				80	Spill Calcu	lation - On-Pad	Surface Pool Spill
Received by OCD: 10/14. Convert Irregular shape into a series of rectangles	200	ACCUSED BY 181	Average Depth (in.)	Estimated <u>Pool</u> Area (sq. ft.)	Estimated volume of each pool area (bbl.)	Penetration allowance (ft.)	Total Estimated Volume of Spill (bbl.)
Rectangle A	18	25	2.0	450.00	4.01	0.01	4.04
Rectangle B				0.00	0.00	0.00	0.00
Rectangle C				0.00	0.00	0.00	0.00
Rectangle D	-			0.00	0.00	0.00	0.00
Rectangle E				0.00	0.00	0.00	0.00
Rectangle F				0.00	0.00	0.00	0.00
Rectangle G				0.00	0.00	0.00	0.00
Rectangle H				0.00	0.00	0.00	0.00
Rectangle I				0.00	0.00	0.00	0.00
Rectangle J Released to Imaging: 11	/10/2026	10.20.	51 414	0.00	0.00	0.00	0.00
- Keieusea to Imaging: 11)	10/2023	10:20:	Total Vo	olume Released t	o Unlined Secondar	y Containment:	4.0384



October 7, 2025

New Mexico Oil Conservation Division

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

Re: Closure Request

Pygmy State Com 003H

Incident Number nAPP2516140823

Lea County, New Mexico

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of COG Operating, LLC (COG), has prepared this *Closure Request* to document assessment, excavation, and soil sampling activities at the Pygmy State Com 003H (Site). The purpose of the Site assessment, excavation, and soil sampling activities was to address impacts to soil resulting from a release of produced water into the pasture. Based on the excavation activities and analytical results from the soil sampling events, COG is submitting this *Closure Request*, describing remediation that has occurred and requesting closure for Incident Number nAPP2516140823.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit D, Section 27, Township 21 South, Range 33 East, in Lea County, New Mexico (32.45573°, -103.56512°) and is associated with oil and gas exploration and production operations on private land owned by Merchant Livestock Company.

On May 29, 2025, failure of a water transfer pump resulted in the release of approximately 4 barrels (bbls) of produced water into the surrounding pasture. A vacuum truck was dispatched to the Site to recover free-standing fluids; approximately 3 bbls of produced water were recovered. COG reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on June 10, 2025. The release was assigned Incident Number nAPP2516140823.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized according to Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization are summarized below and detailed in the NMOCD permitting portal Form C-141 Site Characterization section.

Depth to groundwater at the Site is greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well CP-1349, located approximately 893 feet south of the Site. The groundwater well has a reported depth to groundwater first encountered at 990 feet bgs and a static of 572 feet bgs with a total depth of 1,188 feet bgs. All wells used for depth to groundwater determination are presented on Figure 1 and the associated well records are included in Appendix A.

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



The closest continuously flowing or significant watercourse to the Site is a seasonal dry wash, located approximately 5,506 feet northeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

Based on the results of the Site Characterization, the following NMOCD Table I Closure Criteria (Closure Criteria) apply for contaminants of concern (COCs) listed below:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH): 100 mg/kg
- Chloride: 600 mg/kg

BIOLOGICAL COMPLIANCE AND REPORTING

Ensolum personnel conducted a desktop review to establish if the Site is within an area of possible threatened, endangered, and/or sensitive wildlife and plant species, environmentally sensitive areas, surface waters, and sensitive soils. Below is a summary of the desktop findings:

- No environmentally sensitive receptors were located near the Site as mentioned in the Site Characterization.
- The soil type is classified as Kermit soils and Dune Land according to the Web Soil Survey.
 Kermit soils and Dune Land is considered a sensitive soil by the BLM definition. The disturbance area was minimized during remediation activities to limit impact of natural sensitive soils. The excavation was backfilled with the same soil type.

SITE ASSESSMENT ACTIVITIES AND ANALYTICAL RESULTS

On June 5, 2025, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Seven assessment soil samples (SS01 through SS07) were collected within and around the release extent from depths ranging from 0.5 feet to 3 feet bgs to assess the presence or absence of impacted soil.

The assessment soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. The release extent and assessment soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation is included in Appendix B.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody (COC) procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.



Laboratory analytical results for assessment soil samples SS01 through SS03, collected within the release extent, indicated TPH and/or chloride concentrations exceeded the Closure Criteria. Laboratory analytical results for soil samples SS04 through SS07 indicated all COC concentrations were compliant with the Closure Criteria and successfully defined the lateral extent of the release. Based on visible staining in the release area, elevated field screening results, and laboratory analytical results for the assessment soil samples, delineation activities were warranted.

DELINEATION ACTIVITIES AND ANALYTICAL RESULTS

On July 10, 2025, Ensolum personnel were at the Site to oversee delineation activities. Five potholes (PH01 through PH05) were advanced via backhoe within the release extent to assess the vertical extent of impacted soil. The potholes were advanced to depths ranging from 2 feet to 6 feet bgs. Delineation soil samples were collected from each pothole from depths ranging from 1-foot to 6 feet bgs. Soil from the potholes was field screened for VOCs and chloride. Photographic documentation is included in Appendix B. Field screening results and observations for the potholes were logged on lithologic soil sampling logs, which are included in Appendix C. The pothole and delineation soil sample locations are depicted on Figure 2.

Laboratory analytical results for delineation soil samples collected from pothole PH01 indicated TPH and/or chloride concentrations exceeded the Closure Criteria at depths ranging from the ground surface to 5 feet bgs. Laboratory analytical results for potholes PH02 through PH05 indicated all COC concentrations were compliant with the Closure Criteria at depths ranging from 1-foot to 2 feet bgs. Based on visible staining in the release area, elevated field screening results, and laboratory analytical results for the assessment and delineation soil samples, excavation activities were warranted.

EXCAVATION ACTIVITIES AND ANALYTICAL RESULTS

Between August 21, 2025, and September 3, 2025, Ensolum personnel were at the Site to oversee excavation activities as indicated by visible staining, field screening activities, and laboratory analytical results from the assessment and delineation soil samples. Excavation activities were performed via backhoe and transport vehicles to a maximum depth of 9 feet bgs. Photographic documentation is included in Appendix B.

To direct excavation activities, soil was screened for VOCs and chloride. Following removal of the impacted soil, Ensolum personnel collected 5-point composite soil samples representing no more than 200 square feet from the floor and sidewalls of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS04 were collected from the floor of the excavation at depths ranging from 7 feet to 9 feet bgs. Composite soil samples SW01 through SW05 were collected from the sidewalls of the excavation from depths ranging from the ground surface to 9 feet bgs. The composite soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 3.

Laboratory analytical results for excavation floor samples FS01 and FS02 and sidewall samples SW01 through SW05 indicated all COC concentrations were compliant with the Site Closure Criteria. Laboratory analytical results for floor samples FS03 and FS04 indicated TPH concentrations initially exceeded the Closure Criteria. Additional soil was removed within the footprint of composite samples FS03 and FS04 and laboratory analytical results for the terminal samples collected at 8.5 feet and 7.5 feet bgs, respectively, indicated all COC concentrations were compliant with the Closure Criteria.



Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included as Appendix D.

The excavation area measured approximately 850 square feet. A total of approximately 250 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the Lea Land Disposal Facility in Hobbs, New Mexico. After completion of the composite sampling, the excavation area was secured with fencing.

RECLAMATION ACTIVITIES

The Site was backfilled with locally procured sandy topsoil, consistent with the surrounding native soil type, and recontoured to match pre-existing conditions. One representative 5-point composite soil sample (BF01) was collected from the backfill material to confirm compliance with the NMOCD requirements for the reclaimed area to contain non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg and TPH concentrations less than 100 mg/kg.

Laboratory analytical results for backfill sample BF01 indicated all COC concentrations were compliant with the reclamation requirement.

The reclaimed area was seeded on October 2, 2025, with the below private land owner requested Homesteaders Choice seed mix at a rate of 20 pounds of pure live seeds (PLS) per acre to account for the application method.

Species/Cultivar
Blue Grama
Buffalograss
Sideoats Grama
Western Wheatgrass
Sand Dropseed

Following broadcast seeding, the area was chained to cover the seed. Photographs of the backfilled excavation and seeding of the reclaimed area are provided in Appendix B.

VEGETATION MONITORING

The Site will be monitored for vegetation growth to verify that reclamation activities were successful. Focus for this phase will be to prevent erosion and Site degradation, and to monitor for and treat invasive and noxious weed species.

- Erosion control of the newly reclaimed areas includes prompt revegetation and contouring of the surface to prevent concentrated surface water flow.
- Annual inspections will take place at the location to assess revegetation progress until vegetation is consistent with local natural vegetation density.
- If necessary, an additional application of the approved seed mix(es) will be applied.
- Noxious and invasive weeds will be identified and treated by a licensed contracted herbicide applicator or mechanically removed.



A Re-vegetation Report will be submitted to the NMOCD once vegetation growth in the reclaimed excavation area has a uniform vegetative cover that reflects a life-form ratio of plus or minus 50 percent (%) of pre-disturbance levels and a total percent plant cover of at least 70% of pre-disturbance levels, excluding noxious weeds, per NMAC 19.15.29.13 D.(3).

CLOSURE REQUEST

Site assessment, delineation, and excavation activities were conducted at the Site to address the May 2025, release of produced water into the surrounding pasture. Laboratory analytical results for the composite soil samples, collected from the final excavation extent, indicated all COC concentrations were compliant with the Closure Criteria. Based on the soil sample analytical results, no further remediation was required.

Excavation of impacted soil has mitigated impacts at this Site. COG believes these remedial actions are protective of human health, the environment, and groundwater. As such, COG respectfully requests closure and a status update to Reclamation Report Approved, Pending submission of Re-Vegetation Report for Incident Number nAPP2516140823.

If you have any questions or comments, please contact Ms. Hadlie Green at (432) 557-8895 or hareen@ensolum.com.

Sincerely, **Ensolum, LLC**

Tabitha Guadian Staff Geologist

Daniel R. Moir, PG (licensed in WY & TX) Senior Managing Geologist

CC: Jacob Laird, ConocoPhillips Company

Merchant Livestock Company

Appendices:

Figure 1 Site Location Map

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

Referenced Well Records Appendix A

Appendix B Photographic Log

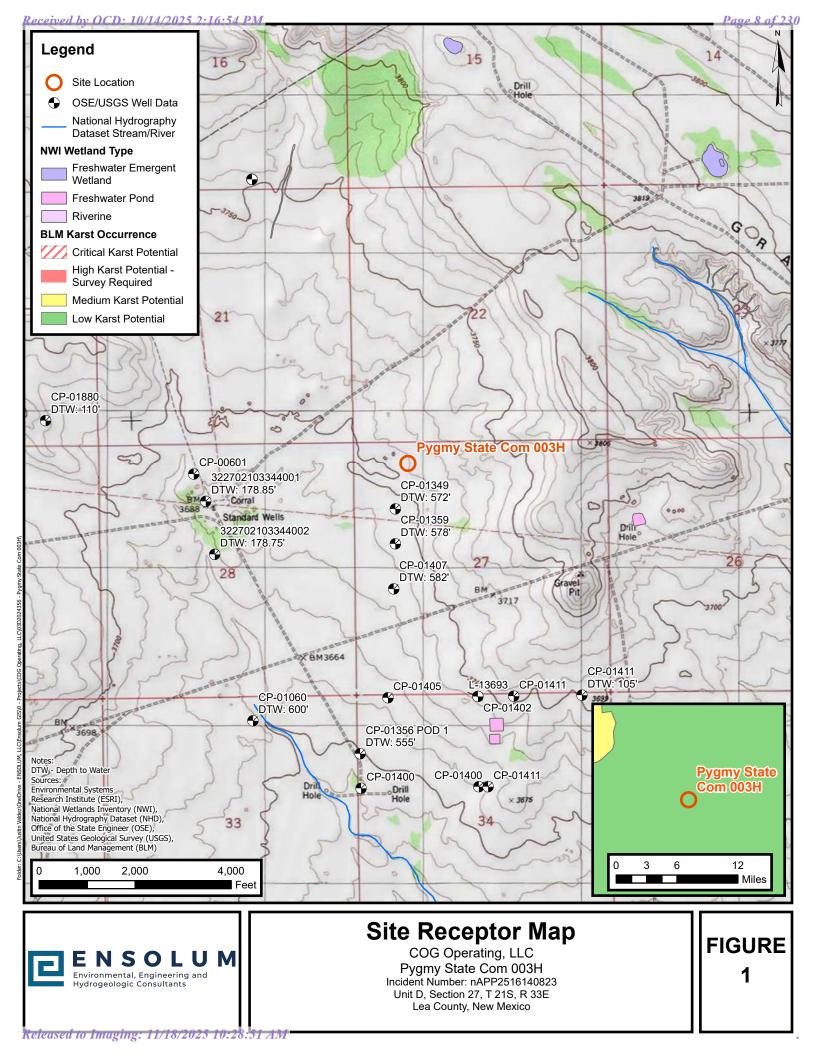
Appendix C Lithologic Soil Sampling Logs

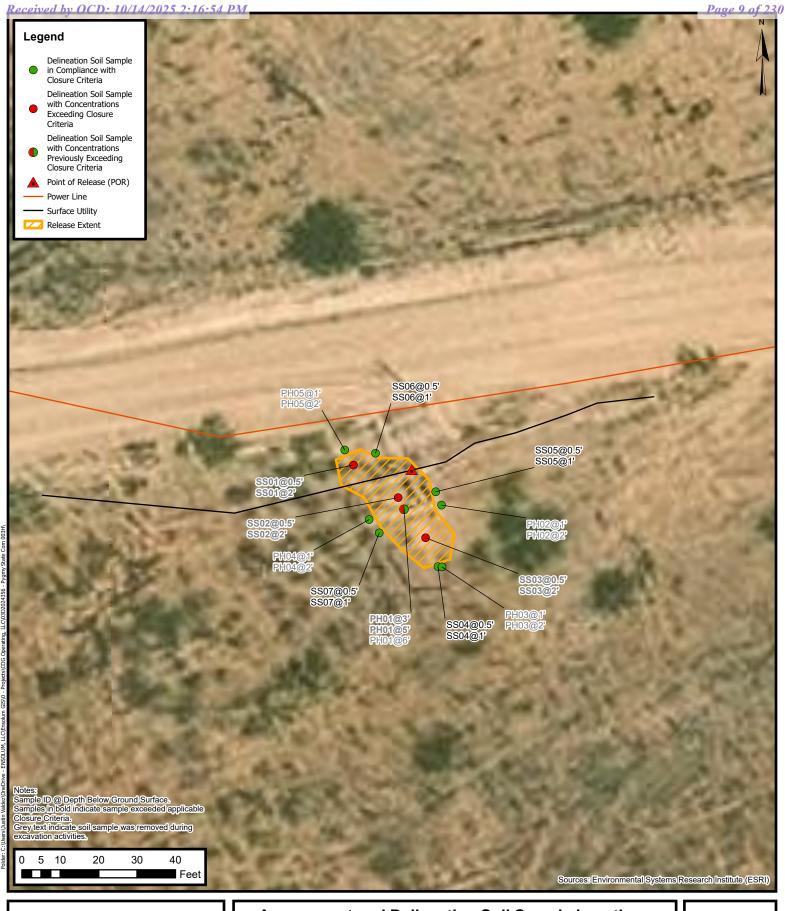
Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation

Appendix E NMOCD Correspondence



FIGURES

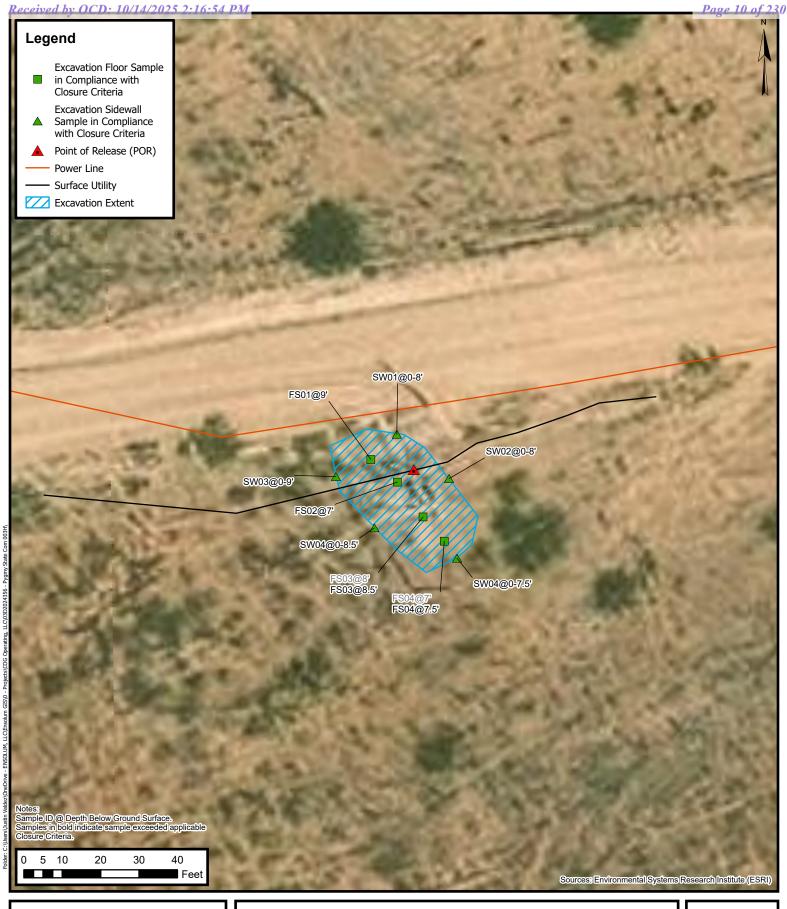






Assessment and Delineation Soil Sample Locations

COG Operating, LLC Pygmy State Com 003H Incident Number: nAPP2516140823 Unit D, Section 27, T 21S, R 33E Lea County, New Mexico FIGURE 2





Excavation Soil Sample Locations

COG Operating, LLC Pygmy State Com 003H Incident Number: nAPP2516140823 Unit D, Section 27, T 21S, R 33E Lea County, New Mexico FIGURE 3



TABLES



TABLE 1

SOIL SAMPLE ANALYTICAL RESULTS

Pygmy State Com 003H COG Operating, LLC Lea County, New Mexico

	COG Operating, LLC Lea County, New Mexico											
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)		
NMOCD Table I	Closure Criteria 19.15.29)	(NMAC	10	50	NE	NE	NE	NE	100	600		
	Assessment Soil Samples											
SS01	06/05/2025	0.5	<0.0996	5.95	394	6,190	<49. 7	6,584	6,580	5,740		
SS01	06/12/2025	2	<0.00202	<0.00403	<49.6	<49.6	<49.6	<49.6	<49.6	3,380		
SS02	06/05/2025	0.5	<0.0994	59.4	1,530	6,020	<49.6	7,550	7,550	15,400		
SS02	06/12/2025	3	1.50	143	2,300	10,200	< 500	12,500	12,500	8,020		
SS03	06/05/2025	0.5	<0.0998	10.4	618	13,100	<250	13,718	13,700	3,970		
SS03	06/12/2025	2	<0.0996	3.83	67.4	1,590	<49.9	1,657	1,660	1,310		
SS 04	06/05/2025	0.5	<0.00200	<0.00399	≤50.1	<50.1	<50.1	<50.1	<50.1	107		
SS 04	06/05/2025	4	<0.00199	<0.00398	<50.1	<50.1	< 50.1	< 50.1	<50.1	103		
\$\$05	06/05/2025	0.5	<0.00199	<0.00398	<50.2	<50.2	<50.2	<50.2	<50.2	102		
SS05	06/05/2025	4	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	107		
\$\$06	06/05/2025	0.5	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	80.3		
SS06	06/05/2025	4	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	105		
\$\$07	06/05/2025	0.5	<0.00201	<0.00402	<50.0	< 50.0	≤50.0	<50.0	< 50.0	78.9		
SS07	06/05/2025	4	<0.00202	<0.00404	<50.1	<50.1	< 50.1	<50.1	<50.1	115		
				Delii	neation Soil Sam	ples						
PH01	07/10/2025	3	<0.00202	2.090	285	4,220	<50.0	4,505	4,510	717		
PH01	07/10/2025	5	<0.00198	<0.00397	< <u>50.0</u>	<50.0	<50.0	< 50.0	<50.0	4,390		
PH01	07/10/2025	6	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	177		
PH02	07/10/2025	4	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	108		
PH02	07/10/2025	2	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	125		
PH03	07/10/2025	4	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	104		
PH03	07/10/2025	2	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	107		
PH04	07/10/2025	1	<0.00200	<0.00400	≤49.8	<49.8	<49.8	<49.8	<49.8	92.9		
PH04	07/10/2025	2	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	75.2		



TABLE 1

SOIL SAMPLE ANALYTICAL RESULTS

Pygmy State Com 003H **COG Operating, LLC** Lea County, New Mexico

	Lea County, New Mexico										
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)	
NMOCD Table I	Closure Criteria 19.15.29)	(NMAC	10	50	NE	NE	NE	NE	100	600	
PH05	07/10/2025	4	< 0.00200	<0.00399	< 50.0	< 50.0	≤50.0	< 50.0	< 50.0	109	
PH05	07/10/2025	2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	118	
				Exc	avation Soil Sam	ples					
FS01	08/21/2025	9	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	<49.8	206	
FS02	08/21/2025	7	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	183	
FS03	08/21/2025	8	<0.00200	<0.00399	<49.8	184	<49.8	184	184	215	
FS03	09/03/2025	8.5	<0.00198	<0.00396	<49.7	<49.7	<49.7	<49.7	<49.7	41.4	
FS04	08/21/2025	7	<0.00201	<0.00402	<49.9	123	<49.9	123	123	378	
FS04	09/03/2025	7.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	281	
SW01	08/22/2025	0 - 8	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	76.1	
SW02	08/22/2025	0 - 8	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	36.2	
SW03	08/22/2025	0 - 9	<0.00202	0.00902	<50.0	<50.0	<50.0	<50.0	<50.0	<10.1	
SW04	09/03/2025	0 - 7.5	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	<49.8	49.3	
SW05	09/03/2025	0 - 8.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	215	
				В	ackfill Soil Samp	le					
BF01	09/18/2025	NA	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	<49.8	50.9	

Notes:

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

NA: Not Applicable

NE: Not Established

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

SUCA: Surface Use and Compensation Agreement BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics DRO: Diesel Range Organics ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon Released to Imaging: 11/18/2025 10:28:51 AM

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation standard where applicable.

Grey text represents samples that have been excavated



APPENDIX A

Referenced Well Records



WELL RECORD & LOG

STATE ENGINEER OFFICE

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

2014 SEP 10 PM 2: 15

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, et	WD 421		Corky Glenn					Glenn's Water \	Well Service, Inc.		
	DRILLING S	TARTED	DRILLING ENDED	DEPTH OF COMPLE	TED WELL (FT)	BORE HO	LE DEPTH (FT)	DEPTH WATER FIR	ST ENCOUNTERED (FT)	<u> </u>	
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ON.								17,2			
ΑTI	DRILLING F	LUID:	♠ AIR	● _{MUD}							
R.	DRILLING N	METHOD:	ROTARY	R - SPECIFY:							
FO	DEPTH	(feet bgl)	DODE HOLE	CASING MAT	ERIAL AND/OR	T		CARRIC			
DRILLING & CASING INFORMATION	FROM	TO	BORE HOLE DIAM		ADE		ASING NECTION	CASING INSIDE DIAM.	CASING WALL THICKNESS	SLOT SIZE	
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CA			<u> </u>	note sections of screen)		-			,		
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N.	0'	754'	14 3/4"	9 5/8"		Thread & Collar		8.921"	36 lbs.	none	
TI	721'	1,188'	8 3/4"	7" (467' Total)		Thread & Collar		6.366"	23 lbs.	1/8"	
DR				259.93' perforated							
2.				on bottom of	liner						
:											
	DEPTH	(feet bgl)	DODE HOLE	TIGTAN	NULAR SEAL MA	ATEDIAL A	ND	AMOUNT	METERO	D OF	
Ţ	FROM		BORE HOLE DIAM. (inches)		PACK SIZE-RANG			(cubic feet)	METHO PLACEN		
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	FROM	то	THICKNESS (feet)	INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	YIELD FOR WATER- BEARING ZONES (gpm)				
	0	4'	4'	Sand	C Y 6 N					
	4'	19'	15'	Caliche	C Y 6 N					
	19'	35'	16'	Sand & Clay	CYGN					
	35'	122'	87'	Red Clay	CY 6 N					
	122'	145'	23'	Sandy Red Clay	CYGN					
ָ נ	145'	417'	272'	Red & Brown Clay	CY 6 N					
HYDROGEOLOGIC LOG OF WELL	417'	720'	303'	Brown & Red Shale (some clay)	CYGN					
OFV	720'	742'	22'	Red, Brown & Blue Clay	CY 6 N					
OC	742'	753'	11'	Brown Shale & Brown Sandrock	CY 6 N					
ICI	753'	805'	52'	Red & Blue Clay	CYGN					
507	805'	837'	32'	Brown & Red Shale (some sandrock)	CY 6 N					
EO]	837'	885'	48'	Brown Sandrock & Shale	CY 6 N					
ROG	885'	990'	105'	Red & Brown Shale (some sandrock)	CY 6 N					
HYD	990'	1188'	198'	Watersand (Brown Sandrock)	● Y C N					
4.					$C^{Y}C^{N}$					
					$C^{Y}C^{N}$					
					CYCN					
	 				CY•CN					
	* · · · · · · · · · · · · · · · · ·		···· · · · · · · · · · · · · · · · · ·		C^{Y}					
					C^{Y}					
i					$C^{Y} C^{N}$					
	METHOD U	ISED TO ES	STIMATE YIELD	***	OTAL ESTIMATED					
	C AIR LIF	т С	BAILER C	OTHER - SPECIFY:	ELL YIELD (gpm):					
ISION	WELL TES			ACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLU ME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER						
			ORMATION:		<u> </u>	·				
PER	0' to 754'		th mud. d with air and	foam						
ું છ	/54 (01,	100 anne	a with all and	Touri,						
TEST; RIG SUPERV	•									
LES	PRINT NAM	ME(S) OF D	RILL RIG SUPE	RVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONST	RUCTION OTHER TH	IAN LICENSEE:				
้ห่										
E	CORRECT	RECORD O	F THE ABOVE I	FIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL REC	THE FOREGOING IS ORD WITH THE STA	S A TRUE AND TE ENGINEER				
TUR	AND THE F	AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:								
SIGNATURE										
6. SI	for	by 1	tem	CONKY G-LENN	19/14					
	0	SIGNAT	URE OF DRILLI	ER / PRINT SIGNÉE NAME	/ DATE					
FO	R OSE INTER	NAL USF	*	WR-20 WFI.I.1	RECORD & LOG (Ve	rsion 06/08/2012)				

POD NUMBER

TRN NUMBER

PAGE 2 OF 2

FILE NUMBER

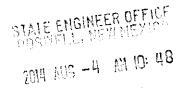
LOCATION



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us



	OSE BOD 37	MBER (WEL	I MIMDED				OSE FILE NU	MBER(S)				
		,	<i>'</i>				COLIEDIO	(ADDIA(O)				
Ō	CP - 1349 (Tyler #1)							PHONE (OPTIONAL)				
GENERAL AND WELL LOCATION	WELL OWNER NAME(S) Merchants Livestock/Glenn's Water Well Servcie, Inc.							•				
ŏ				r well Servcie, Ind			(575)398-2	<u> </u>				
T		ER MAILING	ADDRESS			CITY		STATE	ZIP			
VEI	P.O. Box	592				Tatum		NM 882	(0/			
D.			DEGREES	MINUTES								
¥	WELL	.,	32	27	11.3	N	* ACCURACY	REQUIRED: ONE TEN	TH OF A SECOND			
Ψ	LOCATIO (FROM GF		ITUDE					QUIRED: WGS 84				
E	(I-KOM OF	LON	GITUDE 103	33	37.7	W	Difference	Q01005. 11 00 0 1				
Ē	DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHUIP, RANGE) WHERE AVAILABLE											
-	NE/SW/N	W Sec. 27	7, T21S, R33E on !	Merchants Livest	ock Land							
	LICENSE NU	MBER	NAME OF LICENSED	DRILLER				NAME OF WELL DR				
	WD 421	ļ	Corky Glenn					Glenn's Water \	Well Service, inc	· .		
	DRILLING S		DRILLING ENDED	DEPTH OF COMPLETE	ED WELL (FT)		LE DEPTH (FT)	1	ST ENCOUNTERED (F	T)		
	7/12/14	7	//18/14	1188'		1188'		990'				
		1	1			1		STATIC WATER LEV	VEL IN COMPLETED V	WELL (FT)		
. '77	COMPLETE	O WELL IS:	ARTESIAN	C DRY HOLE C	SHALLOW (UNC	ONFINED)						
٠Ô								<u> </u>				
[AT	DRILLING F			Смир	ADDITIVES - SPI	ECIFY:						
N.	DRILLING N	METHOD:	• ROTARY	C HAMMER C	CABLE TOOL	C OTHE	R - SPECIFY:					
E O	DEPTH	(feet bgl)	BORE HOLE	CASING MATE	RIAL AND/OR		ODIC	CASING	CASING WALL	GI OTT		
£ rh	FROM	ТО	DIAM	GRADE		CASING CONNECTION		INSIDE DIAM.	CASING WALI THICKNESS	SLOT SIZE		
ž	I ROW 10		(inches)	(include each cas			YPE	(inches)	(inches)	(inches		
DRILLING & CASING INFORMATION				note sections of screen)		ļ						
જ	0'	40'	20"	16"		none		15 1/2'	.250			
<u> </u>	0,	754'	14 3/4"	9 5/8"	Thread and collar		.352	36 lbs.	none			
	721'	1188'	8 3/4"	7"		Thread	and collar	6.5"	23 lbs.	1/8"		
EN C												
7												
:												
				1		1						
			1					-				
										_		
	<u>. </u>	<u>. </u>		1		<u> </u>			1			
	DEPTH	(feet bgl)	BORE HOLE	1	NULAR SEAL M			AMOUNT		OD OF		
IAL	FROM	TO	DIAM. (inches)	GRAVEL PA	ACK SIZE-RANG	E BY INTE	RVAL	(cubic feet)		EMENT		
ANNULAR MATERIAL	0,	40'	20"	Cemented				2 yds.	Top Pour			
[AT	0'	754'	14 3/4"	Float and shoe	cemented to	surface		740	Circulate	d		
₹												
LAI												
2						<u>.</u>	···			· · · · · · · · · · · · · · · · · · ·		
Z												
				ļ	· · · · · · · · · · · · · · · · · · ·							
, es	1		}									
		L										
m	OSE INTER	NAL USE	•				WR-2	0 WELL RECORD	& LOG (Version 06	5/08/2012)		
က် FOR	OSE INTER	NAL USE	0_1349		POD NUMBER	1		0 WELL RECORD	& LOG (Version 06	5/08/2012)		

W.=			· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·					
*	DEPTH (feet bgl)		COLOR AND TYPE OF MATERIAL ENCOUNTERED -	WATER	ESTIMATED YIELD FOR			
Size.	FROM	то	THICKNESS (feet)	INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	1 :_ :	WATER- BEARING ZONES (gpm)			
	0'	4'	4'	Sand	CY 6 N				
ga e	4'	19'	15'	Caleche	CYON				
	19'	35'	16'	Sand & Clay	CYGN				
\$	35'	122'	87'	Red Sand	CY 6 N				
N .	122'	145'	23'	Sandy Red Clay	CY 6 N				
	145'	417'	272'	Red & Brown Clay	CY 6 N				
VEL	417'	720'	303'	Brown & Red Shale (some clay)	CY 6 N				
OFV	720'	742'	22'	Red, Brown & Blue Clay	CY 6 N				
90	742'	753'	11'	Brown Shale & Brown Sandrock	CY 6 N				
IC L	753'	805'	52'	Red & Blue Clay	CY 6 N				
90	805'	837'	32'	Brown & Red Shale (some sandrock)	CY ® N				
EOI	837'	885'	48'	Brown Sandrock & Shale	CY 6 N				
4. HYDROGEOLOGIC LOG OF WELL	855'	990'	105'	Red & Brown Shale (some sandrock)	CY 6 N				
IVD	990'	1188'	198'	Watersand(Brown sandrock)	● Y C N				
					CYCN				
				***************************************	$O_{A}O_{N}$				
					C Y C N				
					CYCN				
6 1		ļ			C Y C N				
					CY CN				
(3 ₁₀)			<u> </u>		CYCN				
11.	METHOD U	JSED TO ES	STIMATE YIELD	OF WATER-BEARING STRATA: PUMP	TOTAL ESTIMATED				
	C AIR LIF	тС	BAILER C	OTHER - SPECIFY:	WELL YIELD (gpm):	50			
Z	WELL TES	TEST STAR	RESULTS - ATT T TIME, END TI	ACH A COPY OF DATA COLLECTED DURING WELL TESTING, INC ME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVE	LUDING DISCHARGE M IR THE TESTING PERIO	ÆTHOD, D.			
ISIC	MISCELLA	NEOUS IN	ORMATION:	- And the state of		A			
ERV	·	TILOUS IIVI	OIL III III III						
TEST; RIG SUPERVISION	0' to 754' drilled with mud. 754' to 1188' drilled with air and foam.								
TEST	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSE								
જ									
TURE	CORRECT	RECORD O	F THE ABOVE I	FIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RE 20 DAYS AFTER COMPLETION OF WELL DRILLING:					
6. SIGNATURE	1	Ry 1	Hom	Conty Glens	8/1/14				
		SIGNAT	URE OF DRILLE	ER / PRINT SIGNEE NAME	/ DATE				
FOI	OSE INTER	NAI IISE		WP 20 WEI	I RECORD & LOG (Ver	mion 06/09/2012)			

