Photographic Log





PHOTOGRAPHIC LOG

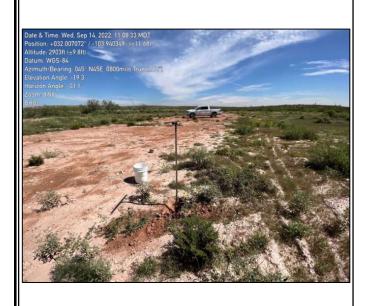
WPX Energy Permian, LLC
UCBH WW Federal 3
Incident Number nAB1702454101



Photograph 1 Date: 9/14/2022

Description: Delineation activities, BH01

View: Northeast



Photograph 3 Date: 9/14/2022

Description: Delineation activities, BH03

View: Northeast



Photograph 2 Date: 9/14/2022

Description: Delineation activities, BH02

View: Northeast



Photograph 4 Date: 9/14/2022

Description: Delineation activities, BH04

View: Northeast

APPENDIX E

Tables





Table 1 SOIL SAMPLE ANALYTICAL RESULTS WPX Energy Permian, LLC UCBH WW Federal 3 Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closur Release (NMAC 19.15.2		ls Impacted by a	10	50	NE	NE	NE	100	600
				Delineation Soil	Samples - nAB170245	4101			
BH01	09/14/22	0.5	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	1,180
BH01	09/14/22	4	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	727
BH02	09/14/22	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	871
BH02	09/14/22	2	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	3,910
BH02	09/14/22	6	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	2,110
BH02	09/14/22	8	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	193
BH03	09/14/22	0.5	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	13.2
BH03	09/14/22	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	13.5
BH04	09/14/22	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	1,420
BH04	09/14/22	4	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	342
BH05	09/14/22	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	11.9
BH05	09/14/22	1	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	10.1
BH06	09/14/22	0.5	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	24.3
BH06	09/14/22	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	26.8
BH07	09/14/22	0.5	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	117
BH07	09/14/22	1	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	49.9
BH08	09/14/22	0.5	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	10.5
BH08	09/14/22	1	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	12.1

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria and/or Reclamation Standard for Soils Impacted by a Release

APPENDIX F

Laboratory Analytical Reports & Chain-of-Custody Documentation



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2965-1

Laboratory Sample Delivery Group: Rural Eddy NM

Client Project/Site: UCBH WW 3

Revision: 1

For:

eurofins 🔆

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Devon Team

RAMER

Authorized for release by: 9/30/2022 2:28:20 PM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

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

Review your project results through EOL

Have a Question?



Visit us at:

www.eurofinsus.com/Env Released to Imaging: 10/17/2023 2:29:20 PM

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Ensolum

Project/Site: UCBH WW 3

Laboratory Job ID: 890-2965-1 SDG: Rural Eddy NM

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Sample Summary	27
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Definitions/Glossary

Client: Ensolum Job ID: 890-2965-1 Project/Site: UCBH WW 3

SDG: Rural Eddy NM

Qualifiers

GC VOA Qualifier

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

*1

LCS/LCSD RPD exceeds control limits. F1 MS and/or MSD recovery exceeds control limits.

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

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

HPLC/IC

Qualifier **Qualifier Description**

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

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

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

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

MDC Minimum Detectable Concentration (Radiochemistry)

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

Practical Quantitation Limit PQL

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

Case Narrative

Client: Ensolum

Project/Site: UCBH WW 3

Job ID: 890-2965-1

SDG: Rural Eddy NM

Job ID: 890-2965-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2965-1

REVISION

The report being provided is a revision of the original report sent on 9/26/2022. The report (revision 1) is being revised due to per client email, requesting correction to sample depth.

Report revision history

Receipt

The samples were received on 9/14/2022 4:34 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.8°C

GC VOA

Method 8021B: LCSD biased low. Since only an acceptable LCS is required per the method, the data has been qualified and reported. (LCSD 880-35199/2-A)

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-35199 and analytical batch 880-35329 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

Method 8015MOD NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-34681 and analytical batch 880-34714 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

HPLC/IC

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

Client: Ensolum Job ID: 890-2965-1

Project/Site: UCBH WW 3 SDG: Rural Eddy NM

Client Sample ID: BH01 Date Collected: 09/14/22 10:00 Date Received: 09/14/22 16:34

Sample Depth: 0.5'

Lab Sample ID: 890-2965-1

09/16/22 13:56 09/18/22 21:34

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U *1	0.00202		mg/Kg		09/22/22 15:49	09/24/22 16:07	1
Toluene	<0.00202	U *-	0.00202		mg/Kg		09/22/22 15:49	09/24/22 16:07	1
Ethylbenzene	<0.00202	U *- F1	0.00202		mg/Kg		09/22/22 15:49	09/24/22 16:07	1
m-Xylene & p-Xylene	<0.00404	U *- F1	0.00404		mg/Kg		09/22/22 15:49	09/24/22 16:07	1
o-Xylene	<0.00202	U *- F1	0.00202		mg/Kg		09/22/22 15:49	09/24/22 16:07	1
Xylenes, Total	<0.00404	U *- F1	0.00404		mg/Kg		09/22/22 15:49	09/24/22 16:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130				09/22/22 15:49	09/24/22 16:07	1
1,4-Difluorobenzene (Surr)	111		70 - 130				09/22/22 15:49	09/24/22 16:07	1
: Method: Total BTEX - Total	BTFX Calcula	tion							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Total BTEX <0.00404 U 0.00404 mg/Kg 09/26/22 15:58 Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte Result Qualifier RL MDL Unit **Prepared** Analyzed Dil Fac Total TPH <49.9 U 49.9 mg/Kg 09/19/22 15:34 Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/16/22 13:56	09/18/22 21:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U F1	49.9		mg/Kg		09/16/22 13:56	09/18/22 21:34	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/16/22 13:56	09/18/22 21:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				09/16/22 13:56	09/18/22 21:34	

Method: 300.0 - Anions, Ion C	hromatography - Solub	le					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1180	4.99	ma/Ka			09/20/22 22:56	1

70 - 130

92

Client Sample ID: BH01 Lab Sample ID: 890-2965-2

Date Collected: 09/14/22 10:10 Date Received: 09/14/22 16:34

Sample Depth: 4'

o-Terphenyl

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *1	0.00200		mg/Kg		09/22/22 15:49	09/24/22 16:27	1
Toluene	<0.00200	U *-	0.00200		mg/Kg		09/22/22 15:49	09/24/22 16:27	1
Ethylbenzene	<0.00200	U *-	0.00200		mg/Kg		09/22/22 15:49	09/24/22 16:27	1
m-Xylene & p-Xylene	<0.00399	U *-	0.00399		mg/Kg		09/22/22 15:49	09/24/22 16:27	1
o-Xylene	<0.00200	U *-	0.00200		mg/Kg		09/22/22 15:49	09/24/22 16:27	1
Xylenes, Total	<0.00399	U *-	0.00399		mg/Kg		09/22/22 15:49	09/24/22 16:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130				09/22/22 15:49	09/24/22 16:27	1

Eurofins Carlsbad

Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-2965-2

Job ID: 890-2965-1

Client: Ensolum Project/Site: UCBH WW 3 SDG: Rural Eddy NM

Client Sample ID: BH01

Date Collected: 09/14/22 10:10 Date Received: 09/14/22 16:34

Sample Depth: 4'

Method: 8021B - Volatile	Organic Compound	s (GC)	(Continued)
Mothod: COZID Toldtilo	organio compound	J (U U)	(Sommada)

Surrogate	%Recovery	Qualifier	Limits	Prepared Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	111		70 - 130	09/22/22 15:49 09/24/22 16:27	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00399	U	0.00399	mg/Kg		_	09/26/22 15:58	1

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

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			09/19/22 15:34	1

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

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/16/22 13:56	09/18/22 22:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/16/22 13:56	09/18/22 22:36	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/16/22 13:56	09/18/22 22:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87	70 - 130	09/16/22 13:56	09/18/22 22:36	1
o-Terphenyl	93	70 - 130	09/16/22 13:56	09/18/22 22:36	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	727		4.95		mg/Kg			09/20/22 23:01	1

Client Sample ID: BH02 Lab Sample ID: 890-2965-3 **Matrix: Solid**

Date Collected: 09/14/22 10:20 Date Received: 09/14/22 16:34

Sample Depth: 0.5'

Mothod: 9021B	Volatila	Organic (Compounds	(CC)

Metrica, our ib - Volatile o	igaine compo	unus (GO)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *1	0.00199		mg/Kg		09/22/22 15:49	09/24/22 16:48	1
Toluene	< 0.00199	U *-	0.00199		mg/Kg		09/22/22 15:49	09/24/22 16:48	1
Ethylbenzene	< 0.00199	U *-	0.00199		mg/Kg		09/22/22 15:49	09/24/22 16:48	1
m-Xylene & p-Xylene	<0.00398	U *-	0.00398		mg/Kg		09/22/22 15:49	09/24/22 16:48	1
o-Xylene	< 0.00199	U *-	0.00199		mg/Kg		09/22/22 15:49	09/24/22 16:48	1
Xylenes, Total	<0.00398	U *-	0.00398		mg/Kg		09/22/22 15:49	09/24/22 16:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130				09/22/22 15:49	09/24/22 16:48	1
1,4-Difluorobenzene (Surr)	109		70 - 130				09/22/22 15:49	09/24/22 16:48	1

Method: Tota	I RTEY	Total RTEY	Calculation

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			09/26/22 15:58	1

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

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg		_	09/19/22 15:34	1

Eurofins Carlsbad

Client: Ensolum Job ID: 890-2965-1 Project/Site: UCBH WW 3 SDG: Rural Eddy NM

Client Sample ID: BH02

Date Collected: 09/14/22 10:20 Date Received: 09/14/22 16:34

Sample Depth: 0.5'

Lab	Sample	ID:	890-2965-3

Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC) Result Qualifier Dil Fac Analyte RL **MDL** Unit Prepared Analyzed <50.0 U 50.0 09/16/22 13:56 09/18/22 22:56 Gasoline Range Organics mg/Kg (GRO)-C6-C10 <50.0 U Diesel Range Organics (Over 50.0 mg/Kg 09/16/22 13:56 09/18/22 22:56 C10-C28) 09/16/22 13:56 09/18/22 22:56 Oll Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg Dil Fac Surrogate %Recovery Qualifier Limits Prepared Analyzed 1-Chlorooctane 70 - 130 09/16/22 13:56 09/18/22 22:56 87 o-Terphenyl 93 70 - 130 09/16/22 13:56 09/18/22 22:56

Method: 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier **MDL** Unit Analyte RL Prepared Analyzed Dil Fac Chloride 4.98 09/20/22 23:06 871 mg/Kg

Client Sample ID: BH02 Lab Sample ID: 890-2965-4 Date Collected: 09/14/22 10:30 Matrix: Solid

Date Received: 09/14/22 16:34

Sample Depth: 2'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *1	0.00199		mg/Kg		09/22/22 15:49	09/24/22 17:08	1
Toluene	< 0.00199	U *-	0.00199		mg/Kg		09/22/22 15:49	09/24/22 17:08	1
Ethylbenzene	< 0.00199	U *-	0.00199		mg/Kg		09/22/22 15:49	09/24/22 17:08	1
m-Xylene & p-Xylene	<0.00398	U *-	0.00398		mg/Kg		09/22/22 15:49	09/24/22 17:08	1
o-Xylene	< 0.00199	U *-	0.00199		mg/Kg		09/22/22 15:49	09/24/22 17:08	1
Xylenes, Total	<0.00398	U *-	0.00398		mg/Kg		09/22/22 15:49	09/24/22 17:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130				09/22/22 15:49	09/24/22 17:08	1
1,4-Difluorobenzene (Surr)	120		70 - 130				09/22/22 15:49	09/24/22 17:08	1
Method: Total BTEX - Total	l BTEX Calcula	tion							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/26/22 15:58	1
Method: 8015 NM - Diesel	Range Organic	s (DRO) (0	GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/19/22 15:34	1
Method: 8015B NM - Diese	I Range Organ	ics (DRO)	(GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
							20/10/20 10 50	20/10/20 20 10	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/16/22 13:56	09/18/22 23:16	1

Eurofins Carlsbad

Analyzed

09/16/22 13:56 09/18/22 23:16

09/16/22 13:56 09/18/22 23:16

09/16/22 13:56 09/18/22 23:16

09/16/22 13:56 09/18/22 23:16

Prepared

49.9

49.9

Limits

70 - 130

70 - 130

mg/Kg

mg/Kg

<49.9 U

<49.9 U

%Recovery Qualifier

82

86

Dil Fac

Diesel Range Organics (Over

Oll Range Organics (Over C28-C36)

C10-C28)

Surrogate

o-Terphenyl

1-Chlorooctane

Matrix: Solid

Job ID: 890-2965-1

Client: Ensolum Project/Site: UCBH WW 3 SDG: Rural Eddy NM

Lab Sample ID: 890-2965-4 **Client Sample ID: BH02**

Date Collected: 09/14/22 10:30 **Matrix: Solid** Date Received: 09/14/22 16:34

Sample Depth: 2'

Method: 300.0 - Anions, Ion Ch	romatogra	phy - Solu	ble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3910		24.9		mg/Kg			09/20/22 23:11	5

Client Sample ID: BH02 Lab Sample ID: 890-2965-5

Date Collected: 09/14/22 10:40 Date Received: 09/14/22 16:34

Sample Depth: 6'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U *1	0.00198		mg/Kg		09/22/22 15:49	09/24/22 17:29	1
Toluene	<0.00198	U *-	0.00198		mg/Kg		09/22/22 15:49	09/24/22 17:29	1
Ethylbenzene	<0.00198	U *-	0.00198		mg/Kg		09/22/22 15:49	09/24/22 17:29	1
m-Xylene & p-Xylene	< 0.00396	U *-	0.00396		mg/Kg		09/22/22 15:49	09/24/22 17:29	1
o-Xylene	<0.00198	U *-	0.00198		mg/Kg		09/22/22 15:49	09/24/22 17:29	1
Xylenes, Total	<0.00396	U *-	0.00396		mg/Kg		09/22/22 15:49	09/24/22 17:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130				09/22/22 15:49	09/24/22 17:29	1
1,4-Difluorobenzene (Surr)	110		70 - 130				09/22/22 15:49	09/24/22 17:29	1