POD NUMBER

TRN NUMBER 548479

PAGE 2 OF 2

FILE NUMBER

LOCATION



APPENDIX B

Photographic Log



Photographic Log

COG Operating, LLC
Pygmy State Com 003H
Incident Number nAPP2516140823





Photograph: 1 Date: 6/5/2025

Description: Soil staining in release footprint

View: Southeast

Photograph: 2 Date: 6/5/2025

Description: Soil staining in release footprint

View: Southwest





Photograph: 3 Date: 6/5/2025

Description: Soil staining in release footprint

View: Northeast

Photograph: 4 Date: 6/5/2025

Description: Soil staining in release footprint

View: Southeast



Photographic Log

COG Operating, LLC
Pygmy State Com 003H
Incident Number nAPP2516140823





Photograph: 5 Date: 7/10/2025

Description: Delineation activities

View: Northwest

Photograph: 6 Date: 8/12/2025

Description: Excavation activities

View: Southwest





Photograph: 7 Date: 8/22/2025

Description: Excavation activities

View: Northeast

Photograph: 8 Date: 9/3/2025

Description: Excavation activities

View: Southeast



Photographic Log

COG Operating, LLC
Pygmy State Com 003H
Incident Number nAPP2516140823





Photograph: 9 Date: 9/3/2025

Description: Excavation activities

View: Southwest

Photograph: 10 Date: 10/2/2025

Description: Backfill and seeding activities

View: South

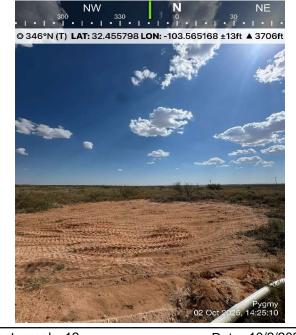
SE





Description: Backfill and seeding activities

View: East



Photograph: 12 Date: 10/2/2025

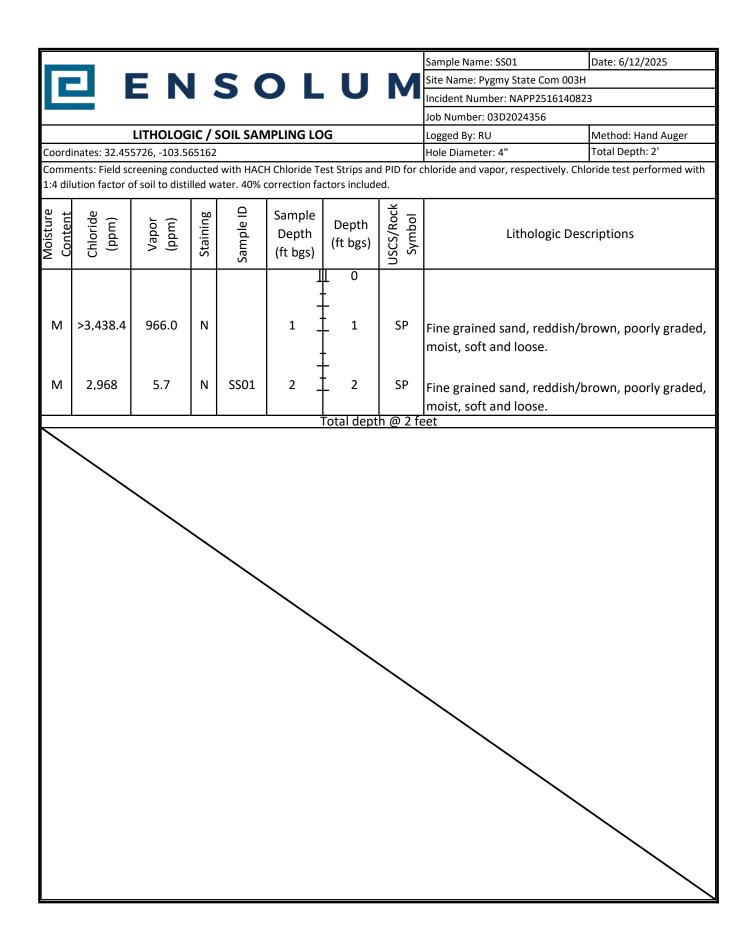
Description: Backfill and seeding activities

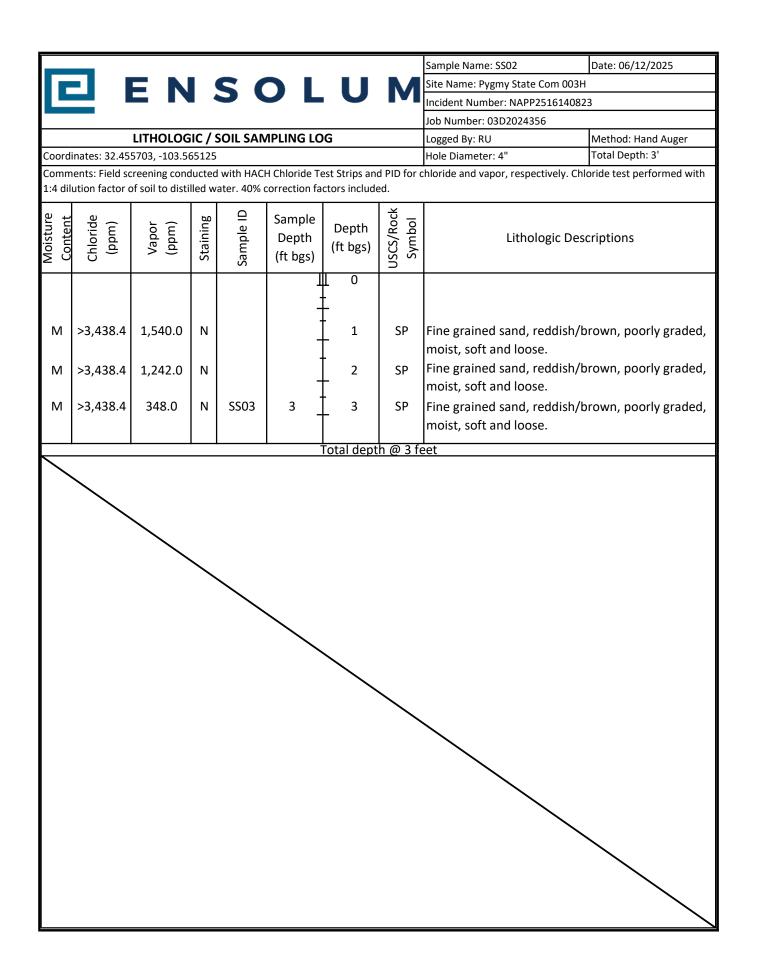
View: North

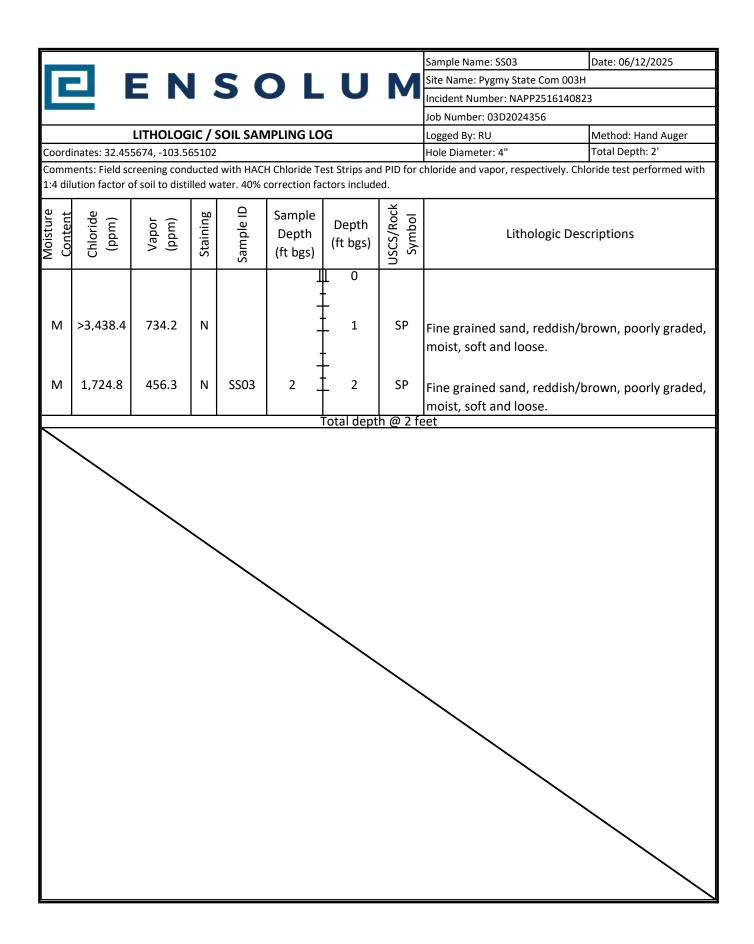


APPENDIX C

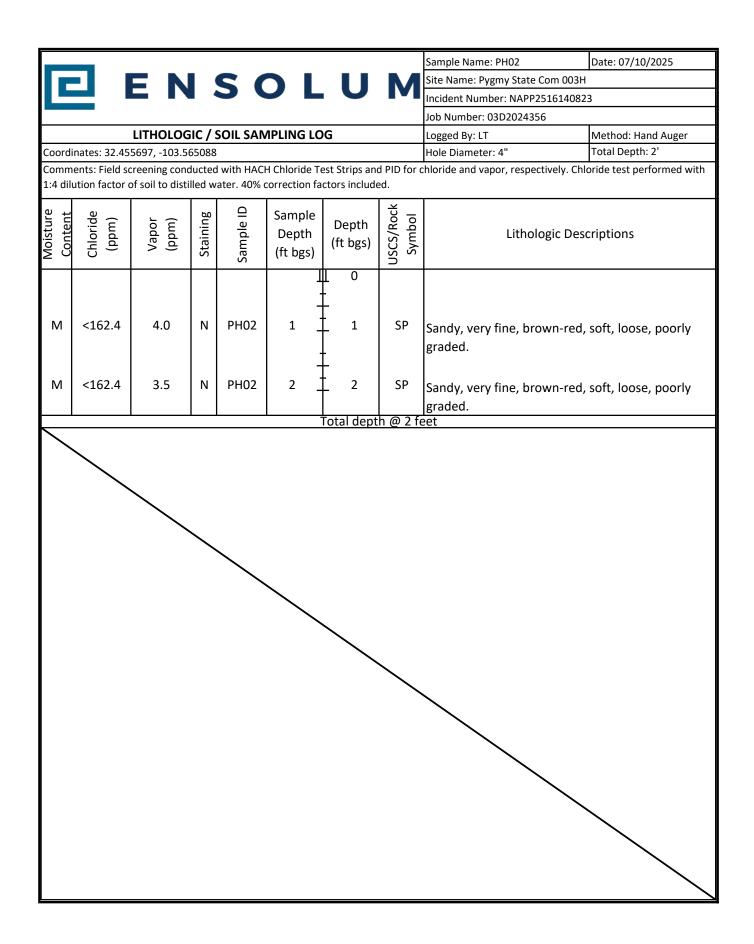
Lithologic Soil Sampling Logs

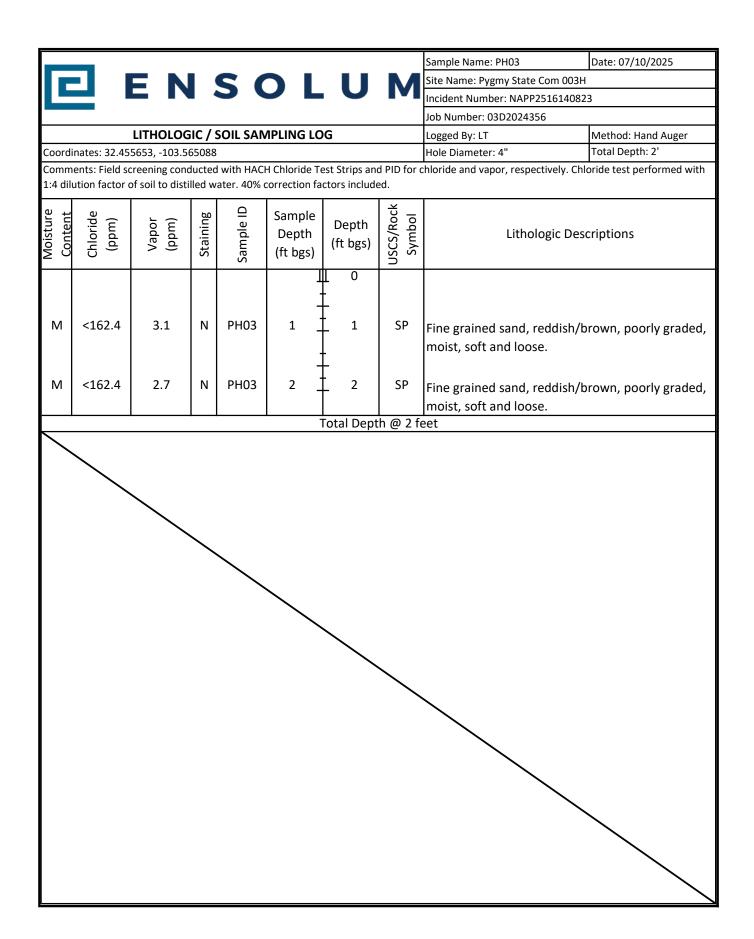


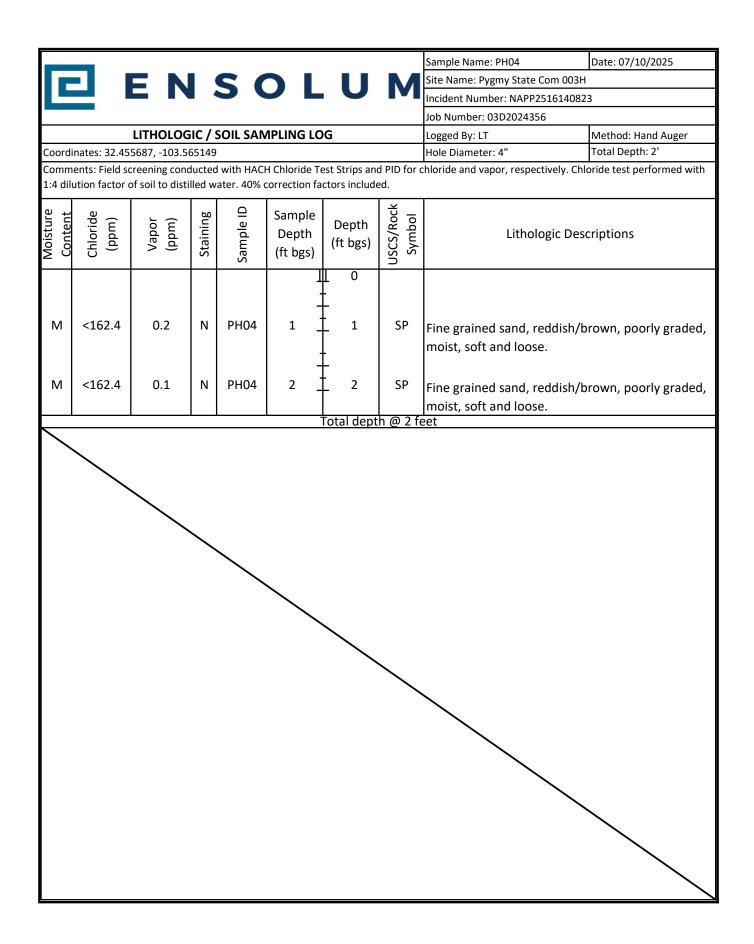


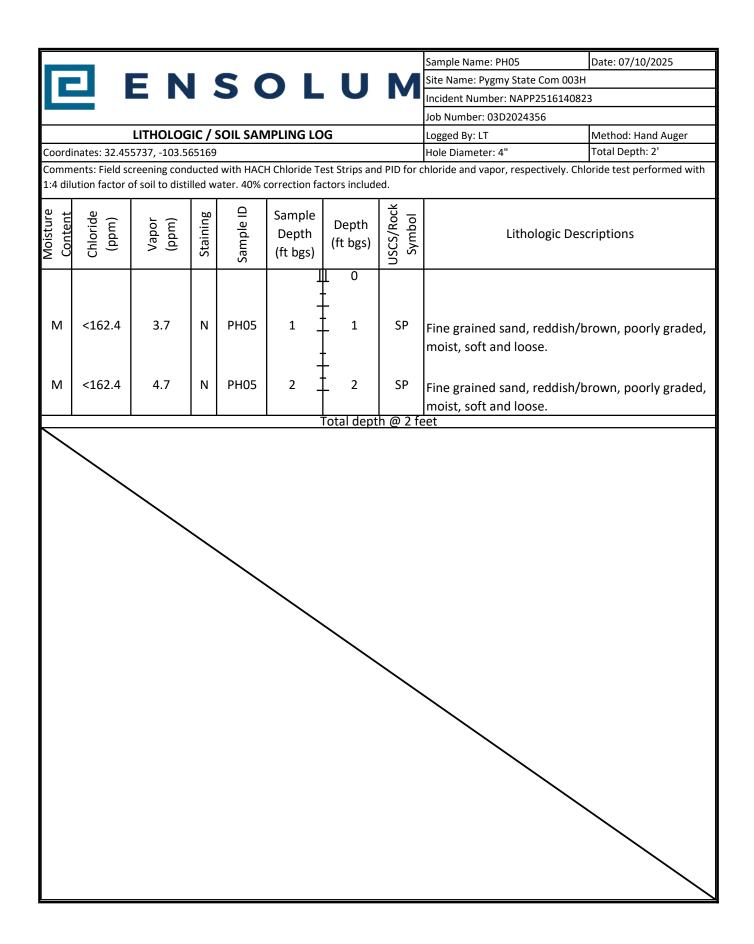


								Sample Name: PH01	Date: 07/10/2025
					1			Site Name: Pygmy State Com 00	
		E N		5 (J L	. U		Incident Number: NAPP251614	
								Job Number: 03D2024356	
		LITHOLOG	ic / s	SOIL SAM	/IPLING I C)G		Logged By: LT	Method: Backhoe
Coordi	inates: 32.45			701E 3711	ב כ		Hole Diameter: NA	Total Depth: 8'	
				with HACI	H Chloride T	d PID for o	chloride and vapor, respectively.	·	
	ution factor o						ed.		
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic D	escriptions
Μ	1,456	1,793	Z	PH01	3	1 2 3	SP	Fine grained sand, reddish slight odor, moist, soft ar	
D	>3,522.4	399.4	N		- -	4	GW	Oil odor, light tan/brown, dry, minor gravel.	loose, medium sand,
D	>3.522.4	5.8	N	PH01	5 _	5	SP	Tan brown, poorly graded fine sand.	l, sandy, minor gravel,
D	257.6	12.7	N	PH01	6 <u>-</u>	6	SP	Tanish brown, poorly grad hardness, sandy, dry.	ded, loose, medium
D	537.6	76.1	N		- - -	7	SP	Tanish brown, poorly grac hardness, sandy, dry.	ded, loose, medium
D	1,204	46.5	N		- - -	8	SP	Tanish brown, poorly grac hardness, sandy, dry.	ded, loose, medium
						9	0.0.6	Refusal	
						Total dept	<u>n @ 8 fe</u>	<u>eet </u>	
					_				
								_	
									<u> </u>











APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green Ensolum 601 N. Marienfeld St.

Suite 400

Midland, Texas 79701 Generated 6/11/2025 11:18:47 AM

JOB DESCRIPTION

Pygmy 27 Stat Eddy County

JOB NUMBER

880-59043-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization

Generated 6/11/2025 11:18:47 AM

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

14

Client: Ensolum Project/Site: Pygmy 27 Stat Laboratory Job ID: 880-59043-1 SDG: Eddy County

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Surrogate Summary	15
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QC Association Summary	24
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Method Summary	33
Sample Summary	34
Chain of Custody	35
	37

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Definitions/Glossary

Client: Ensolum

Project/Site: Pygmy 27 Stat

SDG: Eddy County

Qualifiers

GC VOA

 Qualifier
 Qualifier Description

 S1+
 Surrogate recovery exceeds control limits, high biased.

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not

applicable.

F1 MS and/or MSD recovery exceeds control limits.

U Indicates the analyte was analyzed for but not detected.

Glossary

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

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

%R Percent Recovery

CFL Contains Free Liquid

CFU Colony Forming Unit

CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

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

NC Not Calculated

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

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Eurofins Midland

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Case Narrative

Client: Ensolum Job ID: 880-59043-1

Project: Pygmy 27 Stat

Job ID: 880-59043-1 Eurofins Midland

Job Narrative 880-59043-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these
 situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise
 specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 6/6/2025 3:30 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.2°C.

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-111715 and analytical batch 880-111645 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: SS06 (880-59043-9). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: SS02 (880-59043-2) and SS03 (880-59043-3). Evidence of matrix interference due to high target analytes is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The following samples were diluted due to the nature of the sample matrix: SS01 (880-59043-1), SS02 (880-59043-2) and SS03 (880-59043-3). Elevated reporting limits (RLs) are provided.

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

Diesel Range Organics

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SS01 (880-59043-1), SS02 (880-59043-2) and SS03 (880-59043-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-111735 and analytical batch 880-111818 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-111736 and analytical batch 880-111866 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Eurofins Midland

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Matrix: Solid

Lab Sample ID: 880-59043-1

Client: Ensolum Job ID: 880-59043-1 Project/Site: Pygmy 27 Stat SDG: Eddy County

Client Sample ID: SS01

Date Collected: 06/05/25 11:04 Date Received: 06/06/25 15:30

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.0996	U	0.0996	mg/Kg		06/06/25 15:50	06/06/25 23:55	50
Toluene	1.00		0.0996	mg/Kg		06/06/25 15:50	06/06/25 23:55	50
Ethylbenzene	0.227		0.0996	mg/Kg		06/06/25 15:50	06/06/25 23:55	50
m-Xylene & p-Xylene	3.38		0.199	mg/Kg		06/06/25 15:50	06/06/25 23:55	50
o-Xylene	1.34		0.0996	mg/Kg		06/06/25 15:50	06/06/25 23:55	50
Xylenes, Total	4.72		0.199	mg/Kg		06/06/25 15:50	06/06/25 23:55	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	96		70 - 130			06/06/25 15:50	06/06/25 23:55	50
1,4-Difluorobenzene (Surr)	103		70 - 130			06/06/25 15:50	06/06/25 23:55	50
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	5.95		0.199	mg/Kg			06/06/25 23:55	-
Analyte Total TPH	6580	Qualifier	49.7	Unit mg/Kg	D	Prepared	Analyzed 06/07/25 05:39	Dil Fa
Total TPH	6580		49.7	mg/Kg			06/07/25 05:39	·
Method: SW846 8015B NM - Dies	• •							
Analyte	Result	Qualifier	DI.			Prepared		
			RL	Unit	D	<u>·</u>	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	394		49.7	mg/Kg	D	06/05/25 15:34	Analyzed 06/07/25 05:39	
	394 6190				<u>D</u>	<u>·</u>		
(GRO)-C6-C10 Diesel Range Organics (Over		U	49.7	mg/Kg	<u>D</u>	06/05/25 15:34	06/07/25 05:39	
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	6190	U Qualifier	49.7	mg/Kg	В	06/05/25 15:34 06/05/25 15:34	06/07/25 05:39 06/07/25 05:39	
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	6190 <49.7		49.7 49.7 49.7	mg/Kg	Б	06/05/25 15:34 06/05/25 15:34 06/05/25 15:34	06/07/25 05:39 06/07/25 05:39 06/07/25 05:39	Dil Fa
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate	6190 <49.7 // **Recovery 139	Qualifier	49.7 49.7 49.7 Limits	mg/Kg		06/05/25 15:34 06/05/25 15:34 06/05/25 15:34 Prepared	06/07/25 05:39 06/07/25 05:39 06/07/25 05:39 Analyzed	Dil Fa
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	6190 <49.7 **Recovery 139 280	Qualifier S1+ S1+	49.7 49.7 49.7 Limits 70 - 130 70 - 130	mg/Kg		06/05/25 15:34 06/05/25 15:34 06/05/25 15:34 Prepared 06/05/25 15:34	06/07/25 05:39 06/07/25 05:39 06/07/25 05:39 Analyzed 06/07/25 05:39	Dil Fac
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	6190 <49.7 **Recovery 139 280 Chromatograp	Qualifier S1+ S1+	49.7 49.7 49.7 Limits 70 - 130 70 - 130	mg/Kg	<u>D</u>	06/05/25 15:34 06/05/25 15:34 06/05/25 15:34 Prepared 06/05/25 15:34	06/07/25 05:39 06/07/25 05:39 06/07/25 05:39 Analyzed 06/07/25 05:39	Dil Fa

Client Sample ID: SS02

Date Collected: 06/05/25 11:06

Date Received: 06/06/25 15:30

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0994	U	0.0994	mg/Kg		06/06/25 15:50	06/07/25 00:16	50
Toluene	0.234		0.0994	mg/Kg		06/06/25 15:50	06/07/25 00:16	50
Ethylbenzene	2.31		0.0994	mg/Kg		06/06/25 15:50	06/07/25 00:16	50
m-Xylene & p-Xylene	39.0		0.199	mg/Kg		06/06/25 15:50	06/07/25 00:16	50
o-Xylene	17.9		0.0994	mg/Kg		06/06/25 15:50	06/07/25 00:16	50
Xylenes, Total	56.9		0.199	mg/Kg		06/06/25 15:50	06/07/25 00:16	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	358	S1+	70 - 130			06/06/25 15:50	06/07/25 00:16	50

Eurofins Midland

Lab Sample ID: 880-59043-2

Matrix: Solid

Client: Ensolum Job ID: 880-59043-1 Project/Site: Pygmy 27 Stat SDG: Eddy County

Client Sample ID: SS02 Lab Sample ID: 880-59043-2 Matrix: Solid

Date Collected: 06/05/25 11:06 Date Received: 06/06/25 15:30

Sample Depth: 0.5'

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	94	70 - 130	06/06/25 15:50	06/07/25 00:16	50

Method: TAL SOP Total BTEX - Tot	al BTEX Calculation						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	59.4	0.199	mg/Kg			06/07/25 00:16	1

Method: SW846 8015 NM - Diesel F	Range Organics (DRO) (GC	()					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	7550	49.6	mg/Kg			06/07/25 05:55	1

06/07/25 05:55	:55	1
06/07/25 05:55	:55	1
06/07/25 05:55	:55	1
		06/07/25 05:55

	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	1-Chlorooctane	177	S1+	70 - 130	06/05/25 15:34	06/07/25 05:55	1
	o-Terphenyl	247	S1+	70 - 130	06/05/25 15:34	06/07/25 05:55	1
ſ	_						

Method: EPA 300.0 - Anions, I	on Chromatography - Soluble		
Analyte	Result Qualifier	RL	Unit

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15400	201	mg/Kg		_	06/10/25 10:54	20

Client Sample ID: SS03 Lab Sample ID: 880-59043-3 Date Collected: 06/05/25 11:08 Matrix: Solid

Date Received: 06/06/25 15:30

Sample Depth: 0.5'

 Mathad.	CIMO 4C	0024D	Valatila Ossania	Compounds (GC)
viernoa:	SVVA4n	AUZID .	· voiatile Organic	: Compounds (GC)

Method: 544846 8021B - Volati	letnod: Sw846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Benzene	<0.0998	U	0.0998	mg/Kg		06/06/25 15:50	06/07/25 00:36	50		
Toluene	1.60		0.0998	mg/Kg		06/06/25 15:50	06/07/25 00:36	50		
Ethylbenzene	0.469		0.0998	mg/Kg		06/06/25 15:50	06/07/25 00:36	50		
m-Xylene & p-Xylene	4.93		0.200	mg/Kg		06/06/25 15:50	06/07/25 00:36	50		
o-Xylene	3.39		0.0998	mg/Kg		06/06/25 15:50	06/07/25 00:36	50		
Xylenes, Total	8.32		0.200	mg/Kg		06/06/25 15:50	06/07/25 00:36	50		
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	158	S1+	70 - 130			06/06/25 15:50	06/07/25 00:36	50		
1,4-Difluorobenzene (Surr)	100		70 - 130			06/06/25 15:50	06/07/25 00:36	50		

Г.,					
1,4-Difluorobenzene (Surr)	100	70 - 130	06/06/25 15:50	06/07/25 00:36	50
4-Bromofluorobenzene (Surr)	158 S1+	70 - 130	06/06/25 15:50	06/07/25 00:36	50

wetnoa:	IAL SUP	iotal BIEX -	lotal B I EX	Calculation	П
Analyte			Re	sult Qualifie	er

Analyte	Result	Qualifier	KL	Unit	U	Prepared	Analyzed	DII Fac
Total BTEX	10.4		0.200	mg/Kg			06/07/25 00:36	1

Method: SW846 8015 NM	- Diesel Range	Organics	(DRO) (GC)
mothod. Offoro out of the	Diocol Range	oi gaines	(5.10) (55)

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	13700	250	mg/Kg			06/07/25 06:10	1

Matrix: Solid

Lab Sample ID: 880-59043-3

Job ID: 880-59043-1

Client: Ensolum Project/Site: Pygmy 27 Stat SDG: Eddy County

Client Sample ID: SS03

Date Collected: 06/05/25 11:08 Date Received: 06/06/25 15:30

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	618		250	mg/Kg		06/05/25 15:34	06/07/25 06:10	5
Diesel Range Organics (Over C10-C28)	13100		250	mg/Kg		06/05/25 15:34	06/07/25 06:10	5
Oil Range Organics (Over C28-C36)	<250	U	250	mg/Kg		06/05/25 15:34	06/07/25 06:10	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	193	S1+	70 - 130			06/05/25 15:34	06/07/25 06:10	5
o-Terphenyl	389	S1+	70 - 130			06/05/25 15:34	06/07/25 06:10	5
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
			49.9	mg/Kg			06/10/25 11:02	5

Client Sample ID: SS04 Lab Sample ID: 880-59043-4 Date Collected: 06/05/25 10:38 Matrix: Solid

Date Received: 06/06/25 15:30

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/06/25 15:50	06/06/25 22:13	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/06/25 15:50	06/06/25 22:13	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/06/25 15:50	06/06/25 22:13	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		06/06/25 15:50	06/06/25 22:13	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/06/25 15:50	06/06/25 22:13	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		06/06/25 15:50	06/06/25 22:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130			06/06/25 15:50	06/06/25 22:13	1
1,4-Difluorobenzene (Surr)	100		70 - 130			06/06/25 15:50	06/06/25 22:13	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			06/06/25 22:13	1
Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg			06/07/25 06:26	1
- Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1	mg/Kg		06/05/25 15:34	06/07/25 06:26	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1	mg/Kg		06/05/25 15:34	06/07/25 06:26	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		06/05/25 15:34	06/07/25 06:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130			06/05/25 15:34	06/07/25 06:26	1

Job ID: 880-59043-1

SDG: Eddy County

Lab Sample ID: 880-59043-4

Matrix: Solid

Matrix: Solid

Client Sample ID: SS04

Project/Site: Pygmy 27 Stat

Date Collected: 06/05/25 10:38 Date Received: 06/06/25 15:30

Sample Depth: 0.5'

Client: Ensolum

Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Solubl	е					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	107		10.0	mg/Kg			06/10/25 11:23	1

Client Sample ID: SS04 Lab Sample ID: 880-59043-5

Date Collected: 06/05/25 10:40 Date Received: 06/06/25 15:30

Sample Depth: 1'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		06/06/25 15:50	06/06/25 22:34	1
Toluene	<0.00199	U	0.00199	mg/Kg		06/06/25 15:50	06/06/25 22:34	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		06/06/25 15:50	06/06/25 22:34	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		06/06/25 15:50	06/06/25 22:34	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		06/06/25 15:50	06/06/25 22:34	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		06/06/25 15:50	06/06/25 22:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130			06/06/25 15:50	06/06/25 22:34	1
1,4-Difluorobenzene (Surr)	105		70 - 130			06/06/25 15:50	06/06/25 22:34	1

Method: TAL SOP Total BTEX - Total	al BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			06/06/25 22:34	1

Method: SW846 8015 NM - Diesel F	Range Organi	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg			06/09/25 13:04	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1	mg/Kg		06/06/25 12:43	06/09/25 13:04	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1	mg/Kg		06/06/25 12:43	06/09/25 13:04	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		06/06/25 12:43	06/09/25 13:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130			06/06/25 12:43	06/09/25 13:04	1
o-Terphenyl	116		70 - 130			06/06/25 12:43	06/09/25 13:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
	Analyte	RL	Unit	D	Prepared	Analyzed	Dil Fac		
	Chloride	103		9.96	mg/Kg			06/10/25 11:31	1

Matrix: Solid

Lab Sample ID: 880-59043-6

Client Sample Results

Client: Ensolum Job ID: 880-59043-1 Project/Site: Pygmy 27 Stat SDG: Eddy County

Client Sample ID: SS05

Date Collected: 06/05/25 10:42 Date Received: 06/06/25 15:30

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		06/06/25 15:50	06/06/25 22:54	1
Toluene	< 0.00199	U	0.00199	mg/Kg		06/06/25 15:50	06/06/25 22:54	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		06/06/25 15:50	06/06/25 22:54	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		06/06/25 15:50	06/06/25 22:54	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		06/06/25 15:50	06/06/25 22:54	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		06/06/25 15:50	06/06/25 22:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130			06/06/25 15:50	06/06/25 22:54	1
1,4-Difluorobenzene (Surr)	101		70 - 130			06/06/25 15:50	06/06/25 22:54	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00398	U	0.00398	mg/Kg			06/06/25 22:54	1
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (g/ivg			00,00,20 22.01	
	•	ics (DRO) (G		Unit	D	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH	•	Qualifier	GC)		<u>D</u>	Prepared		Dil Fac
Analyte Total TPH	Result < 50.2	Qualifier U	RL 50.2	Unit	<u>D</u>	Prepared	Analyzed	
Analyte Total TPH Method: SW846 8015B NM - Dies	Result <50.2 sel Range Orga	Qualifier U	RL 50.2	Unit	<u>D</u>	Prepared Prepared	Analyzed	1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result <50.2 sel Range Orga	Qualifier Unics (DRO) Qualifier	RL 50.2	Unit mg/Kg	=		Analyzed 06/09/25 13:51	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.2 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U	SC) RL 50.2 (GC) RL	Unit mg/Kg	=	Prepared	Analyzed 06/09/25 13:51 Analyzed	1 Dil Fac
Analyte	Result <50.2 sel Range Orga Result <50.2	Qualifier U nics (DRO) Qualifier U	(GC) RL 50.2 (GC) RL 50.2	Unit mg/Kg Unit mg/Kg	=	Prepared 06/06/25 12:43	Analyzed 06/09/25 13:51 Analyzed 06/09/25 13:51	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result	Qualifier U nics (DRO) Qualifier U U	GC) RL 50.2 (GC) RL 50.2 50.2	Unit mg/Kg Unit mg/Kg mg/Kg	=	Prepared 06/06/25 12:43 06/06/25 12:43	Analyzed 06/09/25 13:51 Analyzed 06/09/25 13:51 06/09/25 13:51	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	Result	Qualifier U nics (DRO) Qualifier U U	GC) RL 50.2 (GC) RL 50.2 50.2 50.2	Unit mg/Kg Unit mg/Kg mg/Kg	=	Prepared 06/06/25 12:43 06/06/25 12:43	Analyzed 06/09/25 13:51 Analyzed 06/09/25 13:51 06/09/25 13:51	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate	Result	Qualifier U nics (DRO) Qualifier U U	GC) RL 50.2 (GC) RL 50.2 50.2 50.2 Limits	Unit mg/Kg Unit mg/Kg mg/Kg	=	Prepared 06/06/25 12:43 06/06/25 12:43 06/06/25 12:43 Prepared	Analyzed 06/09/25 13:51 Analyzed 06/09/25 13:51 06/09/25 13:51 06/09/25 13:51 Analyzed	Dil Face 1 Dil Face 1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U nics (DRO) Qualifier U U Qualifier	GC) RL 50.2 (GC) RL 50.2 50.2 50.2 Limits 70 - 130 70 - 130	Unit mg/Kg Unit mg/Kg mg/Kg	=	Prepared 06/06/25 12:43 06/06/25 12:43 06/06/25 12:43 Prepared 06/06/25 12:43	Analyzed 06/09/25 13:51 Analyzed 06/09/25 13:51 06/09/25 13:51 Analyzed 06/09/25 13:51	Dil Fac 1 1 Dil Fac 1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U nics (DRO) Qualifier U U Qualifier	GC) RL 50.2 (GC) RL 50.2 50.2 50.2 Limits 70 - 130 70 - 130	Unit mg/Kg Unit mg/Kg mg/Kg	=	Prepared 06/06/25 12:43 06/06/25 12:43 06/06/25 12:43 Prepared 06/06/25 12:43	Analyzed 06/09/25 13:51 Analyzed 06/09/25 13:51 06/09/25 13:51 Analyzed 06/09/25 13:51	1 Dil Fac 1

Client Sample ID: SS05 Lab Sample ID: 880-59043-7

Date Collected: 06/05/25 10:44 Date Received: 06/06/25 15:30

Sample Depth: 1'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/06/25 15:50	06/06/25 23:14	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/06/25 15:50	06/06/25 23:14	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/06/25 15:50	06/06/25 23:14	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		06/06/25 15:50	06/06/25 23:14	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/06/25 15:50	06/06/25 23:14	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		06/06/25 15:50	06/06/25 23:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			06/06/25 15:50	06/06/25 23:14	1

Eurofins Midland

Matrix: Solid

Matrix: Solid

Lab Sample ID: 880-59043-7

Job ID: 880-59043-1

Client: Ensolum Project/Site: Pygmy 27 Stat SDG: Eddy County

Client Sample ID: SS05

Date Collected: 06/05/25 10:44 Date Received: 06/06/25 15:30

Sample Depth: 1'

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

Surrogate	%Recovery (Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	101		70 - 130	06/06/25 15:50	06/06/25 23:14	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			06/06/25 23:14	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			06/09/25 14:09	1

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

		(=::=)	()					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		06/06/25 12:43	06/09/25 14:09	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		06/06/25 12:43	06/09/25 14:09	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/06/25 12:43	06/09/25 14:09	1
Surrogate	%Recovery	Qualifier	l imits			Prenared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	124	70 - 130	06/06/25 12:43	06/09/25 14:09	1
o-Terphenyl	123	70 - 130	06/06/25 12:43	06/09/25 14:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	107		10.0	mg/Kg			06/10/25 11:45	1

Client Sample ID: SS06 Lab Sample ID: 880-59043-8 **Matrix: Solid**

Date Collected: 06/05/25 10:46 Date Received: 06/06/25 15:30

Sample Depth: 0.5'

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

mothod. Office out in	organio comp	ounus (CC)	,					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/06/25 15:50	06/06/25 23:35	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/06/25 15:50	06/06/25 23:35	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/06/25 15:50	06/06/25 23:35	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		06/06/25 15:50	06/06/25 23:35	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/06/25 15:50	06/06/25 23:35	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		06/06/25 15:50	06/06/25 23:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			06/06/25 15:50	06/06/25 23:35	1

4-Bromofluorobenzene (Surr)	108	 70 - 130	06/06/25 15:50	06/06/25 23:35	1
1,4-Difluorobenzene (Surr)	82	70 - 130	06/06/25 15:50	06/06/25 23:35	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00401	U	0.00401	ma/Ka			06/06/25 23:35	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			06/09/25 14:25	1

Job ID: 880-59043-1

SDG: Eddy County

Client Sample ID: SS06

Project/Site: Pygmy 27 Stat

Lab Sample ID: 880-59043-8

Matrix: Solid

Date Collected: 06/05/25 10:46 Date Received: 06/06/25 15:30

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8	mg/Kg		06/06/25 12:43	06/09/25 14:25	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.8	U	49.8	mg/Kg		06/06/25 12:43	06/09/25 14:25	1
C10-C28)								
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		06/06/25 12:43	06/09/25 14:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane			70 - 130			06/06/25 12:43	06/09/25 14:25	1
o-Terphenyl	116		70 - 130			06/06/25 12:43	06/09/25 14:25	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
A I. d -	Pocult	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	ixesuit	Qualifici					· · · · · · · · · · · · · · · · · · ·	

Lab Sample ID: 880-59043-9 **Client Sample ID: SS06** Matrix: Solid

Date Collected: 06/05/25 10:48

Date Received: 06/06/25 15:30

Sample Depth: 1'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/06/25 15:58	06/06/25 18:46	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/06/25 15:58	06/06/25 18:46	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/06/25 15:58	06/06/25 18:46	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		06/06/25 15:58	06/06/25 18:46	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/06/25 15:58	06/06/25 18:46	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		06/06/25 15:58	06/06/25 18:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		S1+	70 - 130			06/06/25 15:58	06/06/25 18:46	1
1,4-Difluorobenzene (Surr)	132	S1+	70 - 130			06/06/25 15:58	06/06/25 18:46	1
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			06/06/25 18:46	1
Mathadi CWO4C 004E NM Diag	I Danna Ornan	: (DDO) (00)					
		, , ,	•	l Init	Ь	Dronovod	Analyzad	Dil Ess
Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH		Qualifier	•	<mark>Unit</mark> mg/Kg	<u>D</u>	Prepared	Analyzed 06/09/25 14:41	Dil Fac
Analyte	Result <50.0	Qualifier U			<u>D</u>	Prepared		
Analyte Total TPH Method: SW846 8015B NM - Die	Result <50.0	Qualifier U			<u>D</u>	Prepared Prepared		
Analyte Total TPH	Result <50.0	Qualifier Unics (DRO) Qualifier	RL 50.0	mg/Kg		<u> </u>	06/09/25 14:41	1
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics	Result sel Range Orga Result 	Qualifier U nics (DRO) Qualifier U	RL 50.0 (GC) RL 50.0	mg/Kg		Prepared 06/06/25 12:43	06/09/25 14:41 Analyzed 06/09/25 14:41	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U	RL	mg/Kg		Prepared	06/09/25 14:41 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result Sel Range Orga Result <50.0 \$50.0 \$50.0	Qualifier U nics (DRO) Qualifier U	RL 50.0 (GC) RL 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 06/06/25 12:43 06/06/25 12:43	06/09/25 14:41 Analyzed 06/09/25 14:41 06/09/25 14:41	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte	Result sel Range Orga Result 	Qualifier U nics (DRO) Qualifier U	RL 50.0 (GC) RL 50.0	mg/Kg Unit mg/Kg		Prepared 06/06/25 12:43	06/09/25 14:41 Analyzed 06/09/25 14:41	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	Result	Qualifier U nics (DRO) Qualifier U U	RL 50.0 (GC) RL 50.0 50.0 50.0 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 06/06/25 12:43 06/06/25 12:43 06/06/25 12:43 Prepared	Analyzed 06/09/25 14:41 06/09/25 14:41 06/09/25 14:41 Analyzed	1 Dil Fac 1 1
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result	Qualifier U nics (DRO) Qualifier U U	RL 50.0 (GC) RL 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 06/06/25 12:43 06/06/25 12:43	06/09/25 14:41 Analyzed 06/09/25 14:41 06/09/25 14:41	Dil Fac

Job ID: 880-59043-1

SDG: Eddy County

Client Sample ID: SS06

Project/Site: Pygmy 27 Stat

Date Collected: 06/05/25 10:48 Date Received: 06/06/25 15:30

Sample Depth: 1'

Client: Ensolum

Lab Sample ID: 880-59043-9

Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
	Chloride	105	F1	10.1	mg/Kg			06/10/25 14:12	1	

Client Sample ID: SS07 Lab Sample ID: 880-59043-10 Matrix: Solid

Date Collected: 06/05/25 10:50 Date Received: 06/06/25 15:30

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00201	U	0.00201	mg/Kg		06/06/25 15:58	06/06/25 19:06	
Toluene	<0.00201	U	0.00201	mg/Kg		06/06/25 15:58	06/06/25 19:06	
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		06/06/25 15:58	06/06/25 19:06	
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		06/06/25 15:58	06/06/25 19:06	
o-Xylene	<0.00201	U	0.00201	mg/Kg		06/06/25 15:58	06/06/25 19:06	
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		06/06/25 15:58	06/06/25 19:06	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	121		70 - 130			06/06/25 15:58	06/06/25 19:06	
1,4-Difluorobenzene (Surr)	111		70 - 130			06/06/25 15:58	06/06/25 19:06	
· Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00402	U	0.00402	mg/Kg			06/06/25 19:06	
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)					
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<50.0	U	50.0	mg/Kg			06/09/25 14:57	
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		06/06/25 12:43	06/09/25 14:57	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/06/25 12:43	06/09/25 14:57	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/06/25 12:43	06/09/25 14:57	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	120		70 - 130			06/06/25 12:43	06/09/25 14:57	
o-Terphenyl	119		70 - 130			06/06/25 12:43	06/09/25 14:57	
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	78.9		10.1	mg/Kg			06/10/25 14:34	

Client Sample Results

Client: Ensolum Job ID: 880-59043-1 Project/Site: Pygmy 27 Stat SDG: Eddy County

Client Sample ID: SS07

Lab Sample ID: 880-59043-11 Date Collected: 06/05/25 10:52

Matrix: Solid

Date Received: 06/06/25 15:30 Sample Depth: 1'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		06/06/25 15:58	06/06/25 19:27	1
Toluene	<0.00202	U	0.00202	mg/Kg		06/06/25 15:58	06/06/25 19:27	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		06/06/25 15:58	06/06/25 19:27	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		06/06/25 15:58	06/06/25 19:27	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		06/06/25 15:58	06/06/25 19:27	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		06/06/25 15:58	06/06/25 19:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130			06/06/25 15:58	06/06/25 19:27	1
1,4-Difluorobenzene (Surr)	110		70 - 130			06/06/25 15:58	06/06/25 19:27	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	ulation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			06/06/25 19:27	
			GC)					
Analyte	Result	Qualifier	GC)	Unit	<u>D</u>	Prepared	Analyzed	
		Qualifier	GC)		<u>D</u>	Prepared	Analyzed 06/09/25 15:13	
Analyte Total TPH	Result <50.1	Qualifier U	RL 50.1	Unit	<u>D</u>	Prepared		
Analyte Total TPH	Result <50.1 sel Range Orga	Qualifier U	RL 50.1	Unit	<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result <50.1 sel Range Orga	Qualifier Unics (DRO) Qualifier	RL 50.1	Unit mg/Kg		· ·	06/09/25 15:13	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.1 sel Range Orga	Qualifier U nics (DRO) Qualifier U	(GC) RL RL	Unit mg/Kg		Prepared	06/09/25 15:13 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.1 sel Range Orga Result <50.1	Qualifier U nics (DRO) Qualifier U	(GC) RL 50.1 (GC) RL 50.1	Unit mg/Kg Unit mg/Kg		Prepared 06/06/25 12:43	06/09/25 15:13 Analyzed 06/09/25 15:13	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.1	Qualifier U nics (DRO) Qualifier U U	GC) RL 50.1 (GC) RL 50.1 50.1	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 06/06/25 12:43 06/06/25 12:43	06/09/25 15:13 Analyzed 06/09/25 15:13 06/09/25 15:13	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	Result <50.1	Qualifier U nics (DRO) Qualifier U U	GC) RL 50.1 (GC) RL 50.1 50.1 50.1	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 06/06/25 12:43 06/06/25 12:43	06/09/25 15:13 Analyzed 06/09/25 15:13 06/09/25 15:13 06/09/25 15:13	Dil Face 1 1 Dil Face
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate	Result <50.1	Qualifier U nics (DRO) Qualifier U U	GC) RL 50.1 (GC) RL 50.1 50.1 Limits	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 06/06/25 12:43 06/06/25 12:43 06/06/25 12:43 Prepared	Analyzed 06/09/25 15:13 Analyzed 06/09/25 15:13 06/09/25 15:13 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result <50.1	Qualifier U nics (DRO) Qualifier U U Qualifier	GC) RL 50.1 (GC) RL 50.1 50.1 50.1 40.1 Limits 70 - 130 70 - 130	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 06/06/25 12:43 06/06/25 12:43 06/06/25 12:43 Prepared 06/06/25 12:43	Analyzed 06/09/25 15:13 06/09/25 15:13 06/09/25 15:13 Analyzed 06/09/25 15:13	Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <50.1	Qualifier U nics (DRO) Qualifier U U Qualifier	GC) RL 50.1 (GC) RL 50.1 50.1 50.1 40.1 Limits 70 - 130 70 - 130	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 06/06/25 12:43 06/06/25 12:43 06/06/25 12:43 Prepared 06/06/25 12:43	Analyzed 06/09/25 15:13 06/09/25 15:13 06/09/25 15:13 Analyzed 06/09/25 15:13	Dil Fac Dil Fac 1 Dil Fac 1 Dil Fac 1 Dil Fac 1 Dil Fac

Surrogate Summary

Client: Ensolum Job ID: 880-59043-1 Project/Site: Pygmy 27 Stat SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-59043-1	SS01	96	103
880-59043-2	SS02	358 S1+	94
880-59043-3	SS03	158 S1+	100
880-59043-4	SS04	106	100
880-59043-5	SS04	97	105
880-59043-6	SS05	97	101
880-59043-7	SS05	101	101
880-59043-8	SS06	108	82
880-59043-9	SS06	177 S1+	132 S1+
880-59043-9 MS	SS06	108	101
880-59043-9 MSD	SS06	110	99
880-59043-10	SS07	121	111
880-59043-11	SS07	123	110
LCS 880-111701/1-A	Lab Control Sample	97	102
LCS 880-111715/1-A	Lab Control Sample	98	98
LCSD 880-111701/2-A	Lab Control Sample Dup	101	100
LCSD 880-111715/2-A	Lab Control Sample Dup	105	98
MB 880-111701/5-A	Method Blank	89	95
MB 880-111715/5-A	Method Blank	208 S1+	125
Surrogate Legend			

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (
		1CO1	OTPH1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-59043-1	SS01	139 S1+	280 S1+	
880-59043-2	SS02	177 S1+	247 S1+	
880-59043-3	SS03	193 S1+	389 S1+	
880-59043-4	SS04	116	118	
880-59043-5	SS04	122	116	
880-59043-5 MS	SS04	109	114	
880-59043-5 MSD	SS04	110	115	
880-59043-6	SS05	119	118	
880-59043-7	SS05	124	123	
880-59043-8	SS06	118	116	
880-59043-9	SS06	125	127	
880-59043-10	SS07	120	119	
880-59043-11	SS07	120	121	
LCS 880-111637/2-A	Lab Control Sample	101	98	
LCS 880-111692/2-A	Lab Control Sample	100	108	
LCSD 880-111637/3-A	Lab Control Sample Dup	103	99	
LCSD 880-111692/3-A	Lab Control Sample Dup	105	110	
MB 880-111637/1-A	Method Blank	83	87	
MB 880-111692/1-A	Method Blank	84	83	

Surrogate Summary

Client: Ensolum

Project/Site: Pygmy 27 Stat 1CO = 1-Chlorooctane OTPH = o-Terphenyl

Job ID: 880-59043-1 SDG: Eddy County

Job ID: 880-59043-1

SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-111701/5-A

Lab Sample ID: LCS 880-111701/1-A

Analysis Batch: 111642

Matrix: Solid

Matrix: Solid

Analysis Batch: 111642

Project/Site: Pygmy 27 Stat

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 111701

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/06/25 14:31	06/06/25 16:33	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/06/25 14:31	06/06/25 16:33	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/06/25 14:31	06/06/25 16:33	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/06/25 14:31	06/06/25 16:33	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/06/25 14:31	06/06/25 16:33	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/06/25 14:31	06/06/25 16:33	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	06/06/25 14:31	06/06/25 16:33	1
1,4-Difluorobenzene (Surr)	95		70 - 130	06/06/25 14:31	06/06/25 16:33	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 111701

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1139 mg/Kg 114 70 - 130 Toluene 0.100 0.09834 mg/Kg 98 70 - 130 0.100 Ethylbenzene 0.1050 mg/Kg 105 70 - 130 0.200 0.2108 105 70 - 130 m-Xylene & p-Xylene mg/Kg 0.100 0.1060 106 70 - 130 o-Xylene mg/Kg

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 111642

Lab Sample ID: LCSD 880-111701/2-A

Prep Type: Total/NA **Prep Batch: 111701**

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1131		mg/Kg		113	70 - 130	1	35
Toluene	0.100	0.09681		mg/Kg		97	70 - 130	2	35
Ethylbenzene	0.100	0.1025		mg/Kg		103	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2058		mg/Kg		103	70 - 130	2	35
o-Xylene	0.100	0.1035		mg/Kg		104	70 - 130	2	35

LCSD LCSD

Surrogate	%Recovery Qualified	r Limits
4-Bromofluorobenzene (Surr)	101	70 - 130
1 4-Difluorobenzene (Surr)	100	70 - 130

Lab Sample ID: MB 880-111715/5-A

Matrix: Solid

Analysis Batch: 111645

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 111715

	IND	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/06/25 15:58	06/06/25 18:17	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/06/25 15:58	06/06/25 18:17	1

QC Sample Results

Client: Ensolum Job ID: 880-59043-1 SDG: Eddy County Project/Site: Pygmy 27 Stat

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

Lab Sample ID: MB 880-111715/5-A

Matrix: Solid

Analysis Batch: 111645

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 111715

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/06/25 15:58	06/06/25 18:17	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/06/25 15:58	06/06/25 18:17	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/06/25 15:58	06/06/25 18:17	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/06/25 15:58	06/06/25 18:17	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	208	S1+	70 - 130	06/06/25 15:58	06/06/25 18:17	1
1,4-Difluorobenzene (Surr)	125		70 - 130	06/06/25 15:58	06/06/25 18:17	1

Lab Sample ID: LCS 880-111715/1-A

Matrix: Solid

Analysis Batch: 111645

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 111715

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09670		mg/Kg		97	70 - 130	
Toluene	0.100	0.09396		mg/Kg		94	70 - 130	
Ethylbenzene	0.100	0.09572		mg/Kg		96	70 - 130	
m-Xylene & p-Xylene	0.200	0.1981		mg/Kg		99	70 - 130	
o-Xylene	0.100	0.1138		mg/Kg		114	70 - 130	

LCS LCS

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

Lab Sample ID: LCSD 880-111715/2-A

Matrix: Solid

Analysis Batch: 111645

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 111715

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1010		mg/Kg		101	70 - 130	4	35
Toluene	0.100	0.09780		mg/Kg		98	70 - 130	4	35
Ethylbenzene	0.100	0.1046		mg/Kg		105	70 - 130	9	35
m-Xylene & p-Xylene	0.200	0.2076		mg/Kg		104	70 - 130	5	35
o-Xylene	0.100	0.1198		mg/Kg		120	70 - 130	5	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 880-59043-9 MS

Matrix: Solid

Analysis Batch: 111645

Client Sample ID: SS06

Prep Type: Total/NA

Prep Batch: 111715

	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	<0.00200	U	0.100	0.08750		mg/Kg		88	70 - 130
Toluene	<0.00200	U	0.100	0.09294		mg/Kg		93	70 - 130
Ethylbenzene	<0.00200	U	0.100	0.08937		mg/Kg		89	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2051		mg/Kg		103	70 - 130

Eurofins Midland

Released to Imaging: 11/18/2025 10:28:51 AM

QC Sample Results

Client: Ensolum Job ID: 880-59043-1 Project/Site: Pygmy 27 Stat SDG: Eddy County

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

Lab Sample ID: 880-59043-9 MS Client Sample ID: SS06 **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 111645 **Prep Batch: 111715**

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
o-Xylene	<0.00200	U	0.100	0.1193		mg/Kg		119	70 - 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 880-59043-9 MSD **Client Sample ID: SS06 Matrix: Solid** Prep Type: Total/NA **Prep Batch: 111715**

Analysis Batch: 111645

-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.100	0.1025		mg/Kg		102	70 - 130	16	35
Toluene	<0.00200	U	0.100	0.09173		mg/Kg		92	70 - 130	1	35
Ethylbenzene	<0.00200	U	0.100	0.1049		mg/Kg		105	70 - 130	16	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2255		mg/Kg		113	70 - 130	9	35
o-Xylene	<0.00200	U	0.100	0.1270		mg/Kg		127	70 - 130	6	35

MSD MSD Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 110 70 - 130

1,4-Difluorobenzene (Surr) 99 70 - 130

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

Lab Sample ID: MB 880-111637/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 111716 Prep Batch: 111637

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		06/05/25 15:34	06/07/25 00:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/05/25 15:34	06/07/25 00:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/05/25 15:34	06/07/25 00:04	1

	МВ	МВ				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130	06/05/25 15:34	06/07/25 00:04	1
o-Terphenvl	87		70 - 130	06/05/25 15:34	06/07/25 00:04	1

Lab Sample ID: LCS 880-111637/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid Prep Type: Total/NA Analysis Batch: 111716 Prep Batch: 111637

	Spike	LCS	LCS				%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics	1000	981.5		mg/Kg	_	98	70 - 130	 	
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	866.0		mg/Kg		87	70 - 130		
C10-C28)									

Job ID: 880-59043-1

SDG: Eddy County

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

Lab Sample ID: LCS 880-111637/2-A

Lab Sample ID: MB 880-111692/1-A

Matrix: Solid

Analysis Batch: 111786

Matrix: Solid

Analysis Batch: 111716

Project/Site: Pygmy 27 Stat

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 111637

LCS LCS

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 101 70 - 130 o-Terphenyl 98 70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 111637

Lab Sample ID: LCSD 880-111637/3-A **Matrix: Solid** Analysis Batch: 111716

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 1000 999.9 100 70 - 1302 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 878.3 88 mg/Kg 70 - 13020 C10-C28)

LCSD LCSD

Surrogate %Recovery Qualifier Limits 103 70 - 130 1-Chlorooctane 99 70 - 130 o-Terphenyl

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 111692

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Gasoline Range Organics <50.0 U 50.0 mg/Kg 06/06/25 12:42 06/09/25 09:35 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 06/06/25 12:42 06/09/25 09:35 C10-C28) Oil Range Organics (Over C28-C36) <50.0 U 50.0 06/06/25 12:42 06/09/25 09:35 mg/Kg

MB MB

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 70 - 130 1-Chlorooctane 84 06/06/25 12:42 06/09/25 09:35 06/06/25 12:42 83 70 - 130 o-Terphenyl 06/09/25 09:35

Lab Sample ID: LCS 880-111692/2-A Client Sample ID: Lab Control Sample

Matrix: Solid Prep Type: Total/NA Analysis Batch: 111786 **Prep Batch: 111692**

Spike LCS LCS %Rec Added Result Qualifier Unit %Rec Limits Analyte D 1000 Gasoline Range Organics 916.9 70 - 130 mg/Kg 92 (GRO)-C6-C10 1000 1036 104 70 - 130 Diesel Range Organics (Over mg/Kg

C10-C28)

LCS LCS

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	100	70 - 130
o-Terphenyl	108	70 - 130

Client: Ensolum Job ID: 880-59043-1 SDG: Eddy County Project/Site: Pygmy 27 Stat

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

Lab Sample ID: LCSD 880-111692/3-A

Matrix: Solid

Analysis Batch: 111786

Client	Sample	ID:	Lab	Control	Sample	Dup

Prep Type: Total/NA

Prep Batch: 111692

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	961.1		mg/Kg		96	70 - 130	5	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	1075		mg/Kg		107	70 - 130	4	20
C10-C28)									

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	110		70 - 130

Lab Sample ID: 880-59043-5 MS Client Sample ID: SS04 Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 111786

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	999	758.5		mg/Kg		76	70 - 130	
Diesel Range Organics (Over C10-C28)	<50.1	U	999	876.3		mg/Kg		88	70 - 130	

MS MS

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	109	70 - 130
o-Terphenyl	114	70 - 130

Lab Sample ID: 880-59043-5 MSD

Matrix: Solid

Analysis Batch: 111786

Client Sample ID: SS04	
Prep Type: Total/NA	

Prep Batch: 111692

Prep Batch: 111692

		Sample	Sample	Spike	MSD	MSD				%Rec		RPD
	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
	Gasoline Range Organics	<50.1	U	999	787.5		mg/Kg		79	70 - 130	4	20
	(GRO)-C6-C10											
	Diesel Range Organics (Over	<50.1	U	999	879.5		mg/Kg		88	70 - 130	0	20
П	C40 C20\											

C10-C28)

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	110		70 - 130
o-Terphenyl	115		70 - 130

MD MD

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-111735/1-A

Matrix: Solid

Analysis Batch: 111818

Client	Sample ID:	Method	Blank
	Dron	Tuno. C	ملطيناه

Prep Type: Soluble

	IND	111.0						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0	mg/Kg			06/10/25 08:29	1

Job ID: 880-59043-1

Client: Ensolum Project/Site: Pygmy 27 Stat SDG: Eddy County

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-111735/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 111818

	Spike	LCS	LCS				%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	250	260.1		mg/Kg		104	90 - 110		

Lab Sample ID: LCSD 880-111735/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 111818

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	261.6		mg/Kg		105	90 - 110	1	20

Lab Sample ID: 880-59043-1 MS **Client Sample ID: SS01** Matrix: Solid **Prep Type: Soluble**

Analysis Batch: 111818

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	5740		1260	6703	4	mg/Kg		76	90 - 110	

Lab Sample ID: 880-59043-1 MSD Client Sample ID: SS01 **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 111818

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	5740		1260	6819	4	mg/Kg		85	90 - 110	2	20

Lab Sample ID: MB 880-111736/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 111866

мв мв

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0	mg/Kg			06/10/25 13:50	1

Lab Sample ID: LCS 880-111736/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 111866

		Spike	LCS	LCS				%Rec	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride		250	266.9		mg/Kg		107	90 - 110	

Lab Sample ID: LCSD 880-111736/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 111866

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	265.4		mg/Kg		106	90 - 110	1	20	

Lab Sample ID: 880-59043-9 MS **Client Sample ID: SS06 Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 111866										
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	105	F1	252	403.9	F1	mg/Kg		119	90 - 110	 _

QC Sample Results

Client: Ensolum Job ID: 880-59043-1 Project/Site: Pygmy 27 Stat SDG: Eddy County

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-59043-9 MSD Client Sample ID: SS06 **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 111866

•	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	105	F1	252	404.5	F1	mg/Kg		119	90 - 110	0	20

Client: Ensolum

Project/Site: Pygmy 27 Stat

Job ID: 880-59043-1 SDG: Eddy County

GC VOA

Analysis Batch: 111642

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59043-1	SS01	Total/NA	Solid	8021B	111701
880-59043-2	SS02	Total/NA	Solid	8021B	111701
880-59043-3	SS03	Total/NA	Solid	8021B	111701
880-59043-4	SS04	Total/NA	Solid	8021B	111701
880-59043-5	SS04	Total/NA	Solid	8021B	111701
880-59043-6	SS05	Total/NA	Solid	8021B	111701
880-59043-7	SS05	Total/NA	Solid	8021B	111701
880-59043-8	SS06	Total/NA	Solid	8021B	111701
MB 880-111701/5-A	Method Blank	Total/NA	Solid	8021B	111701
LCS 880-111701/1-A	Lab Control Sample	Total/NA	Solid	8021B	111701
LCSD 880-111701/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	111701

Analysis Batch: 111645

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59043-9	SS06	Total/NA	Solid	8021B	111715
880-59043-10	SS07	Total/NA	Solid	8021B	111715
880-59043-11	SS07	Total/NA	Solid	8021B	111715
MB 880-111715/5-A	Method Blank	Total/NA	Solid	8021B	111715
LCS 880-111715/1-A	Lab Control Sample	Total/NA	Solid	8021B	111715
LCSD 880-111715/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	111715
880-59043-9 MS	SS06	Total/NA	Solid	8021B	111715
880-59043-9 MSD	SS06	Total/NA	Solid	8021B	111715

Prep Batch: 111701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59043-1	SS01	Total/NA	Solid	5035	
880-59043-2	SS02	Total/NA	Solid	5035	
880-59043-3	SS03	Total/NA	Solid	5035	
880-59043-4	SS04	Total/NA	Solid	5035	
880-59043-5	SS04	Total/NA	Solid	5035	
880-59043-6	SS05	Total/NA	Solid	5035	
880-59043-7	SS05	Total/NA	Solid	5035	
880-59043-8	SS06	Total/NA	Solid	5035	
MB 880-111701/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-111701/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-111701/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 111715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
880-59043-9	SS06	Total/NA	Solid	5035	
880-59043-10	SS07	Total/NA	Solid	5035	
880-59043-11	SS07	Total/NA	Solid	5035	
MB 880-111715/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-111715/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-111715/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-59043-9 MS	SS06	Total/NA	Solid	5035	
880-59043-9 MSD	SS06	Total/NA	Solid	5035	

Analysis Batch: 111819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59043-1	SS01	Total/NA	Solid	Total BTEX	

Client: Ensolum

Project/Site: Pygmy 27 Stat

Job ID: 880-59043-1 SDG: Eddy County

GC VOA (Continued)