Method: Total BTEX - Total BTI	EX Calculat	tion							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			09/26/22 15:58	1

Method: 8015 NM - Diesei Range Organics (DRO) (GC)										
	Analyte	Result	Qualifier	RL	MDL U	nit	D	Prepared	Analyzed	Dil Fac
	Total TPH	<50.0	U	50.0	m	ng/Kg			09/19/22 15:34	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/16/22 13:56	09/18/22 23:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/16/22 13:56	09/18/22 23:36	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/16/22 13:56	09/18/22 23:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				09/16/22 13:56	09/18/22 23:36	1
o-Terphenyl	97		70 - 130				09/16/22 13:56	09/18/22 23:36	1

Method: 300.0 - Anions, Ion Cl	nromatogra	phy - Solu	ble							
Analyte	Result	Qualifier	RL	MDL	Unit	D)	Prepared	Analyzed	Dil Fac
Chloride	2110		25.0		mg/Kg				09/20/22 23:15	5

Matrix: Solid

Lab Sample ID: 890-2965-6

09/16/22 13:56 09/18/22 23:56

Client: Ensolum Job ID: 890-2965-1
Project/Site: UCBH WW 3 SDG: Rural Eddy NM

Client Sample ID: BH02

Date Collected: 09/14/22 10:50 Date Received: 09/14/22 16:34

Sample Depth: 8'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *1	0.00201		mg/Kg		09/22/22 15:49	09/24/22 17:49	1
Toluene	<0.00201	U *-	0.00201		mg/Kg		09/22/22 15:49	09/24/22 17:49	1
Ethylbenzene	<0.00201	U *-	0.00201		mg/Kg		09/22/22 15:49	09/24/22 17:49	1
m-Xylene & p-Xylene	<0.00402	U *-	0.00402		mg/Kg		09/22/22 15:49	09/24/22 17:49	1
o-Xylene	<0.00201	U *-	0.00201		mg/Kg		09/22/22 15:49	09/24/22 17:49	1
Xylenes, Total	<0.00402	U *-	0.00402		mg/Kg		09/22/22 15:49	09/24/22 17:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130				09/22/22 15:49	09/24/22 17:49	1
1.4-Difluorobenzene (Surr)	122		70 - 130				09/22/22 15:49	09/24/22 17:49	1

Method: Total BTEX - Total BTE	X Calcula	tion							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/26/22 15:58	1

Method: 8015 NM - Diesel Rang	e Organic	s (DRO) (G	iC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/19/22 15:34	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/16/22 13:56	09/18/22 23:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/16/22 13:56	09/18/22 23:56	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/16/22 13:56	09/18/22 23:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				09/16/22 13:56	09/18/22 23:56	1

Method: 300.0 - Anions, Ion Cl	hromatography -	Soluble						
Analyte	Result Qualif	fier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	193	4.95		mg/Kg			09/20/22 23:30	1

70 - 130

Client Sample ID: BH03

Date Collected: 09/14/22 11:00

Lab Sample ID: 890-2965-7

Matrix: Solid

Date Received: 09/14/22 16:34

Sample Depth: 0.5'

o-Terphenyl

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *1	0.00200		mg/Kg		09/22/22 15:49	09/24/22 18:10	1
Toluene	<0.00200	U *-	0.00200		mg/Kg		09/22/22 15:49	09/24/22 18:10	1
Ethylbenzene	<0.00200	U *-	0.00200		mg/Kg		09/22/22 15:49	09/24/22 18:10	1
m-Xylene & p-Xylene	<0.00401	U *-	0.00401		mg/Kg		09/22/22 15:49	09/24/22 18:10	1
o-Xylene	<0.00200	U *-	0.00200		mg/Kg		09/22/22 15:49	09/24/22 18:10	1
Xylenes, Total	<0.00401	U *-	0.00401		mg/Kg		09/22/22 15:49	09/24/22 18:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				09/22/22 15:49	09/24/22 18:10	1

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Job ID: 890-2965-1 SDG: Rural Eddy NM

Client: Ensolum
Project/Site: UCBH WW 3

Client Sample ID: BH03 Lab Sample ID: 890-2965-7

Date Collected: 09/14/22 11:00 Matrix: Solid
Date Received: 09/14/22 16:34

Sample Depth: 0.5'

Surrogate	%Recovery Qualifi	ier Limits	Prepared	Analyzed	Dil Fac
1.4-Difluorobenzene (Surr)	109	70 - 130	09/22/22 15:49	09/24/22 18:10	

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00401	U	0.00401	mg/Kg			09/26/22 15:58	1

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

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg	_		09/19/22 15:34	1

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

Analyte	Result	Qualifier	RL	MDL U	Jnit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	n	ng/Kg		09/16/22 13:56	09/19/22 00:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	n	ng/Kg		09/16/22 13:56	09/19/22 00:16	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	n	ng/Kg		09/16/22 13:56	09/19/22 00:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	82	70 - 130	09/16/22 13:56	09/19/22 00:16	1
o-Terphenyl	85	70 - 130	09/16/22 13:56	09/19/22 00:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte		Qualifier	RL	MDL	Unit	D)	Prepared	Analyzed	Dil Fac
Chloride	13.2		4.98		mg/Kg				09/20/22 23:35	1

Client Sample ID: BH03

Date Collected: 09/14/22 11:10

Lab Sample ID: 890-2965-8

Matrix: Solid

Date Collected: 09/14/22 11:10 Date Received: 09/14/22 16:34

Sample Depth: 1'

Mothod: 9021B	Volatila	Organic (Compounds	(CC)

Welliou. 602 ID - Volatile O	rgariic Compo	ulius (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *1	0.00200		mg/Kg		09/22/22 15:49	09/24/22 18:30	1
Toluene	< 0.00200	U *-	0.00200		mg/Kg		09/22/22 15:49	09/24/22 18:30	1
Ethylbenzene	<0.00200	U *-	0.00200		mg/Kg		09/22/22 15:49	09/24/22 18:30	1
m-Xylene & p-Xylene	< 0.00399	U *-	0.00399		mg/Kg		09/22/22 15:49	09/24/22 18:30	1
o-Xylene	<0.00200	U *-	0.00200		mg/Kg		09/22/22 15:49	09/24/22 18:30	1
Xylenes, Total	<0.00399	U *-	0.00399		mg/Kg		09/22/22 15:49	09/24/22 18:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130				09/22/22 15:49	09/24/22 18:30	1
1.4-Difluorobenzene (Surr)	113		70 - 130				09/22/22 15:49	09/24/22 18:30	1

Mothod:	Total DTEV	- Total BTFX	Calculation
METROO	TOIST DIEX	- IOIAL DIEX	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00399	U	0.00399		mg/Kg			09/26/22 15:58	1

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

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 U	50.0	mg/Kg			09/19/22 15:34	1

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Client: Ensolum Job ID: 890-2965-1 Project/Site: UCBH WW 3 SDG: Rural Eddy NM

Da Date Received: 09/14/22 16:34

Sample Depth: 1'

Client Sample ID: BH03	Lab Sample ID: 890-2965-8
Pate Collected: 09/14/22 11:10	Matrix: Solid

Method: 8015B NM - Diesel R	ange Organ	ics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/16/22 13:56	09/19/22 00:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/16/22 13:56	09/19/22 00:36	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/16/22 13:56	09/19/22 00:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				09/16/22 13:56	09/19/22 00:36	1
o-Terphenyl	90		70 - 130				09/16/22 13:56	09/19/22 00:36	1
Method: 300.0 - Anions, Ion C	hromatogra	ıphy - Solı	ıble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.5		5.00		mg/Kg			09/20/22 23:49	1

Lab Sample ID: 890-2965-9 Client Sample ID: BH04 Date Collected: 09/14/22 11:20 **Matrix: Solid**

Date Received: 09/14/22 16:34

Sample Denth: 0.5

(GRO)-C6-C10

C10-C28)

Surrogate

o-Terphenyl

1-Chlorooctane

Diesel Range Organics (Over

Oll Range Organics (Over C28-C36)

Method: 8021B - Volatile O	rganic Compo	unds (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *1	0.00199		mg/Kg		09/22/22 15:49	09/24/22 18:51	1
Toluene	< 0.00199	U *-	0.00199		mg/Kg		09/22/22 15:49	09/24/22 18:51	1
Ethylbenzene	< 0.00199	U *-	0.00199		mg/Kg		09/22/22 15:49	09/24/22 18:51	1
m-Xylene & p-Xylene	<0.00398	U *-	0.00398		mg/Kg		09/22/22 15:49	09/24/22 18:51	1
o-Xylene	< 0.00199	U *-	0.00199		mg/Kg		09/22/22 15:49	09/24/22 18:51	1
Xylenes, Total	<0.00398	U *-	0.00398		mg/Kg		09/22/22 15:49	09/24/22 18:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				09/22/22 15:49	09/24/22 18:51	1
1,4-Difluorobenzene (Surr)	114		70 - 130				09/22/22 15:49	09/24/22 18:51	1
- Method: Total BTEX - Total	BTEX Calcula	tion							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/26/22 15:58	1
Method: 8015 NM - Diesel I	Range Organic	s (DRO) (0	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/19/22 15:34	1
Method: 8015B NM - Diese	l Range Organ	ics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9		49.9		mg/Kg		09/16/22 13:56	09/19/22 00:56	1

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Dil Fac

09/16/22 13:56 09/19/22 00:56

09/16/22 13:56 09/19/22 00:56

09/16/22 13:56 09/19/22 00:56

09/16/22 13:56 09/19/22 00:56

Analyzed

Prepared

49.9

49.9

Limits

70 - 130

70 - 130

mg/Kg

mg/Kg

<49.9 U

<49.9 U

%Recovery Qualifier

94

99

Matrix: Solid

Lab Sample ID: 890-2965-9

09/19/22 15:34

Job ID: 890-2965-1

Client: Ensolum Project/Site: UCBH WW 3 SDG: Rural Eddy NM

Client Sample ID: BH04

Date Collected: 09/14/22 11:20 Date Received: 09/14/22 16:34

Sample Depth: 0.5'

Method: 300.0 - Anions, Ion Cl	hromatogra	phy - Solub	ole						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1420		25.3		mg/Kg			09/20/22 23:54	5

Client Sample ID: BH04 Lab Sample ID: 890-2965-10 Matrix: Solid

Date Collected: 09/14/22 11:30 Date Received: 09/14/22 16:34

Sample Depth: 4'

Total TPH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *1	0.00201		mg/Kg		09/22/22 15:49	09/24/22 19:12	1
Toluene	<0.00201	U *-	0.00201		mg/Kg		09/22/22 15:49	09/24/22 19:12	1
Ethylbenzene	<0.00201	U *-	0.00201		mg/Kg		09/22/22 15:49	09/24/22 19:12	1
m-Xylene & p-Xylene	<0.00402	U *-	0.00402		mg/Kg		09/22/22 15:49	09/24/22 19:12	1
o-Xylene	<0.00201	U *-	0.00201		mg/Kg		09/22/22 15:49	09/24/22 19:12	1
Xylenes, Total	<0.00402	U *-	0.00402		mg/Kg		09/22/22 15:49	09/24/22 19:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130				09/22/22 15:49	09/24/22 19:12	1
1,4-Difluorobenzene (Surr)	120		70 - 130				09/22/22 15:49	09/24/22 19:12	1

Analyte	Result	Qualifier	KL	MDL	Unit	U	Prepared	Anaiyzea	DII Fac	
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/26/22 15:58	1	
Method: 8015 NM - Diesel Rang	ge Organic	s (DRO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	

49.9

mg/Kg

<49.9 U

<u></u>					0 0				
Method: 8015B NM - Diesel R Analyte	_	ics (DRO) Qualifier	(GC)	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9		49.9		mg/Kg	_ =	09/16/22 13:56		1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/16/22 13:56	09/19/22 01:16	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/16/22 13:56	09/19/22 01:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130				09/16/22 13:56	09/19/22 01:16	1
o-Terphenyl	80		70 - 130				09/16/22 13:56	09/19/22 01:16	1

Method: 300.0 - Anions, Ion Cl	hromatogra	phy - Solu	ble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	342		5.05		mg/Kg			09/20/22 23:59	1

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09/16/22 13:56 09/19/22 01:16

Released to Imaging: 10/17/2023 2:29:20 PM

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Surrogate Summary

Client: Ensolum Job ID: 890-2965-1 Project/Site: UCBH WW 3 SDG: Rural Eddy NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	ent Surrogate Rec
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
390-2965-1	BH01	95	111 -	
390-2965-1 MS	BH01	82	109	
390-2965-1 MSD	BH01	81	111	
390-2965-2	BH01	98	111	
390-2965-3	BH02	96	109	
390-2965-4	BH02	89	120	
390-2965-5	BH02	96	110	
390-2965-6	BH02	87	122	
390-2965-7	BH03	99	109	
390-2965-8	BH03	81	113	
390-2965-9	BH04	99	114	
390-2965-10	BH04	79	120	
_CS 880-35199/1-A	Lab Control Sample	85	108	
_CSD 880-35199/2-A	Lab Control Sample Dup	84	101	
MB 880-35199/5-A	Method Blank	103	119	
Surrogate Legend				
BFB = 4-Bromofluorob	onzono (Curr)			

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

Matrix: Solid Prep Type: Total/NA

			Percent Su	rrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2965-1	BH01	91	92	
890-2965-1 MS	BH01	81	76	
890-2965-1 MSD	BH01	86	80	
890-2965-2	BH01	87	93	
890-2965-3	BH02	87	93	
890-2965-4	BH02	82	86	
890-2965-5	BH02	91	97	
890-2965-6	BH02	87	90	
890-2965-7	BH03	82	85	
890-2965-8	BH03	84	90	
890-2965-9	BH04	94	99	
890-2965-10	BH04	78	80	
LCS 880-34681/2-A	Lab Control Sample	85	92	
LCSD 880-34681/3-A	Lab Control Sample Dup	86	96	
MB 880-34681/1-A	Method Blank	116	119	

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OTPH = o-Terphenyl

Client: Ensolum

Job ID: 890-2965-1

SDG: Rural Eddy NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-35199/5-A

Matrix: Solid

Analysis Batch: 35329

Project/Site: UCBH WW 3

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 35199

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/22/22 15:49	09/24/22 15:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/22/22 15:49	09/24/22 15:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/22/22 15:49	09/24/22 15:38	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/22/22 15:49	09/24/22 15:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/22/22 15:49	09/24/22 15:38	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/22/22 15:49	09/24/22 15:38	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed
4-Bromofluorobenzene (Surr)	103		70 - 130	09/22/22 15:49	09/24/22 15:38
1,4-Difluorobenzene (Surr)	119		70 - 130	09/22/22 15:49	09/24/22 15:38

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 35199

Prep Type: Total/NA

Prep Batch: 35199

Matrix: Solid Analysis Batch: 35329

Lab Sample ID: LCS 880-35199/1-A

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 70 - 130 0.1041 mg/Kg 104 Toluene 0.100 mg/Kg 70 - 130 0.08298 83 Ethylbenzene 0.100 0.07948 mg/Kg 79 70 - 130 0.200 81 m-Xylene & p-Xylene 0.1620 mg/Kg 70 - 130 o-Xylene 0.100 0.08134 mg/Kg 70 - 130

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	85		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Client Sample ID: Lab Control Sample Dup

Analysis Batch: 35329

Matrix: Solid

Lab Sample ID: LCSD 880-35199/2-A

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.07166	*1	mg/Kg		72	70 - 130	37	35
Toluene	0.100	0.05980	*-	mg/Kg		60	70 - 130	32	35
Ethylbenzene	0.100	0.05660	*-	mg/Kg		57	70 - 130	34	35
m-Xylene & p-Xylene	0.200	0.1165	*_	mg/Kg		58	70 - 130	33	35
o-Xylene	0.100	0.06050	*_	mg/Kg		60	70 - 130	29	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	84		70 - 130
1.4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 890-2965-1 MS

Matrix: Solid

Analysis Batch: 35329

Client Sample ID: BH01 Prep Type: Total/NA

Prep Batch: 35199

_	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00202	U *1	0.0998	0.09137		mg/Kg		91	70 - 130	
Toluene	<0.00202	U *-	0.0998	0.07416		mg/Kg		73	70 - 130	

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9/30/2022 (Rev. 1)

Client: Ensolum Job ID: 890-2965-1 Project/Site: UCBH WW 3 SDG: Rural Eddy NM

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

Lab Sample ID: 890-2965-1 MS

Analysis Batch: 35329

Matrix: Solid

Client Sample ID: BH01 **Prep Type: Total/NA**

Prep Batch: 35199

Sample	Sample	Spike	MS	MS				%Rec	
Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
<0.00202	U *- F1	0.0998	0.06651	F1	mg/Kg		66	70 - 130	
<0.00404	U *- F1	0.200	0.1323	F1	mg/Kg		65	70 - 130	
<0.00202	U *- F1	0.0998	0.06601	F1	mg/Kg		65	70 - 130	
	Result <0.00202 <0.00404	Result Qualifier	Result Qualifier Added	Result Qualifier Added Added Result Qualifier <0.00202	Result Qualifier Added Result Qualifier <0.00202	Result Qualifier Added Result Qualifier Unit <0.00202	Result Qualifier Added Added Result Qualifier Unit Missing D Missing <0.00202	Result Qualifier Added Result Qualifier Unit mg/Kg D %Rec <0.00202	Result Qualifier Added Result Qualifier Unit mg/Kg D %Rec mg/Kg Limits <0.00202

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	82		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Client Sample ID: BH01

Prep Batch: 35199

Prep Type: Total/NA

Lab Sample ID: 890-2965-1 MSD **Matrix: Solid**

Analysis Batch: 35329

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	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00202	U *1	0.100	0.09751		mg/Kg		96	70 - 130	7	35
Toluene	<0.00202	U *-	0.100	0.07203		mg/Kg		70	70 - 130	3	35
Ethylbenzene	<0.00202	U *- F1	0.100	0.06391	F1	mg/Kg		63	70 - 130	4	35
m-Xylene & p-Xylene	<0.00404	U *- F1	0.201	0.1265	F1	mg/Kg		62	70 - 130	5	35
o-Xylene	<0.00202	U *- F1	0.100	0.06225	F1	mg/Kg		61	70 - 130	6	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	81		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

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

Lab Sample ID: MB 880-34681/1-A

Matrix: Solid

Analysis Batch: 34714

Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 34681

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/16/22 13:56	09/18/22 20:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/16/22 13:56	09/18/22 20:31	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/16/22 13:56	09/18/22 20:31	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130	09/16/22 13:56	09/18/22 20:31	1
o-Terphenyl	119		70 - 130	09/16/22 13:56	09/18/22 20:31	1

Lab Sample ID: LCS 880-34681/2-A

Matrix: Solid

Analysis Batch: 34714

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

Prep Batch: 34681

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	917.5		mg/Kg		92	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	836.1		mg/Kg		84	70 - 130	
C10-C28)								

Client: Ensolum Job ID: 890-2965-1 SDG: Rural Eddy NM Project/Site: UCBH WW 3

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

Lab Sample ID: LCS 880-34681/2-A

Lab Sample ID: LCSD 880-34681/3-A

Matrix: Solid

Analysis Batch: 34714

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 34681

LCS LCS

%Recovery Qualifier Limits Surrogate 1-Chlorooctane 85 70 - 130 o-Terphenyl 92 70 - 130

Client Sample ID: Lab Control Sample Dup

81

67

70 - 130

70 - 130

Prep Type: Total/NA

Client Sample ID: BH01

3

20

Matrix: Solid

Analysis Batch: 34714

Prep Batch: 34681 LCSD LCSD RPD %Rec Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Gasoline Range Organics 1000 893.4 mg/Kg 89 70 - 130 3 20

813.5

664.2 F1

mg/Kg

mg/Kg

1000

Diesel Range Organics (Over C10-C28)

o-Terphenyl

(GRO)-C6-C10

LCSD LCSD %Recovery Qualifier Surrogate Limits 1-Chlorooctane 86 70 - 130 70 - 130

96

<49.9 UF1

Lab Sample ID: 890-2965-1 MS

Matrix: Solid

Prep Type: Total/NA Analysis Batch: 34714 Prep Batch: 34681

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Limits Analyte Unit D %Rec Ū Gasoline Range Organics <49.9 996 1291 mg/Kg 126 70 - 130

996

(GRO)-C6-C10 Diesel Range Organics (Over

C10-C28)

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 70 - 130 81 o-Terphenyl 76 70 - 130

Lab Sample ID: 890-2965-1 MSD **Client Sample ID: BH01 Matrix: Solid Prep Type: Total/NA**

Analysis Batch: 34714

Prep Batch: 34681 Sample Sample Spike MSD MSD %Rec **RPD** Result Qualifier Added Result Qualifier Limits **RPD** Limit **Analyte** Unit D %Rec Gasoline Range Organics <49.9 U 999 1261 123 70 - 130 2 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.9 UF1 999 717.2 mg/Kg 72 70 - 130 8 20

C10-C28)

MSD MSD

%Recovery Qualifier Limits Surrogate 1-Chlorooctane 86 70 - 130 o-Terphenyl 80 70 - 130

QC Sample Results

Client: Ensolum Job ID: 890-2965-1 Project/Site: UCBH WW 3

SDG: Rural Eddy NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-34663/1-A

Lab Sample ID: LCS 880-34663/2-A

Client Sample ID: Method Blank

Prep Type: Soluble

Analysis Batch: 34948

Matrix: Solid

Matrix: Solid

Chloride

MB MB

Analyte Result Qualifier RL **MDL** Unit Analyzed Dil Fac D Prepared 5.00 09/20/22 21:53 Chloride <5.00 U mg/Kg

Client Sample ID: Lab Control Sample

%Rec

Limits

Prep Type: Soluble

Analysis Batch: 34948

Spike LCS LCS Analyte Added Result Qualifier Unit D %Rec

90 - 110 mg/Kg 100

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 880-34663/3-A **Matrix: Solid**

249.0

250

Prep Type: Soluble

Analysis Batch: 34948

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Limits **RPD** Limit Unit D %Rec Chloride 250 250.1 100 20 mg/Kg

Lab Sample ID: 890-2965-5 MS Client Sample ID: BH02 **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 34948

Spike MS MS %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 2110 1250 3412 104 mg/Kg 90 - 110

Lab Sample ID: 890-2965-5 MSD Client Sample ID: BH02 **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 34948

MSD MSD RPD Sample Sample Spike %Rec Analyte Result Qualifier Added Unit %Rec Limits RPD Limit Result Qualifier Chloride 2110 1250 3406 104 90 - 110 20 mg/Kg 0

QC Association Summary

Job ID: 890-2965-1 Client: Ensolum Project/Site: UCBH WW 3 SDG: Rural Eddy NM

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Prep Batch: 35199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2965-1	BH01	Total/NA	Solid	5035	
890-2965-2	BH01	Total/NA	Solid	5035	
890-2965-3	BH02	Total/NA	Solid	5035	
890-2965-4	BH02	Total/NA	Solid	5035	
890-2965-5	BH02	Total/NA	Solid	5035	
890-2965-6	BH02	Total/NA	Solid	5035	
890-2965-7	BH03	Total/NA	Solid	5035	
890-2965-8	BH03	Total/NA	Solid	5035	
890-2965-9	BH04	Total/NA	Solid	5035	
890-2965-10	BH04	Total/NA	Solid	5035	
MB 880-35199/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-35199/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-35199/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2965-1 MS	BH01	Total/NA	Solid	5035	
890-2965-1 MSD	BH01	Total/NA	Solid	5035	

Analysis Batch: 35329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2965-1	BH01	Total/NA	Solid	8021B	35199
890-2965-2	BH01	Total/NA	Solid	8021B	35199
890-2965-3	BH02	Total/NA	Solid	8021B	35199
890-2965-4	BH02	Total/NA	Solid	8021B	35199
890-2965-5	BH02	Total/NA	Solid	8021B	35199
890-2965-6	BH02	Total/NA	Solid	8021B	35199
890-2965-7	BH03	Total/NA	Solid	8021B	35199
890-2965-8	BH03	Total/NA	Solid	8021B	35199
890-2965-9	BH04	Total/NA	Solid	8021B	35199
890-2965-10	BH04	Total/NA	Solid	8021B	35199
MB 880-35199/5-A	Method Blank	Total/NA	Solid	8021B	35199
LCS 880-35199/1-A	Lab Control Sample	Total/NA	Solid	8021B	35199
LCSD 880-35199/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	35199
890-2965-1 MS	BH01	Total/NA	Solid	8021B	35199
890-2965-1 MSD	BH01	Total/NA	Solid	8021B	35199

Analysis Batch: 35433

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2965-1	BH01	Total/NA	Solid	Total BTEX	
890-2965-2	BH01	Total/NA	Solid	Total BTEX	
890-2965-3	BH02	Total/NA	Solid	Total BTEX	
890-2965-4	BH02	Total/NA	Solid	Total BTEX	
890-2965-5	BH02	Total/NA	Solid	Total BTEX	
890-2965-6	BH02	Total/NA	Solid	Total BTEX	
890-2965-7	BH03	Total/NA	Solid	Total BTEX	
890-2965-8	BH03	Total/NA	Solid	Total BTEX	
890-2965-9	BH04	Total/NA	Solid	Total BTEX	
890-2965-10	BH04	Total/NA	Solid	Total BTEX	

QC Association Summary

Job ID: 890-2965-1 Client: Ensolum Project/Site: UCBH WW 3 SDG: Rural Eddy NM

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Prep Batch: 34681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2965-1	BH01	Total/NA	Solid	8015NM Prep	
890-2965-2	BH01	Total/NA	Solid	8015NM Prep	
890-2965-3	BH02	Total/NA	Solid	8015NM Prep	
890-2965-4	BH02	Total/NA	Solid	8015NM Prep	
890-2965-5	BH02	Total/NA	Solid	8015NM Prep	
890-2965-6	BH02	Total/NA	Solid	8015NM Prep	
890-2965-7	BH03	Total/NA	Solid	8015NM Prep	
890-2965-8	BH03	Total/NA	Solid	8015NM Prep	
890-2965-9	BH04	Total/NA	Solid	8015NM Prep	
890-2965-10	BH04	Total/NA	Solid	8015NM Prep	
MB 880-34681/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-34681/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-34681/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2965-1 MS	BH01	Total/NA	Solid	8015NM Prep	
890-2965-1 MSD	BH01	Total/NA	Solid	8015NM Prep	

Analysis Batch: 34714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2965-1	BH01	Total/NA	Solid	8015B NM	34681
890-2965-2	BH01	Total/NA	Solid	8015B NM	34681
890-2965-3	BH02	Total/NA	Solid	8015B NM	34681
890-2965-4	BH02	Total/NA	Solid	8015B NM	34681
890-2965-5	BH02	Total/NA	Solid	8015B NM	34681
890-2965-6	BH02	Total/NA	Solid	8015B NM	34681
890-2965-7	BH03	Total/NA	Solid	8015B NM	34681
890-2965-8	BH03	Total/NA	Solid	8015B NM	34681
890-2965-9	BH04	Total/NA	Solid	8015B NM	34681
890-2965-10	BH04	Total/NA	Solid	8015B NM	34681
MB 880-34681/1-A	Method Blank	Total/NA	Solid	8015B NM	34681
LCS 880-34681/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	34681
LCSD 880-34681/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	34681
890-2965-1 MS	BH01	Total/NA	Solid	8015B NM	34681
890-2965-1 MSD	BH01	Total/NA	Solid	8015B NM	34681