Analysis Batch: 111819 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59043-2	SS02	Total/NA	Solid	Total BTEX	
880-59043-3	SS03	Total/NA	Solid	Total BTEX	
880-59043-4	SS04	Total/NA	Solid	Total BTEX	
880-59043-5	SS04	Total/NA	Solid	Total BTEX	
880-59043-6	SS05	Total/NA	Solid	Total BTEX	
880-59043-7	SS05	Total/NA	Solid	Total BTEX	
880-59043-8	SS06	Total/NA	Solid	Total BTEX	
880-59043-9	SS06	Total/NA	Solid	Total BTEX	
880-59043-10	SS07	Total/NA	Solid	Total BTEX	
880-59043-11	SS07	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 111637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59043-1	SS01	Total/NA	Solid	8015NM Prep	
880-59043-2	SS02	Total/NA	Solid	8015NM Prep	
880-59043-3	SS03	Total/NA	Solid	8015NM Prep	
880-59043-4	SS04	Total/NA	Solid	8015NM Prep	
MB 880-111637/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-111637/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-111637/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 111692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59043-5	SS04	Total/NA	Solid	8015NM Prep	
880-59043-6	SS05	Total/NA	Solid	8015NM Prep	
880-59043-7	SS05	Total/NA	Solid	8015NM Prep	
880-59043-8	SS06	Total/NA	Solid	8015NM Prep	
880-59043-9	SS06	Total/NA	Solid	8015NM Prep	
880-59043-10	SS07	Total/NA	Solid	8015NM Prep	
880-59043-11	SS07	Total/NA	Solid	8015NM Prep	
MB 880-111692/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-111692/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-111692/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-59043-5 MS	SS04	Total/NA	Solid	8015NM Prep	
880-59043-5 MSD	SS04	Total/NA	Solid	8015NM Prep	

Analysis Batch: 111716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59043-1	SS01	Total/NA	Solid	8015B NM	111637
880-59043-2	SS02	Total/NA	Solid	8015B NM	111637
880-59043-3	SS03	Total/NA	Solid	8015B NM	111637
880-59043-4	SS04	Total/NA	Solid	8015B NM	111637
MB 880-111637/1-A	Method Blank	Total/NA	Solid	8015B NM	111637
LCS 880-111637/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	111637
LCSD 880-111637/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	111637

Analysis Batch: 111786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59043-5	SS04	Total/NA	Solid	8015B NM	111692

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Client: Ensolum

Project/Site: Pygmy 27 Stat

Job ID: 880-59043-1 SDG: Eddy County

GC Semi VOA (Continued)

Analysis	Batch:	111786	(Continued)
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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59043-6	SS05	Total/NA	Solid	8015B NM	111692
880-59043-7	SS05	Total/NA	Solid	8015B NM	111692
880-59043-8	SS06	Total/NA	Solid	8015B NM	111692
880-59043-9	SS06	Total/NA	Solid	8015B NM	111692
880-59043-10	SS07	Total/NA	Solid	8015B NM	111692
880-59043-11	SS07	Total/NA	Solid	8015B NM	111692
MB 880-111692/1-A	Method Blank	Total/NA	Solid	8015B NM	111692
LCS 880-111692/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	111692
LCSD 880-111692/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	111692
880-59043-5 MS	SS04	Total/NA	Solid	8015B NM	111692
880-59043-5 MSD	SS04	Total/NA	Solid	8015B NM	111692

Analysis Batch: 111808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59043-1	SS01	Total/NA	Solid	8015 NM	
880-59043-2	SS02	Total/NA	Solid	8015 NM	
880-59043-3	SS03	Total/NA	Solid	8015 NM	
880-59043-4	SS04	Total/NA	Solid	8015 NM	
880-59043-5	SS04	Total/NA	Solid	8015 NM	
880-59043-6	SS05	Total/NA	Solid	8015 NM	
880-59043-7	SS05	Total/NA	Solid	8015 NM	
880-59043-8	SS06	Total/NA	Solid	8015 NM	
880-59043-9	SS06	Total/NA	Solid	8015 NM	
880-59043-10	SS07	Total/NA	Solid	8015 NM	
880-59043-11	SS07	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 111735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59043-1	SS01	Soluble	Solid	DI Leach	_
880-59043-2	SS02	Soluble	Solid	DI Leach	
880-59043-3	SS03	Soluble	Solid	DI Leach	
880-59043-4	SS04	Soluble	Solid	DI Leach	
880-59043-5 SS04		Soluble	Solid	DI Leach	
880-59043-6	SS05	Soluble	Solid	DI Leach	
880-59043-7	SS05	Soluble	Solid	DI Leach	
880-59043-8	SS06	Soluble	Solid	DI Leach	
MB 880-111735/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-111735/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-111735/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-59043-1 MS	SS01	Soluble	Solid	DI Leach	
880-59043-1 MSD	SS01	Soluble	Solid	DI Leach	

Leach Batch: 111736

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59043-9	SS06	Soluble	Solid	DI Leach	
880-59043-10	SS07	Soluble	Solid	DI Leach	
880-59043-11	SS07	Soluble	Solid	DI Leach	
MB 880-111736/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-111736/2-A	Lab Control Sample	Soluble	Solid	DI Leach	

Client: Ensolum

Project/Site: Pygmy 27 Stat

Job ID: 880-59043-1 SDG: Eddy County

/ County

HPLC/IC (Continued)

Leach Batch: 111736 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-111736/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-59043-9 MS	SS06	Soluble	Solid	DI Leach	
880-59043-9 MSD	SS06	Soluble	Solid	DI Leach	

Analysis Batch: 111818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59043-1	SS01	Soluble	Solid	300.0	111735
880-59043-2	SS02	Soluble	Solid	300.0	111735
880-59043-3	SS03	Soluble	Solid	300.0	111735
880-59043-4	SS04	Soluble	Solid	300.0	111735
880-59043-5	SS04	Soluble	Solid	300.0	111735
880-59043-6	SS05	Soluble	Solid	300.0	111735
880-59043-7	SS05	Soluble	Solid	300.0	111735
880-59043-8	SS06	Soluble	Solid	300.0	111735
MB 880-111735/1-A	Method Blank	Soluble	Solid	300.0	111735
LCS 880-111735/2-A	Lab Control Sample	Soluble	Solid	300.0	111735
LCSD 880-111735/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	111735
880-59043-1 MS	SS01	Soluble	Solid	300.0	111735
880-59043-1 MSD	SS01	Soluble	Solid	300.0	111735

Analysis Batch: 111866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59043-9	SS06	Soluble	Solid	300.0	111736
880-59043-10	SS07	Soluble	Solid	300.0	111736
880-59043-11	SS07	Soluble	Solid	300.0	111736
MB 880-111736/1-A	Method Blank	Soluble	Solid	300.0	111736
LCS 880-111736/2-A	Lab Control Sample	Soluble	Solid	300.0	111736
LCSD 880-111736/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	111736
880-59043-9 MS	SS06	Soluble	Solid	300.0	111736
880-59043-9 MSD	SS06	Soluble	Solid	300.0	111736

Project/Site: Pygmy 27 Stat **Client Sample ID: SS01** Job ID: 880-59043-1 SDG: Eddy County

Lab Sample ID: 880-59043-1

Matrix: Solid

Date Collected: 06/05/25 11:04 Date Received: 06/06/25 15:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			111701	MNR	EET MID	06/06/25 15:50
Total/NA	Analysis	8021B		50	111642	MNR	EET MID	06/06/25 23:55
Total/NA	Analysis	Total BTEX		1	111819	SM	EET MID	06/06/25 23:55
Total/NA	Analysis	8015 NM		1	111808	SM	EET MID	06/07/25 05:39
Total/NA	Prep	8015NM Prep			111637	FC	EET MID	06/05/25 15:34
Total/NA	Analysis	8015B NM		1	111716	TKC	EET MID	06/07/25 05:39
Soluble	Leach	DI Leach			111735	SMC	EET MID	06/07/25 14:08
Soluble	Analysis	300.0		5	111818	CH	EET MID	06/10/25 10:33

Client Sample ID: SS02 Lab Sample ID: 880-59043-2

Date Collected: 06/05/25 11:06 Matrix: Solid

Date Received: 06/06/25 15:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			111701	MNR	EET MID	06/06/25 15:50
Total/NA	Analysis	8021B		50	111642	MNR	EET MID	06/07/25 00:16
Total/NA	Analysis	Total BTEX		1	111819	SM	EET MID	06/07/25 00:16
Total/NA	Analysis	8015 NM		1	111808	SM	EET MID	06/07/25 05:55
Total/NA	Prep	8015NM Prep			111637	FC	EET MID	06/05/25 15:34
Total/NA	Analysis	8015B NM		1	111716	TKC	EET MID	06/07/25 05:55
Soluble	Leach	DI Leach			111735	SMC	EET MID	06/07/25 14:08
Soluble	Analysis	300.0		20	111818	CH	EET MID	06/10/25 10:54

Client Sample ID: SS03 Lab Sample ID: 880-59043-3

Date Collected: 06/05/25 11:08 **Matrix: Solid** Date Received: 06/06/25 15:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			111701	MNR	EET MID	06/06/25 15:50
Total/NA	Analysis	8021B		50	111642	MNR	EET MID	06/07/25 00:36
Total/NA	Analysis	Total BTEX		1	111819	SM	EET MID	06/07/25 00:36
Total/NA	Analysis	8015 NM		1	111808	SM	EET MID	06/07/25 06:10
Total/NA	Prep	8015NM Prep			111637	FC	EET MID	06/05/25 15:34
Total/NA	Analysis	8015B NM		5	111716	TKC	EET MID	06/07/25 06:10
Soluble	Leach	DI Leach			111735	SMC	EET MID	06/07/25 14:08
Soluble	Analysis	300.0		5	111818	CH	EET MID	06/10/25 11:02

Client Sample ID: SS04 Lab Sample ID: 880-59043-4

Date Collected: 06/05/25 10:38 **Matrix: Solid** Date Received: 06/06/25 15:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			111701	MNR	EET MID	06/06/25 15:50
Total/NA	Analysis	8021B		1	111642	MNR	EET MID	06/06/25 22:13
Total/NA	Analysis	Total BTEX		1	111819	SM	EET MID	06/06/25 22:13

Job ID: 880-59043-1 Project/Site: Pygmy 27 Stat SDG: Eddy County

Client Sample ID: SS04

Date Collected: 06/05/25 10:38 Date Received: 06/06/25 15:30 Lab Sample ID: 880-59043-4

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8015 NM		1	111808	SM	EET MID	06/07/25 06:26
Total/NA	Prep	8015NM Prep			111637	FC	EET MID	06/05/25 15:34
Total/NA	Analysis	8015B NM		1	111716	TKC	EET MID	06/07/25 06:26
Soluble	Leach	DI Leach			111735	SMC	EET MID	06/07/25 14:08
Soluble	Analysis	300.0		1	111818	CH	EET MID	06/10/25 11:23

Client Sample ID: SS04 Lab Sample ID: 880-59043-5 **Matrix: Solid**

Date Collected: 06/05/25 10:40 Date Received: 06/06/25 15:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			111701	MNR	EET MID	06/06/25 15:50
Total/NA	Analysis	8021B		1	111642	MNR	EET MID	06/06/25 22:34
Total/NA	Analysis	Total BTEX		1	111819	SM	EET MID	06/06/25 22:34
Total/NA	Analysis	8015 NM		1	111808	SM	EET MID	06/09/25 13:04
Total/NA	Prep	8015NM Prep			111692	FC	EET MID	06/06/25 12:43
Total/NA	Analysis	8015B NM		1	111786	TKC	EET MID	06/09/25 13:04
Soluble	Leach	DI Leach			111735	SMC	EET MID	06/07/25 14:08
Soluble	Analysis	300.0		1	111818	CH	EET MID	06/10/25 11:31

Client Sample ID: SS05 Lab Sample ID: 880-59043-6

Date Collected: 06/05/25 10:42 Date Received: 06/06/25 15:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			111701	MNR	EET MID	06/06/25 15:50
Total/NA	Analysis	8021B		1	111642	MNR	EET MID	06/06/25 22:54
Total/NA	Analysis	Total BTEX		1	111819	SM	EET MID	06/06/25 22:54
Total/NA	Analysis	8015 NM		1	111808	SM	EET MID	06/09/25 13:51
Total/NA	Prep	8015NM Prep			111692	FC	EET MID	06/06/25 12:43
Total/NA	Analysis	8015B NM		1	111786	TKC	EET MID	06/09/25 13:51
Soluble	Leach	DI Leach			111735	SMC	EET MID	06/07/25 14:08
Soluble	Analysis	300.0		1	111818	CH	EET MID	06/10/25 11:38

Lab Sample ID: 880-59043-7 **Client Sample ID: SS05**

Date Collected: 06/05/25 10:44 Date Received: 06/06/25 15:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			111701	MNR	EET MID	06/06/25 15:50
Total/NA	Analysis	8021B		1	111642	MNR	EET MID	06/06/25 23:14
Total/NA	Analysis	Total BTEX		1	111819	SM	EET MID	06/06/25 23:14
Total/NA	Analysis	8015 NM		1	111808	SM	EET MID	06/09/25 14:09
Total/NA	Prep	8015NM Prep			111692	FC	EET MID	06/06/25 12:43
Total/NA	Analysis	8015B NM		1	111786	TKC	EET MID	06/09/25 14:09

Eurofins Midland

Matrix: Solid

Matrix: Solid

Project/Site: Pygmy 27 Stat

Job ID: 880-59043-1 SDG: Eddy County

Client Sample ID: SS05

Lab Sample ID: 880-59043-7

Matrix: Solid

Date Collected: 06/05/25 10:44 Date Received: 06/06/25 15:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Soluble	Leach	DI Leach			111735	SMC	EET MID	06/07/25 14:08
Soluble	Analysis	300.0		1	111818	CH	EET MID	06/10/25 11:45

Lab Sample ID: 880-59043-8

Date Collected: 06/05/25 10:46 Date Received: 06/06/25 15:30

Client Sample ID: SS06

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			111701	MNR	EET MID	06/06/25 15:50
Total/NA	Analysis	8021B		1	111642	MNR	EET MID	06/06/25 23:35
Total/NA	Analysis	Total BTEX		1	111819	SM	EET MID	06/06/25 23:35
Total/NA	Analysis	8015 NM		1	111808	SM	EET MID	06/09/25 14:25
Total/NA	Prep	8015NM Prep			111692	FC	EET MID	06/06/25 12:43
Total/NA	Analysis	8015B NM		1	111786	TKC	EET MID	06/09/25 14:25
Soluble	Leach	DI Leach			111735	SMC	EET MID	06/07/25 14:08
Soluble	Analysis	300.0		1	111818	CH	EET MID	06/10/25 11:52

Lab Sample ID: 880-59043-9

Matrix: Solid

Client Sample ID: SS06 Date Collected: 06/05/25 10:48 Date Received: 06/06/25 15:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			111715	MNR	EET MID	06/06/25 15:58
Total/NA	Analysis	8021B		1	111645	MNR	EET MID	06/06/25 18:46
Total/NA	Analysis	Total BTEX		1	111819	SM	EET MID	06/06/25 18:46
Total/NA	Analysis	8015 NM		1	111808	SM	EET MID	06/09/25 14:41
Total/NA	Prep	8015NM Prep			111692	FC	EET MID	06/06/25 12:43
Total/NA	Analysis	8015B NM		1	111786	TKC	EET MID	06/09/25 14:41
Soluble	Leach	DI Leach			111736	SMC	EET MID	06/07/25 14:11
Soluble	Analysis	300.0		1	111866	CH	EET MID	06/10/25 14:12

Client Sample ID: SS07 Lab Sample ID: 880-59043-10

Date Collected: 06/05/25 10:50 **Matrix: Solid** Date Received: 06/06/25 15:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			111715	MNR	EET MID	06/06/25 15:58
Total/NA	Analysis	8021B		1	111645	MNR	EET MID	06/06/25 19:06
Total/NA	Analysis	Total BTEX		1	111819	SM	EET MID	06/06/25 19:06
Total/NA	Analysis	8015 NM		1	111808	SM	EET MID	06/09/25 14:57
Total/NA	Prep	8015NM Prep			111692	FC	EET MID	06/06/25 12:43
Total/NA	Analysis	8015B NM		1	111786	TKC	EET MID	06/09/25 14:57
Soluble	Leach	DI Leach			111736	SMC	EET MID	06/07/25 14:11
Soluble	Analysis	300.0		1	111866	CH	EET MID	06/10/25 14:34

Lab Chronicle

Client: Ensolum
Project/Site: Pygmy 27 Stat
Job ID: 880-59043-1
SDG: Eddy County

Client Sample ID: SS07

Lab Sample ID: 880-59043-11

Matrix: Solid

Date Collected: 06/05/25 10:52 Date Received: 06/06/25 15:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			111715	MNR	EET MID	06/06/25 15:58
Total/NA	Analysis	8021B		1	111645	MNR	EET MID	06/06/25 19:27
Total/NA	Analysis	Total BTEX		1	111819	SM	EET MID	06/06/25 19:27
Total/NA	Analysis	8015 NM		1	111808	SM	EET MID	06/09/25 15:13
Total/NA	Prep	8015NM Prep			111692	FC	EET MID	06/06/25 12:43
Total/NA	Analysis	8015B NM		1	111786	TKC	EET MID	06/09/25 15:13
Soluble	Leach	DI Leach			111736	SMC	EET MID	06/07/25 14:11
Soluble	Analysis	300.0		1	111866	CH	EET MID	06/10/25 14:41

Laboratory References:

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

Eurofins Midland

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Accreditation/Certification Summary

Client: Ensolum
Project/Site: Pygmy 27 Stat

SDG: Eddy County

Laboratory: Eurofins Midland

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

Authority	Progra	am	Identification Number	Expiration Date
Texas	NELA	Р	T104704400	06-30-25
• ,	are included in this report, bu	ut the laboratory is not certif	fied by the governing authority. This lis	t may include analytes
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	
Total BTEX		Solid	Total BTEX	

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Method Summary

Client: Ensolum

Project/Site: Pygmy 27 Stat

Job ID: 880-59043-1

SDG: Eddy County

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum

Project/Site: Pygmy 27 Stat

Job ID: 880-59043-1

SDG: Eddy County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-59043-1	SS01	Solid	06/05/25 11:04	06/06/25 15:30	0.5'
880-59043-2	SS02	Solid	06/05/25 11:06	06/06/25 15:30	0.5'
880-59043-3	SS03	Solid	06/05/25 11:08	06/06/25 15:30	0.5'
880-59043-4	SS04	Solid	06/05/25 10:38	06/06/25 15:30	0.5'
880-59043-5	SS04	Solid	06/05/25 10:40	06/06/25 15:30	1'
880-59043-6	SS05	Solid	06/05/25 10:42	06/06/25 15:30	0.5'
880-59043-7	SS05	Solid	06/05/25 10:44	06/06/25 15:30	1'
880-59043-8	SS06	Solid	06/05/25 10:46	06/06/25 15:30	0.5'
880-59043-9	SS06	Solid	06/05/25 10:48	06/06/25 15:30	1'
880-59043-10	SS07	Solid	06/05/25 10:50	06/06/25 15:30	0.5'
880-59043-11	SS07	Solid	06/05/25 10:52	06/06/25 15:30	1'

Chain of Custody

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Revised Date: 08/25/2020 Rev. 2020.2

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Level IV Superfund DI Water: H₂O MeOH: Me HNO 3: HN NaOH: Na NaOH+Ascorbic Acid: SAPC Preservative Codes Sample Comments Date/Time TRRP Zn Acetate+NaOH: Zn RRC Na25203: NaSO 3 Other: BRCRA 13PPM Texas11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Tl Sn U V Zn NaHSO 4: NABIS Hg: 1631 / 245.1 / 7470 / 7471 H3PO 4: HP PST/UST None: NO Page. Brownfields H2504:H2 Cool: Cool Work Order Comments HCL: HC ADaPT 880-59043 Chain of Custody Received by: (Signature) www.xenco.com Reporting: Level || | Level || | UST/PST | PRP EDD State of Project: Eurofins Xenco. A minimum charge of \$85,00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco. A minimum charge of \$85,00 will be enforced unless previously negotiated Email: Marreene ensolum.com/toughangensolubelvestabs: TCLP/SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U to 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 service. Eurofins Xenco will be lable 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 **ANALYSIS REQUEST** Relinquished by: (Signature) Grodien (Hadir Green, Midland, 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, Dallas, TX (214) 902-0300 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 30D Date/Time 805 COSPS # of Cont Pres. Parameters Bill to: (if different) Comp Grab/ J City, State ZIP: TAT starts the day received by the lab, if received by 4:30pm S 3 2 00 2.3 1K-8 Rush SIC CORDESS: 0.5 Depth 7 Vio 1056 0.5 **Furn Around** 5 Received by: (Signature) 940 とって 270 570 Routine 2701 Corrected Temperature: Jue Date: 1038 1108 Wet Ice: Sampled 100 HOL Temperature Reading: TIme **Environment Testing** Correction Factor: Thermometer ID: 101515 7970 Yes 👨 Sampled 601 N Maxienfeld 37 Date -557-889 Circle Method(s) and Metal(s) to be analyzed Tabitha Cundian Green Praymy 27 State 0354356 0302024357 Matrix Xenco Ensolum, LL Hidland, Tx Yes No (N/A) Yes No RAJA Temp Blank: 200.8 / 6020: Cycle No en count Hadlie Relinquished by: (Signature) eurofins ... Sample Identification Samples Received Intact: Total 200.7 / 6010 Sample Custody Seals: Cooler Custody Seals: SAMPLE RECEIPT 5506 2000 Project Number: Total Containers: roject Manager: Sampler's Name: 355 505 550 Project Location 5503 SSOY 2055 055 City, State ZIP: Project Name: 1955 Address:

Revised Date: 08/25/2020 Rev. 2020.2

Date/Time

Received by: (Signature)

Relinquished by: (Signature)

Date/Time

Received by: (Signature)

Relinquished by: (Signature)

Eurofins Xenco. A minimum charge of \$85,00 will be applied to each project and a charge of \$5 for each sample substitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated

Chain of Custody

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

Environment Testing

eurofins 🕏

Xenco

Work Order No:

Project Names Part CAVE & D Company Name; Cave & D Company Name; Cave & D									www.xenco.com	o.com Page C of
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HEADS ST-BEST Email Ingreene the theory confidence of the standard TR TOO Ingreene the theory confidence of the standard TR TOO Increased in the lab incremental to the standard increased in the lab		Ensalumil	10	ŭ	ompany Name:		,	,		Brownfields ☐ RRC ☐ Superfund ☐
H32)557-8815 H32)557-8815 Hame: Rayly 21 Start CAT Reduced Tun Anound Number: Display 22 Start CAT Reduced Tun Red		601 N Manify	Held St S	1-600	ddress:				State of Project:	
Name: (201557-2017) Number: (20164) Number: (2		Midland, Tx	19701	D	ty, State ZIP:				Reporting: Level Level	Reporting: Level II Level III PST/UST TRRP Level IV
ANALYSIS REQUEST Spring Bank Temperature Reading: Yes No (NA) Matrix Sampled Sampled Court Spring Bank Sampled Sampled Sampled Sampled Court Associated Post Reading: Yes No (NA) Sampled Sampl			395	_	rgreens	eriol		undian (2 erischen		ADaPT ☐ Other:
### Sign Country Due Date: Country Cou		शिक्षाप्र हो इस्कर	of freduce		punc			ANALYSIS REQ	UEST	Preservative Codes
Temp Blank: ve. (ve. No. Wet kee; (ve. No. Wet kee; (ve. No. No. No. No. No. No. No. No. No. No		03D201435k		Routine	Rush	Pres. Code				None: NO DI Water: H ₂ O
The Cocchical This sars the day received by the Cocchical This sars the day received by the Cocchical This sars the day received by the Blank: Yes No Thermometer ID: The Blank: Yes No Thermometer ID: The Blank: Yes No RivA Temperature Reading: 2.2 IV S IV This sampled Sampled Sampled Compound This State of Cocchical Emperature: 2.2 IV S IV This Sampled Sam	Project Location:	Lea Carnet		e Date:			(Cool: Cool MeOH: Me
Tomp Blank: Yes No Wet Ice: (Ye) No But I Received by 430pm Type Blank: Yes No Wet Ice: (Ye) No But I Received by 430pm Yes No Wet I Type Blank: 2.2 Yes No Wet I Type Blank: 2.2 Yes No Wet Ice Type I Received Type Blank: 2.2 Yes No Wet Ice Type I Received Type Blank: 2.2 Yes No Wet Ice Type I Received Type Blank: 2.2 Yes No Wet Ice Type I Received Type Blank: 2.2 Yes No Wet Ice Type I Received Type Blank: 2.2 Yes No Wet Ice Type I Received Type Blank: 2.2 Yes No Wet Ice Type I Received Type Blank: 2.2 Yes No Wet Ice Type I Received Type I I I I I Sb As Ba Be B Cd Cr Co Lu Pe Ma Man No Ni K Se Ag SiO ₂ Na Sr Type I I I I I I I I I I I I I I I I I I I	Sampler's Name:	Tabitha Gueco	ian	starts the da	y received by	,	7			HCL: HC HNO 3: HN
Temp Blank: Yes No Thermometer D: IR S Res As Ba Be B Cd Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Amarial chaperature Assembled Trip No Paris II I I I I I I I I I I I I I I I I I	PO #:	030207435	ا چ	e lab, if receive	d by 4:30pm	5	2			H ₂ SO ₄ : H ₂ NaOH: Na
Ves. No. (No. A) Temperature Reading: 1/2 2/3 1/2	SAMPLE RECEIPT	Temp Blank:	ON ON			neter	S1			H ₃ PO ₄ : HP
Ves. No. (2) Corrected Temperature. 2.2 2.2 2.2 2.2 2.2 2.3	Samples Received Inta	(Ye)	Thermometer ID:		125	mer	\$\frac{1}{2}			NaHSO 4: NABIS
Yes No R/A Temperature Reading: 2.2 Corrected Temperature: 2.2 Corrected Time Comp Cont Corrected Temperature: 2.2 Corrected Time Corrected Temperature: 2.2 Corrected Time	Cooler Custody Seals:	Yes No (D)	Correction Factor		10.	eq	7			Na ₂ S ₂ O ₃ : NaSO ₃
Corrected Temperature: 2.2	Sample Custody Seals:	Yes No	Temperature Rea	ding:	23	1	7 :			Zn Acetate+NaOH: Zn
SRCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Cr Co Cu Fe Pb Mg Mn Mo Ni Se Ag 11 II	Total Containers:)	Corrected Tempe	erature:	2.2		Ho			NaOH+Ascorbic Acid: SAPC
8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Cr Co Cu Fe Pb Mg Mn Mo Ni K	Sample Identii		Date		Grab/ Comp	# of Cont	140			Sample Comments
8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K	Ssol	5	572	250	9,1		X X			
8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K										
8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K										
8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K)		-		1	1				
8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K					70	7	15			
8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Cr Co Cu Fe Pb Mg Mn Mo Ni K	0									
8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K										/
8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K TCI p / Spip Ann n SRCRA Sh As Ra Re Cd Cr Co Cu Ph Mn Mo Ni Se An Tl II										DN/
TCIP/SPIP6010 - SRCRA Sh As Re Re Cd Cr Co Cu Ph Min Mo Ni Se Ao TI II	Total 2007 / 6010		1 ABCR	A 13DDM	1 11	- Ch As	Ra Ro R Cd C	Cr Co Cu Eo Db M		2 Cr Tl Cn 11 V 7n
ICET STEP GOID : SACHA 3D AS BB DE CO CO CO PD MILL MO NI SE AB II D	Circle Method(s) a	nd Metal(s) to be an	5	TCLP / SPLI	6010 : 8RCF	A Sb A	s Ba Be Cd Cr	Co Cu Pb Mn Mo Ni	<u> </u>	Hg:1631/245.1/7470 /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	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 condition of sender. Eurofins Xenco will be libele only for the cost of samples and shall not assume any responsibility for any losses or expense incurred by the client if such losses are due to circumstances beyond the control	ment and relinquishment of sam the liable only for the cost of sam	pies constitutes a valid pa	urchase order fr	om client company	to Eurofins X	nco, its affiliates and sub	contractors. It assigns standard te	ms and conditions	

Login Sample Receipt Checklist

Client: Ensolum Job Number: 880-59043-1 SDG Number: Eddy County

List Source: Eurofins Midland

Login Number: 59043 List Number: 1

Creator: Vasquez, Julisa

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

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Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green Ensolum 601 N. Marienfeld St.

Suite 400 Midland, Texas 79701

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JOB DESCRIPTION

Pygmy 27 State 3H Eunice

JOB NUMBER

880-59279-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization

Generated 6/20/2025 4:38:23 PM

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

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

Client: Ensolum
Project/Site: Pygmy 27 State 3H

Laboratory Job ID: 880-59279-1
SDG: Eunice

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Definitions/Glossary

Job ID: 880-59279-1 Client: Ensolum Project/Site: Pygmy 27 State 3H

SDG: Eunice

Qualifiers

GC VOA

Qualifier **Qualifier Description** S1+ Surrogate recovery exceeds control limits, high biased.

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

S1+ Surrogate recovery exceeds control limits, high biased.

U Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

MS and/or MSD recovery exceeds control limits.

U Indicates the analyte was analyzed for but not detected.

Glossary

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

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

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

DFR Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

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

Decision Level Concentration (Radiochemistry) DLC

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

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

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

NC Not Calculated

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

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

PRES Presumptive

QC **Quality Control** RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum Job ID: 880-59279-1

Project: Pygmy 27 State 3H

Eurofins Midland Job ID: 880-59279-1

Job Narrative 880-59279-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 6/13/2025 8:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.9°C.

GC VOA

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-112210 and analytical batch 880-112158 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: SS02 (880-59279-2). Evidence of matrix interference due to high target analytes is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: SS02 (880-59279-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

Diesel Range Organics

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SS02 (880-59279-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

Method 300 ORGFM 28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-112228 and analytical batch 880-112234 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Job ID: 880-59279-1

SDG: Eunice

Client Sample ID: SS01

Project/Site: Pygmy 27 State 3H

Date Collected: 06/12/25 10:00 Date Received: 06/13/25 08:45

Sample Depth: 2'

Lab Sample ID: 880-59279-1

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) Result Qualifier Unit D Dil Fac Analyte RL Prepared Analyzed <0.00202 U 0.00202 06/13/25 21:37 Benzene mg/Kg 06/13/25 11:44 Toluene <0.00202 U 0.00202 mg/Kg 06/13/25 11:44 06/13/25 21:37 Ethylbenzene <0.00202 U 0.00202 06/13/25 11:44 06/13/25 21:37 mg/Kg <0.00403 U 0.00403 06/13/25 11:44 06/13/25 21:37 m-Xylene & p-Xylene mg/Kg o-Xylene <0.00202 U 0.00202 06/13/25 11:44 06/13/25 21:37 mg/Kg Xylenes, Total <0.00403 U 0.00403 06/13/25 11:44 06/13/25 21:37 mg/Kg Qualifier Surrogate %Recovery Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 06/13/25 21:37 98 70 - 130 06/13/25 11:44 70 - 130 06/13/25 11:44 1,4-Difluorobenzene (Surr) 92 06/13/25 21:37

 Method: TAL SOP Total BTEX - Total BTEX Calculation

 Analyte
 Result
 Qualifier
 RL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 Total BTEX
 <0.00403</td>
 U
 0.00403
 mg/Kg
 06/13/25 21:37
 1

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

 Analyte
 Result
 Qualifier
 RL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 Total TPH
 <49.6</td>
 U
 49.6
 mg/Kg
 06/14/25 01:36
 1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) Result Qualifier Analyte RL Unit D Dil Fac Prepared Analyzed Gasoline Range Organics <49.6 U 49.6 mg/Kg 06/13/25 09:51 06/14/25 01:36 (GRO)-C6-C10 Diesel Range Organics (Over <49.6 U 49.6 mg/Kg 06/13/25 09:51 06/14/25 01:36 C10-C28) <49.6 U 49 6 06/13/25 09:51 06/14/25 01:36 Oil Range Organics (Over C28-C36) mg/Kg

Limits Dil Fac Surrogate %Recovery Qualifier Prepared Analyzed 70 - 130 06/13/25 09:51 1-Chlorooctane 105 06/14/25 01:36 06/13/25 09:51 o-Terphenyl 111 70 - 130 06/14/25 01:36

 Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

 Analyte
 Result
 Qualifier
 RL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 Chloride
 3380
 F1
 50.0
 mg/Kg
 06/16/25 15:02
 5

Client Sample ID: SS02

Date Collected: 06/12/25 12:20

Lab Sample ID: 880-59279-2

Matrix: Solid

Date Received: 06/13/25 08:45

Sample Depth: 3'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.50		0.0996	mg/Kg		06/13/25 11:44	06/13/25 19:22	50
Toluene	37.8		1.00	mg/Kg		06/20/25 11:15	06/20/25 15:08	500
Ethylbenzene	15.5		0.0996	mg/Kg		06/13/25 11:44	06/13/25 19:22	50
m-Xylene & p-Xylene	69.6		2.01	mg/Kg		06/20/25 11:15	06/20/25 15:08	500
o-Xylene	18.1		0.0996	mg/Kg		06/13/25 11:44	06/13/25 19:22	50
Xylenes, Total	97.5		2.01	mg/Kg		06/20/25 11:15	06/20/25 15:08	500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	334	S1+	70 - 130			06/13/25 11:44	06/13/25 19:22	50

Eurofins Midland

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Job ID: 880-59279-1

SDG: Eunice

Client Sample ID: SS02

Date Collected: 06/12/25 12:20 Date Received: 06/13/25 08:45

Project/Site: Pygmy 27 State 3H

Sample Depth: 3'

Lab Sample ID: 880-59279-2

Matrix: Solid

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

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	93	70 - 130	06/13/25 11:44	06/13/25 19:22	50

Method: TAL SOP Total B	FEX - Total BTEX Calculation	
Δnalvte	Result Qualifier	R

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	143	_	2.01	mg/Kg			06/20/25 15:08	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (G	(3)	
method. Oviovo do lo Min - Dieser Range Organics (Dito) (O	$, \smile$	

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	12500	500	mg/Kg			06/14/25 01:50	1

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2300	500	mg/Kg		06/13/25 09:51	06/14/25 01:50	10
Diesel Range Organics (Over C10-C28)	10200	500	mg/Kg		06/13/25 09:51	06/14/25 01:50	10
Oil Range Organics (Over C28-C36)	<500 U	500	mg/Kg		06/13/25 09:51	06/14/25 01:50	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	207	S1+	70 - 130	06/13/25 09:51	06/14/25 01:50	10
o-Terphenyl	321	S1+	70 - 130	06/13/25 09:51	06/14/25 01:50	10

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8020		100	mg/Kg			06/16/25 15:23	10

Client Sample ID: SS03 Lab Sample ID: 880-59279-3 Matrix: Solid

Date Collected: 06/12/25 10:55 Date Received: 06/13/25 08:45

Sample Depth: 2'

Mothodi CIMOAC 0004D	Valatila Organia Compounda (CC)

Method. Stroto 002 ID - Volat	ne Organic Comp)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0996	U	0.0996	mg/Kg		06/13/25 11:44	06/13/25 19:42	50
Toluene	0.187		0.0996	mg/Kg		06/13/25 11:44	06/13/25 19:42	50
Ethylbenzene	<0.0996	U	0.0996	mg/Kg		06/13/25 11:44	06/13/25 19:42	50
m-Xylene & p-Xylene	2.58		0.199	mg/Kg		06/13/25 11:44	06/13/25 19:42	50
o-Xylene	1.06		0.0996	mg/Kg		06/13/25 11:44	06/13/25 19:42	50
Xylenes, Total	3.64		0.199	mg/Kg		06/13/25 11:44	06/13/25 19:42	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130			06/13/25 11:44	06/13/25 19:42	50
1 4-Difluorohenzene (Surr)	76		70 130			06/13/25 11:44	06/13/25 10:42	50

4-Bromofluorobenzene (Surr)	129	70 - 130	06/13/25 11:44	06/13/25 19:42	50
1,4-Difluorobenzene (Surr)	76	70 - 130	06/13/25 11:44	06/13/25 19:42	50

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	3.83		0.199	mg/Kg		_	06/13/25 19:42	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1660		49.9	mg/Kg			06/18/25 05:06	1

Lab Sample ID: 880-59279-3

Client Sample Results

Client: Ensolum Job ID: 880-59279-1

Project/Site: Pygmy 27 State 3H SDG: Eunice

Date Collected: 06/12/25 10:55 Matrix: Solid Date Received: 06/13/25 08:45

Sample Depth: 2'

Client Sample ID: SS03

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	67.4		49.9	mg/Kg		06/16/25 09:28	06/18/25 05:06	1
Diesel Range Organics (Over C10-C28)	1590		49.9	mg/Kg		06/16/25 09:28	06/18/25 05:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/16/25 09:28	06/18/25 05:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130			06/16/25 09:28	06/18/25 05:06	1
o-Terphenyl	120		70 - 130			06/16/25 09:28	06/18/25 05:06	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Surrogate Summary

Client: Ensolum Job ID: 880-59279-1 Project/Site: Pygmy 27 State 3H SDG: Eunice

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)	
880-59279-1	SS01	98	92	
880-59279-2	SS02	334 S1+	93	
880-59279-3	SS03	129	76	
LCS 880-112210/1-A	Lab Control Sample	93	100	
LCS 880-112668/1-A	Lab Control Sample	95	96	
LCSD 880-112210/2-A	Lab Control Sample Dup	92	101	
LCSD 880-112668/2-A	Lab Control Sample Dup	99	96	
MB 880-112158/8	Method Blank	103	89	
MB 880-112210/5-A	Method Blank	102	90	
MB 880-112668/5-A	Method Blank	99	86	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-59279-1	SS01	105	111	
880-59279-2	SS02	207 S1+	321 S1+	
880-59279-3	SS03	102	120	
LCS 880-112168/2-A	Lab Control Sample	124	122	
LCS 880-112287/2-A	Lab Control Sample	95	103	
LCSD 880-112168/3-A	Lab Control Sample Dup	121	119	
LCSD 880-112287/3-A	Lab Control Sample Dup	106	114	
MB 880-112168/1-A	Method Blank	92	98	
MB 880-112287/1-A	Method Blank	76	77	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Job ID: 880-59279-1

SDG: Eunice

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-112158/8

Project/Site: Pygmy 27 State 3H

Matrix: Solid Analysis Batch: 112158 Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg			06/13/25 11:19	1
Toluene	<0.00200	U	0.00200	mg/Kg			06/13/25 11:19	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg			06/13/25 11:19	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg			06/13/25 11:19	1
o-Xylene	<0.00200	U	0.00200	mg/Kg			06/13/25 11:19	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg			06/13/25 11:19	1

MB MB Qualifier %Recovery Limits Prepared Dil Fac Surrogate Analyzed 4-Bromofluorobenzene (Surr) 103 70 - 130 06/13/25 11:19 89 70 - 130 06/13/25 11:19 1,4-Difluorobenzene (Surr)

Lab Sample ID: MB 880-112210/5-A

Matrix: Solid

Analysis Batch: 112158

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 112210

мв мв

	2							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/13/25 11:44	06/13/25 16:16	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/13/25 11:44	06/13/25 16:16	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/13/25 11:44	06/13/25 16:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/13/25 11:44	06/13/25 16:16	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/13/25 11:44	06/13/25 16:16	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/13/25 11:44	06/13/25 16:16	1

MB MB %Recovery Qualifier Limits 102 70 - 130 4-Bromofluorobenzene (Surr) 70 - 130 1,4-Difluorobenzene (Surr) 90

Prepared Analyzed 06/13/25 11:44 06/13/25 16:16 06/13/25 11:44 06/13/25 16:16

Lab Sample ID: LCS 880-112210/1-A

Matrix: Solid

Analysis Batch: 112158

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

Prep Batch: 112210

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1165		mg/Kg		116	70 - 130	
Toluene	0.100	0.1036		mg/Kg		104	70 - 130	
Ethylbenzene	0.100	0.1099		mg/Kg		110	70 - 130	
m-Xylene & p-Xylene	0.200	0.2288		mg/Kg		114	70 - 130	
o-Xylene	0.100	0.1137		mg/Kg		114	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-112210/2-A

Matrix: Solid

Analysis Batch: 112158

Client Sample ID: Lab	Control Sample Dup
	B =

Prep Type: Total/NA

Prep Batch: 112210

	Spike	LCSD LCSD				%Rec		RPD
Analyte	Added	Result Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1157	mg/Kg		116	70 - 130	1	35

Job ID: 880-59279-1 Project/Site: Pygmy 27 State 3H SDG: Eunice

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

Lab Sample ID: LCSD 880-112210/2-A **Matrix: Solid**

Analysis Batch: 112158

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 112210

	_
RPD Lim	nit
8 3	35
11 3	35
12 3	35
13 3	35
	8 3 11 3 12 3

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	92	70 - 130
1,4-Difluorobenzene (Surr)	101	70 - 130

Lab Sample ID: MB 880-112668/5-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 112656

мв мв

Prep Type: Total/NA

Prep Batch: 112668

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/20/25 09:29	06/20/25 11:42	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/20/25 09:29	06/20/25 11:42	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/20/25 09:29	06/20/25 11:42	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/20/25 09:29	06/20/25 11:42	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/20/25 09:29	06/20/25 11:42	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/20/25 09:29	06/20/25 11:42	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99	70 - 130	06/20/25 09:29	06/20/25 11:42	1
1.4-Difluorobenzene (Surr)	86	70 - 130	06/20/25 09:29	06/20/25 11:42	1

Lab Sample ID: LCS 880-112668/1-A

Matrix: Solid

Analysis Batch: 112656

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 112668

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1089		mg/Kg		109	70 - 130	
Toluene	0.100	0.09616		mg/Kg		96	70 - 130	
Ethylbenzene	0.100	0.09969		mg/Kg		100	70 - 130	
m-Xylene & p-Xylene	0.200	0.2076		mg/Kg		104	70 - 130	
o-Xylene	0.100	0.1022		mg/Kg		102	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	95	70 - 130
1.4-Difluorobenzene (Surr)	96	70 - 130

Lab Sample ID: LCSD 880-112668/2-A

Matrix: Solid

Analysis Batch: 112656

Client S	ample ID:	Lah Co	introl Sar	nnle Dun
Ciletit 3	allible ib.	Lab Cu	niu oi Sai	lible Dub

Prep Type: Total/NA

Prep Batch: 112668

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1101		mg/Kg		110	70 - 130	1	35
Toluene	0.100	0.09947		mg/Kg		99	70 - 130	3	35
Ethylbenzene	0.100	0.1038		mg/Kg		104	70 - 130	4	35

QC Sample Results

Client: Ensolum Job ID: 880-59279-1 SDG: Eunice Project/Site: Pygmy 27 State 3H

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

Lab Sample ID: LCSD 880-112668/2-A **Matrix: Solid**

Analysis Batch: 112656

Client	Sample	ID:	Lab	Control	Sample	Dup
					- шр	

Prep Type: Total/NA Prep Batch: 112668

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
m-Xylene & p-Xylene	0.200	0.2166		mg/Kg		108	70 - 130	4	35
o-Xylene	0.100	0.1069		mg/Kg		107	70 - 130	5	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

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

Lab Sample ID: MB 880-112168/1-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 112175

Prep Type: Total/NA

Prep Batch: 112168

	MR	MR						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		06/13/25 09:51	06/13/25 20:02	1
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		06/13/25 09:51	06/13/25 20:02	1
C10-C28) Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/13/25 09:51	06/13/25 20:02	1

мв мв

Surrogate	%Recovery Q	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	06	3/13/25 09:51	06/13/25 20:02	1
o-Terphenyl	98	:	70 - 130	06	3/13/25 09:51	06/13/25 20:02	1

Lab Sample ID: LCS 880-112168/2-A

Matrix: Solid

Analysis Batch: 112175

Cliant	Campl	~ ID. I	Lab Contro	al Campla
Cilent	Sambi	e ID. I	Lab Contr	oi Sailible

Prep Type: Total/NA

Prep Batch: 112168

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics	1000	1144		mg/Kg		114	70 - 130
(GRO)-C6-C10							
Diesel Range Organics (Over	1000	1079		mg/Kg		108	70 - 130
C10-C28)							

C10-C28)

LCS LCS

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	124	70 - 130
o-Terphenyl	122	70 - 130

Lab Sample ID: LCSD 880-112168/3-A

Matrix: Solid

Analysis Batch: 112175

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

Prep Batch: 112168

	Spike	LCSD	LUSD				70 KeC		KPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	1126		mg/Kg		113	70 - 130	2	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	1041		mg/Kg		104	70 - 130	4	20
C10-C28)									

Job ID: 880-59279-1

SDG: Eunice

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

Lab Sample ID: LCSD 880-112168/3-A

Matrix: Solid

Analysis Batch: 112175

Project/Site: Pygmy 27 State 3H

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 112168

LCSD LCSD

%Recovery Qualifier Surrogate Limits 1-Chlorooctane 121 70 - 130 o-Terphenyl 119 70 - 130

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 112287

Lab Sample ID: MB 880-112287/1-A

Matrix: Solid

Analysis Batch: 112402

MR MR

ı									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Gasoline Range Organics	<50.0	U	50.0	mg/Kg		06/16/25 09:28	06/18/25 01:34	1
	(GRO)-C6-C10								
	Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		06/16/25 09:28	06/18/25 01:34	1
	C10-C28)								
	Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/16/25 09:28	06/18/25 01:34	1
ı									

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130	06/16/25 09:28	06/18/25 01:34	1
o-Terphenyl	77		70 - 130	06/16/25 09:28	06/18/25 01:34	1

Lab Sample ID: LCS 880-112287/2-A

Matrix: Solid

Analysis Batch: 112402

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

Prep Batch: 112287

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	940.3		mg/Kg		94	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	963.9		mg/Kg		96	70 - 130	
C10-C28)								

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	103		70 - 130

Lab Sample ID: LCSD 880-112287/3-A

Matrix: Solid

Analysis Batch: 112402

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 112287

%Rec **RPD** Limits RPD Limit 70 - 130 20 8

Analyte Added Result Qualifier Unit %Rec 1000 1017 Gasoline Range Organics 102 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1033 103 70 - 130 20 mg/Kg

Spike

LCSD LCSD

C10-C28)

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	114		70 - 130

Job ID: 880-59279-1

SDG: Eunice

Prep Type: Soluble

Client Sample ID: SS01 **Prep Type: Soluble**

Client Sample ID: Method Blank

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-112228/1-A

Matrix: Solid

Analysis Batch: 112234

Project/Site: Pygmy 27 State 3H

MB MB

Dil Fac Analyte Result Qualifier RL Unit D Prepared Analyzed Chloride <10.0 U 10.0 mg/Kg 06/16/25 13:00

Lab Sample ID: LCS 880-112228/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 112234

Spike LCS LCS %Rec Added %Rec Analyte Result Qualifier Unit D Limits Chloride 250 257.6 mg/Kg 103 90 - 110

Lab Sample ID: LCSD 880-112228/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 112234

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 250 253.0 90 - 110 mg/Kg 101

Lab Sample ID: 880-59279-1 MS **Client Sample ID: SS01 Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 112234

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 3380 1250 Chloride 4844 F1 117 90 - 110 mg/Kg

Lab Sample ID: 880-59279-1 MSD

Matrix: Solid

Analysis Batch: 112234

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 3380 F1 1250 4867 F1 mg/Kg 119 90 - 110 0 20

QC Association Summary

Client: Ensolum Job ID: 880-59279-1 Project/Site: Pygmy 27 State 3H

SDG: Eunice

GC VOA

Analysis Batch: 112158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59279-1	SS01	Total/NA	Solid	8021B	112210
880-59279-2	SS02	Total/NA	Solid	8021B	112210
880-59279-3	SS03	Total/NA	Solid	8021B	112210
MB 880-112158/8	Method Blank	Total/NA	Solid	8021B	
MB 880-112210/5-A	Method Blank	Total/NA	Solid	8021B	112210
LCS 880-112210/1-A	Lab Control Sample	Total/NA	Solid	8021B	112210
LCSD 880-112210/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	112210

Prep Batch: 112210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59279-1	SS01	Total/NA	Solid	5035	
880-59279-2	SS02	Total/NA	Solid	5035	
880-59279-3	SS03	Total/NA	Solid	5035	
MB 880-112210/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-112210/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-112210/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 112298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59279-1	SS01	Total/NA	Solid	Total BTEX	
880-59279-2	SS02	Total/NA	Solid	Total BTEX	
880-59279-3	SS03	Total/NA	Solid	Total BTEX	

Analysis Batch: 112656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59279-2	SS02	Total/NA	Solid	8021B	112668
MB 880-112668/5-A	Method Blank	Total/NA	Solid	8021B	112668
LCS 880-112668/1-A	Lab Control Sample	Total/NA	Solid	8021B	112668
LCSD 880-112668/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	112668

Prep Batch: 112668

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59279-2	SS02	Total/NA	Solid	5035	
MB 880-112668/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-112668/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-112668/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

GC Semi VOA

Prep Batch: 112168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch
880-59279-1	SS01	Total/NA	Solid	8015NM Prep
880-59279-2	SS02	Total/NA	Solid	8015NM Prep
MB 880-112168/1-A	Method Blank	Total/NA	Solid	8015NM Prep
LCS 880-112168/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep
LCSD 880-112168/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep

Analysis Batch: 112175

Released to Imaging: 11/18/2025 10:28:51 AM

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59279-1	SS01	Total/NA	Solid	8015B NM	112168
880-59279-2	SS02	Total/NA	Solid	8015B NM	112168

QC Association Summary

Client: Ensolum Job ID: 880-59279-1 Project/Site: Pygmy 27 State 3H

SDG: Eunice

GC Semi VOA (Continued)

Analysis Batch: 112175 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-112168/1-A	Method Blank	Total/NA	Solid	8015B NM	112168
LCS 880-112168/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	112168
LCSD 880-112168/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	112168

Prep Batch: 112287

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59279-3	SS03	Total/NA	Solid	8015NM Prep	
MB 880-112287/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-112287/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-112287/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 112328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59279-1	SS01	Total/NA	Solid	8015 NM	
880-59279-2	SS02	Total/NA	Solid	8015 NM	
880-59279-3	SS03	Total/NA	Solid	8015 NM	

Analysis Batch: 112402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59279-3	SS03	Total/NA	Solid	8015B NM	112287
MB 880-112287/1-A	Method Blank	Total/NA	Solid	8015B NM	112287
LCS 880-112287/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	112287
LCSD 880-112287/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	112287

HPLC/IC

Leach Batch: 112228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59279-1	SS01	Soluble	Solid	DI Leach	
880-59279-2	SS02	Soluble	Solid	DI Leach	
880-59279-3	SS03	Soluble	Solid	DI Leach	
MB 880-112228/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-112228/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-112228/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-59279-1 MS	SS01	Soluble	Solid	DI Leach	
880-59279-1 MSD	SS01	Soluble	Solid	DI Leach	

Analysis Batch: 112234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59279-1	SS01	Soluble	Solid	300.0	112228
880-59279-2	SS02	Soluble	Solid	300.0	112228
880-59279-3	SS03	Soluble	Solid	300.0	112228
MB 880-112228/1-A	Method Blank	Soluble	Solid	300.0	112228
LCS 880-112228/2-A	Lab Control Sample	Soluble	Solid	300.0	112228
LCSD 880-112228/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	112228
880-59279-1 MS	SS01	Soluble	Solid	300.0	112228
880-59279-1 MSD	SS01	Soluble	Solid	300.0	112228

Project/Site: Pygmy 27 State 3H

Job ID: 880-59279-1 SDG: Eunice

Client Sample ID: SS01

Lab Sample ID: 880-59279-1

Matrix: Solid

Date Collected: 06/12/25 10:00

Date Received: 06/13/25 08:45

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			112210	MNR	EET MID	06/13/25 11:44
Total/NA	Analysis	8021B		1	112158	MNR	EET MID	06/13/25 21:37
Total/NA	Analysis	Total BTEX		1	112298	SM	EET MID	06/13/25 21:37
Total/NA	Analysis	8015 NM		1	112328	SM	EET MID	06/14/25 01:36
Total/NA	Prep	8015NM Prep			112168	FC	EET MID	06/13/25 09:51
Total/NA	Analysis	8015B NM		1	112175	TKC	EET MID	06/14/25 01:36
Soluble	Leach	DI Leach			112228	SI	EET MID	06/13/25 15:28
Soluble	Analysis	300.0		5	112234	CH	EET MID	06/16/25 15:02

Client Sample ID: SS02

Date Collected: 06/12/25 12:20

Date Received: 06/13/25 08:45

Lab Sample ID: 880-59279-2

Matrix: Solid

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor **Number Analyst** Lab or Analyzed 5035 06/13/25 11:44 Total/NA Prep 112210 MNR EET MID Total/NA 8021B MNR 06/13/25 19:22 Analysis 50 112158 EET MID 5035 Total/NA Prep 112668 MNR EET MID 06/20/25 11:15 8021B Total/NA Analysis 500 112656 MNR EET MID 06/20/25 15:08 Total/NA Analysis Total BTEX 1 112298 SM **EET MID** 06/20/25 15:08 8015 NM Total/NA Analysis 1 112328 SM **EET MID** 06/14/25 01:50 Total/NA 06/13/25 09:51 8015NM Prep 112168 FC **EET MID** Prep Total/NA Analysis 8015B NM 10 112175 TKC **EET MID** 06/14/25 01:50 Soluble 112228 SI 06/13/25 15:28 Leach DI Leach EET MID Soluble Analysis 300.0 10 112234 CH **EET MID** 06/16/25 15:23

Client Sample ID: SS03

Date Collected: 06/12/25 10:55

Date Received: 06/13/25 08:45

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			112210	MNR	EET MID	06/13/25 11:44
Total/NA	Analysis	8021B		50	112158	MNR	EET MID	06/13/25 19:42
Total/NA	Analysis	Total BTEX		1	112298	SM	EET MID	06/13/25 19:42
Total/NA	Analysis	8015 NM		1	112328	SM	EET MID	06/18/25 05:06
Total/NA	Prep	8015NM Prep			112287	EL	EET MID	06/16/25 09:28
Total/NA	Analysis	8015B NM		1	112402	TKC	EET MID	06/18/25 05:06
Soluble	Leach	DI Leach			112228	SI	EET MID	06/13/25 15:28
Soluble	Analysis	300.0		1	112234	CH	EET MID	06/16/25 15:31

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum Job ID: 880-59279-1 Project/Site: Pygmy 27 State 3H

SDG: Eunice

Laboratory: Eurofins Midland

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

Authority	Progra	am	Identification Number	Expiration Date
Texas	NELA	Р	T104704400	06-30-25
,	are included in this report, bu	ut the laboratory is not certif	fied by the governing authority. This lis	t may include analytes
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	
Total BTEX		Solid	Total BTEX	

Method Summary

Client: Ensolum

Project/Site: Pygmy 27 State 3H

Job ID: 880-59279-1

SDG: Eunice

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum

Project/Site: Pygmy 27 State 3H

Job ID: 880-59279-1

SDG: Eunice

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Dej
880-59279-1	SS01	Solid	06/12/25 10:00	06/13/25 08:45	2'
880-59279-2	SS02	Solid	06/12/25 12:20	06/13/25 08:45	3'
880-59279-3	SS03	Solid	06/12/25 10:55	06/13/25 08:45	2'

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880-59279 Chain of Custody

www.xenco.com

Revised Date: 08/25/2020 Rev. 2020.2

Date/Time

Chain of Custody

Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

Environment Testing

eurofins 🔅

Xenco

Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Preservative Codes	ST	ANALYSIS REQUEST	Turn Around	Pyamy 27 State 34.	Project Name:
ADaPT Other:	Deliverables: EDD ADaP1	hareen Q ensolum.com	Email: Narcen	432 557 8895	Phone:
ST/UST TRRP Level IV	Reporting: Level II	Middle 1 1x 74701 Reporting: Level III Level III PST/UST TRRP Level IV	1970 City, State ZIP:	Misland TX, 79701 City, State ZIP.	City, State ZIP:
	State of Project:	601 N Marian Rel St. Sinte 800 State of Project:	to Coddress:	601 N Manenfeld 24, Suite 400 Address.	Address:
mfields ☐ RRC ☐ Superfund ☐	Program: UST/PST □ PRP□ Brownfields □ RRC□ Superfund □	Enslum	Company Name:	Ensolum	Company Name:
mments	Work Order Comments	Hathe Green	Bill to: (if different)	Haslie Green	Project Manager:

Address: 601	601 N Mmented St. Suite God Address:	3	7,5	14 40C	Address:		29	NIO	X	rian	600	601 N Marianteld St. Stute Sap State of Project:	St cos	tate of Pro	ject:				
City, State ZIP:	Misland	1	17,	7 1970 City, State ZIP.	City, State	ZIP:		MIE	Midland,	2,7	1X	19701		Reporting: Level II	LevelII] Level		PST/UST TRRP	RP Level IV
M	432 557	7	5488	Email:		hareen		6.	rosi	@ ensolum.com	Me			Deliverables:	s: EDD		ADaPT] Other:	
Project Name:	Pygmy 27 State 34.	te 3	- H	Tum	Turn Around						A	ANALYSIS REQUEST	QUEST					Preserval	Preservative Codes
er:	0302024 356	350	. 0	Routine	Rush		Pres. Code										Ž.	None: NO	DI Water: H ₂ O
Project Location:	unice			Due Date:				-			Т						Ö	Cool: Cool	MeOH: Me
Sampler's Name:	Rashaal		udely	TAT starts the day		by										_	Y Y	HCL: HC	HNO 3: HN
# Od	,		(the lab, if received	eived by 4:30pm	md	1										H ₂ ,	H ₂ SO ₄ : H ₂	NaOH: Na
SAMPLE RECEIPT	Jemp Blank:	C	Ye(No)	Wet Ice:	(Yes) No	0	rieters	70	210								H.	H ₃ PO ₄ : HP	
Samples Received Intact:	(Yes No.		Thermometer ID:	er ID:	1,0	4	men		2 5								Na	NaHSO 4: NABIS	S
Cooler Custody Seals:	Yes No AVA		Correction Factor:	actor:	1	-	69	_	2							+	Na	Na 25 20 3: Na SO 3	3
Sample Custody Seals:	Yes No NA/A	1	Temperature Reading:	e Reading:	4.	\circ		X	1								Zu	Zn Acetate+NaOH: Zn	OH: Zn
Total Containers:			Corrected T	Corrected Temperature:	3	6		3 /	14 +/								Na	NaOH+Ascorbic Acid: SAPC	c Acid: SAPC
Sample Identification		Matrix	Date Sampled	Time	Depth	Grab/	# of Cont	-8	7									Sample	Sample Comments
5501		3	6/2/25	1000	2,	J	_	Y:	X										
2005		S	_	1220	31	7	_												
8055		V	À	1055	7	0	_	7	7										
									\Box										
						1		+	-			4							
						\top	+	+	+										
							+	+	\blacksquare					+					
Total 200.7 / 6010	200.8 / 6020:	ä		8RCRA 13PPM	II	11 A	Sb A	s Ba E	e B C	G C	000	u Fe Pb	Mg Mr	Mo N	K Se /	Ag SiO ₂	Na Sr TI	Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Tl Sn U V Zn	u
Circle Method(s) and Metal(s) to be analyzed	Aetal(s) to be	anal	/zed	TCLP/S	TCLP/SPLP6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U	8RCR	A Sb	As Ba	Be Cd	ی ن	Cu Pb	Mn Mo M	Vi Se A	J IT ©	_	lg: 1631	Hg: 1631 / 245.1 / 7470 / 7471	170 / 7471	

Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated. yotice. Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control Relinquished by: (Signature) Date/Time Received by: (Signature) Relinquished by: (Signature)

Received by: (Signature) 811125

Page 21 of 22

Login Sample Receipt Checklist

Client: Ensolum Job Number: 880-59279-1 SDG Number: Eunice

Login Number: 59279 List Source: Eurofins Midland

List Number: 1

Creator: Vasquez, Julisa

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

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 7/15/2025 2:35:25 PM

JOB DESCRIPTION

Pygmy 27 State 3H Produced Water Lea County

JOB NUMBER

880-60264-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization

Generated 7/15/2025 2:35:25 PM

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

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Client: Ensolum Project/Site: Pygmy 27 State 3H Produced Water Laboratory Job ID: 880-60264-1 SDG: Lea County

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Definitions/Glossary

Job ID: 880-60264-1 Client: Ensolum Project/Site: Pygmy 27 State 3H Produced Water SDG: Lea County

Qualifiers

GC VOA

Qualifier **Qualifier Description** S1+ Surrogate recovery exceeds control limits, high biased. U

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

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

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

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

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

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

DFR Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

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

Decision Level Concentration (Radiochemistry) DLC

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

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

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

NC Not Calculated

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

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

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum Job ID: 880-60264-1

Project: Pygmy 27 State 3H Produced Water

Job ID: 880-60264-1 Eurofins Midland

Job Narrative 880-60264-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these
 situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise
 specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 7/10/2025 4:00 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 4.6°C.

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-113971 and analytical batch 880-113946 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: PH01 (880-60264-1) and PH01 (880-60264-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside the upper control limit: PH04 (880-60264-9). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-113989 and analytical batch 880-114063 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: PH01 (880-60264-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

Diesel Range Organics

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-113957 and 880-113958 and analytical batch 880-114090 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: PH01 (880-60264-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

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

Eurofins Midland

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Client Sample Results

Client: Ensolum
Project/Site: Pygmy 27 State 3H Produced Water

Job ID: 880-60264-1

SDG: Lea County

Lab Sample ID: 880-60264-1

Matrix: Solid

Client Sample ID: PH01

Date Collected: 07/10/25 09:52 Date Received: 07/10/25 16:00

Sample Depth: 3'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		07/11/25 09:32	07/12/25 03:32	
Toluene	0.271		0.00202	mg/Kg		07/11/25 09:32	07/12/25 03:32	
Ethylbenzene	0.0448		0.00202	mg/Kg		07/11/25 09:32	07/12/25 03:32	•
m-Xylene & p-Xylene	0.794		0.0797	mg/Kg		07/14/25 09:46	07/14/25 16:42	20
o-Xylene	0.980		0.0398	mg/Kg		07/14/25 09:46	07/14/25 16:42	20
Xylenes, Total	1.77		0.0797	mg/Kg		07/14/25 09:46	07/14/25 16:42	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	588	S1+	70 - 130			07/11/25 09:32	07/12/25 03:32	
1,4-Difluorobenzene (Surr)	84		70 - 130			07/11/25 09:32	07/12/25 03:32	
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	2.09		0.0797	mg/Kg			07/14/25 16:42	
Analyte Total TPH	Result 4510	Qualifier	RL 50.0	Unit mg/Kg	D	Prepared	Analyzed 07/14/25 23:19	Dil Fa
Total IPH	4510		50.0	mg/Kg				
							07/14/25 25.19	•
Method: SW846 8015B NM - Die	sel Range Orga	nics (DRO)	(GC)				07/14/25 25.19	ŕ
Analyte	•	nics (DRO) Qualifier	(GC)	Unit	D	Prepared	Analyzed	
Analyte Gasoline Range Organics	•		• •	Unit mg/Kg	<u>D</u>	Prepared 07/11/25 09:05		Dil Fac
Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result		RL		<u>D</u>		Analyzed	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 285	Qualifier *+	RL 50.0	mg/Kg	<u>D</u>	07/11/25 09:05	Analyzed 07/14/25 23:19	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result 285	Qualifier *+	FL 50.0	mg/Kg	<u>D</u>	07/11/25 09:05 07/11/25 09:05	Analyzed 07/14/25 23:19 07/14/25 23:19	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	Result 285 4220 <50.0	Qualifier *+	RL 50.0 50.0 50.0	mg/Kg	<u>D</u>	07/11/25 09:05 07/11/25 09:05 07/11/25 09:05	Analyzed 07/14/25 23:19 07/14/25 23:19 07/14/25 23:19	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate	Result 285 4220 <50.0 %Recovery 107	Qualifier *+	50.0 50.0 50.0 Limits	mg/Kg	<u>D</u>	07/11/25 09:05 07/11/25 09:05 07/11/25 09:05 <i>Prepared</i>	Analyzed 07/14/25 23:19 07/14/25 23:19 07/14/25 23:19 Analyzed	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result 285 4220 <50.0 %Recovery 107 160	Qualifier *+ U Qualifier \$1+	RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	mg/Kg	<u>D</u>	07/11/25 09:05 07/11/25 09:05 07/11/25 09:05 Prepared 07/11/25 09:05	Analyzed 07/14/25 23:19 07/14/25 23:19 07/14/25 23:19 Analyzed 07/14/25 23:19	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result 285 4220 <50.0 %Recovery 107 160 1 Chromatograp	Qualifier *+ U Qualifier \$1+	RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	mg/Kg	<u>D</u>	07/11/25 09:05 07/11/25 09:05 07/11/25 09:05 Prepared 07/11/25 09:05	Analyzed 07/14/25 23:19 07/14/25 23:19 07/14/25 23:19 Analyzed 07/14/25 23:19	Dil Fac

Client Sample ID: PH01

Date Collected: 07/10/25 10:14

Lab Sample ID: 880-60264-2

Matrix: Solid

Date Collected: 07/10/25 10:14 Date Received: 07/10/25 16:00

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Sample Depth: 5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		07/11/25 09:32	07/12/25 03:53	1
Toluene	<0.00198	U	0.00198	mg/Kg		07/11/25 09:32	07/12/25 03:53	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		07/11/25 09:32	07/12/25 03:53	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		07/11/25 09:32	07/12/25 03:53	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		07/11/25 09:32	07/12/25 03:53	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		07/11/25 09:32	07/12/25 03:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	148	S1+	70 - 130			07/11/25 09:32	07/12/25 03:53	1

Client: Ensolum Project/Site: Pygmy 27 State 3H Produced Water Job ID: 880-60264-1

SDG: Lea County

Client Sample ID: PH01

Date Collected: 07/10/25 10:14 Date Received: 07/10/25 16:00

Sample Depth: 5'

Lab Sample ID: 880-60264-2

Matrix: Solid

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

%Recovery Qualifier Limits Prepared Surrogate Analyzed Dil Fac 70 - 130 07/11/25 09:32 1,4-Difluorobenzene (Surr) 105 07/12/25 03:53

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte Result Qualifier RL Unit D Analyzed Dil Fac Prepared Total BTEX <0.00397 0.00397 07/12/25 03:53 mg/Kg

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

Result Qualifier RL Unit D Prepared Analyzed Dil Fac Total TPH <50.0 50.0 mg/Kg 07/14/25 23:35

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

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac <50.0 U 50.0 07/14/25 23:35 Gasoline Range Organics mg/Kg 07/11/25 09:05 (GRO)-C6-C10 <50.0 U *+ 50.0 mg/Kg 07/11/25 09:05 07/14/25 23:35 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 07/11/25 09:05 07/14/25 23:35