Analysis Batch: 34867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2965-1	BH01	Total/NA	Solid	8015 NM	
890-2965-2	BH01	Total/NA	Solid	8015 NM	
890-2965-3	BH02	Total/NA	Solid	8015 NM	
890-2965-4	BH02	Total/NA	Solid	8015 NM	
890-2965-5	BH02	Total/NA	Solid	8015 NM	
890-2965-6	BH02	Total/NA	Solid	8015 NM	
890-2965-7	BH03	Total/NA	Solid	8015 NM	
890-2965-8	BH03	Total/NA	Solid	8015 NM	
890-2965-9	BH04	Total/NA	Solid	8015 NM	
890-2965-10	BH04	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum
Project/Site: UCBH WW 3
Job ID: 890-2965-1
SDG: Rural Eddy NM

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Leach Batch: 34663

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2965-1	BH01	Soluble	Solid	DI Leach	
890-2965-2	BH01	Soluble	Solid	DI Leach	
890-2965-3	BH02	Soluble	Solid	DI Leach	
890-2965-4	BH02	Soluble	Solid	DI Leach	
890-2965-5	BH02	Soluble	Solid	DI Leach	
890-2965-6	BH02	Soluble	Solid	DI Leach	
890-2965-7	BH03	Soluble	Solid	DI Leach	
890-2965-8	BH03	Soluble	Solid	DI Leach	
890-2965-9	BH04	Soluble	Solid	DI Leach	
890-2965-10	BH04	Soluble	Solid	DI Leach	
MB 880-34663/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-34663/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-34663/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2965-5 MS	BH02	Soluble	Solid	DI Leach	
890-2965-5 MSD	BH02	Soluble	Solid	DI Leach	

Analysis Batch: 34948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2965-1	BH01	Soluble	Solid	300.0	34663
890-2965-2	BH01	Soluble	Solid	300.0	34663
890-2965-3	BH02	Soluble	Solid	300.0	34663
890-2965-4	BH02	Soluble	Solid	300.0	34663
890-2965-5	BH02	Soluble	Solid	300.0	34663
890-2965-6	BH02	Soluble	Solid	300.0	34663
890-2965-7	BH03	Soluble	Solid	300.0	34663
890-2965-8	BH03	Soluble	Solid	300.0	34663
890-2965-9	BH04	Soluble	Solid	300.0	34663
890-2965-10	BH04	Soluble	Solid	300.0	34663
MB 880-34663/1-A	Method Blank	Soluble	Solid	300.0	34663
LCS 880-34663/2-A	Lab Control Sample	Soluble	Solid	300.0	34663
LCSD 880-34663/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	34663
890-2965-5 MS	BH02	Soluble	Solid	300.0	34663
890-2965-5 MSD	BH02	Soluble	Solid	300.0	34663

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Job ID: 890-2965-1 SDG: Rural Eddy NM

Client Sample ID: BH01

Project/Site: UCBH WW 3

Client: Ensolum

Date Collected: 09/14/22 10:00 Date Received: 09/14/22 16:34

Lab Sample ID: 890-2965-1

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	35199	09/22/22 15:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35329	09/24/22 16:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35433	09/26/22 15:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			34867	09/19/22 15:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	34681	09/16/22 13:56	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34714	09/18/22 21:34	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	34663	09/16/22 10:37	СН	EET MID
Soluble	Analysis	300.0		1			34948	09/20/22 22:56	CH	EET MID

Client Sample ID: BH01 Lab Sample ID: 890-2965-2 Date Collected: 09/14/22 10:10

Date Received: 09/14/22 16:34

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	35199	09/22/22 15:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35329	09/24/22 16:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35433	09/26/22 15:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			34867	09/19/22 15:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	34681	09/16/22 13:56	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34714	09/18/22 22:36	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	34663	09/16/22 10:37	СН	EET MID
Soluble	Analysis	300.0		1			34948	09/20/22 23:01	CH	EET MID

Client Sample ID: BH02 Lab Sample ID: 890-2965-3 **Matrix: Solid**

Date Collected: 09/14/22 10:20 Date Received: 09/14/22 16:34

_	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	35199	09/22/22 15:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35329	09/24/22 16:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35433	09/26/22 15:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			34867	09/19/22 15:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	34681	09/16/22 13:56	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34714	09/18/22 22:56	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	34663	09/16/22 10:37	CH	EET MID
Soluble	Analysis	300.0		1			34948	09/20/22 23:06	CH	EET MID

Client Sample ID: BH02 Lab Sample ID: 890-2965-4 Date Collected: 09/14/22 10:30 Matrix: Solid

Date Received: 09/14/22 16:34

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	35199	09/22/22 15:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35329	09/24/22 17:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35433	09/26/22 15:58	SM	EET MID

Job ID: 890-2965-1 SDG: Rural Eddy NM

Client Sample ID: BH02

Project/Site: UCBH WW 3

Client: Ensolum

Lab Sample ID: 890-2965-4

Date Collected: 09/14/22 10:30 Date Received: 09/14/22 16:34

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			34867	09/19/22 15:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	34681	09/16/22 13:56	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34714	09/18/22 23:16	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	34663	09/16/22 10:37	CH	EET MID
Soluble	Analysis	300.0		5			34948	09/20/22 23:11	CH	EET MID

Lab Sample ID: 890-2965-5

Client Sample ID: BH02 Date Collected: 09/14/22 10:40 **Matrix: Solid**

Date Received: 09/14/22 16:34

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	35199	09/22/22 15:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35329	09/24/22 17:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35433	09/26/22 15:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			34867	09/19/22 15:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34681	09/16/22 13:56	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34714	09/18/22 23:36	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	34663	09/16/22 10:37	CH	EET MID
Soluble	Analysis	300.0		5			34948	09/20/22 23:15	CH	EET MID

Client Sample ID: BH02 Lab Sample ID: 890-2965-6 **Matrix: Solid**

Date Collected: 09/14/22 10:50 Date Received: 09/14/22 16:34

	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	35199	09/22/22 15:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35329	09/24/22 17:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35433	09/26/22 15:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			34867	09/19/22 15:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34681	09/16/22 13:56	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34714	09/18/22 23:56	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	34663	09/16/22 10:37	СН	EET MID
Soluble	Analysis	300.0		1			34948	09/20/22 23:30	CH	EET MID

Client Sample ID: BH03 Lab Sample ID: 890-2965-7 Date Collected: 09/14/22 11:00 Matrix: Solid

Date Received: 09/14/22 16:34

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	35199	09/22/22 15:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35329	09/24/22 18:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35433	09/26/22 15:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			34867	09/19/22 15:34	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.03 g 1 uL	10 mL 1 uL	34681 34714	09/16/22 13:56 09/19/22 00:16	DM SM	EET MID EET MID

Client: Ensolum
Project/Site: UCBH WW 3

Lab Sample ID: 890-2965-7

Matrix: Solid

SDG: Rural Eddy NM

Client Sample ID: BH03
Date Collected: 09/14/22 11:00
Date Received: 09/14/22 16:34

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	34663	09/16/22 10:37	CH	EET MID
Soluble	Analysis	300.0		1			34948	09/20/22 23:35	CH	EET MID

Client Sample ID: BH03 Lab Sample ID: 890-2965-8

Date Collected: 09/14/22 11:10 Matrix: Solid
Date Received: 09/14/22 16:34

	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	35199	09/22/22 15:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35329	09/24/22 18:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35433	09/26/22 15:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			34867	09/19/22 15:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	34681	09/16/22 13:56	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34714	09/19/22 00:36	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	34663	09/16/22 10:37	СН	EET MID
Soluble	Analysis	300.0		1			34948	09/20/22 23:49	CH	EET MID

Client Sample ID: BH04 Lab Sample ID: 890-2965-9

	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	35199	09/22/22 15:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35329	09/24/22 18:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35433	09/26/22 15:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			34867	09/19/22 15:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	34681	09/16/22 13:56	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34714	09/19/22 00:56	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	34663	09/16/22 10:37	CH	EET MID
Soluble	Analysis	300.0		5			34948	09/20/22 23:54	CH	EET MID

Client Sample ID: BH04

Date Collected: 09/14/22 11:30

Lab Sample ID: 890-2965-10

Matrix: Solid

Date Received: 09/14/22 16:34

	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	35199	09/22/22 15:49	MNR	EET MIC
Total/NA	Analysis	8021B		1	5 mL	5 mL	35329	09/24/22 19:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35433	09/26/22 15:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			34867	09/19/22 15:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	34681	09/16/22 13:56	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34714	09/19/22 01:16	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	34663	09/16/22 10:37	СН	EET MID
Soluble	Analysis	300.0		1			34948	09/20/22 23:59	CH	EET MID

Lab Chronicle

Client: Ensolum

Project/Site: UCBH WW 3

Laboratory References:

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

Job ID: 890-2965-1 SDG: Rural Eddy NM

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-2965-1
Project/Site: UCBH WW 3 SDG: Rural Eddy NM

Laboratory: Eurofins Midland

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

ıthority		ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-22-24	06-30-23
The following analyte:	s are included in this rend	ort but the laboratory is r	not certified by the governing authority.	This list may include analytes for y
the agency does not o	•	ore, but the laboratory is i	lot certified by the governing authority.	This list may include analytes for v
,	•	Matrix	Analyte	This list may include analytes for v
the agency does not o	offer certification.	•	, , ,	This list may illoude allarytes for v

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Method Summary

Client: Ensolum

Project/Site: UCBH WW 3

Job ID: 890-2965-1

SDG: Rural Eddy NM

atory	
ID	
ID	
ID	

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
3015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
3015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
800.0	Anions, Ion Chromatography	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
015NM Prep	Microextraction	SW846	EET MID
Ol Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum

Project/Site: UCBH WW 3

Job ID: 890-2965-1

SDG: Rural Eddy NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2965-1	BH01	Solid	09/14/22 10:00	09/14/22 16:34	0.5'
890-2965-2	BH01	Solid	09/14/22 10:10	09/14/22 16:34	4'
890-2965-3	BH02	Solid	09/14/22 10:20	09/14/22 16:34	0.5'
890-2965-4	BH02	Solid	09/14/22 10:30	09/14/22 16:34	2'
890-2965-5	BH02	Solid	09/14/22 10:40	09/14/22 16:34	6'
890-2965-6	BH02	Solid	09/14/22 10:50	09/14/22 16:34	8'
890-2965-7	BH03	Solid	09/14/22 11:00	09/14/22 16:34	0.5'
890-2965-8	BH03	Solid	09/14/22 11:10	09/14/22 16:34	1'
890-2965-9	BH04	Solid	09/14/22 11:20	09/14/22 16:34	0.5'
890-2965-10	BH04	Solid	09/14/22 11:30	09/14/22 16:34	4'

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

ce: Signature of this document and relinquishment of samples

hed by: (Signature)

Received by: (Signature)

2011/18

Date/Time

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

avrsed Date 08/25/2020 Rev 2020 2

Total 200.7 / 6010

200.8 / 6020:

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 Ti Sn U V Zn

Hg: 1631 / 245.1 / 7470 / 7471

divises a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and condition

TCLP / SPLP 6010: BRCRA Sh As Ba Be Cd Cr Co Cu Ph Mn Mo Ni Se Ag Ti U

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11:30 11:20

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10:50 10:40 10:30 10:20 10:10 10:00

9.14.22

11:00

Grab/

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BH01

9.14.22

9.14.22

Sampled

Sampled

Time

Depth

Comp Grab/

Cont **

TPH (8015)

BTEX (8021

890-2965 Chain of Custody

9.14.22

0.5

Grab/

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Grab/

Grab/

😲 eurofins

Chain of Custody

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

Work Order No:
www.xenco.com Page of f
Work Order Comments
Program: UST/PST PRP Brownfields RRC Superfund
State of Project:
Reporting: Level II DLevel III DPST/UST TRRP Level IV
Deliverables: EDD ☐ ADaPT ☐ Other:

Page 28 of 30

NaOH+Ascorbic Acid: SAPC Zn Acetate+NaOH: Zn

Sample Comments

nAB1702454101

Incident ID

Na₂S₂O₃: NaSO₃

NaHSO₄: NABIS

SAMPLE RECEIPT

Temp Blank: (es) No

mples Received Intact:

imple Custody Seals:

Yes No Yes No

Correction Factor:

Thermometer ID:

CAT TOU Yes No

Parameters

Yes No Wet Ice:

N/A Temperature Reading:

CHLORIDES (EPA: 300.0)

Corrected Temperature:

Sample Identification

Sampler's Name:

roject Location:

Rural Eddy, NM Gilbert Moreno 9030007583

> Due Date: Routine

5 Day TAT Rush

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

H2SO4: H2 HCL: HC

Cool: Cool

HNO; HN MeOH: Me DI Water: H₂O

None: NO

Preservative Codes

H3PO4: HP

roject Number:

03A1987009

UCBH WW 3

Turn Around

Address:

3122 National Parks HWY

Address:

City, State ZIP:

Carlsbad, NM 88220 5315 Buena Vista Dr. Bill to: (If different)

Jim Raley

Company Name:

WPX

Ensolum

Joseph Hernandez

ity, State ZIP:

281-702-2329 Carlsbad, NM 88220

Email: | hernandez@Ensolum.com. | jim_raley@dvn_com

ANALYSIS REQUEST

9/26/2022

9/30/2022 (Rev. 1)

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2965-1

SDG Number: Rural Eddy NM

Login Number: 2965 List Source: Eurofins Carlsbad

List Number: 1

Creator: Stutzman, Amanda

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or 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	

c c o o o o o

<6mm (1/4").

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-2965-1 SDG Number: Rural Eddy NM

Login Number: 2965 **List Source: Eurofins Midland** List Creation: 09/16/22 11:00 AM List Number: 2

Creator: Rodriguez, Leticia

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

<6mm (1/4").

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2966-1

Laboratory Sample Delivery Group: Rural Eddy NM

Client Project/Site: UCBH WW 3

For:

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Devon Team

MAMER

Authorized for release by: 9/26/2022 3:34:06 PM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

132)704-544(

Review your project results through EO L.

Have a Question?

Ask
The

Visit us at:

www.eurofinsus.com/Env

Released to Imaging: 10/17/2028 2:29:20 PM

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Ensolum
Project/Site: UCBH WW 3
Laboratory Job ID: 890-2966-1
SDG: Rural Eddy NM

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Definitions/Glossary

Job ID: 890-2966-1 Client: Ensolum Project/Site: UCBH WW 3 SDG: Rural Eddy NM

Qualifiers

GC VOA

Qualifier **Qualifier Description** F1 MS and/or MSD recovery exceeds control limits. F2 MS/MSD RPD exceeds control limits

S1+ Surrogate recovery exceeds control limits, high biased.

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

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

Glossary

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

MDA MDC

DLC EDL

LOD

LOQ

MCL

Minimum Detectable Activity (Radiochemistry) Minimum Detectable Concentration (Radiochemistry) Method Detection Limit

MDL 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)

Decision Level Concentration (Radiochemistry)

EPA recommended "Maximum Contaminant Level"

Estimated Detection Limit (Dioxin)

Limit of Quantitation (DoD/DOE)

Limit of Detection (DoD/DOE)

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

Presumptive **PRES**

QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Project/Site: UCBH WW 3

Job ID: 890-2966-1

SDG: Rural Eddy NM

Job ID: 890-2966-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2966-1

Receipt

The samples were received on 9/14/2022 4:34 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.8°C

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (890-2953-A-61-E MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-35198 and analytical batch 880-35227 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.

GC Semi VOA

Method 8015MOD NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-34681 and analytical batch 880-34714 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

HPLC/IC

Method 300 ORGFM 28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-34668 and analytical batch 880-34975 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: 890-2966-1

Client Sample Results

Client: Ensolum Job ID: 890-2966-1
Project/Site: UCBH WW 3 SDG: Rural Eddy NM

Client Sample ID: BH05

Date Collected: 09/14/22 11:40 Date Received: 09/14/22 16:34

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/22/22 15:35	09/24/22 02:59	1
Toluene	< 0.00199	U	0.00199		mg/Kg		09/22/22 15:35	09/24/22 02:59	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		09/22/22 15:35	09/24/22 02:59	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/22/22 15:35	09/24/22 02:59	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		09/22/22 15:35	09/24/22 02:59	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/22/22 15:35	09/24/22 02:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				09/22/22 15:35	09/24/22 02:59	1
1,4-Difluorobenzene (Surr)	87		70 - 130				09/22/22 15:35	09/24/22 02:59	1
Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/26/22 16:09	1
Analyte	Result	Qualifier	RL	MDI	Unit	D			
			KL	MDL	UIIIL	ບ	Prepared	Analyzed	Dil Fac
Total TPH	<49.9		49.9	WIDE	mg/Kg	— -	Prepared	Analyzed 09/19/22 15:34	
- -		U		MIDL			Prepared		Dil Fac
Total TPH Method: 8015B NM - Diesel Ran Analyte	ge Organics (D	U					Prepared		1
Method: 8015B NM - Diesel Ran	ge Organics (D	RO) (GC) Qualifier	49.9		mg/Kg		<u> </u>	09/19/22 15:34	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (D	RO) (GC) Qualifier	49.9		mg/Kg		Prepared	09/19/22 15:34 Analyzed	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	ge Organics (D Result <49.9	U RO) (GC) Qualifier U	49.9 RL 49.9		mg/Kg Unit mg/Kg		Prepared 09/16/22 13:56	09/19/22 15:34 Analyzed 09/19/22 01:56	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (D Result <49.9	U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 09/16/22 13:56 09/16/22 13:56	09/19/22 15:34 Analyzed 09/19/22 01:56 09/19/22 01:56	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	ge Organics (D Result <49.9 <49.9	U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 09/16/22 13:56 09/16/22 13:56 09/16/22 13:56	09/19/22 15:34 Analyzed 09/19/22 01:56 09/19/22 01:56	Dil Face 1 1 1 Dil Face
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	ge Organics (D Result <49.9 <49.9 <49.9 %Recovery	U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9 49.9 Limits		mg/Kg Unit mg/Kg mg/Kg		Prepared 09/16/22 13:56 09/16/22 13:56 09/16/22 13:56 Prepared	Analyzed 09/19/22 01:56 09/19/22 01:56 09/19/22 01:56 Analyzed	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	ge Organics (D Result <49.9 <49.9 <49.9 **Recovery 81 85	U RO) (GC) Qualifier U U Qualifier	49.9 RL 49.9 49.9 49.9 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg		Prepared 09/16/22 13:56 09/16/22 13:56 09/16/22 13:56 Prepared 09/16/22 13:56	09/19/22 15:34 Analyzed 09/19/22 01:56 09/19/22 01:56 Analyzed 09/19/22 01:56	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	ge Organics (D Result <49.9 <49.9 <49.9 **Recovery 81 85 **comatography -	U RO) (GC) Qualifier U U Qualifier	49.9 RL 49.9 49.9 49.9 Limits 70 - 130	MDL	mg/Kg Unit mg/Kg mg/Kg		Prepared 09/16/22 13:56 09/16/22 13:56 09/16/22 13:56 Prepared 09/16/22 13:56	09/19/22 15:34 Analyzed 09/19/22 01:56 09/19/22 01:56 Analyzed 09/19/22 01:56	

Client Sample ID: BH05

Date Collected: 09/14/22 11:50 Date Received: 09/14/22 16:34

Date Received. 05/14/

Sample Depth: 1'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/22/22 15:35	09/24/22 03:19	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/22/22 15:35	09/24/22 03:19	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/22/22 15:35	09/24/22 03:19	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/22/22 15:35	09/24/22 03:19	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/22/22 15:35	09/24/22 03:19	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/22/22 15:35	09/24/22 03:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				09/22/22 15:35	09/24/22 03:19	

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Lab Sample ID: 890-2966-2

Matrix: Solid

2

6

<u>გ</u>

10

12

4 4

Matrix: Solid

Client: Ensolum

Job ID: 890-2966-1

Project/Site: UCBH WW 3

SDG: Rural Eddy NM

Client Sample ID: BH05

Lab Sample ID: 890-2966-2

Date Collected: 09/14/22 11:50
Date Received: 09/14/22 16:34

Sample Depth: 1'

Method: 8021B - Volatile Orga	anic Compounds ((GC) (Conti	nued)			
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	86		70 - 130	09/22/22 15:35	09/24/22 03:19	1
Method: Total BTEX - Total B	TEX Calculation					

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			09/26/22 16:09	1
Method: 8015 NM - Diesel Range (Organics (DR	O) (GC)						

wethod: 8015 NW - Diesel Range O	rganics (DRO) (GC)							
Analyte	Result Qualifier	RL	MDL U	Jnit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 U	50.0	m	ng/Kg			09/19/22 15:34	1

Method: 8015B NM - Diesel Rang	je Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/16/22 13:56	09/19/22 02:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/16/22 13:56	09/19/22 02:16	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/16/22 13:56	09/19/22 02:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

	,,			,	
1-Chlorooctane	82	70 - 130	09/16/22 13:5	6 09/19/22 02:16	
o-Terphenyl	85	70 - 130	09/16/22 13:5	6 09/19/22 02:16	1
Method: 300.0 - Anions, Ion Chron	natography - Soluble				

Method: 300.0 - Anions, Ion Chrom	natography - So	oluble							
Analyte	Result C	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.1		4.99		mg/Kg			09/21/22 00:05	1

Client Sample ID: BH06

Date Collected: 09/14/22 12:00

Lab Sample ID: 890-2966-3

Matrix: Solid

Date Collected: 09/14/22 12:00 Date Received: 09/14/22 16:34

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/22/22 15:35	09/24/22 03:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/22/22 15:35	09/24/22 03:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/22/22 15:35	09/24/22 03:40	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/22/22 15:35	09/24/22 03:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/22/22 15:35	09/24/22 03:40	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/22/22 15:35	09/24/22 03:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				09/22/22 15:35	09/24/22 03:40	1
1,4-Difluorobenzene (Surr)	78		70 - 130				09/22/22 15:35	09/24/22 03:40	1
Method: Total BTEX - Total B1	EX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			09/26/22 16:09	1

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Analyzed

09/19/22 15:34

RL

50.0

MDL Unit

mg/Kg

Prepared

Result Qualifier

<50.0 U

Analyte

Total TPH

3

5

7

9

11

13

14

Dil Fac

Client: Ensolum Job ID: 890-2966-1 Project/Site: UCBH WW 3 SDG: Rural Eddy NM

Sample Depth: 0.5'

Client Sample ID: BH06	Lab Sample ID: 890-2966-3
Date Collected: 09/14/22 12:00	Matrix: Solid
Date Received: 09/14/22 16:34	

Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/16/22 13:56	09/19/22 02:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/16/22 13:56	09/19/22 02:36	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/16/22 13:56	09/19/22 02:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130				09/16/22 13:56	09/19/22 02:36	1
o-Terphenyl	85		70 - 130				09/16/22 13:56	09/19/22 02:36	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24.3		5.00		mg/Kg			09/21/22 00:10	1

Lab Sample ID: 890-2966-4 **Client Sample ID: BH06** Date Collected: 09/14/22 12:10 Matrix: Solid

Date Received: 09/14/22 16:34

Sample Depth: 1'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/22/22 15:35	09/24/22 04:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/22/22 15:35	09/24/22 04:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/22/22 15:35	09/24/22 04:00	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/22/22 15:35	09/24/22 04:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/22/22 15:35	09/24/22 04:00	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/22/22 15:35	09/24/22 04:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130				09/22/22 15:35	09/24/22 04:00	1
1,4-Difluorobenzene (Surr)	89		70 - 130				09/22/22 15:35	09/24/22 04:00	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/26/22 16:09	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Method: 8015 NM - Diesel Range Analyte	•	O) (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	•	Qualifier	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 09/19/22 15:34	Dil Fac
Analyte	Result <50.0	Qualifier U		MDL		<u>D</u>	Prepared		
Analyte Total TPH	Result <50.0	Qualifier U		MDL	mg/Kg	D_	Prepared Prepared		1
Analyte Total TPH Method: 8015B NM - Diesel Rang	Result <50.0	Qualifier U RO) (GC) Qualifier	50.0		mg/Kg			09/19/22 15:34	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 e Organics (D Result	Qualifier U RO) (GC) Qualifier U	50.0		mg/Kg		Prepared	09/19/22 15:34 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	Result <50.0 Result <50.0 Result <50.0	Qualifier U RO) (GC) Qualifier U	50.0 RL 50.0		mg/Kg Unit mg/Kg		Prepared 09/16/22 13:56	09/19/22 15:34 Analyzed 09/19/22 02:56	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0	Qualifier U RO) (GC) Qualifier U	50.0 RL 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 09/16/22 13:56 09/16/22 13:56	09/19/22 15:34 Analyzed 09/19/22 02:56 09/19/22 02:56	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0	Qualifier U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 09/16/22 13:56 09/16/22 13:56 09/16/22 13:56	09/19/22 15:34 Analyzed 09/19/22 02:56 09/19/22 02:56	Dil Fac

Job ID: 890-2966-1

Client: Ensolum Project/Site: UCBH WW 3 SDG: Rural Eddy NM

Client Sample ID: BH06 Lab Sample ID: 890-2966-4

Date Collected: 09/14/22 12:10 Matrix: Solid Date Received: 09/14/22 16:34

Sample Depth: 1'

Method: 300.0 - Anions, Ion Chrom	natography - S	Soluble							
Analyte	Result (Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26.8		5.01		mg/Kg			09/21/22 00:15	1

Client Sample ID: BH07 Lab Sample ID: 890-2966-5 Matrix: Solid

Date Collected: 09/14/22 12:20 Date Received: 09/14/22 16:34

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00198	U	0.00198		mg/Kg		09/22/22 15:35	09/24/22 04:21	
Toluene	<0.00198	U	0.00198		mg/Kg		09/22/22 15:35	09/24/22 04:21	
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		09/22/22 15:35	09/24/22 04:21	
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		09/22/22 15:35	09/24/22 04:21	
o-Xylene	<0.00198	U	0.00198		mg/Kg		09/22/22 15:35	09/24/22 04:21	
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		09/22/22 15:35	09/24/22 04:21	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	115		70 - 130				09/22/22 15:35	09/24/22 04:21	
1,4-Difluorobenzene (Surr)	85		70 - 130				09/22/22 15:35	09/24/22 04:21	
Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00396	U	0.00396		mg/Kg			09/26/22 16:09	
Mothod: 8015 NM - Diesel Pange	Organics (DR	o) (GC)							
Method: 8015 NM - Diesel Range Analyte Total TPH	•	Qualifier	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 09/19/22 15:34	
Analyte Total TPH		Qualifier U		MDL		<u>D</u>	Prepared		Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang	Result <50.0	Qualifier U				<u>D</u>	Prepared Prepared		
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	Result <50.0	Qualifier U RO) (GC) Qualifier	50.0		mg/Kg		<u> </u>	09/19/22 15:34	
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 Ge Organics (D Result	Qualifier U RO) (GC) Qualifier U	50.0		mg/Kg		Prepared	09/19/22 15:34 Analyzed	Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)		Qualifier U RO) (GC) Qualifier U	50.0 RL 50.0		mg/Kg Unit mg/Kg		Prepared 09/16/22 13:56	09/19/22 15:34 Analyzed 09/19/22 03:16	Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 09/16/22 13:56 09/16/22 13:56	09/19/22 15:34 Analyzed 09/19/22 03:16 09/19/22 03:16	Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result	Qualifier U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 09/16/22 13:56 09/16/22 13:56 09/16/22 13:56	09/19/22 15:34 Analyzed 09/19/22 03:16 09/19/22 03:16 09/19/22 03:16	Dil Fa
Analyte	Result	Qualifier U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0 50.0 Limits		mg/Kg Unit mg/Kg mg/Kg		Prepared 09/16/22 13:56 09/16/22 13:56 09/16/22 13:56 Prepared	09/19/22 15:34 Analyzed 09/19/22 03:16 09/19/22 03:16 09/19/22 03:16 Analyzed	Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U RO) (GC) Qualifier U U Qualifier	50.0 RL 50.0 50.0 50.0 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg		Prepared 09/16/22 13:56 09/16/22 13:56 09/16/22 13:56 Prepared 09/16/22 13:56	09/19/22 15:34 Analyzed 09/19/22 03:16 09/19/22 03:16 Analyzed 09/19/22 03:16	Dil Fa