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 97 70 - 130 07/11/25 09:05 07/14/25 23:35 99 70 - 130 07/11/25 09:05 07/14/25 23:35 o-Terphenyl

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac 49.7 07/12/25 02:00 Chloride 4390 mg/Kg

Client Sample ID: PH01 Lab Sample ID: 880-60264-3

Date Collected: 07/10/25 10:52 Date Received: 07/10/25 16:00

Sample Depth: 6'

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

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Benzene <0.00201 U 0.00201 mg/Kg 07/11/25 09:32 07/12/25 04:13 Toluene <0.00201 U 0.00201 07/11/25 09:32 07/12/25 04:13 mg/Kg Ethylbenzene <0.00201 U 0.00201 07/11/25 09:32 07/12/25 04:13 mg/Kg 07/11/25 09:32 07/12/25 04:13 m-Xylene & p-Xylene <0.00402 U 0.00402 mg/Kg o-Xylene <0.00201 U 0.00201 mg/Kg 07/11/25 09:32 07/12/25 04:13 Xylenes, Total <0.00402 U 0.00402 mg/Kg 07/11/25 09:32 07/12/25 04:13 Qualifier Limits Dil Fac

Surrogate %Recovery Prepared Analyzed 70 - 130 07/11/25 09:32 4-Bromofluorobenzene (Surr) 123 07/12/25 04:13 1,4-Difluorobenzene (Surr) 87 70 - 130 07/11/25 09:32 07/12/25 04:13

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte Result Qualifier RL D Unit Prepared Analyzed Dil Fac Total BTEX <0.00402 0.00402 07/12/25 04:13 mg/Kg

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

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac <50.0 U Total TPH 50.0 mg/Kg 07/14/25 23:50

Eurofins Midland

Matrix: Solid

Client Sample Results

Client: Ensolum Project/Site: Pygmy 27 State 3H Produced Water Job ID: 880-60264-1

SDG: Lea County

Client Sample ID: PH01

Date Collected: 07/10/25 10:52 Date Received: 07/10/25 16:00

Sample Depth: 6'

Lab Sample ID: 880-60264-3

Matrix: Solid

Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		07/11/25 09:05	07/14/25 23:50	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U *+	50.0	mg/Kg		07/11/25 09:05	07/14/25 23:50	1
C10-C28)								
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/11/25 09:05	07/14/25 23:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	96		70 - 130			07/11/25 09:05	07/14/25 23:50	
o-Terphenyl	98		70 - 130			07/11/25 09:05	07/14/25 23:50	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	le					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	177		9.92	mg/Kg			07/12/25 02:07	1

Lab Sample ID: 880-60264-5 **Client Sample ID: PH02** Date Collected: 07/10/25 09:36 Matrix: Solid

Date Received: 07/10/25 16:00

Sample Depth: 1'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		07/11/25 09:32	07/12/25 04:34	1
Toluene	<0.00202	U	0.00202	mg/Kg		07/11/25 09:32	07/12/25 04:34	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		07/11/25 09:32	07/12/25 04:34	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		07/11/25 09:32	07/12/25 04:34	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		07/11/25 09:32	07/12/25 04:34	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		07/11/25 09:32	07/12/25 04:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130			07/11/25 09:32	07/12/25 04:34	1
1,4-Difluorobenzene (Surr)	89		70 - 130			07/11/25 09:32	07/12/25 04:34	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00403	U	0.00403	mg/Kg			07/12/25 04:34	1
Total BTEX	<0.00403	U	0.00403	mg/Kg			07/12/25 04:34	1
Total BTEX : Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (07/12/25 04:34	·
• •	el Range Organ			mg/Kg	D	Prepared	07/12/25 04:34 Analyzed	Dil Fac
: Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)		<u>D</u>	Prepared		·
Method: SW846 8015 NM - Diese Analyte	Range Organ Result <49.9	ics (DRO) (Qualifier	RL 49.9	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH	el Range Organ Result <49.9 sel Range Organ	ics (DRO) (Qualifier	RL 49.9	Unit	<u>D</u>	Prepared Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	el Range Organ Result <49.9 sel Range Organ	Qualifier Unics (DRO) Qualifier	RL 49.9 (GC)	Unit mg/Kg			Analyzed 07/15/25 00:07	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10	el Range Organ Result <49.9 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U u	(GC) RL (GC) RL	Unit mg/Kg		Prepared	Analyzed 07/15/25 00:07	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	el Range Organ Result <49.9 sel Range Orga Result <49.9	Qualifier U nics (DRO) Qualifier U u	(GC) RL 49.9 (GC) RL 49.9	Unit mg/Kg Unit mg/Kg		Prepared 07/11/25 09:05	Analyzed 07/15/25 00:07 Analyzed 07/15/25 00:07	Dil Fac Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	el Range Organ Result <49.9 sel Range Orga Result <49.9	cics (DRO) (On Qualifier Unics (DRO) Qualifier Unics (DRO) Qualifier Unics Uni	(GC) RL 49.9 (GC) RL 49.9	Unit mg/Kg Unit mg/Kg		Prepared 07/11/25 09:05	Analyzed 07/15/25 00:07 Analyzed 07/15/25 00:07	Dil Fac Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	el Range Organ Result <49.9 sel Range Orga Result <49.9 <49.9	cics (DRO) (Control of the property of the pro	GC) RL 49.9 (GC) RL 49.9 49.9	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 07/11/25 09:05 07/11/25 09:05	Analyzed 07/15/25 00:07 Analyzed 07/15/25 00:07 07/15/25 00:07	Dil Fac Dil Fac 1 1 1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	el Range Organ Result <49.9 sel Range Orga Result <49.9 <49.9 <49.9	cics (DRO) (Control of the property of the pro	GC) RL 49.9 (GC) RL 49.9 49.9 49.9	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 07/11/25 09:05 07/11/25 09:05 07/11/25 09:05	Analyzed 07/15/25 00:07 Analyzed 07/15/25 00:07 07/15/25 00:07	Dil Fac Dil Fac 1

Job ID: 880-60264-1

Client: Ensolum Project/Site: Pygmy 27 State 3H Produced Water

SDG: Lea County

Client Sample ID: PH02

Lab Sample ID: 880-60264-5

Date Collected: 07/10/25 09:36 Date Received: 07/10/25 16:00

Matrix: Solid

Sample Depth: 1'

Method: EPA 300.0 - Anions, Ion Cl	hromatograp	hy - Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	108		10.0	mg/Kg			07/12/25 02:29	1

Client Sample ID: PH02 Lab Sample ID: 880-60264-6

Date Collected: 07/10/25 09:38 **Matrix: Solid** Date Received: 07/10/25 16:00

Sample Depth: 2'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199	mg/Kg		07/11/25 09:32	07/12/25 04:54	
Toluene	<0.00199	U	0.00199	mg/Kg		07/11/25 09:32	07/12/25 04:54	
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		07/11/25 09:32	07/12/25 04:54	,
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		07/11/25 09:32	07/12/25 04:54	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		07/11/25 09:32	07/12/25 04:54	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		07/11/25 09:32	07/12/25 04:54	,
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	124		70 - 130			07/11/25 09:32	07/12/25 04:54	1
1,4-Difluorobenzene (Surr)	91		70 - 130			07/11/25 09:32	07/12/25 04:54	1
Method: TAL SOP Total BTEX - T	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			07/12/25 04:54	1
Method: SW846 8015 NM - Diese Analyte Total TPH		Qualifier	RL 49.8	Unit	<u>D</u>	Prepared	Analyzed 07/15/25 00:22	Dil Fac
Total IPH	<49.8	U	49.8	mg/Kg			07/15/25 00:22	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		07/11/25 09:05	07/15/25 00:22	1
Diesel Range Organics (Over C10-C28)	<49.8	U *+	49.8	mg/Kg		07/11/25 09:05	07/15/25 00:22	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		07/11/25 09:05	07/15/25 00:22	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	97		70 - 130			07/11/25 09:05	07/15/25 00:22	
o-Terphenyl	99		70 - 130			07/11/25 09:05	07/15/25 00:22	
Method: EPA 300.0 - Anions, Ion	Chromatogran	nv - Solubi	e					

07/12/25 02:36

10.1

mg/Kg

125

Released to Imaging: 11/18/2025 10:28:51 AM

Chloride

Matrix: Solid

Lab Sample ID: 880-60264-7

07/15/25 00:38

Lab Sample ID: 880-60264-8

Client: Ensolum

Job ID: 880-60264-1 Project/Site: Pygmy 27 State 3H Produced Water SDG: Lea County

Client Sample ID: PH03

Date Collected: 07/10/25 09:40 Date Received: 07/10/25 16:00

Sample Depth: 1'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/11/25 09:32	07/12/25 05:14	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/11/25 09:32	07/12/25 05:14	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/11/25 09:32	07/12/25 05:14	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		07/11/25 09:32	07/12/25 05:14	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/11/25 09:32	07/12/25 05:14	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		07/11/25 09:32	07/12/25 05:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130			07/11/25 09:32	07/12/25 05:14	1
1,4-Difluorobenzene (Surr)	88		70 - 130			07/11/25 09:32	07/12/25 05:14	1
- Method: TAL SOP Total BTEX	- Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			07/12/25 05:14	1
- Method: SW846 8015 NM - Die	esel Range Organ	ics (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		07/11/25 09:05	07/15/25 00:38	1
Diesel Range Organics (Over C10-C28)	<49.9	U *+	49.9	mg/Kg		07/11/25 09:05	07/15/25 00:38	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/11/25 09:05	07/15/25 00:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130			07/11/25 09:05	07/15/25 00:38	1
o-Terphenyl	96		70 - 130			07/11/25 09:05	07/15/25 00:38	1

49.9

mg/Kg

<49.9 U

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble								
	Analyte	Result Qualifie	er RL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	104	10.1	mg/Kg			07/12/25 02:43	1

Client Sample ID: PH03

Date Collected: 07/10/25 09:40 Date Received: 07/10/25 16:00

Sample Depth: 2'

Total TPH

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		07/11/25 09:32	07/12/25 05:35	1
Toluene	<0.00202	U	0.00202	mg/Kg		07/11/25 09:32	07/12/25 05:35	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		07/11/25 09:32	07/12/25 05:35	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		07/11/25 09:32	07/12/25 05:35	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		07/11/25 09:32	07/12/25 05:35	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		07/11/25 09:32	07/12/25 05:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130			07/11/25 09:32	07/12/25 05:35	

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Matrix: Solid

Client: Ensolum Project/Site: Pygmy 27 State 3H Produced Water Job ID: 880-60264-1

SDG: Lea County

Client Sample ID: PH03

Date Collected: 07/10/25 09:40 Date Received: 07/10/25 16:00

Sample Depth: 2'

Lab Sample ID: 880-60264-8

Matrix: Solid

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

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1 4-Difluorobenzene (Surr)	89	70 - 130	07/11/25 09:32	07/12/25 05:35	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	ma/Ka			07/12/25 05:35	1

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 U	50.0	ma/Ka			07/15/25 00:54	1

Method: SW846 8015B	NM - Diesel Rand	ge Organics	(DRO)	(GC)
Michiga. Offord out ob	ININ - Diesel Itali	ge Organics	(DitO)	(00)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/11/25 09:05	07/15/25 00:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U *+	50.0	mg/Kg		07/11/25 09:05	07/15/25 00:54	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/11/25 09:05	07/15/25 00:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96	70 - 130	07/11/25 09:05	07/15/25 00:54	1
o-Terphenyl	98	70 - 130	07/11/25 09:05	07/15/25 00:54	1

$\label{eq:method:epa300.0} \textbf{Method: EPA 300.0 - Anions, lon Chromatography - Soluble}$

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	107	10.0	mg/Kg		_	07/12/25 02:51	1

Client Sample ID: PH04

Date Collected: 07/10/25 10:22

Lab Sample ID: 880-60264-9

Matrix: Solid

Date Collected: 07/10/25 10:22 Date Received: 07/10/25 16:00

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/11/25 09:32	07/12/25 05:55	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/11/25 09:32	07/12/25 05:55	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/11/25 09:32	07/12/25 05:55	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/11/25 09:32	07/12/25 05:55	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/11/25 09:32	07/12/25 05:55	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/11/25 09:32	07/12/25 05:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130			07/11/25 09:32	07/12/25 05:55	1
1,4-Difluorobenzene (Surr)	89		70 - 130			07/11/25 09:32	07/12/25 05:55	1

Method: TAI	SOP Total RTF	X - Total RTF	K Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	ma/Ka			07/12/25 05:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			07/15/25 01:10	1

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Project/Site: Pygmy 27 State 3H Produced Water

Client: Ensolum

Job ID: 880-60264-1

SDG: Lea County

Client Sample ID: PH04

Date Collected: 07/10/25 10:22 Date Received: 07/10/25 16:00

Sample Depth: 1'

Lab Sample ID: 880-60264-9

Lab Sample ID: 880-60264-10

Matrix: Solid

Matrix: Solid

Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8	mg/Kg		07/11/25 09:05	07/15/25 01:10	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.8	U *+	49.8	mg/Kg		07/11/25 09:05	07/15/25 01:10	1
C10-C28)								
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		07/11/25 09:05	07/15/25 01:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130			07/11/25 09:05	07/15/25 01:10	1
o-Terphenyl	98		70 - 130			07/11/25 09:05	07/15/25 01:10	1
- Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	92.9	-	9.96	mg/Kg			07/12/25 02:58	1

Client Sample ID: PH04

Date Collected: 07/10/25 10:24

Date Received: 07/10/25 16:00

Sample Depth: 2'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/11/25 09:32	07/12/25 06:16	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/11/25 09:32	07/12/25 06:16	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/11/25 09:32	07/12/25 06:16	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		07/11/25 09:32	07/12/25 06:16	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/11/25 09:32	07/12/25 06:16	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		07/11/25 09:32	07/12/25 06:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130			07/11/25 09:32	07/12/25 06:16	1
1,4-Difluorobenzene (Surr)	88		70 - 130			07/11/25 09:32	07/12/25 06:16	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00399	U	0.00399	mg/Kg			07/12/25 06:16	1
•				mg/Kg			07/12/25 06:16	1
: Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)					
Method: SW846 8015 NM - Diese Analyte	el Range Organ Result	ics (DRO) (GC)	Unit	D	Prepared	Analyzed	Dil Fac
: Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)		<u>D</u>	Prepared		
Method: SW846 8015 NM - Diese Analyte	Range Organ Result <49.8	ics (DRO) (Qualifier	RL 49.8	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH	el Range Organ Result <49.8 sel Range Orga	ics (DRO) (Qualifier	RL 49.8	Unit	<u>D</u>	Prepared Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies	el Range Organ Result <49.8 sel Range Orga	Qualifier Unics (DRO) Qualifier	RL 49.8 (GC)	Unit mg/Kg			Analyzed 07/15/25 01:25	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10	el Range Organ Result <49.8 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U u	RL 49.8 (GC)	Unit mg/Kg		Prepared	Analyzed 07/15/25 01:25	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	el Range Organ Result <49.8 sel Range Orga Result <49.8	Qualifier U nics (DRO) Qualifier U u	GC) RL 49.8 (GC) RL 49.8	Unit mg/Kg Unit mg/Kg		Prepared 07/11/25 09:05	Analyzed 07/15/25 01:25 Analyzed 07/15/25 01:25	Dil Fac Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	el Range Organ Result <49.8 sel Range Orga Result <49.8	cics (DRO) (On Qualifier Unics (DRO) Qualifier Unics (DRO) Qualifier Unics Uni	GC) RL 49.8 (GC) RL 49.8	Unit mg/Kg Unit mg/Kg		Prepared 07/11/25 09:05	Analyzed 07/15/25 01:25 Analyzed 07/15/25 01:25	Dil Fac Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	el Range Organ Result <49.8 sel Range Orga Result <49.8 <49.8	cics (DRO) (Control of the property of the pro	GC) RL 49.8 (GC) RL 49.8 49.8	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 07/11/25 09:05 07/11/25 09:05	Analyzed 07/15/25 01:25 Analyzed 07/15/25 01:25 07/15/25 01:25	Dil Fac Dil Fac 1 1 1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	el Range Organ Result 49.8 sel Range Orga Result 49.8 49.8 49.8 49.8	cics (DRO) (Control of the property of the pro	GC) RL 49.8 (GC) RL 49.8 49.8 49.8	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 07/11/25 09:05 07/11/25 09:05 07/11/25 09:05	Analyzed 07/15/25 01:25 Analyzed 07/15/25 01:25 07/15/25 01:25 07/15/25 01:25	Dil Fac Dil Fac 1

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Client: Ensolum Project/Site: Pygmy 27 State 3H Produced Water Job ID: 880-60264-1 SDG: Lea County

Client Sample ID: PH04 Date Collected: 07/10/25 10:24

Lab Sample ID: 880-60264-10

Matrix: Solid

Sample Depth: 2'

Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Soluble	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	75.2		9.92	mg/Kg			07/12/25 03:05	1

Client Sample ID: PH05 Lab Sample ID: 880-60264-11 **Matrix: Solid**

Date Collected: 07/10/25 09:48 Date Received: 07/10/25 16:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Date Received: 07/10/25 16:00

Sample Depth: 1'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/14/25 09:46	07/14/25 16:22	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/14/25 09:46	07/14/25 16:22	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/14/25 09:46	07/14/25 16:22	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		07/14/25 09:46	07/14/25 16:22	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/14/25 09:46	07/14/25 16:22	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		07/14/25 09:46	07/14/25 16:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130			07/14/25 09:46	07/14/25 16:22	1
1,4-Difluorobenzene (Surr)	89		70 - 130			07/14/25 09:46	07/14/25 16:22	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			07/14/25 16:22	1
Method: SW846 8015 NM - Diesel	Range Organ	ics (DRO) (GC)					

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			07/15/25 03:34	1
Method: SW846 8015B NM - Diesel	Range Orga	nics (DRO) ((3C)					

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/11/25 09:08	07/15/25 03:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U *+	50.0	mg/Kg		07/11/25 09:08	07/15/25 03:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/11/25 09:08	07/15/25 03:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130			07/11/25 09:08	07/15/25 03:34	1
o-Terphenyl	98		70 - 130			07/11/25 09:08	07/15/25 03:34	1

Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Soluble	•					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	109		9.94	mg/Kg			07/12/25 03:27	1

Matrix: Solid

Client Sample Results

Client: Ensolum
Project/Site: Pygmy 27 State 3H Produced Water
Job ID: 880-60264-1
SDG: Lea County

Lab Sample ID: 880-60264-12

Client Sample ID: PH05

Date Collected: 07/10/25 09:50 Date Received: 07/10/25 16:00

Sample Depth: 2'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		07/11/25 10:30	07/12/25 04:01	1
Toluene	< 0.00199	U	0.00199	mg/Kg		07/11/25 10:30	07/12/25 04:01	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		07/11/25 10:30	07/12/25 04:01	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		07/11/25 10:30	07/12/25 04:01	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		07/11/25 10:30	07/12/25 04:01	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		07/11/25 10:30	07/12/25 04:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130			07/11/25 10:30	07/12/25 04:01	1
1,4-Difluorobenzene (Surr)	96		70 - 130			07/11/25 10:30	07/12/25 04:01	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			07/12/25 04:01	1
Thethod: SW846 8015 NM - Diese	el Range Organ			mg/kg			07712720 0 1.01	
Analyte	Result	ics (DRO) ((GC)	Unit	<u>D</u>	Prepared	Analyzed	
	•	ics (DRO) ((GC)		<u>D</u>	Prepared		Dil Fac
Analyte	Result <50.0	ics (DRO) (0 Qualifier	RL 50.0	Unit	<u>D</u>	Prepared	Analyzed	
Analyte Total TPH	Result <50.0 sel Range Orga	ics (DRO) (0 Qualifier	RL 50.0	Unit	<u>D</u>	Prepared Prepared	Analyzed	1
Analyte Total TPH Method: SW846 8015B NM - Dies	Result <50.0 sel Range Orga	ics (DRO) ((Qualifier U)	RL 50.0	Unit mg/Kg		· · · · · · · · · · · · · · · · · · ·	Analyzed 07/15/25 04:22	1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result <50.0 sel Range Orga Result	ics (DRO) (O Qualifier U nics (DRO) Qualifier	GC) RL 50.0 (GC) RL	Unit mg/Kg		Prepared	Analyzed 07/15/25 04:22 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 sel Range Orga Result <50.0	ics (DRO) (0 Qualifier U nics (DRO) Qualifier U U *+	(GC) RL 50.0 RL 50.0	Unit mg/Kg Unit mg/Kg		Prepared 07/11/25 09:08	Analyzed 07/15/25 04:22 Analyzed 07/15/25 04:22	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0	ics (DRO) (CQualifier U) mics (DRO) Qualifier U U *+	GC) RL 50.0 (GC) RL 50.0 50.0	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 07/11/25 09:08 07/11/25 09:08	Analyzed 07/15/25 04:22 Analyzed 07/15/25 04:22 07/15/25 04:22	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	Result <50.0	ics (DRO) (CQualifier U) mics (DRO) Qualifier U U *+	GC) RL 50.0 (GC) RL 50.0 50.0 50.0	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 07/11/25 09:08 07/11/25 09:08 07/11/25 09:08	Analyzed 07/15/25 04:22 Analyzed 07/15/25 04:22 07/15/25 04:22	Dil Fac 1 1 Dil Fac Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate	Result <50.0	ics (DRO) (CQualifier U) mics (DRO) Qualifier U U *+	GC) RL 50.0 (GC) RL 50.0 50.0 50.0 Limits	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 07/11/25 09:08 07/11/25 09:08 07/11/25 09:08 Prepared	Analyzed 07/15/25 04:22 Analyzed 07/15/25 04:22 07/15/25 04:22 07/15/25 04:22 Analyzed	Dil Fac 1 1 Dil Fac 1 1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <50.0	ics (DRO) (Control of the property of the prop	GC) RL 50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 07/11/25 09:08 07/11/25 09:08 07/11/25 09:08 Prepared 07/11/25 09:08	Analyzed 07/15/25 04:22 Analyzed 07/15/25 04:22 07/15/25 04:22 Analyzed 07/15/25 04:22	Dil Fac 1 1 Dil Fac Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	ics (DRO) (Control of the property of the prop	GC) RL 50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 07/11/25 09:08 07/11/25 09:08 07/11/25 09:08 Prepared 07/11/25 09:08	Analyzed 07/15/25 04:22 Analyzed 07/15/25 04:22 07/15/25 04:22 Analyzed 07/15/25 04:22	Dil Fac 1 1 1 Dil Fac 1

Surrogate Summary

Client: Ensolum Job ID: 880-60264-1 Project/Site: Pygmy 27 State 3H Produced Water SDG: Lea County

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	Percent Surrogate Recovery (Acceptance Limits)
Lab Camada ID	Olicant Communication	(70-130)	(70-130)	
Lab Sample ID 880-60264-1	Client Sample ID PH01	(70-130) 588 S1+	84	
880-60264-1	PH01	148 S1+	0 4 105	
880-60264-3	PH01	140 51+	87	
880-60264-5	PH02			
		126	89	
880-60264-6	PH02	124	91	
880-60264-7	PH03	123	88	
880-60264-8	PH03	121	89	
880-60264-9	PH04	131 S1+	89	
880-60264-10	PH04	130	88	
880-60264-11	PH05	98	89	
880-60264-12	PH05	98	96	
LCS 880-113971/1-A	Lab Control Sample	112	97	
LCS 880-113987/1-A	Lab Control Sample	97	103	
LCS 880-113989/1-A	Lab Control Sample	96	102	
LCSD 880-113971/2-A	Lab Control Sample Dup	120	91	
LCSD 880-113987/2-A	Lab Control Sample Dup	100	98	
LCSD 880-113989/2-A	Lab Control Sample Dup	99	97	
MB 880-113951/5-A	Method Blank	96	85	
MB 880-113953/5-A	Method Blank	108	89	
MB 880-113971/5-A	Method Blank	110	88	
MB 880-113987/5-A	Method Blank	94	86	
MB 880-113989/5-A	Method Blank	102	81	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-60264-1	PH01	107	160 S1+	
880-60264-2	PH01	97	99	
880-60264-3	PH01	96	98	
880-60264-5	PH02	92	91	
880-60264-6	PH02	97	99	
880-60264-7	PH03	94	96	
880-60264-8	PH03	96	98	
880-60264-9	PH04	97	98	
880-60264-10	PH04	99	102	
880-60264-11	PH05	97	98	
880-60264-11 MS	PH05	87	97	
880-60264-11 MSD	PH05	107	97	
880-60264-12	PH05	100	102	
LCS 880-113957/2-A	Lab Control Sample	93	103	
LCS 880-113958/2-A	Lab Control Sample	92	102	
LCSD 880-113957/3-A	Lab Control Sample Dup	93	104	
LCSD 880-113958/3-A	Lab Control Sample Dup	91	102	

Surrogate Summary

Client: Ensolum Job ID: 880-60264-1 Project/Site: Pygmy 27 State 3H Produced Water SDG: Lea County

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Re
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
MB 880-113957/1-A	Method Blank	102	106	
MB 880-113958/1-A	Method Blank	99	102	
Surrogate Legend				
1CO = 1-Chlorooctane				
OTPH = o-Terphenyl				

Job ID: 880-60264-1

SDG: Lea County

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-113951/5-A

Project/Site: Pygmy 27 State 3H Produced Water

Matrix: Solid

Analysis Batch: 113947

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 113951

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/11/25 08:30	07/11/25 11:15	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/11/25 08:30	07/11/25 11:15	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/11/25 08:30	07/11/25 11:15	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/11/25 08:30	07/11/25 11:15	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/11/25 08:30	07/11/25 11:15	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/11/25 08:30	07/11/25 11:15	1
	MD	MB						

MB MB

MD MD

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	07/11/25 08:30	07/11/25 11:15	1
1,4-Difluorobenzene (Surr)	85		70 - 130	07/11/25 08:30	07/11/25 11:15	1

Lab Sample ID: MB 880-113953/5-A

Matrix: Solid

Analysis Batch: 113946

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

Prep Batch: 113953

	I	W.D							
Analyte	Result (Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa	
Benzene	<0.00200 U	U	0.00200	mg/Kg		07/11/25 08:40	07/11/25 11:15		
Toluene	<0.00200 l	U	0.00200	mg/Kg		07/11/25 08:40	07/11/25 11:15		
Ethylbenzene	<0.00200 l	U	0.00200	mg/Kg		07/11/25 08:40	07/11/25 11:15		
m-Xylene & p-Xylene	<0.00400 U	U	0.00400	mg/Kg		07/11/25 08:40	07/11/25 11:15		
o-Xylene	<0.00200 l	U	0.00200	mg/Kg		07/11/25 08:40	07/11/25 11:15		
Xylenes, Total	<0.00400 l	U	0.00400	mg/Kg		07/11/25 08:40	07/11/25 11:15		

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	07/11/25 08:40	07/11/25 11:15	1
1,4-Difluorobenzene (Surr)	89		70 - 130	07/11/25 08:40	07/11/25 11:15	1

Lab Sample ID: MB 880-113971/5-A

Matrix: Solid

Analysis Batch: 113946

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 113971

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/11/25 09:32	07/11/25 22:12	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/11/25 09:32	07/11/25 22:12	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/11/25 09:32	07/11/25 22:12	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/11/25 09:32	07/11/25 22:12	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/11/25 09:32	07/11/25 22:12	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/11/25 09:32	07/11/25 22:12	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	07/11/25 09:32	07/11/25 22:12	1
1,4-Difluorobenzene (Surr)	88		70 - 130	07/11/25 09:32	07/11/25 22:12	1

QC Sample Results

Client: Ensolum Job ID: 880-60264-1 SDG: Lea County Project/Site: Pygmy 27 State 3H Produced Water

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

Lab Sample ID: LCS 880-113971/1-A

Matrix: Solid

Analysis Batch: 113946

Client	Sample	ID:	Lab	Control	Samp	le

Prep Type: Total/NA

Prep Batch: 113971

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08878		mg/Kg		89	70 - 130	
Toluene	0.100	0.08703		mg/Kg		87	70 - 130	
Ethylbenzene	0.100	0.08427		mg/Kg		84	70 - 130	
m-Xylene & p-Xylene	0.200	0.1646		mg/Kg		82	70 - 130	
o-Xylene	0.100	0.08484		mg/Kg		85	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1.4-Difluorobenzene (Surr)	97		70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 113971

Prep Batch: 113987

Matrix: Solid

Lab Sample ID: LCSD 880-113971/2-A

Analysis Batch: 113946

						•				
	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.08475		mg/Kg		85	70 - 130	5	35	
Toluene	0.100	0.09099		mg/Kg		91	70 - 130	4	35	
Ethylbenzene	0.100	0.09198		mg/Kg		92	70 - 130	9	35	
m-Xylene & p-Xylene	0.200	0.1847		mg/Kg		92	70 - 130	11	35	
o-Xylene	0.100	0.09487		mg/Kg		95	70 - 130	11	35	

LCSD LCSD

Surrogate	%Recovery Qu	alifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1.4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: MB 880-113987/5-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 113947

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/11/25 10:30	07/11/25 22:40	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/11/25 10:30	07/11/25 22:40	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/11/25 10:30	07/11/25 22:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/11/25 10:30	07/11/25 22:40	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/11/25 10:30	07/11/25 22:40	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/11/25 10:30	07/11/25 22:40	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94	70 - 130	07/11/25 10:30	07/11/25 22:40	1
1,4-Difluorobenzene (Surr)	86	70 - 130	07/11/25 10:30	07/11/25 22:40	1

Lab Sample ID: LCS 880-113987/1-A

Matrix: Solid							Prep	Type: Total/NA
Analysis Batch: 113947							Prep	Batch: 113987
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09412		mg/Kg		94	70 - 130	
Toluene	0.100	0.08665		mg/Kg		87	70 - 130	

Eurofins Midland

Client Sample ID: Lab Control Sample

7/15/2025

Lab Sample ID: LCS 880-113987/1-A

QC Sample Results

Client: Ensolum Project/Site: Pygmy 27 State 3H Produced Water

Job ID: 880-60264-1 SDG: Lea County

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

Matrix: Solid Analysis Batch: 113947 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Ethylbenzene 0.100 0.09613 96 70 - 130 mg/Kg m-Xylene & p-Xylene 0.200 0.1950 mg/Kg 98 70 - 130 0.100 0.09873 o-Xylene mg/Kg 99 70 - 130

Prep Batch: 113987 %Rec

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 113987

Lab Sample ID: LCSD 880-113987/2-A **Matrix: Solid**

Analysis Batch: 113947

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08821		mg/Kg		88	70 - 130	6	35
Toluene	0.100	0.08717		mg/Kg		87	70 - 130	1	35
Ethylbenzene	0.100	0.09648		mg/Kg		96	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.1959		mg/Kg		98	70 - 130	0	35
o-Xylene	0.100	0.09919		mg/Kg		99	70 - 130	0	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: MB 880-113989/5-A

Matrix: Solid

Analysis Batch: 114063

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 113989

MB MB

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/11/25 17:00	07/14/25 12:09	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/11/25 17:00	07/14/25 12:09	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/11/25 17:00	07/14/25 12:09	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/11/25 17:00	07/14/25 12:09	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/11/25 17:00	07/14/25 12:09	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/11/25 17:00	07/14/25 12:09	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	07/11/25 17:00	07/14/25 12:09	1
1,4-Difluorobenzene (Surr)	81		70 - 130	07/11/25 17:00	07/14/25 12:09	1

Lab Sample ID: LCS 880-113989/1-A

Matrix: Solid

Analysis Batch: 114063

Client Sample ID: Lab Control Sample

Prep Type: Total/NA **Prep Batch: 113989**

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	0.100	0.09332		mg/Kg		93	70 - 130
Toluene	0.100	0.09060		mg/Kg		91	70 - 130
Ethylbenzene	0.100	0.1024		mg/Kg		102	70 - 130
m-Xylene & p-Xylene	0.200	0.2086		mg/Kg		104	70 - 130

Client: Ensolum Project/Site: Pygmy 27 State 3H Produced Water Job ID: 880-60264-1

SDG: Lea County

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

Lab Sample ID: LCS 880-113989/1-A

Matrix: Solid

Analysis Batch: 114063

Spike

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 113989
Rec

Analyte	Added	Result Quali	ifier Unit	D	%Rec	Limits
o-Xylene	0.100	0.1049	mg/Kg		105	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: LCSD 880-113989/2-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid
Analysis Batch: 114063

Spike
LCSD LCSD
Prep Type: Total/NA
Prep Batch: 113989
%Rec RPD

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09020		mg/Kg		90	70 - 130	3	35
Toluene	0.100	0.09109		mg/Kg		91	70 - 130	1	35
Ethylbenzene	0.100	0.1023		mg/Kg		102	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.2091		mg/Kg		105	70 - 130	0	35
o-Xylene	0.100	0.1051		mg/Kg		105	70 - 130	0	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

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

Lab Sample ID: MB 880-113957/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 114090 Prep Batch: 113957

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/11/25 09:04	07/14/25 18:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/11/25 09:04	07/14/25 18:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/11/25 09:04	07/14/25 18:48	1
	MD	MD						

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	07/11/25 09:04	07/14/25 18:48	1
o-Terphenyl	106		70 - 130	07/11/25 09:04	07/14/25 18:48	1