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09/21/22 13:39

4.96

mg/Kg

117

Chloride

Matrix: Solid

Lab Sample ID: 890-2966-6

Client: Ensolum Job ID: 890-2966-1 Project/Site: UCBH WW 3 SDG: Rural Eddy NM

Client Sample ID: BH07

Date Collected: 09/14/22 12:30 Date Received: 09/14/22 16:34

Sample Depth: 1'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/22/22 15:35	09/24/22 04:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/22/22 15:35	09/24/22 04:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/22/22 15:35	09/24/22 04:41	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/22/22 15:35	09/24/22 04:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/22/22 15:35	09/24/22 04:41	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/22/22 15:35	09/24/22 04:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				09/22/22 15:35	09/24/22 04:41	1
1,4-Difluorobenzene (Surr)	86		70 - 130				09/22/22 15:35	09/24/22 04:41	1
- Method: Total BTEX - Total BTEX	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			09/26/22 16:09	1
Method: 8015 NM - Diesel Range Analyte	Result	Qualifier	RL _	MDL		<u>D</u>	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/19/22 15:34	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Ouglifier			Unit	_			
	Nesuit	Qualifier	RL	MDL	Onne	D	Prepared	Analyzed	Dil Fac
5 5	<50.0		50.0	MDL	mg/Kg	— <u> </u>	09/16/22 13:56	Analyzed 09/19/22 03:36	
(GRO)-C6-C10 Diesel Range Organics (Over		U		MDL		<u>D</u>	<u>.</u>		1
5 5	<50.0	U	50.0	MDL	mg/Kg	Б	09/16/22 13:56	09/19/22 03:36	1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)	<50.0 <50.0	U U	50.0	MDL	mg/Kg	Б	09/16/22 13:56 09/16/22 13:56	09/19/22 03:36 09/19/22 03:36	1 1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate	<50.0 <50.0 <50.0	U U	50.0 50.0 50.0	MDL	mg/Kg	Б	09/16/22 13:56 09/16/22 13:56 09/16/22 13:56	09/19/22 03:36 09/19/22 03:36 09/19/22 03:36	1 1
C10-C28)	<50.0 <50.0 <50.0 %Recovery	U U	50.0 50.0 50.0 <i>Limits</i>	MDL	mg/Kg		09/16/22 13:56 09/16/22 13:56 09/16/22 13:56 Prepared	09/19/22 03:36 09/19/22 03:36 09/19/22 03:36 Analyzed	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<50.0 <50.0 <50.0 %Recovery 94 101	U U U Qualifier	50.0 50.0 50.0 Limits 70 - 130	MDL	mg/Kg	บ	09/16/22 13:56 09/16/22 13:56 09/16/22 13:56 Prepared 09/16/22 13:56	09/19/22 03:36 09/19/22 03:36 09/19/22 03:36 Analyzed 09/19/22 03:36	1 1 1 Dil Fac
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<50.0 <50.0 <50.0 <50.0 %Recovery 94 101 pmatography -	U U U Qualifier	50.0 50.0 50.0 Limits 70 - 130	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	09/16/22 13:56 09/16/22 13:56 09/16/22 13:56 Prepared 09/16/22 13:56	09/19/22 03:36 09/19/22 03:36 09/19/22 03:36 Analyzed 09/19/22 03:36	1 1 1 1 1 Dil Fac

Client Sample ID: BH08

Date Collected: 09/14/22 12:40 Date Received: 09/14/22 16:34

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/22/22 15:35	09/24/22 05:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/22/22 15:35	09/24/22 05:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/22/22 15:35	09/24/22 05:02	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/22/22 15:35	09/24/22 05:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/22/22 15:35	09/24/22 05:02	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/22/22 15:35	09/24/22 05:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				09/22/22 15:35	09/24/22 05:02	

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Lab Sample ID: 890-2966-7

Matrix: Solid

Client: Ensolum Job ID: 890-2966-1
Project/Site: UCBH WW 3 SDG: Rural Eddy NM

Client Sample ID: BH08

Lab Sample ID: 890-2966-7

Date Collected: 09/14/22 12:40

Matrix: Solid

Date Collected: 09/14/22 12:40
Date Received: 09/14/22 16:34

Sample Depth: 0.5'

Method: 8021B - Volatile Organic Compound	s (GC) (Continued)
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Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	91	70 _ 130	09/22/22 15:35	09/24/22 05:02	1

Method: To	tal BTFX - Tot	tal BTEX Calculation	n

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00399	U	0.00399	mg/Kg		_	09/26/22 16:09	1

ı		
ı	Method: 8015 NM - Diesel Range Organics (DRO)	(CC)
ı	Method. 6015 NW - Dieser Range Organics (DRO)	(GC)

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 U	50.0	mg/Kg			09/19/22 15:34	1

Method: 8015B NM - Diese	I Range Organics (D	RO) (GC)
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Amaluta	Desult	Ouglifien	DI.	MDL	Unit		Duamanad	Amalumad	Dil Faa
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/16/22 13:56	09/19/22 03:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/16/22 13:56	09/19/22 03:56	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/16/22 13:56	09/19/22 03:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

- · · · 3 · · ·			
1-Chlorooctane	82	70 - 130	09/16/22 13:56
o-Terphenyl	84	70 - 130	09/16/22 13:56

Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	10.5	4.98		ma/Ka			09/21/22 10:53		

Client Sample ID: BH08

Date Collected: 09/14/22 12:50

Lab Sample ID: 890-2966-8

Matrix: Solid

Date Collected: 09/14/22 12:50 Date Received: 09/14/22 16:34

Sample Depth: 1'

Method: 8021B	Valatile Over	!-	
- Memoo: 60216	- voiatile Uro	anic Compo	umas แนะเ

wethod: 8021B - volatile Orga	nic Compounds ((GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/22/22 15:35	09/24/22 05:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/22/22 15:35	09/24/22 05:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/22/22 15:35	09/24/22 05:22	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/22/22 15:35	09/24/22 05:22	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/22/22 15:35	09/24/22 05:22	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/22/22 15:35	09/24/22 05:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				09/22/22 15:35	09/24/22 05:22	1
1,4-Difluorobenzene (Surr)	74		70 - 130				09/22/22 15:35	09/24/22 05:22	1

Mothod:	Total RT	EY - Tota	I RTEY	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit)	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00401	U	0.00401		ma/Ka			09/26/22 16:09	1

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/19/22 15:34	1

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09/19/22 03:56 09/19/22 03:56

Client Sample Results

Client: Ensolum

Project/Site: UCBH WW 3

Job ID: 890-2966-1

SDG: Rural Eddy NM

Client Sample ID: BH08

Lab Sample ID: 890-2966-8

Matrix: Solid

Date Collected: 09/14/22 12:50 Date Received: 09/14/22 16:34

Sample Depth: 1'

Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/16/22 13:56	09/19/22 04:16	,
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/16/22 13:56	09/19/22 04:16	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/16/22 13:56	09/19/22 04:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130				09/16/22 13:56	09/19/22 04:16	1
o-Terphenyl	84		70 - 130				09/16/22 13:56	09/19/22 04:16	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.1		5.00		mg/Kg			09/21/22 11:00	1

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14

Surrogate Summary

Client: Ensolum

Job ID: 890-2966-1

Project/Site: UCBH WW 3

SDG: Rural Eddy NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2953-A-61-E MS	Matrix Spike	134 S1+	88	
890-2953-A-61-F MSD	Matrix Spike Duplicate	122	107	
890-2966-1	BH05	114	87	
890-2966-2	BH05	113	86	
890-2966-3	BH06	104	78	
890-2966-4	BH06	118	89	
890-2966-5	BH07	115	85	
890-2966-6	BH07	113	86	
890-2966-7	BH08	119	91	
890-2966-8	BH08	109	74	
LCS 880-35198/1-A	Lab Control Sample	120	109	
LCSD 880-35198/2-A	Lab Control Sample Dup	117	107	
MB 880-35106/5-A	Method Blank	100	82	
MB 880-35198/5-A	Method Blank	98	78	
Surrogate Legend				
BFB = 4-Bromofluorober	nzene (Surr)			
DFBZ = 1,4-Difluorobenz	zene (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)	
890-2965-A-1-C MS	Matrix Spike	81	76	
890-2965-A-1-D MSD	Matrix Spike Duplicate	86	80	
890-2966-1	BH05	81	85	
890-2966-2	BH05	82	85	
890-2966-3	BH06	81	85	
890-2966-4	BH06	81	83	
890-2966-5	BH07	94	99	
890-2966-6	BH07	94	101	
890-2966-7	BH08	82	84	
890-2966-8	BH08	80	84	
LCS 880-34681/2-A	Lab Control Sample	85	92	
LCSD 880-34681/3-A	Lab Control Sample Dup	86	96	
MB 880-34681/1-A	Method Blank	116	119	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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Job ID: 890-2966-1 Client: Ensolum Project/Site: UCBH WW 3 SDG: Rural Eddy NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-35106/5-A

Matrix: Solid

Analysis Batch: 35227

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 35106

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/21/22 15:42	09/23/22 10:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/21/22 15:42	09/23/22 10:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/21/22 15:42	09/23/22 10:54	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/21/22 15:42	09/23/22 10:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/21/22 15:42	09/23/22 10:54	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/21/22 15:42	09/23/22 10:54	1

MB MB

MR MR

<0.00200 U

<0.00200 U

<0.00200 U

<0.00400 U

<0.00200 U

<0.00400 U

Result Qualifier

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	09/21/22 15:42	09/23/22 10:54	1
1,4-Difluorobenzene (Surr)	82		70 - 130	09/21/22 15:42	09/23/22 10:54	1

Lab Sample ID: MB 880-35198/5-A

Lab Sample ID: LCS 880-35198/1-A

Matrix: Solid

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

Xylenes, Total

Matrix: Solid

Analysis Batch: 35227

m-Xylene & p-Xylene

Analysis Batch: 35227

Client Sample ID: Method Blank

Analyzed

09/23/22 21:29

09/23/22 21:29

09/23/22 21:29

09/23/22 21:29

Prep Type: Total/NA

Prep Batch: 35198

Dil Fac

0.00200 mg/Kg 09/22/22 15:35 09/23/22 21:29 0.00200 09/22/22 15:35 09/23/22 21:29 mg/Kg 09/22/22 15:35 0.00400 mg/Kg 09/23/22 21:29 0.00200 mg/Kg 09/22/22 15:35 09/23/22 21:29

Prepared

09/22/22 15:35

09/22/22 15:35

Unit

mg/Kg

mg/Kg

MB MB %Recovery Qualifier Limits Prepared Dil Fac Surrogate Analyzed

0.00400

RL

0.00200

98 70 - 130 09/22/22 15:35 4-Bromofluorobenzene (Surr) 70 - 130 09/22/22 15:35 1,4-Difluorobenzene (Surr) 78

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 35198

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.09191 mg/Kg 92 70 - 130 Toluene 0.100 0.08545 mg/Kg 85 70 - 130 Ethylbenzene 0.100 0.09090 mg/Kg 91 70 - 130 m-Xylene & p-Xylene 0.200 0.1922 mg/Kg 96 70 - 130 0.100 o-Xylene 0.1086 mg/Kg 109 70 - 130

LCS LCS

Surrogate	%Recovery Qเ	ıalifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1.4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: LCSD 880-35198/2-A

Matrix: Solid

Analysis Batch: 35227

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

Prep Batch: 35198

LCSD LCSD Spike %Rec **RPD** Analyte Added Result Qualifier %Rec RPD Limit Unit Limits Benzene 0.100 0.08728 mg/Kg 87 70 - 130 5

QC Sample Results

Job ID: 890-2966-1 Client: Ensolum Project/Site: UCBH WW 3 SDG: Rural Eddy NM

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

Lab Sample ID: LCSD 880-35198/2-A

Matrix: Solid Analysis Batch: 35227 **Client Sample ID: Lab Control Sample Dup**

Prep Type: Total/NA Prep Batch: 35198

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.08104		mg/Kg		81	70 - 130	5	35
Ethylbenzene	0.100	0.08609		mg/Kg		86	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.1778		mg/Kg		89	70 - 130	8	35
o-Xylene	0.100	0.1069		mg/Kg		107	70 - 130	2	35

LCSD LCSD

Surrogate	%Recovery Q	ualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: 890-2953-A-61-E MS

Matrix: Solid

Analysis Batch: 35227

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

Prep Batch: 35198

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U F2 F1	0.100	0.03739	F1	mg/Kg		37	70 - 130	
Toluene	<0.00201	U F2 F1	0.100	0.04389	F1	mg/Kg		44	70 - 130	
Ethylbenzene	<0.00201	U F2 F1	0.100	0.05197	F1	mg/Kg		52	70 - 130	
m-Xylene & p-Xylene	<0.00402	U F2 F1	0.201	0.09854	F1	mg/Kg		49	70 - 130	
o-Xylene	<0.00201	U F2 F1	0.100	0.05897	F1	mg/Kg		59	70 - 130	

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130
1,4-Difluorobenzene (Surr)	88		70 - 130

Lab Sample ID: 890-2953-A-61-F MSD

Matrix: Solid

Analysis Batch: 35227

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 35198

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U F2 F1	0.0990	0.06926	F2	mg/Kg		70	70 - 130	60	35
Toluene	<0.00201	U F2 F1	0.0990	0.06230	F1	mg/Kg		63	70 - 130	35	35
Ethylbenzene	<0.00201	U F2 F1	0.0990	0.06203	F1	mg/Kg		63	70 - 130	18	35
m-Xylene & p-Xylene	<0.00402	U F2 F1	0.198	0.1235	F1	mg/Kg		62	70 - 130	22	35
o-Xylene	<0.00201	U F2 F1	0.0990	0.07774		mg/Kg		79	70 - 130	27	35

MSD MSD

Surrogate	%Recovery	Quaimer	Limits
4-Bromofluorobenzene (Surr)	122		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

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

Lab Sample ID: MB 880-34681/1-A

Matrix: Solid

Analysis Batch: 34714

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

Prep Batch: 34681

Analyte	Result C	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0 L		50.0	mg/Kg		09/16/22 13:56	09/18/22 20:31	1
(GRO)-C6-C10								

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Client: Ensolum Job ID: 890-2966-1 Project/Site: UCBH WW 3 SDG: Rural Eddy NM

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

Lab Sample ID: MB 880-34681/1-A **Matrix: Solid**

Analysis Batch: 34714

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

Prep Batch: 34681

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		09/16/22 13:56	09/18/22 20:31	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/16/22 13:56	09/18/22 20:31	1

MB MB

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130	09/16/22 13:56	09/18/22 20:31	1
o-Terphenyl	119		70 - 130	09/16/22 13:56	09/18/22 20:31	1

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 880-34681/2-A Matrix: Solid Prep Type: Total/NA

Analysis Batch: 34714 Prep Batch: 34681

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	917.5		mg/Kg		92	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	836.1		mg/Kg		84	70 - 130	
C10-C28)								

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	85		70 - 130
o-Terphenyl	92		70 - 130

Lab Sample ID: LCSD 880-34681/3-A

Matrix: Solid

Analysis Batch: 34714

Client Sample ID: Lab	Control Sample Dup)
	Duny Times Tetal/NIA	

Prep Type: Total/NA

Prep Batch: 34681

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	893.4		mg/Kg		89	70 - 130	3	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	813.5		mg/Kg		81	70 - 130	3	20
C10-C28)									

LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 86 70 - 130 o-Terphenyl 96 70 - 130

Lab Sample ID: 890-2965-A-1-C MS

Analysis Batch: 34714

Client Sample ID: Matrix Spike **Matrix: Solid** Prep Type: Total/NA Prep Batch: 34681

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.9	U	996	1291		mg/Kg		126	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.9	U F1	996	664.2	F1	mg/Kg		67	70 - 130	

C10-C28)

	IVIS	IVIS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	81		70 - 130
o-Terphenyl	76		70 - 130

Job ID: 890-2966-1 SDG: Rural Eddy NM

mg/Kg

Project/Site: UCBH WW 3 Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Client Sample ID: Matrix Spike Duplicate

70 - 130

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Lab Sample ID: 890-2965-A-1-D MSD **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 34714 Prep Batch: 34681

717.2

Sample Sample MSD MSD RPD Spike Result Qualifier Analyte Added Result Qualifier %Rec Limits RPD Limit Unit D Gasoline Range Organics <49.9 U 999 1261 mg/Kg 123 70 - 130 2 20 (GRO)-C6-C10

999

C10-C28)

Client: Ensolum

MSD MSD %Recovery Limits Surrogate Qualifier 70 - 130 1-Chlorooctane 86 o-Terphenyl 80 70 - 130

<49.9 U F1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-34663/1-A Client Sample ID: Method Blank

Matrix: Solid Prep Type: Soluble

Analysis Batch: 34948

Diesel Range Organics (Over

MB MB

Result Qualifier MDL Analyte RL Unit D Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 09/20/22 21:53 mg/Kg

Lab Sample ID: LCS 880-34663/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 34948

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits Chloride 250 90 - 110 249.0 mg/Kg 100

Lab Sample ID: LCSD 880-34663/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 34948

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec RPD Limits Limit Chloride 250 250.1 100 90 - 110 mg/Kg 0

Lab Sample ID: 890-2964-A-1-B MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 34948

Sample Sample Spike MS MS %Rec Qualifier Added Qualifier Analyte Result Result %Rec Limits Unit Chloride 250 90 - 110 257 497.5 mg/Kg

Lab Sample ID: 890-2964-A-1-C MSD

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Client Sample ID: Matrix Spike Duplicate Matrix: Solid **Prep Type: Soluble**

Analysis Batch: 34948

Sample Sample Spike MSD MSD %Rec RPD Qualifier Added Result Result Qualifier %Rec Limits RPD Limit Analyte Unit D 250 497.5 Chloride 96 90 - 110 20 257 mg/Kg 0

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

QC Sample Results

Client: Ensolum Job ID: 890-2966-1 Project/Site: UCBH WW 3 SDG: Rural Eddy NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 880-34668/1-A

Matrix: Solid

Analysis Batch: 34975

мв мв

Dil Fac MDL Unit Analyte Result Qualifier RL D Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 09/21/22 09:26

Lab Sample ID: LCS 880-34668/2-A

Matrix: Solid

Analysis Batch: 34975

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 252.2 mg/Kg 101 90 - 110

Lab Sample ID: LCSD 880-34668/3-A

Analysis Batch: 34975

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 252.9 mg/Kg 101 90 - 110

Lab Sample ID: 890-2967-A-3-B MS

Matrix: Solid

Matrix: Solid

Analysis Batch: 34975

Spike MS MS Sample Sample %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 411 F1 250 639.6 90 - 110 mg/Kg

Lab Sample ID: 890-2967-A-3-C MSD

Matrix: Solid

Analysis Batch: 34975

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 411 F1 250 718.2 F1 mg/Kg 123 90 - 110 12 20

QC Association Summary

Client: Ensolum

Project/Site: UCBH WW 3

Job ID: 890-2966-1 SDG: Rural Eddy NM

GC VOA

Prep Batch: 35106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-35106/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 35198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2966-1	BH05	Total/NA	Solid	5035	
890-2966-2	BH05	Total/NA	Solid	5035	
890-2966-3	BH06	Total/NA	Solid	5035	
890-2966-4	BH06	Total/NA	Solid	5035	
890-2966-5	BH07	Total/NA	Solid	5035	
890-2966-6	BH07	Total/NA	Solid	5035	
890-2966-7	BH08	Total/NA	Solid	5035	
890-2966-8	BH08	Total/NA	Solid	5035	
MB 880-35198/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-35198/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-35198/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2953-A-61-E MS	Matrix Spike	Total/NA	Solid	5035	
890-2953-A-61-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 35227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2966-1	BH05	Total/NA	Solid	8021B	35198
890-2966-2	BH05	Total/NA	Solid	8021B	35198
890-2966-3	BH06	Total/NA	Solid	8021B	35198
890-2966-4	BH06	Total/NA	Solid	8021B	35198
890-2966-5	BH07	Total/NA	Solid	8021B	35198
890-2966-6	BH07	Total/NA	Solid	8021B	35198
890-2966-7	BH08	Total/NA	Solid	8021B	35198
890-2966-8	BH08	Total/NA	Solid	8021B	35198
MB 880-35106/5-A	Method Blank	Total/NA	Solid	8021B	35106
MB 880-35198/5-A	Method Blank	Total/NA	Solid	8021B	35198
LCS 880-35198/1-A	Lab Control Sample	Total/NA	Solid	8021B	35198
LCSD 880-35198/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	35198
890-2953-A-61-E MS	Matrix Spike	Total/NA	Solid	8021B	35198
890-2953-A-61-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	35198

Analysis Batch: 35443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2966-1	BH05	Total/NA	Solid	Total BTEX	
890-2966-2	BH05	Total/NA	Solid	Total BTEX	
890-2966-3	BH06	Total/NA	Solid	Total BTEX	
890-2966-4	BH06	Total/NA	Solid	Total BTEX	
890-2966-5	BH07	Total/NA	Solid	Total BTEX	
890-2966-6	BH07	Total/NA	Solid	Total BTEX	
890-2966-7	BH08	Total/NA	Solid	Total BTEX	
890-2966-8	BH08	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 34681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2966-1	BH05	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Ensolum Job ID: 890-2966-1
Project/Site: UCBH WW 3 SDG: Rural Eddy NM

GC Semi VOA (Continued)

Prep Batch: 34681 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2966-2	BH05	Total/NA	Solid	8015NM Prep	
890-2966-3	BH06	Total/NA	Solid	8015NM Prep	
890-2966-4	BH06	Total/NA	Solid	8015NM Prep	
890-2966-5	BH07	Total/NA	Solid	8015NM Prep	
890-2966-6	BH07	Total/NA	Solid	8015NM Prep	
890-2966-7	BH08	Total/NA	Solid	8015NM Prep	
890-2966-8	BH08	Total/NA	Solid	8015NM Prep	
MB 880-34681/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-34681/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-34681/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2965-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2965-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 34714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2966-1	BH05	Total/NA	Solid	8015B NM	34681
890-2966-2	BH05	Total/NA	Solid	8015B NM	34681
890-2966-3	BH06	Total/NA	Solid	8015B NM	34681
890-2966-4	BH06	Total/NA	Solid	8015B NM	34681
890-2966-5	BH07	Total/NA	Solid	8015B NM	34681
890-2966-6	BH07	Total/NA	Solid	8015B NM	34681
890-2966-7	BH08	Total/NA	Solid	8015B NM	34681
890-2966-8	BH08	Total/NA	Solid	8015B NM	34681
MB 880-34681/1-A	Method Blank	Total/NA	Solid	8015B NM	34681
LCS 880-34681/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	34681
LCSD 880-34681/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	34681
890-2965-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	34681
890-2965-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	34681

Analysis Batch: 34868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2966-1	BH05	Total/NA	Solid	8015 NM	
890-2966-2	BH05	Total/NA	Solid	8015 NM	
890-2966-3	BH06	Total/NA	Solid	8015 NM	
890-2966-4	BH06	Total/NA	Solid	8015 NM	
890-2966-5	BH07	Total/NA	Solid	8015 NM	
890-2966-6	BH07	Total/NA	Solid	8015 NM	
890-2966-7	BH08	Total/NA	Solid	8015 NM	
890-2966-8	BH08	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 34663

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-2966-1	BH05	Soluble	Solid	DI Leach	
890-2966-2	BH05	Soluble	Solid	DI Leach	
890-2966-3	BH06	Soluble	Solid	DI Leach	
890-2966-4	BH06	Soluble	Solid	DI Leach	
MB 880-34663/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-34663/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-34663/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Ensolum

Project/Site: UCBH WW 3

Job ID: 890-2966-1 SDG: Rural Eddy NM

HPLC/IC (Continued)

Leach Batch: 34663 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2964-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2964-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 34668

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2966-5	BH07	Soluble	Solid	DI Leach	
890-2966-6	BH07	Soluble	Solid	DI Leach	
890-2966-7	BH08	Soluble	Solid	DI Leach	
890-2966-8	BH08	Soluble	Solid	DI Leach	
MB 880-34668/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-34668/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-34668/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2967-A-3-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2967-A-3-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 34948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2966-1	BH05	Soluble	Solid	300.0	34663
890-2966-2	BH05	Soluble	Solid	300.0	34663
890-2966-3	BH06	Soluble	Solid	300.0	34663
890-2966-4	BH06	Soluble	Solid	300.0	34663
MB 880-34663/1-A	Method Blank	Soluble	Solid	300.0	34663
LCS 880-34663/2-A	Lab Control Sample	Soluble	Solid	300.0	34663
LCSD 880-34663/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	34663
890-2964-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	34663
890-2964-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	34663

Analysis Batch: 34975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2966-5	BH07	Soluble	Solid	300.0	34668
890-2966-6	BH07	Soluble	Solid	300.0	34668
890-2966-7	BH08	Soluble	Solid	300.0	34668
890-2966-8	BH08	Soluble	Solid	300.0	34668
MB 880-34668/1-A	Method Blank	Soluble	Solid	300.0	34668
LCS 880-34668/2-A	Lab Control Sample	Soluble	Solid	300.0	34668
LCSD 880-34668/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	34668
890-2967-A-3-B MS	Matrix Spike	Soluble	Solid	300.0	34668
890-2967-A-3-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	34668

Job ID: 890-2966-1

Client: Ensolum Project/Site: UCBH WW 3 SDG: Rural Eddy NM

Client Sample ID: BH05 Lab Sample ID: 890-2966-1 Date Collected: 09/14/22 11:40

Matrix: Solid Date Received: 09/14/22 16:34

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	35198	09/22/22 15:35	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35227	09/24/22 02:59	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35443	09/26/22 16:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			34868	09/19/22 15:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	34681	09/16/22 13:56	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34714	09/19/22 01:56	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	34663	09/16/22 10:37	CH	EET MID
Soluble	Analysis	300.0		1			34948	09/21/22 10:01	CH	EET MID

Client Sample ID: BH05 Lab Sample ID: 890-2966-2 Date Collected: 09/14/22 11:50 Matrix: Solid

Date Received: 09/14/22 16:34

	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	35198	09/22/22 15:35	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35227	09/24/22 03:19	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35443	09/26/22 16:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			34868	09/19/22 15:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34681	09/16/22 13:56	DM	EET MIC
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34714	09/19/22 02:16	SM	EET MIC
Soluble	Leach	DI Leach			5.01 g	50 mL	34663	09/16/22 10:37	СН	EET MIC
Soluble	Analysis	300.0		1			34948	09/21/22 00:05	CH	EET MID

Client Sample ID: BH06 Lab Sample ID: 890-2966-3 Date Collected: 09/14/22 12:00

Date Received: 09/14/22 16:34

	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	35198	09/22/22 15:35	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35227	09/24/22 03:40	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35443	09/26/22 16:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			34868	09/19/22 15:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34681	09/16/22 13:56	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34714	09/19/22 02:36	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	34663	09/16/22 10:37	CH	EET MID
Soluble	Analysis	300.0		1			34948	09/21/22 00:10	CH	EET MID

Client Sample ID: BH06 Lab Sample ID: 890-2966-4

Date Collected: 09/14/22 12:10 Date Received: 09/14/22 16:34

	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	35198	09/22/22 15:35	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35227	09/24/22 04:00	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35443	09/26/22 16:09	SM	EET MID