-	
Lab Sample ID: LCS 880-113957/2-A	Client Sample ID: Lab Control Sample
Matrix: Solid	Prep Type: Total/NA

 Analysis Batch: 114090
 Prep Batch: 113957

 Spike
 LCS
 LCS
 %Rec

 Analyte
 Added
 Result
 Qualifier
 Unit
 D
 %Rec
 Limits

 Gasoline Range Organics
 1000
 1219
 mg/Kg
 122
 70 - 130

 (GRO)-C6-C10
 0
 1000
 1401 *+ mg/Kg
 140
 70 - 130

 C10-C28)
 0
 1000
 1401 *+ mg/Kg
 140
 70 - 130

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Client: Ensolum

Job ID: 880-60264-1

SDG: Lea County

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

Lab Sample ID: LCSD 880-113957/3-A

Lab Sample ID: MB 880-113958/1-A

Project/Site: Pygmy 27 State 3H Produced Water

Lab Sample ID: LCS 880-113957/2-A **Matrix: Solid**

Analysis Batch: 114090

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 113957

Surrogate %Recovery Qualifier

Limits 1-Chlorooctane 93 70 - 130 o-Terphenyl 103 70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 113957

Analysis Batch: 114090 Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 1000 1271 127 70 - 13020 Gasoline Range Organics mg/Kg 4 (GRO)-C6-C10 Diesel Range Organics (Over 1000 1403 *+ 140 mg/Kg 70 - 1300 20

C10-C28)

Matrix: Solid

Analysis Batch: 114090

Matrix: Solid

LCSD LCSD

LCS LCS

Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 93 104 70 - 130 o-Terphenyl

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 113958

MB MB Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Gasoline Range Organics <50.0 U 50.0 mg/Kg 07/11/25 09:04 07/15/25 02:47 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 07/11/25 09:04 07/15/25 02:47 C10-C28)

Oil Range Organics (Over C28-C36) <50.0 U 50.0 07/11/25 09:04 07/15/25 02:47 mg/Kg MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 70 - 130 1-Chlorooctane 99 07/11/25 09:04 07/15/25 02:47 102 70 - 130 07/11/25 09:04 o-Terphenyl 07/15/25 02:47

Lab Sample ID: LCS 880-113958/2-A Client Sample ID: Lab Control Sample

Matrix: Solid Prep Type: Total/NA Analysis Batch: 114090 Prep Batch: 113958

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits

1000 Gasoline Range Organics 1200 120 70 - 130 mg/Kg (GRO)-C6-C10 1000 1391 *+ 139 70 - 130 Diesel Range Organics (Over mg/Kg

C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	92		70 - 130
o-Terphenyl	102		70 - 130

Client: Ensolum Job ID: 880-60264-1 Project/Site: Pygmy 27 State 3H Produced Water

SDG: Lea County

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

Lab Sample ID: LCSD 880-113958/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 114090 **Prep Batch: 113958**

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	1245		mg/Kg		124	70 - 130	4	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	1393	*+	mg/Kg		139	70 - 130	0	20

C10-C28) LCSD LCSD

	2002 2002						
Surrogate	%Recovery	Qualifier	Limits				
1-Chlorooctane	91		70 - 130				
o-Terphenyl	102		70 - 130				

Lab Sample ID: 880-60264-11 MS **Client Sample ID: PH05**

Matrix: Solid Prep Type: Total/NA Analysis Batch: 114090 **Prep Batch: 113958**

Sample Sample Spike %Rec

	Campic	Cumpic	Opino	1110					701100	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	995	860.5		mg/Kg		86	70 - 130	
Diesel Range Organics (Over	<50.0	U *+	995	976.0		mg/Kg		98	70 - 130	

C10-C28)

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	87		70 - 130
o-Terphenyl	97		70 - 130

97

MD MD

Lab Sample ID: 880-60264-11 MSD **Client Sample ID: PH05**

Matrix: Solid Prep Type: Total/NA Analysis Batch: 114090 **Prep Batch: 113958**

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	995	882.5		mg/Kg		89	70 - 130	3	20	
Diesel Range Organics (Over	<50.0	U *+	995	939.5		mg/Kg		94	70 - 130	4	20	

C10-C28)			
	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	107		70 - 130

70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-113985/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 114024

o-Terphenyl

		_					
Analyte	Result Qu	ualifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0 U	10.0	mg/Kg			07/12/25 01:03	1

QC Sample Results

Client: Ensolum Job ID: 880-60264-1
Project/Site: Pygmy 27 State 3H Produced Water SDG: Lea County

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-113985/2-A

Client Sample ID: Lab Control Sample
Matrix: Solid

Prep Type: Soluble

Analysis Batch: 114024

 Analyte
 Added Chloride
 Result 250
 Qualifier 233.3
 Unit mg/Kg
 D 93
 90 - 110

Lab Sample ID: LCSD 880-113985/3-A

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 114024

Spike LCSD LCSD %Rec RPD Added Result Qualifier RPD Limit Analyte Unit D %Rec Limits Chloride 250 232.7 mg/Kg 93 0

Lab Sample ID: 880-60264-10 MS

Matrix: Solid

Client Sample ID: PH04

Prep Type: Soluble

Analysis Batch: 114024

MS MS %Rec Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 75.2 248 316.8 97 mg/Kg 90 - 110

Lab Sample ID: 880-60264-10 MSD

Matrix: Solid

Client Sample ID: PH04

Prep Type: Soluble

Matrix. Oona

Analysis Batch: 114024

Sample Sample MSD MSD RPD Spike %Rec Analyte Result Qualifier Added Qualifier Unit %Rec RPD Limit Result Limits 317.5 Chloride 75.2 248 90 - 110 0 20 mg/Kg

Client: Ensolum Project/Site: Pygmy 27 State 3H Produced Water Job ID: 880-60264-1 SDG: Lea County

GC VOA

Analysis Batch: 113946

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60264-1	PH01	Total/NA	Solid	8021B	113971
880-60264-2	PH01	Total/NA	Solid	8021B	113971
880-60264-3	PH01	Total/NA	Solid	8021B	113971
880-60264-5	PH02	Total/NA	Solid	8021B	113971
880-60264-6	PH02	Total/NA	Solid	8021B	113971
880-60264-7	PH03	Total/NA	Solid	8021B	113971
880-60264-8	PH03	Total/NA	Solid	8021B	113971
880-60264-9	PH04	Total/NA	Solid	8021B	113971
880-60264-10	PH04	Total/NA	Solid	8021B	113971
MB 880-113953/5-A	Method Blank	Total/NA	Solid	8021B	113953
MB 880-113971/5-A	Method Blank	Total/NA	Solid	8021B	113971
LCS 880-113971/1-A	Lab Control Sample	Total/NA	Solid	8021B	113971
LCSD 880-113971/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	113971

Analysis Batch: 113947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60264-12	PH05	Total/NA	Solid	8021B	113987
MB 880-113951/5-A	Method Blank	Total/NA	Solid	8021B	113951
MB 880-113987/5-A	Method Blank	Total/NA	Solid	8021B	113987
LCS 880-113987/1-A	Lab Control Sample	Total/NA	Solid	8021B	113987
LCSD 880-113987/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	113987

Prep Batch: 113951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-113951/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 113953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-113953/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 113971

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60264-1	PH01	Total/NA	Solid	5035	
880-60264-2	PH01	Total/NA	Solid	5035	
880-60264-3	PH01	Total/NA	Solid	5035	
880-60264-5	PH02	Total/NA	Solid	5035	
880-60264-6	PH02	Total/NA	Solid	5035	
880-60264-7	PH03	Total/NA	Solid	5035	
880-60264-8	PH03	Total/NA	Solid	5035	
880-60264-9	PH04	Total/NA	Solid	5035	
880-60264-10	PH04	Total/NA	Solid	5035	
MB 880-113971/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-113971/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-113971/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 113987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60264-12	PH05	Total/NA	Solid	5035	
MB 880-113987/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-113987/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-113987/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

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Client: Ensolum

Project/Site: Pygmy 27 State 3H Produced Water

Job ID: 880-60264-1 SDG: Lea County

GC VOA

Prep Batch: 113989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60264-1	PH01	Total/NA	Solid	5035	
880-60264-11	PH05	Total/NA	Solid	5035	
MB 880-113989/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-113989/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-113989/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 114063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60264-1	PH01	Total/NA	Solid	8021B	113989
880-60264-11	PH05	Total/NA	Solid	8021B	113989
MB 880-113989/5-A	Method Blank	Total/NA	Solid	8021B	113989
LCS 880-113989/1-A	Lab Control Sample	Total/NA	Solid	8021B	113989
LCSD 880-113989/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	113989

Analysis Batch: 114097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60264-1	PH01	Total/NA	Solid	Total BTEX	
880-60264-2	PH01	Total/NA	Solid	Total BTEX	
880-60264-3	PH01	Total/NA	Solid	Total BTEX	
880-60264-5	PH02	Total/NA	Solid	Total BTEX	
880-60264-6	PH02	Total/NA	Solid	Total BTEX	
880-60264-7	PH03	Total/NA	Solid	Total BTEX	
880-60264-8	PH03	Total/NA	Solid	Total BTEX	
880-60264-9	PH04	Total/NA	Solid	Total BTEX	
880-60264-10	PH04	Total/NA	Solid	Total BTEX	
880-60264-11	PH05	Total/NA	Solid	Total BTEX	
880-60264-12	PH05	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 113957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60264-1	PH01	Total/NA	Solid	8015NM Prep	
880-60264-2	PH01	Total/NA	Solid	8015NM Prep	
880-60264-3	PH01	Total/NA	Solid	8015NM Prep	
880-60264-5	PH02	Total/NA	Solid	8015NM Prep	
880-60264-6	PH02	Total/NA	Solid	8015NM Prep	
880-60264-7	PH03	Total/NA	Solid	8015NM Prep	
880-60264-8	PH03	Total/NA	Solid	8015NM Prep	
880-60264-9	PH04	Total/NA	Solid	8015NM Prep	
880-60264-10	PH04	Total/NA	Solid	8015NM Prep	
MB 880-113957/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-113957/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-113957/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 113958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60264-11	PH05	Total/NA	Solid	8015NM Prep	
880-60264-12	PH05	Total/NA	Solid	8015NM Prep	
MB 880-113958/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-113958/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

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Client: Ensolum

Project/Site: Pygmy 27 State 3H Produced Water

Job ID: 880-60264-1 SDG: Lea County

County

GC Semi VOA (Continued)

Prep Batch: 113958 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch
LCSD 880-113958/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep
880-60264-11 MS	PH05	Total/NA	Solid	8015NM Prep
880-60264-11 MSD	PH05	Total/NA	Solid	8015NM Prep

Analysis Batch: 114090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60264-1	PH01	Total/NA	Solid	8015B NM	113957
880-60264-2	PH01	Total/NA	Solid	8015B NM	113957
880-60264-3	PH01	Total/NA	Solid	8015B NM	113957
880-60264-5	PH02	Total/NA	Solid	8015B NM	113957
880-60264-6	PH02	Total/NA	Solid	8015B NM	113957
880-60264-7	PH03	Total/NA	Solid	8015B NM	113957
880-60264-8	PH03	Total/NA	Solid	8015B NM	113957
880-60264-9	PH04	Total/NA	Solid	8015B NM	113957
880-60264-10	PH04	Total/NA	Solid	8015B NM	113957
880-60264-11	PH05	Total/NA	Solid	8015B NM	113958
880-60264-12	PH05	Total/NA	Solid	8015B NM	113958
MB 880-113957/1-A	Method Blank	Total/NA	Solid	8015B NM	113957
MB 880-113958/1-A	Method Blank	Total/NA	Solid	8015B NM	113958
LCS 880-113957/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	113957
LCS 880-113958/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	113958
LCSD 880-113957/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	113957
LCSD 880-113958/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	113958
880-60264-11 MS	PH05	Total/NA	Solid	8015B NM	113958
880-60264-11 MSD	PH05	Total/NA	Solid	8015B NM	113958

Analysis Batch: 114204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60264-1	PH01	Total/NA	Solid	8015 NM	
880-60264-2	PH01	Total/NA	Solid	8015 NM	
880-60264-3	PH01	Total/NA	Solid	8015 NM	
880-60264-5	PH02	Total/NA	Solid	8015 NM	
880-60264-6	PH02	Total/NA	Solid	8015 NM	
880-60264-7	PH03	Total/NA	Solid	8015 NM	
880-60264-8	PH03	Total/NA	Solid	8015 NM	
880-60264-9	PH04	Total/NA	Solid	8015 NM	
880-60264-10	PH04	Total/NA	Solid	8015 NM	
880-60264-11	PH05	Total/NA	Solid	8015 NM	
880-60264-12	PH05	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 113985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60264-1	PH01	Soluble	Solid	DI Leach	
880-60264-2	PH01	Soluble	Solid	DI Leach	
880-60264-3	PH01	Soluble	Solid	DI Leach	
880-60264-5	PH02	Soluble	Solid	DI Leach	
880-60264-6	PH02	Soluble	Solid	DI Leach	
880-60264-7	PH03	Soluble	Solid	DI Leach	
880-60264-8	PH03	Soluble	Solid	DI Leach	

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Client: Ensolum

Job ID: 880-60264-1 Project/Site: Pygmy 27 State 3H Produced Water SDG: Lea County

HPLC/IC (Continued)

Leach Batch: 113985 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60264-9	PH04	Soluble	Solid	DI Leach	
880-60264-10	PH04	Soluble	Solid	DI Leach	
880-60264-11	PH05	Soluble	Solid	DI Leach	
880-60264-12	PH05	Soluble	Solid	DI Leach	
MB 880-113985/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-113985/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-113985/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-60264-10 MS	PH04	Soluble	Solid	DI Leach	
880-60264-10 MSD	PH04	Soluble	Solid	DI Leach	

Analysis Batch: 114024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60264-1	PH01	Soluble	Solid	300.0	113985
880-60264-2	PH01	Soluble	Solid	300.0	113985
880-60264-3	PH01	Soluble	Solid	300.0	113985
880-60264-5	PH02	Soluble	Solid	300.0	113985
880-60264-6	PH02	Soluble	Solid	300.0	113985
880-60264-7	PH03	Soluble	Solid	300.0	113985
880-60264-8	PH03	Soluble	Solid	300.0	113985
880-60264-9	PH04	Soluble	Solid	300.0	113985
880-60264-10	PH04	Soluble	Solid	300.0	113985
880-60264-11	PH05	Soluble	Solid	300.0	113985
880-60264-12	PH05	Soluble	Solid	300.0	113985
MB 880-113985/1-A	Method Blank	Soluble	Solid	300.0	113985
LCS 880-113985/2-A	Lab Control Sample	Soluble	Solid	300.0	113985
LCSD 880-113985/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	113985
880-60264-10 MS	PH04	Soluble	Solid	300.0	113985
880-60264-10 MSD	PH04	Soluble	Solid	300.0	113985

Project/Site: Pygmy 27 State 3H Produced Water

Matrix: Solid

Client Sample ID: PH01

Date Collected: 07/10/25 09:52 Date Received: 07/10/25 16:00

_	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			113989	AA	EET MID	07/14/25 09:46
Total/NA	Analysis	8021B		20	114063	MNR	EET MID	07/14/25 16:42
Total/NA	Prep	5035			113971	AA	EET MID	07/11/25 09:32
Total/NA	Analysis	8021B		1	113946	MNR	EET MID	07/12/25 03:32
Total/NA	Analysis	Total BTEX		1	114097	SA	EET MID	07/14/25 16:42
Total/NA	Analysis	8015 NM		1	114204	SA	EET MID	07/14/25 23:19
Total/NA	Prep	8015NM Prep			113957	EL	EET MID	07/11/25 09:05
Total/NA	Analysis	8015B NM		1	114090	TKC	EET MID	07/14/25 23:19
Soluble	Leach	DI Leach			113985	SMC	EET MID	07/11/25 10:26
Soluble	Analysis	300.0		1	114024	CS	EET MID	07/12/25 01:53

Client Sample ID: PH01 Lab Sample ID: 880-60264-2

Date Collected: 07/10/25 10:14 Date Received: 07/10/25 16:00

Batch		Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			113971	AA	EET MID	07/11/25 09:32
Total/NA	Analysis	8021B		1	113946	MNR	EET MID	07/12/25 03:53
Total/NA	Analysis	Total BTEX		1	114097	SA	EET MID	07/12/25 03:53
Total/NA	Analysis	8015 NM		1	114204	SA	EET MID	07/14/25 23:35
Total/NA	Prep	8015NM Prep			113957	EL	EET MID	07/11/25 09:05
Total/NA	Analysis	8015B NM		1	114090	TKC	EET MID	07/14/25 23:35
Soluble	Leach	DI Leach			113985	SMC	EET MID	07/11/25 10:26
Soluble	Analysis	300.0		5	114024	CS	EET MID	07/12/25 02:00

Client Sample ID: PH01 Lab Sample ID: 880-60264-3 Matrix: Solid

Date Collected: 07/10/25 10:52 Date Received: 07/10/25 16:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			113971	AA	EET MID	07/11/25 09:32
Total/NA	Analysis	8021B		1	113946	MNR	EET MID	07/12/25 04:13
Total/NA	Analysis	Total BTEX		1	114097	SA	EET MID	07/12/25 04:13
Total/NA	Analysis	8015 NM		1	114204	SA	EET MID	07/14/25 23:50
Total/NA	Prep	8015NM Prep			113957	EL	EET MID	07/11/25 09:05
Total/NA	Analysis	8015B NM		1	114090	TKC	EET MID	07/14/25 23:50
Soluble	Leach	DI Leach			113985	SMC	EET MID	07/11/25 10:26
Soluble	Analysis	300.0		1	114024	CS	EET MID	07/12/25 02:07

Job ID: 880-60264-1 Project/Site: Pygmy 27 State 3H Produced Water

SDG: Lea County

Client Sample ID: PH02

Client: Ensolum

Date Collected: 07/10/25 09:36 Date Received: 07/10/25 16:00

Lab Sample ID: 880-60264-5

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			113971	AA	EET MID	07/11/25 09:32
Total/NA	Analysis	8021B		1	113946	MNR	EET MID	07/12/25 04:34
Total/NA	Analysis	Total BTEX		1	114097	SA	EET MID	07/12/25 04:34
Total/NA	Analysis	8015 NM		1	114204	SA	EET MID	07/15/25 00:07
Total/NA	Prep	8015NM Prep			113957	EL	EET MID	07/11/25 09:05
Total/NA	Analysis	8015B NM		1	114090	TKC	EET MID	07/15/25 00:07
Soluble	Leach	DI Leach			113985	SMC	EET MID	07/11/25 10:26
Soluble	Analysis	300.0		1	114024	CS	EET MID	07/12/25 02:29

Lab Sample ID: 880-60264-6

Matrix: Solid

Date Collected: 07/10/25 09:38 Date Received: 07/10/25 16:00

Client Sample ID: PH02

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor **Number Analyst** Lab or Analyzed Prep 5035 07/11/25 09:32 Total/NA 113971 AA EET MID Total/NA 8021B 07/12/25 04:54 Analysis 113946 MNR EET MID Total/NA Total BTEX 07/12/25 04:54 Analysis 1 114097 SA **EET MID** Total/NA Analysis 8015 NM 114204 SA **EET MID** 07/15/25 00:22 Total/NA EET MID 07/11/25 09:05 Prep 8015NM Prep 113957 EL Total/NA Analysis 8015B NM 114090 TKC **EET MID** 07/15/25 00:22 07/11/25 10:26 Soluble **EET MID** Leach DI Leach 113985 SMC Soluble Analysis 300.0 1 114024 CS **EET MID** 07/12/25 02:36

Client Sample ID: PH03

Date Collected: 07/10/25 09:40 Date Received: 07/10/25 16:00

Lab Sample ID: 880-60264-7

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			113971	AA	EET MID	07/11/25 09:32
Total/NA	Analysis	8021B		1	113946	MNR	EET MID	07/12/25 05:14
Total/NA	Analysis	Total BTEX		1	114097	SA	EET MID	07/12/25 05:14
Total/NA	Analysis	8015 NM		1	114204	SA	EET MID	07/15/25 00:38
Total/NA	Prep	8015NM Prep			113957	EL	EET MID	07/11/25 09:05
Total/NA	Analysis	8015B NM		1	114090	TKC	EET MID	07/15/25 00:38
Soluble	Leach	DI Leach			113985	SMC	EET MID	07/11/25 10:26
Soluble	Analysis	300.0		1	114024	CS	EET MID	07/12/25 02:43

Client Sample ID: PH03

Date Collected: 07/10/25 09:40 Date Received: 07/10/25 16:00

Lab Sample ID: 880-60264-8

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			113971	AA	EET MID	07/11/25 09:32
Total/NA	Analysis	8021B		1	113946	MNR	EET MID	07/12/25 05:35
Total/NA	Analysis	Total BTEX		1	114097	SA	EET MID	07/12/25 05:35

Client: Ensolum

Project/Site: Pygmy 27 State 3H Produced Water

Job ID: 880-60264-1

SDG: Lea County

Client Sample ID: PH03

Date Collected: 07/10/25 09:40 Date Received: 07/10/25 16:00

Lab Sample ID: 880-60264-8

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8015 NM			114204	SA	EET MID	07/15/25 00:54
Total/NA	Prep	8015NM Prep			113957	EL	EET MID	07/11/25 09:05
Total/NA	Analysis	8015B NM		1	114090	TKC	EET MID	07/15/25 00:54
Soluble	Leach	DI Leach			113985	SMC	EET MID	07/11/25 10:26
Soluble	Analysis	300.0		1	114024	CS	EET MID	07/12/25 02:51

Client Sample ID: PH04 Lab Sample ID: 880-60264-9

Date Collected: 07/10/25 10:22 **Matrix: Solid**

Date Received: 07/10/25 16:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			113971	AA	EET MID	07/11/25 09:32
Total/NA	Analysis	8021B		1	113946	MNR	EET MID	07/12/25 05:55
Total/NA	Analysis	Total BTEX		1	114097	SA	EET MID	07/12/25 05:55
Total/NA	Analysis	8015 NM		1	114204	SA	EET MID	07/15/25 01:10
Total/NA	Prep	8015NM Prep			113957	EL	EET MID	07/11/25 09:05
Total/NA	Analysis	8015B NM		1	114090	TKC	EET MID	07/15/25 01:10
Soluble	Leach	DI Leach			113985	SMC	EET MID	07/11/25 10:26
Soluble	Analysis	300.0		1	114024	CS	EET MID	07/12/25 02:58

Client Sample ID: PH04 Lab Sample ID: 880-60264-10 Date Collected: 07/10/25 10:24 **Matrix: Solid**

Date Received: 07/10/25 16:00

Batch Batch Dilution Batch Prepared Method **Prep Type** Type Run Factor Number Analyst Lab or Analyzed Total/NA Prep 5035 113971 AA **EET MID** 07/11/25 09:32 Total/NA 8021B 113946 MNR **EET MID** 07/12/25 06:16 Analysis 1 Total BTEX **EET MID** 07/12/25 06:16 Total/NA Analysis 1 114097 SA Total/NA Analysis 8015 NM 114204 SA **EET MID** 07/15/25 01:25 1 Total/NA Prep 8015NM Prep 113957 EL **EET MID** 07/11/25 09:05 Total/NA Analysis 8015B NM 114090 TKC EET MID 07/15/25 01:25 1 Soluble Leach DI Leach 113985 SMC EET MID 07/11/25 10:26

Client Sample ID: PH05 Lab Sample ID: 880-60264-11

1

114024 CS

EET MID

07/12/25 03:05

Date Collected: 07/10/25 09:48 Date Received: 07/10/25 16:00

Analysis

300.0

Soluble

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			113989	AA	EET MID	07/14/25 09:46
Total/NA	Analysis	8021B		1	114063	MNR	EET MID	07/14/25 16:22
Total/NA	Analysis	Total BTEX		1	114097	SA	EET MID	07/14/25 16:22
Total/NA	Analysis	8015 NM		1	114204	SA	EET MID	07/15/25 03:34
Total/NA	Prep	8015NM Prep			113958	EL	EET MID	07/11/25 09:08
Total/NA	Analysis	8015B NM		1	114090	TKC	EET MID	07/15/25 03:34

Eurofins Midland

Matrix: Solid

Client: Ensolum Project/Site: Pygmy 27 State 3H Produced Water Job ID: 880-60264-1

SDG: Lea County

Client Sample ID: PH05

Lab Sample ID: 880-60264-11

Matrix: Solid

Date Collected: 07/10/25 09:48 Date Received: 07/10/25 16:00

Client Sample ID: PH05

Date Collected: 07/10/25 09:50

Date Received: 07/10/25 16:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Soluble	Leach	DI Leach			113985	SMC	EET MID	07/11/25 10:26
Soluble	Analysis	300.0		1	114024	CS	EET MID	07/12/25 03:27

Lab Sample ID: 880-60264-12

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			113987	AA	EET MID	07/11/25 10:30
Total/NA	Analysis	8021B		1	113947	MNR	EET MID	07/12/25 04:01
Total/NA	Analysis	Total BTEX		1	114097	SA	EET MID	07/12/25 04:01
Total/NA	Analysis	8015 NM		1	114204	SA	EET MID	07/15/25 04:22
Total/NA	Prep	8015NM Prep			113958	EL	EET MID	07/11/25 09:08
Total/NA	Analysis	8015B NM		1	114090	TKC	EET MID	07/15/25 04:22
Soluble	Leach	DI Leach			113985	SMC	EET MID	07/11/25 10:26
Soluble	Analysis	300.0		1	114024	CS	EET MID	07/12/25 03:34

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Pygmy 27 State 3H Produced Water

Job ID: 880-60264-1
SDG: Lea County

Laboratory: Eurofins Midland

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

Authority	Progra	am	Identification Number	Expiration Date
Texas	NELAF)	T104704400	06-30-26
The following analytes	are included in this report. bu	t the laboratory is not certif	fied by the governing authority. This lis	t mav include analvtes
for which the agency do	• •	······································	, gg,	
ior willou the agency de	des not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte	
ů ,		Matrix Solid	Analyte Total TPH	

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Method Summary

Client: Ensolum

Project/Site: Pygmy 27 State 3H Produced Water

Job ID: 880-60264-1

SDG: Lea County

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Matrix

Solid

Collected

07/10/25 09:52

07/10/25 10:14

07/10/25 10:52

07/10/25 09:36

07/10/25 09:38

07/10/25 09:40

07/10/25 09:40

07/10/25 10:22

07/10/25 10:24

07/10/25 09:48

07/10/25 09:50

Received

07/10/25 16:00

07/10/25 16:00

07/10/25 16:00

07/10/25 16:00

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07/10/25 16:00

07/10/25 16:00

07/10/25 16:00

07/10/25 16:00

2'

1'

Client: Ensolum

Lab Sample ID

880-60264-1

880-60264-2

880-60264-3

880-60264-5

880-60264-6

880-60264-7

880-60264-8

880-60264-9

880-60264-10

880-60264-11

880-60264-12

Project/Site: Pygmy 27 State 3H Produced Water

Client Sample ID

PH01

PH01

PH01

PH02

PH02

PH03

PH03

PH04

PH04

PH05

PH05

Job ID: 880-60264-1

SDG: Lea County

Depth				
3'				
5'				
6'				
1'				
2'				
1'				

880-60264 Chain of Custody

Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296

Environment Testing

Xenco

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

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11 . 1		Hobbs,	NM (575) 3	92-7550, Carlsba	Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	www.xenco.com	m Page
oject Manager: Had 11 GREEN		Bill to: (if different)				Work Order Comments	Comments
Ensolum 9	45. I. C.	Gompany Name:				Program: UST/PST PRP B	Brownfields ☐ RRC ☐ Superfund ☐
ST XT Deep	100	City, State ZIP:				Reporting: Level II	PST/UST TRRP Level IV
432-252-564	Email:		ensdun	1	Compo	Deliverables: EDD A	ADaPT ☐ Other:
olect Name: Page 27 Starte	3.14	Turn Around			ANALYSIS REQUEST	JEST	Preservative Codes
oject Number: Produced water	Rout	Rush	Pres. Code				None: NO DI Water: H ₂ O
oject Location:	Due Date:			1-			Cool: Cool
	Ī	TAT starts the day received by the lab, if received by 4:30pm	12	-			HCL: HC HNO 3: HN
OLE RECEIPT	No) Wet Ice:	o _N	sters	5/0	0		
tact: Yes No	Thermometer ID:	7288	men	78			NaHSO 4: NABIS
ooler Custody Seals: Yes No MA Correct	Correction Factor:	12	eq .	7	21		Na ₂ S ₂ O ₃ : NaSO ₃
ample Custody Seals: Yes No N/A Tempe	Temperature Reading:	4.7	J.	H	AC		Zn Acetate+NaOH: Zn
otal Containers:	Corrected Temperature:	4.6	_	1	22.0		NaOH+Ascorbic Acid: SAPC
Sample Identification Matrix Sampled	te Time	Depth Grab/	# of Cont	T 12			Sample Comments
PHO! S TIME	12-0952	3, 6	<u>人</u>	У У			HOLD PHO!
I I I I I I I I I I I I I I I I I I I		5/5	× -	ソメン			7,
PHO!	1052	6, 1	\ <u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u>	X X			
PHOI	1103	7,		TOT	^		
PAOL	0936	1 , 1	_	K K			
prto2	0938	2,	_	メソソ			
Pt63	0240)		くくく			
PH03	0440	2, 1		イソソ			
	7201		X	くく			
5 HOY	1024	2/4	メ	X			
Total 200.7 / 6010 200.8 / 6020: ircle Method(s) and Metal(s) to be analyzed	8RCRA 13PPM TCLP / SPL	Texas 11 P 6010 : 8R0	N Sb As RA Sb A	Al Sb As Ba Be B Cd CRA Sb As Ba Be Cd C	d Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Cr Co Cu Pb Mn Mo Ni Se Ag Tl U	g Mn Mo Ni K Se Ag SiO ₂ Na Sr Tl Sn U V Zn Se Ag Tl U Hg: 1631/245.1/7470 /7471	Sr TI Sn U V Zn 1 / 7470 / 7471
doe: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Euroffins Xenco, its affitiates and subcontractors. It assigns standard terms and responsibility for any losses or expenses incurred by the client if such losses are due to chromostances beyond the control Euroffins Xenco, Aminimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Euroffins Xenco, but not analyzed. These terms will be enforced unless previously neg	tutes a valid purchase ord hall not assume any respo roject and a charge of \$5 (to Eurofins X r expenses in ted to Eurofir	enco, its affiliates ai curred by the client is Xenco, but not ai	from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions billity for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	ms and conditions by the control as previously negotiated.	
Relinquished by: (Signature)	Received by: (Signature)	(4)	Da	Date/Time	Relinquished by: (Signature)	ure) Received by: (Signature)	Ire) Date/Time
1 marin	OW	1000	16	540	2		
)				4		
					9		

Work Order No:

Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334

Environment Testing Xenco

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

Chain of Custody

Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296

7/15/2025

					i			www.xenco.com	n Page of
Project Manager:	16	THEEN		Bill to: (if different)	rent)			Work Order Comments	Comments
Company Name:	130 um	T.C.		Company Na	me:		A STATE OF THE PERSON NAMED IN	Program: UST/PST	Brownfields ☐ RRC ☐ Superfund ☐
Address: 60	More	4174	FLY LOW	Address:				State of Project:	
City, State ZIP:	Jond IV	19701		City, State ZIP:	2.			Reporting: Level II	PST/UST TRRP Level IV
Phone: 432	-557	8895	Email:	Ngren		Densolver CC	CODY	Deliverables: EDD AD	ADaPT Other:
Project Name:	127,54at	e 3H	Tum	Turn Around	-		ANALYSIS REQUEST	UEST	Preservative Codes
er:	03 0 262 4356	والمرا	Routine	Rush	Code S				None: NO DI Water: H ₂ O
Project Location:	(and	7	Due Date:						Cool: Cool
	nd re	allo	TAT starts the	TAT starts the day received by		5	Oc		
PO #:	F (07)	326	the lab, if rec	the lab, if received by 4:30pm	Т	7			H ₂ S0 4: H ₂ NaOH: Na
SAMPLE RECEIPT	Temp Blank:	Yes No	Wet Ice:	Yes No	e te r	30	,	57	H₃PO 4: HP
Samples Received Intact:	Yes No	Thermometer ID:	ter ID:		ram	10			NaHSO 4: NABIS
Cooler Custody Seals:	Yes No N/A	Correction Factor:	Factor:		₽9	8	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		Na2S2O3: NaSO 3
Sample Custody Seals:	Yes No N/A	Temperatu	Temperature Reading:			1	017		Zn Acetate+NaOH: Zn
Total Containers:		Corrected	Corrected Temperature:			10	91		NaOH+Ascorbic Acid: SAPC
Sample Identification	Matrix	Date	Time	Depth Gamp	Grab/ # of	11	(I)		Sample Comments
DAKY	~	7/11/10		7		ر د X			
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2)				+				
	00007		1200	- I	- 14	1			T C 11 1/ 7n
Circle Method(s) and Metal(s) to be analyzed	tal(s) to be an		TCLP / SPLP 6010 : 8R	PLP 6010 : 8	RCRA	SPLP 6010: 8RCRA Sb As Ba Be Cd	At 50 As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U	Se Ag TI U Hg: 1631/245.1/7470 / 7471	1/7470 /7471
Notice: Signature of this document and r of service. Eurofins Xenco will be liable o of Eurofins Xenco. Aminimum charge of	elinquishment of sar why for the cost of sa f \$85.00 will be appli	mples constitutes imples and shall no ed to each project	a valid purchase ore of assume any responsed and a charge of \$5	er from client com insibility for any lo for each sample si	pamy to Eur ses or expe ibmitted to	ofins Xenco, its affiliates a nses incurred by the dien Eurofins Xenco, but not a	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be lable only for the cost of samples and shall not assume any responsibility for any beserv or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum change of \$55.00 will be enforced unless previously negotiated of Eurofins Xenco. A minimum change of \$55.00 will be enforced unless previously negotiated.	ms and conditions eyond the control essentials because the control ess previously negotiated.	
Relinquished by: (Signature)	rre)	Received	Received by: (Signature)	(a		Date/Time	Relinquished by: (Signature)	ture) Received by: (Signature)	re) Date/Time
· MON				0)/	N N	1/10/25	2		
3			5		-		4		
					_		*		