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Matrix: Solid

Matrix: Solid

Client Sample ID: BH06

Job ID: 890-2966-1

Client: Ensolum Project/Site: UCBH WW 3 SDG: Rural Eddy NM

Lab Sample ID: 890-2966-4

Matrix: Solid

Date Collected: 09/14/22 12:10 Date Received: 09/14/22 16:34

	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			34868	09/19/22 15:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	34681	09/16/22 13:56	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34714	09/19/22 02:56	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	34663	09/16/22 10:37	CH	EET MID
Soluble	Analysis	300.0		1			34948	09/21/22 00:15	CH	EET MID

Client Sample ID: BH07 Lab Sample ID: 890-2966-5

Date Collected: 09/14/22 12:20 **Matrix: Solid**

Date Received: 09/14/22 16:34

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	35198	09/22/22 15:35	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35227	09/24/22 04:21	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35443	09/26/22 16:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			34868	09/19/22 15:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34681	09/16/22 13:56	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34714	09/19/22 03:16	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	34668	09/16/22 10:45	СН	EET MIC
Soluble	Analysis	300.0		1			34975	09/21/22 13:39	CH	EET MID

Client Sample ID: BH07 Lab Sample ID: 890-2966-6

Date Collected: 09/14/22 12:30 Date Received: 09/14/22 16:34

	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	35198	09/22/22 15:35	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35227	09/24/22 04:41	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35443	09/26/22 16:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			34868	09/19/22 15:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34681	09/16/22 13:56	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34714	09/19/22 03:36	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	34668	09/16/22 10:45	CH	EET MID
Soluble	Analysis	300.0		1			34975	09/21/22 10:47	CH	EET MID

Lab Sample ID: 890-2966-7 **Client Sample ID: BH08**

Date Collected: 09/14/22 12:40 Date Received: 09/14/22 16:34

	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	35198	09/22/22 15:35	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35227	09/24/22 05:02	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35443	09/26/22 16:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			34868	09/19/22 15:34	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.00 g 1 uL	10 mL 1 uL	34681 34714	09/16/22 13:56 09/19/22 03:56	DM SM	EET MID EET MID

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Matrix: Solid

Matrix: Solid

Date Received: 09/14/22 16:34

Lab Chronicle

Client: Ensolum Job ID: 890-2966-1 Project/Site: UCBH WW 3 SDG: Rural Eddy NM

Client Sample ID: BH08 Lab Sample ID: 890-2966-7 Date Collected: 09/14/22 12:40

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			5.02 g	50 mL	34668	09/16/22 10:45	CH	EET MID
Soluble	Analysis	300.0		1			34975	09/21/22 10:53	CH	EET MID

Client Sample ID: BH08 Lab Sample ID: 890-2966-8

Date Collected: 09/14/22 12:50 **Matrix: Solid**

Date Received: 09/14/22 16:34

	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	35198	09/22/22 15:35	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35227	09/24/22 05:22	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35443	09/26/22 16:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			34868	09/19/22 15:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	34681	09/16/22 13:56	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34714	09/19/22 04:16	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	34668	09/16/22 10:45	СН	EET MID
Soluble	Analysis	300.0		1			34975	09/21/22 11:00	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
Project/Site: UCBH WW 3
Job ID: 890-2966-1
SDG: Rural Eddy NM

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	T104704400-22-24	06-30-23
The following analytes	are included in this report, but	it the laboratory is not certific	ed by the governing authority. This list ma	av include analytes fo
the agency does not of	• •	it the laboratory is not certific	su by the governing authority. This list his	ay include analytes to
,	• •	Matrix	Analyte	ay include analytes to
the agency does not of	fer certification.	,	, , ,	ay illicitude allalytes lo

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Method Summary

Client: Ensolum

Project/Site: UCBH WW 3

Job ID: 890-2966-1

SDG: Rural Eddy NM

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	MCAWW	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

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum

Project/Site: UCBH WW 3

Job ID: 890-2966-1 SDG: Rural Eddy NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2966-1	BH05	Solid	09/14/22 11:40	09/14/22 16:34	0.5'
890-2966-2	BH05	Solid	09/14/22 11:50	09/14/22 16:34	1'
890-2966-3	BH06	Solid	09/14/22 12:00	09/14/22 16:34	0.5'
890-2966-4	BH06	Solid	09/14/22 12:10	09/14/22 16:34	1'
890-2966-5	BH07	Solid	09/14/22 12:20	09/14/22 16:34	0.5'
890-2966-6	BH07	Solid	09/14/22 12:30	09/14/22 16:34	1'
890-2966-7	BH08	Solid	09/14/22 12:40	09/14/22 16:34	0.5'
890-2966-8	BH08	Solid	09/14/22 12:50	09/14/22 16:34	1'

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Relinquished by: (Signature)

Received by: (Signature)

9/14/20 1634

Date/Time

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Revised Date 08/25/2020 Rev 2020 2

Project Manager:

Joseph Hernandez

Xenco

Environment Testing

Company Name: Address:

Ensolum

Carlsbad, NM 88220 3122 National Parks HWY

City, State ZIP:

Carlsbad, NM 88220 5315 Buena Vista Dr. Company Name: Bill to: (if different)

WPX

Jim Raley

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

EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No:
www.xenco.com Pagel of
Work Order Comments
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV☐

City, State ZIP:	Carlsbad, NM 88220	8220			City, State ZIP:	ف	Carls	bad, NI	Carlsbad, NM 88220	0				Kep	orung.	Level		ver	L Political L	Reporting: Level II Level III Pai/Oai Inkkr Level IV	
Phone:	281-702-2329			Email:	Email: hernandez@Ensolum.com, jim.raley@dvn.com	@Enso	lum.co	m, jim.	raley@	dvn.cc	Ä			Deli	verable	Deliverables: EDD			ADaPT 🗆	Other:	
Project Name:	UCBH WW 3			Turn	Turn Around						A	ANALYSIS RI	IS RE	EQUEST	Т				Pro	Preservative Codes	
Project Number:	03A1987009			☑ Routine	☐ Rush	Code	a ,-					_							None: NO	NO DI Water: H ₂ O	
Project Location:	Rural Eddy, NM			Due Date:	5 Day TAT								_						Cool: Cool		
Sampler's Name:	Gilbert Moreno			TAT starts the	TAT starts the day received by	by				Ц			-	-					HCL: HC	C HNO ₃ : HN	
CC#	9030007583			the lab, if rece	the lab, if received by 4:30pm	_							-	_					H ₂ SO ₄ : H ₂	H ₂ NaOH: Na	
SAMPLE RECEIPT	PT Jemp Blank:	lank:	Tes No	Wet ice:	Yes No	nete	.0)				_						=	•	H₃PO₄: HP	¥	
Samples Received Intact:	ntact: (Kes	No.	Thermometer ID:	r ID:	JAMA S	7 arar	300												NaHSO,	NaHSO ₄ : NABIS	
Cooler Custody Seals:	s: Yes No	MA	Correction Factor:	actor:	· .O.	P	PA:				=								Na ₂ S ₂ O	Na ₂ S ₂ O ₃ : NaSO ₃	
Sample Custody Seals:	als: Yes No	MA	Temperature Reading:	Reading:	2	\subseteq	S (E				89	0-2966							Zn Acet	Zn Acetate+NaOH: Zn	
Total Containers:			Corrected Temperature:	emperature:	3-4		RIDE	015)	8021		. 1		Criain of Custody	of Cus	stody				NaOH+	NaOH+Ascorbic Acid: SAPC	
Sample Identification	ntification	Matrix	Date Sampled	Time Sampled	Depth Grab/	nb/ # of mp Cont	CHLOR	TPH (8	BTEX				-						Sa	Sample Comments	
ВН05	5	S	9.14.22	11:40	0.5' Grab/	<u>b</u> /	×	×	×		-	_				T	Г				
ВН05	15	S	9.14.22	11:50	1' Grab/	1	×	×	×			_									
ВН06	6	S	9.14.22	12:00	0.5' Grab/	<u>b</u> /	×	×	×			-	-	-			Γ			Incident ID	
ВН06	5	S	9.14.22	12:10	1' Grab/	<u>b</u> /	×	×	×		_	-	-	-	\vdash		T			nAB1702454101	
ВН07	17	S	9.14.22	12:20	0.5' Grab/	b/ 1	×	×	×			-	-								
BH07	17	s	9.14.22	12:30	1' Grab/	<u>b</u> /	×	×	×		_	_	-		\vdash	-					
внов	8	S	9.14.22	12:40	0.5' Grab/	1	×	×	×		_						T				
внов	8	ď	9.14.22	12:50	1' Grab/	ab/ 1	×	×	×		_	\vdash		-	-		T				
			2	Van			T				#	H	+	H	H		T				
				*							_	-	-	-							
Total 200.7 / 6010	010 200.8 / 6020:	020:	8	8RCRA 13PPM Texas 11 Al Sb As	PM Texas	11 ≥	Sb A	Ba	Be B	cd Ca	Cr C	o Cu	Fe Pt	Mg	Mn M	O N	K Se	Ag S	Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn	Sn U V Zn	
Circle Method(s) and Metal(s) to be analyzed	nd Metal(s) to be	analyz	ed.	TCLP / SI	TCLP / SPLP 6010: 8RCRA	BRCRA	Sb	As Ba	æ	Cd Cr Co	ر ا	Cu Pb Mn Mc	n Mo	Ni Se	Ni Se Ag TI U	= C		占	Hg: 1631 / 245.1 / 7470 / 7471	7470 / 7471	
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of sarvice. Furofins 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	document and relinque	ishment or the cos	of samples cons	titutes a valid p	urchase order	from clier	t compa	ny to Eur	ofins Xer	nco, its a	fillates a	nd subc	ntractor	s. It ass	igns sta	ndard te	rms and	d the co	ons		
of Eurofins Xenco. A minimum charge of \$8.00 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 entired unless previously regulated.	imum charge of \$85.0	0 will be	applied to each	project and a cl	harge of \$5 for	each sam	ple subm	itted to E	urofins)	(enco, bu	t not and	lyzed. I	nese terr	ns will o	e enforc	ed unles	8 previo	usiy neg	otiated.		

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2966-1

SDG Number: Rural Eddy NM

List Source: Eurofins Carlsbad

Login Number: 2966 List Number: 1

Creator: Stutzman, Amanda

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

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Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-2966-1

SDG Number: Rural Eddy NM

Login Number: 2966 List Source: Eurofins Midland List Number: 2

List Creation: 09/16/22 11:00 AM

Creator: Rodriguez, Leticia

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

Eurofins Carlsbad

<6mm (1/4").

APPENDIX G

NMOCD Correspondence

P.O. Box 62228 Midland • TX • 79711 • Tel: 432-563-2200 • Fax: 432-563-2213



Erick Herrera

From: Joseph Hernandez

Sent: Friday, November 11, 2022 12:13 PM

To: Erick Herrera

Subject: FW: WPX Site Sampling Activity Update (9/12-9/16/22)



PLEASE NOTE OUR NEW CORPORATE ADDRESS:

Ensolum, LLC 8330 LBJ Freeway, Ste. B830 Dallas, TX 75243

From: Joseph Hernandez

Sent: Friday, September 9, 2022 4:13 PM

To: ocd.enviro@state.nm.us; 'CFO_Spill, BLM_NM' <BLM_NM_CFO_Spill@blm.gov>

Cc: Devon-Team < Devon-Team@ensolum.com >; Raley, Jim < Jim.Raley@dvn.com >; Anderson, Lacee

<Lacee.Anderson@dvn.com>

Subject: WPX Site Sampling Activity Update (9/12-9/16/22)

Good afternoon,

WPX anticipates conducting confirmation soil sampling activities at the following sites between September 12 through September 16, 2022:

Site: RDX Federal 28 #011H

API: 30-015-42109

Incident Number: nAPP2215732821

Site: RDX 21-43 API: 30-015-40997

Incident Number: NAB1730640185

Site: UCBH WW 3 API: 30-015-24451

Incident Numbers: nAB1702454101

Site: RDX Federal 21 #044

API: 30-015-41193

Incident Number: nAPP2115533694

Site: EP USA 3 API: 30-015-24249 Incident Number: nAB1622531873

Site: Yates Federal #001 API: 30-015-24602

Incident Number: NRM2011138650



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Incident ID:	nAB1702454101	
District RP		
Facility ID		
Application ID		

Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.				
 ☑ Detailed description of proposed remediation technique ☑ Scaled sitemap with GPS coordinates showing delineation point ☑ Estimated volume of material to be remediated ☑ Closure criteria is to Table 1 specifications subject to 19.15.29. 				
 \(\sum_{\text{olsure criteria}} \) Closure criteria is to Table 1 specifications subject to 19.15.29. \(\sum_{\text{olsure criteria}} \) Proposed schedule for remediation (note if remediation plan times). 				
Deferral Requests Only: Each of the following items must be con	afirmed as part of any request for deferral of remediation.			
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.				
Extents of contamination must be fully delineated.				
Contamination does not cause an imminent risk to human health, the environment, or groundwater.				
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.				
Printed Name: Jim Raley	Title: Environmental Professional			
Signature:	Date:5/23/2023			
email: jim.raley@dvn.com	Telephone: 575-689-7597			
OCD Only				
Received by: Jocelyn Harimon	Date:05/24/2023			
☐ Approved	Approval			
Signature: Robert Hamlet	Date: 10/17/2023			

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 219790

CONDITIONS

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	219790
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

L	Created By	Condition	Condition Date
	rhamlet	The Remediation Plan is Conditionally Approved. This release is in a high karst area and will need to be remediated to the strictest closure criteria from Table 1 of the OCD Spill Rule. Due to the sensitive nature of the site, the variance to install a liner at 4 feet below ground surface is denied. Confirmation floor samples will need to be taken every 200 ft2. If an inadequate number of floor samples aren't taken, the report will be denied. The variance request for 500 ft2 confirmation sidewall samples is denied. Please collect confirmation sidewall samples, representing no more than 200 ft2. Sidewall/Edge samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. All sidewall samples should be taken from the sidewall of the excavation. Please make sure that the edge of the release extent is accurately defined. All off pad areas must meet reclamation standards set forth in the OCD Spill Rule.	10/17/2023