Login Sample Receipt Checklist

Client: Ensolum Job Number: 880-60264-1 SDG Number: Lea County

Login Number: 60264 List Source: Eurofins Midland

List Number: 1

Creator: Kramer, Jessica

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

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green

Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 8/26/2025 10:14:21 AM

JOB DESCRIPTION

PYGMY 27 STATE 3H PRODUCED WATER 03D2024356

JOB NUMBER

890-8718-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220



Eurofins Carlsbad

Job Notes

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

Authorization

Generated 8/26/2025 10:14:21 AM

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Client: Ensolum Project/Site: PYGMY 27 STATE 3H PRODUCED WATER Laboratory Job ID: 890-8718-1 SDG: 03D2024356

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Definitions/Glossary

Job ID: 890-8718-1 Client: Ensolum Project/Site: PYGMY 27 STATE 3H PRODUCED WATER SDG: 03D2024356

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier **Qualifier Description**

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

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

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

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

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

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

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

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

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

TNTC Too Numerous To Count

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Case Narrative

Client: Ensolum Job ID: 890-8718-1

Project: PYGMY 27 STATE 3H PRODUCED WATER

Eurofins Carlsbad Job ID: 890-8718-1

Job Narrative 890-8718-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when sitespecific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 8/21/2025 4:15 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 5.8°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: FS 01 (890-8718-1), FS 02 (890-8718-2), FS 03 (890-8718-3) and FS 04 (890-8718-4).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-117391 and analytical batch 880-117424 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Diesel Range Organics

Method 8015MOD NM: Surrogate recovery for the following sample was outside control limits: (890-8715-A-8-B MS). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

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Matrix: Solid

Lab Sample ID: 890-8718-1

Client Sample Results

Client: Ensolum Job ID: 890-8718-1
Project/Site: PYGMY 27 STATE 3H PRODUCED WATER SDG: 03D2024356

Client Sample ID: FS 01

Date Collected: 08/21/25 11:58 Date Received: 08/21/25 16:15

Sample Depth: 9

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		08/22/25 11:58	08/24/25 10:46	1
Toluene	<0.00202	U	0.00202	mg/Kg		08/22/25 11:58	08/24/25 10:46	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		08/22/25 11:58	08/24/25 10:46	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		08/22/25 11:58	08/24/25 10:46	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		08/22/25 11:58	08/24/25 10:46	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		08/22/25 11:58	08/24/25 10:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130			08/22/25 11:58	08/24/25 10:46	1
1,4-Difluorobenzene (Surr)	88		70 - 130			08/22/25 11:58	08/24/25 10:46	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			08/24/25 10:46	1
Method: SW846 8015 NM - Diese Analyte Total TPH		Qualifier	GC) RL 49.8	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 08/26/25 06:52	Dil Fac
				0 0				
Method: SW846 8015B NM - Dies		,	· /		_			
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		08/22/25 07:49	08/26/25 06:52	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/22/25 07:49	08/26/25 06:52	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/22/25 07:49	08/26/25 06:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130			08/22/25 07:49	08/26/25 06:52	1
o-Terphenyl	73		70 - 130			08/22/25 07:49	08/26/25 06:52	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: FS 02

Date Collected: 08/21/25 08:19 Date Received: 08/21/25 16:15

Sample Depth: 7

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		08/22/25 11:58	08/24/25 11:06	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/22/25 11:58	08/24/25 11:06	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/22/25 11:58	08/24/25 11:06	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/22/25 11:58	08/24/25 11:06	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/22/25 11:58	08/24/25 11:06	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/22/25 11:58	08/24/25 11:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			08/22/25 11:58	08/24/25 11:06	1

10.0

206

mg/Kg

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08/22/25 19:54

Lab Sample ID: 890-8718-2

Matrix: Solid

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Client: Ensolum
Project/Site: PYGMY 27 STATE 3H PRODUCED WATER

Job ID: 890-8718-1

SDG: 03D2024356

Matrix: Solid

Lab Sample ID: 890-8718-2

Client Sample ID: FS 02

Date Collected: 08/21/25 08:19 Date Received: 08/21/25 16:15

Sample Depth: 7

Method: SW846 8021B	 Volatile Ord 	anic Compound	s (GC)	(Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	91		70 - 130	08/22/25 11:58	08/24/25 11:06	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			08/24/25 11:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			08/26/25 07:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/22/25 07:49	08/26/25 07:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/22/25 07:49	08/26/25 07:07	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/22/25 07:49	08/26/25 07:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	73	70 - 130	08/22/25 07:49	08/26/25 07:07	1
o-Terphenyl	71	70 - 130	08/22/25 07:49	08/26/25 07:07	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	183		9.92	mg/Kg			08/22/25 20:00	1

Client Sample ID: FS 03 Lab Sample ID: 890-8718-3

Date Collected: 08/21/25 10:38 Date Received: 08/21/25 16:15

Sample Depth: 8

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/22/25 11:58	08/24/25 11:27	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/22/25 11:58	08/24/25 11:27	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/22/25 11:58	08/24/25 11:27	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		08/22/25 11:58	08/24/25 11:27	1
o-Xylene	0.00209		0.00200	mg/Kg		08/22/25 11:58	08/24/25 11:27	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		08/22/25 11:58	08/24/25 11:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			08/22/25 11:58	08/24/25 11:27	1
1,4-Difluorobenzene (Surr)	87		70 - 130			08/22/25 11:58	08/24/25 11:27	1

Mothod: TAI	SOP Total RTFY	- Total RTFY	Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00399	U	0.00399	mg/Kg			08/24/25 11:27	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	184		49.8	mg/Kg		_	08/26/25 07:23	1

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4.0

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Matrix: Solid

Matrix: Solid

08/22/25 20:05

Client: Ensolum Job ID: 890-8718-1

Project/Site: PYGMY 27 STATE 3H PRODUCED WATER SDG: 03D2024356 **Client Sample ID: FS 03** Lab Sample ID: 890-8718-3

Date Collected: 08/21/25 10:38 Date Received: 08/21/25 16:15

215

Sample Depth: 8

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		08/22/25 07:49	08/26/25 07:23	1
Diesel Range Organics (Over C10-C28)	184		49.8	mg/Kg		08/22/25 07:49	08/26/25 07:23	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/22/25 07:49	08/26/25 07:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130			08/22/25 07:49	08/26/25 07:23	1
o-Terphenyl	74		70 - 130			08/22/25 07:49	08/26/25 07:23	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: FS 04 Lab Sample ID: 890-8718-4 Date Collected: 08/21/25 08:23 Matrix: Solid

10.1

mg/Kg

Date Received: 08/21/25 16:15

Sample Depth: 7

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		08/22/25 11:58	08/24/25 11:47	1
Toluene	<0.00201	U	0.00201	mg/Kg		08/22/25 11:58	08/24/25 11:47	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		08/22/25 11:58	08/24/25 11:47	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		08/22/25 11:58	08/24/25 11:47	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		08/22/25 11:58	08/24/25 11:47	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		08/22/25 11:58	08/24/25 11:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130			08/22/25 11:58	08/24/25 11:47	1
1,4-Difluorobenzene (Surr)	91		70 - 130			08/22/25 11:58	08/24/25 11:47	1
- Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			08/24/25 11:47	1
- -								
			•					
Method: SW846 8015 NM - Diese Analyte		ics (DRO) (RL	Unit	D	Prepared	Analyzed	Dil Fac
			•	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 08/26/25 07:39	Dil Fac
Analyte Total TPH	Result 123	Qualifier	RL 49.9		<u> </u>	Prepared		
Analyte Total TPH	Result 123	Qualifier	RL 49.9		<u>D</u>	Prepared Prepared		
Analyte Total TPH Method: SW846 8015B NM - Dies	Result 123	Qualifier nics (DRO) Qualifier	RL 49.9	mg/Kg		<u> </u>	08/26/25 07:39	1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte	Result 123 sel Range Orga Result	Qualifier nics (DRO) Qualifier	RL 49.9 (GC)	mg/Kg		Prepared	08/26/25 07:39 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 123 sel Range Orga Result	Qualifier nics (DRO) Qualifier	RL 49.9 (GC)	mg/Kg		Prepared	08/26/25 07:39 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result 123 sel Range Orga Result 8 Result 49.9 123	Qualifier nics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 08/22/25 07:49 08/22/25 07:49	08/26/25 07:39 Analyzed 08/26/25 07:39 08/26/25 07:39	1 Dil Fac 1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	Result 123 sel Range Orga Result <49.9	Qualifier nics (DRO) Qualifier U	(GC) RL 49.9	mg/Kg Unit mg/Kg		Prepared 08/22/25 07:49	08/26/25 07:39 Analyzed 08/26/25 07:39	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result 123 sel Range Orga Result 8 Result 49.9 123	Qualifier nics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 08/22/25 07:49 08/22/25 07:49	08/26/25 07:39 Analyzed 08/26/25 07:39 08/26/25 07:39	1 Dil Fac 1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	Result 123 sel Range Orga	Qualifier nics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 08/22/25 07:49 08/22/25 07:49 08/22/25 07:49	08/26/25 07:39 Analyzed 08/26/25 07:39 08/26/25 07:39 08/26/25 07:39	1 Dil Fac 1 1

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8/26/2025

Client Sample Results

Client: Ensolum Job ID: 890-8718-1 Project/Site: PYGMY 27 STATE 3H PRODUCED WATER SDG: 03D2024356

Lab Sample ID: 890-8718-4 Client Sample ID: FS 04 Matrix: Solid

Date Collected: 08/21/25 08:23 Date Received: 08/21/25 16:15

Sample Depth: 7

Method: EPA 300.0 - Anions, Ion C	hromatography - Soluble						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	378	10.0	mg/Kg			08/25/25 17:48	1

Surrogate Summary

Job ID: 890-8718-1 Client: Ensolum Project/Site: PYGMY 27 STATE 3H PRODUCED WATER SDG: 03D2024356

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		DED4	DED 74	Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-8716-A-8-D MSD	Matrix Spike Duplicate	110	97	
890-8716-A-8-F MS	Matrix Spike	117	95	
890-8718-1	FS 01	110	88	
890-8718-2	FS 02	110	91	
890-8718-3	FS 03	107	87	
890-8718-4	FS 04	109	91	
LCS 880-117391/1-A	Lab Control Sample	111	96	
LCSD 880-117391/2-A	Lab Control Sample Dup	114	95	
MB 880-117176/5-A	Method Blank	112	83	
MB 880-117391/5-A	Method Blank	113	86	

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-8715-A-8-B MS	Matrix Spike	69 S1-	74	
890-8715-A-8-C MSD	Matrix Spike Duplicate	84	75	
890-8718-1	FS 01	73	73	
890-8718-2	FS 02	73	71	
890-8718-3	FS 03	72	74	
890-8718-4	FS 04	76	77	
LCS 880-117339/2-A	Lab Control Sample	99	113	
LCSD 880-117339/3-A	Lab Control Sample Dup	99	114	
MB 880-117339/1-A	Method Blank	86	89	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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Client: Ensolum Job ID: 890-8718-1 Project/Site: PYGMY 27 STATE 3H PRODUCED WATER SDG: 03D2024356

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-117176/5-A

Matrix: Solid

Analysis Batch: 117424

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 117176

1

	МВ	мв						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200	mg/Kg		08/20/25 15:32	08/23/25 22:45	
Toluene	<0.00200	U	0.00200	mg/Kg		08/20/25 15:32	08/23/25 22:45	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/20/25 15:32	08/23/25 22:45	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/20/25 15:32	08/23/25 22:45	
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/20/25 15:32	08/23/25 22:45	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/20/25 15:32	08/23/25 22:45	

MB MB

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	08/20/25 15:32	08/23/25 22:45	1
1,4-Difluorobenzene (Surr)	83		70 - 130	08/20/25 15:32	08/23/25 22:45	1

Lab Sample ID: MB 880-117391/5-A

Matrix: Solid

Analysis Batch: 117424

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 117391

Analyte	Result (Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200 U	U	0.00200	mg/Kg		08/22/25 11:58	08/24/25 09:43	
Toluene	<0.00200 l	U	0.00200	mg/Kg		08/22/25 11:58	08/24/25 09:43	
Ethylbenzene	<0.00200 l	U	0.00200	mg/Kg		08/22/25 11:58	08/24/25 09:43	
m-Xylene & p-Xylene	<0.00400 l	U	0.00400	mg/Kg		08/22/25 11:58	08/24/25 09:43	
o-Xylene	<0.00200 l	U	0.00200	mg/Kg		08/22/25 11:58	08/24/25 09:43	
Xylenes, Total	<0.00400 l	U	0.00400	mg/Kg		08/22/25 11:58	08/24/25 09:43	

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	08/22/25 11:58	08/24/25 09:43	1
1,4-Difluorobenzene (Surr)	86		70 - 130	08/22/25 11:58	08/24/25 09:43	1

Lab Sample ID: LCS 880-117391/1-A

Matrix: Solid

Analysis Batch: 117424

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 117391

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09367		mg/Kg		94	70 - 130	
Toluene	0.100	0.08705		mg/Kg		87	70 - 130	
Ethylbenzene	0.100	0.09828		mg/Kg		98	70 - 130	
m-Xylene & p-Xylene	0.200	0.1950		mg/Kg		97	70 - 130	
o-Xylene	0.100	0.09810		mg/Kg		98	70 - 130	

LCS LCS

Surrogate	%Recovery Qual	lifier Limits
4-Bromofluorobenzene (Surr)	111	70 - 130
1,4-Difluorobenzene (Surr)	96	70 - 130

Lab Sample ID: LCSD 880-117391/2-A

Matrix: Solid

Analyte

Benzene

Analysis Batch: 117424

Client Sample II	D: Lab Control	Sample Dup
	Danie T	T-4-1/NIA

%Rec

80

Prep Type: Total/NA

Prep Batch: 117391

%Rec		KPD	
Limits	RPD	Limit	
70 130	16	35	

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LCSD LCSD Result Qualifier

0.07966

Unit

mg/Kg

Spike

Added

0.100

QC Sample Results

Client: Ensolum Job ID: 890-8718-1 Project/Site: PYGMY 27 STATE 3H PRODUCED WATER SDG: 03D2024356

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

Lab Sample ID: LCSD 880-117391/2-A

Matrix: Solid Analysis Batch: 117424 Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA **Prep Batch: 117391**

Spike LCSD LCSD %Rec **RPD** Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit D Toluene 0.100 0.07383 74 70 - 130 35 mg/Kg 16 Ethylbenzene 0.100 0.08344 mg/Kg 83 70 - 130 16 35 0.200 0.1649 m-Xylene & p-Xylene mg/Kg 82 70 - 130 35 17 o-Xylene 0.100 0.08403 mg/Kg 84 70 - 130 15

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 890-8716-A-8-D MSD

Matrix: Solid Analysis Batch: 117424

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 117391

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U F1	0.100	0.05574	F1	mg/Kg		56	70 - 130	20	35
Toluene	<0.00200	U F1	0.100	0.04918	F1	mg/Kg		49	70 - 130	26	35
Ethylbenzene	<0.00200	U F1	0.100	0.05435	F1	mg/Kg		54	70 - 130	26	35
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.1068	F1	mg/Kg		53	70 - 130	25	35
o-Xylene	<0.00200	U F1	0.100	0.05573	F1	mg/Kg		56	70 - 130	21	35

MSD MSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	110	70 - 130
1,4-Difluorobenzene (Surr)	97	70 - 130

Lab Sample ID: 890-8716-A-8-F MS

Matrix: Solid

Analysis Batch: 117424

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 117391

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U F1	0.100	0.06819	F1	mg/Kg		68	70 - 130	
Toluene	<0.00200	U F1	0.100	0.06369	F1	mg/Kg		64	70 - 130	
Ethylbenzene	<0.00200	U F1	0.100	0.07087		mg/Kg		71	70 - 130	
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.1377	F1	mg/Kg		69	70 - 130	
o-Xylene	<0.00200	U F1	0.100	0.06853	F1	mg/Kg		69	70 - 130	

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

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

Lab Sample ID: MB 880-117339/1-A

Matrix: Solid

Analysis Batch: 117448

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

Prep Batch: 117339

мв мв Result Qualifier RL Unit Prepared Analyzed <50.0 U 50.0 mg/Kg 08/22/25 07:48 08/26/25 02:12 Gasoline Range Organics

(GRO)-C6-C10

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Client: Ensolum Job ID: 890-8718-1 Project/Site: PYGMY 27 STATE 3H PRODUCED WATER SDG: 03D2024356

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

Lab Sample	ID: MB	880-117339/1-A	
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Matrix: Solid

Analysis Batch: 117448

Prep Type: Total/NA

Prep Batch: 117339

ı									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/22/25 07:48	08/26/25 02:12	1
	Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/22/25 07:48	08/26/25 02:12	1

MB MB

MR MR

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130	08/22/25 07:48	08/26/25 02:12	1
o-Terphenyl	89		70 - 130	08/22/25 07:48	08/26/25 02:12	1

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 880-117339/2-A Matrix: Solid Prep Type: Total/NA **Prep Batch: 117339**

Analysis Batch: 117448

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1016		mg/Kg		102	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1018		mg/Kg		102	70 - 130	
C10-C28)								

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	113		70 - 130

Lab Sample ID: LCSD 880-117339/3-A

Matrix: Solid

Analysis Batch: 117448

Client	Sample	ו יחו	ah	Control	Sample	Dun

Prep Type: Total/NA

Prep Batch: 117339

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	1000	1032		mg/Kg		103	70 - 130	2	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	1024		mg/Kg		102	70 - 130	1	20	
C10-C28)										

Limits

	LUSD	LUSD	
urrogate	%Recovery	Qualifier	
-Chlorooctane	99		-

70 - 130 o-Terphenyl 70 - 130

Lab Sample ID: 890-8715-A-8-B MS

Matrix: Solid

Analysis Batch: 117448

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Cliont	Comple	1D. A	// Otribe	Chiles
Cilent	Sample	ID. N	naurix	SDIKE

Prep Type: Total/NA

Prep Batch: 117339

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	848.4		mg/Kg		85	70 - 130	
Diesel Range Organics (Over	<50.0	U	999	857.8		mg/Kg		86	70 - 130	

C10-C28)

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	69	S1-	70 - 130
o-Terphenvl	74		70 - 130

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Lab Sample ID: 890-8715-A-8-C MSD

Job ID: 890-8718-1 Client: Ensolum Project/Site: PYGMY 27 STATE 3H PRODUCED WATER SDG: 03D2024356

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

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 117339

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	830.4		mg/Kg		83	70 - 130	2	20
Diesel Range Organics (Over	<50.0	U	999	801.0		mg/Kg		80	70 - 130	7	20

C10-C28)

Matrix: Solid

Analysis Batch: 117448

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	84		70 - 130
o-Terphenyl	75		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-117356/1-A Client Sample ID: Method Blank

Matrix: Solid Prep Type: Soluble

Analysis Batch: 117399

мв мв

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0	mg/Kg			08/22/25 17:15	1

Lab Sample ID: LCS 880-117356/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 117399

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	235.1		mg/Kg		94	90 - 110	

Lab Sample ID: LCSD 880-117356/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 117399

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	236.3		mg/Kg		95	90 - 110	1	20	

Lab Sample ID: 890-8716-A-3-C MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 117399

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	<9.96	П	249	237.7		ma/Ka	_	94	90 110	

Lab Sample ID: 890-8716-A-3-D MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 117399

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	<9.96	U	249	237.7		mg/Kg		94	90 - 110	0	20

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Prep Type: Soluble

Client Sample ID: Method Blank

QC Sample Results

Client: Ensolum Job ID: 890-8718-1 Project/Site: PYGMY 27 STATE 3H PRODUCED WATER SDG: 03D2024356

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 880-117435/1-A

Matrix: Solid

Analysis Batch: 117517

Prep Type: Soluble

mg/Kg

91

90 - 110

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Chloride <10.0 U 10.0 mg/Kg 08/25/25 14:58

Lab Sample ID: LCS 880-117435/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 117517

Spike LCS LCS %Rec Added %Rec Analyte Result Qualifier Unit D Limits

250

мв мв

Lab Sample ID: LCSD 880-117435/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

228.4

Analysis Batch: 117517

Chloride

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 225.7 mg/Kg 90 - 110

Lab Sample ID: 880-61871-A-3-B MS Client Sample ID: Matrix Spike **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 117517

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added Qualifier %Rec Result Unit Limits Chloride 79.0 251 318.3 90 - 110 mg/Kg

Lab Sample ID: 880-61871-A-3-C MSD Client Sample ID: Matrix Spike Duplicate **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 117517

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit 251 Chloride 79.0 316.4 mg/Kg 95 90 - 110 20

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Client: Ensolum Job ID: 890-8718-1
Project/Site: PYGMY 27 STATE 3H PRODUCED WATER SDG: 03D2024356

GC VOA

Prep Batch: 117176

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-117176/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 117391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8718-1	FS 01	Total/NA	Solid	5035	
890-8718-2	FS 02	Total/NA	Solid	5035	
890-8718-3	FS 03	Total/NA	Solid	5035	
890-8718-4	FS 04	Total/NA	Solid	5035	
MB 880-117391/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-117391/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-117391/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8716-A-8-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	
890-8716-A-8-F MS	Matrix Spike	Total/NA	Solid	5035	

Analysis Batch: 117424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8718-1	FS 01	Total/NA	Solid	8021B	117391
890-8718-2	FS 02	Total/NA	Solid	8021B	117391
890-8718-3	FS 03	Total/NA	Solid	8021B	117391
890-8718-4	FS 04	Total/NA	Solid	8021B	117391
MB 880-117176/5-A	Method Blank	Total/NA	Solid	8021B	117176
MB 880-117391/5-A	Method Blank	Total/NA	Solid	8021B	117391
LCS 880-117391/1-A	Lab Control Sample	Total/NA	Solid	8021B	117391
LCSD 880-117391/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	117391
890-8716-A-8-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	117391
890-8716-A-8-F MS	Matrix Spike	Total/NA	Solid	8021B	117391

Analysis Batch: 117512

Lab Sample ID 890-8718-1	Client Sample ID FS 01	Prep Type Total/NA	Matrix Solid	Method Total BTEX	Prep Batch
890-8718-2	FS 02	Total/NA	Solid	Total BTEX	
890-8718-3	FS 03	Total/NA	Solid	Total BTEX	
890-8718-4	FS 04	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 117339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8718-1	FS 01	Total/NA	Solid	8015NM Prep	
890-8718-2	FS 02	Total/NA	Solid	8015NM Prep	
890-8718-3	FS 03	Total/NA	Solid	8015NM Prep	
890-8718-4	FS 04	Total/NA	Solid	8015NM Prep	
MB 880-117339/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-117339/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-117339/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8715-A-8-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-8715-A-8-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 117448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8718-1	FS 01	Total/NA	Solid	8015B NM	117339

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QC Association Summary

Client: Ensolum

Project/Site: PYGMY 27 STATE 3H PRODUCED WATER

Job ID: 890-8718-1

SDG: 03D2024356

GC Semi VOA (Continued)

Analysis Batch: 117448 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8718-2	FS 02	Total/NA	Solid	8015B NM	117339
890-8718-3	FS 03	Total/NA	Solid	8015B NM	117339
890-8718-4	FS 04	Total/NA	Solid	8015B NM	117339
MB 880-117339/1-A	Method Blank	Total/NA	Solid	8015B NM	117339
LCS 880-117339/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	117339
LCSD 880-117339/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	117339
890-8715-A-8-B MS	Matrix Spike	Total/NA	Solid	8015B NM	117339
890-8715-A-8-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	117339

Analysis Batch: 117567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8718-1	FS 01	Total/NA	Solid	8015 NM	
890-8718-2	FS 02	Total/NA	Solid	8015 NM	
890-8718-3	FS 03	Total/NA	Solid	8015 NM	
890-8718-4	FS 04	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 117356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8718-1	FS 01	Soluble	Solid	DI Leach	
890-8718-2	FS 02	Soluble	Solid	DI Leach	
890-8718-3	FS 03	Soluble	Solid	DI Leach	
MB 880-117356/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-117356/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-117356/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-8716-A-3-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-8716-A-3-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 117399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8718-1	FS 01	Soluble	Solid	300.0	117356
890-8718-2	FS 02	Soluble	Solid	300.0	117356
890-8718-3	FS 03	Soluble	Solid	300.0	117356
MB 880-117356/1-A	Method Blank	Soluble	Solid	300.0	117356
LCS 880-117356/2-A	Lab Control Sample	Soluble	Solid	300.0	117356
LCSD 880-117356/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	117356
890-8716-A-3-C MS	Matrix Spike	Soluble	Solid	300.0	117356
890-8716-A-3-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	117356

Leach Batch: 117435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8718-4	FS 04	Soluble	Solid	DI Leach	
MB 880-117435/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-117435/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-117435/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-61871-A-3-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-61871-A-3-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Ensolum
Project/Site: PYGMY 27 STATE 3H PRODUCED WATER

Job ID: 890-8718-1
SDG: 03D2024356

HPLC/IC

Analysis Batch: 117517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8718-4	FS 04	Soluble	Solid	300.0	117435
MB 880-117435/1-A	Method Blank	Soluble	Solid	300.0	117435
LCS 880-117435/2-A	Lab Control Sample	Soluble	Solid	300.0	117435
LCSD 880-117435/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	117435
880-61871-A-3-B MS	Matrix Spike	Soluble	Solid	300.0	117435
880-61871-A-3-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	117435

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Client: Ensolum

Project/Site: PYGMY 27 STATE 3H PRODUCED WATER

Lab Sample ID: 890-8718-1

Lab Sample ID: 890-8718-3

Lab Sample ID: 890-8718-4

Matrix: Solid

Matrix: Solid

Client Sample ID: FS 01 Date Collected: 08/21/25 11:58

Date Received: 08/21/25 16:15

	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	117391	08/22/25 11:58	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	117424	08/24/25 10:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117512	08/24/25 10:46	SA	EET MID
Total/NA	Analysis	8015 NM		1			117567	08/26/25 06:52	SA	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	117339	08/22/25 07:49	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	117448	08/26/25 06:52	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	117356	08/22/25 10:25	SI	EET MID
Soluble	Analysis	300.0		1			117399	08/22/25 19:54	CS	EET MID

Client Sample ID: FS 02 Lab Sample ID: 890-8718-2 Matrix: Solid

Date Collected: 08/21/25 08:19

Date Received: 08/21/25 16:15

	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	117391	08/22/25 11:58	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	117424	08/24/25 11:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117512	08/24/25 11:06	SA	EET MID
Total/NA	Analysis	8015 NM		1			117567	08/26/25 07:07	SA	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	117339	08/22/25 07:49	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	117448	08/26/25 07:07	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	117356	08/22/25 10:25	SI	EET MID
Soluble	Analysis	300.0		1			117399	08/22/25 20:00	CS	EET MID

Client Sample ID: FS 03

Date Collected: 08/21/25 10:38 Date Received: 08/21/25 16:15

	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	117391	08/22/25 11:58	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	117424	08/24/25 11:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117512	08/24/25 11:27	SA	EET MID
Total/NA	Analysis	8015 NM		1			117567	08/26/25 07:23	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	117339	08/22/25 07:49	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	117448	08/26/25 07:23	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	117356	08/22/25 10:25	SI	EET MID
Soluble	Analysis	300.0		1			117399	08/22/25 20:05	CS	EET MID

Client Sample ID: FS 04

Date Collected: 08/21/25 08:23 Date Received: 08/21/25 16:15

_										
	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	117391	08/22/25 11:58	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	117424	08/24/25 11:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117512	08/24/25 11:47	SA	EET MID

Eurofins Carlsbad

Page 19 of 27

Matrix: Solid

Lab Chronicle

Client: Ensolum

Project/Site: PYGMY 27 STATE 3H PRODUCED WATER

Job ID: 890-8718-1

SDG: 03D2024356

Client Sample ID: FS 04

Lab Sample ID: 890-8718-4

Matrix: Solid

Date Collected: 08/21/25 08:23 Date Received: 08/21/25 16:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			117567	08/26/25 07:39	SA	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	117339	08/22/25 07:49	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	117448	08/26/25 07:39	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	117435	08/25/25 09:04	SI	EET MID
Soluble	Analysis	300.0		1			117517	08/25/25 17:48	CS	EET MID

Laboratory References:

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

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Eurofins Carlsbad

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-8718-1 Project/Site: PYGMY 27 STATE 3H PRODUCED WATER SDG: 03D2024356

Laboratory: Eurofins Midland

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

Authority	Progra	am	Identification Number	Expiration Date
Texas	NELAP		T104704400	06-30-26
	are included in this report, but ses not offer certification.	it the laboratory is not certif	fied by the governing authority. This lis	t may include analytes
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	
Total BTEX		Solid	Total BTEX	

Eurofins Carlsbad

Method Summary

Client: Ensolum

Project/Site: PYGMY 27 STATE 3H PRODUCED WATER

Job ID: 890-8718-1

SDG: 03D2024356

tory	

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Carlsbad

Sample Summary

Client: Ensolum

Project/Site: PYGMY 27 STATE 3H PRODUCED WATER

Job ID: 890-8718-1

SDG: 03D2024356

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8718-1	FS 01	Solid	08/21/25 11:58	08/21/25 16:15	9
890-8718-2	FS 02	Solid	08/21/25 08:19	08/21/25 16:15	7
890-8718-3	FS 03	Solid	08/21/25 10:38	08/21/25 16:15	8
890-8718-4	FS 04	Solid	08/21/25 08:23	08/21/25 16:15	7

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

Total 200.7 / 6010

200.8 / 6020:

8RCRA 13PPM

Texas 11 Al Sb

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

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

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

17471

Xenco	Environment Testing

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

Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order Commen	www.xenco.com Page	
nts	ge 1) of 1)	

Work Order No:

		6			
		4			
		L	2 91 12/2	N X	MANTILL BARR
Date/Time	Received by: (Signature)	Date/Time Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)

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

Sample Comments

azSzO3: NaSO3 aHSO4. NABIS

SAMPLE RECEIPT

Sample Custody Seals: Samples Received Intact:

Yes No es

Correction Factor Temperature Reading:

Yes No

Wet Ice:

Yes

No

Parameters

3021

8015

890-8718 Chain of Custody

Tomas

Corrected Temperature:

Sample Identification

100 Matrix

Sampled

Sampled

Depth

Comp Grab/

Cont # of

-0

Time

Date

F304 F505 205 Sampler's Name:

Sharely Brooks/ 1 salts

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

30

ano) es

Project Location:

Project Number: Project Name:

03/720243SG

Turn Around

Email: hancendersolum, com, Slowous der Solum

ANALYSIS REQUEST

Deliverables: EDD

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

Level IV

ADaPT []

Other

None: NO

DI Water: H₂0

Preservative Codes

2S04: H2 CL: HC pol:(Cod

NaOH: Na HNO3: HN MeOH: Me

3PO4: HP

State of Project:

Program: UST/PST | PRP | Brownfields | RRC | Superfund |

Noutine Routine Due Date:

Rush

Code

City, State ZIP:

ompany Name:

Ensolum

3122 National Parks Hwy

Carlsbad, NM 88220

737-757 BCS

oject Manager:

Hadre

Green

Bill to: (if different)

Company Name: Address: City, State ZIP:

Eurofins Carlsbad

1089 N Canal St

Chain of Custody Record

eurofins

Environment Testing

Carlsbad, NM 88220 Phone: 575-988-3199 Fax: 575-988-3199 Project Name: PYGMY 27 STATE 3H PRODUCED WATER FS 03 (890-8718-3) FS 01 (890-8718-1) 432-704-5440(Tel) Client Information FS 04 (890-8718-4) Sample Identification - Client ID (Lab ID) State, Zip: Midland 1211 W. Florida Ave. Deliverable Requested: I, II, III, IV, Other (specify) Vote: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the aboratory does not currently maintain accreditation in the State of Origin listed above for analysis/hests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC, attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC. S 02 (890-8718-2) TX, 79701 ossible Hazard Identification urofins Environment Testing South Centr hipping/Receiving rconfirmed linquished by npty-Kit Relinquished by (Sub Contract Lab) Custody Seal No Project #: 89000145 Sampler N/A Phone: N/A NO NO # Date/Time Primary Deliverable Rank: 2 TAT Requested (days): 8/27/2025 Due Date Requested: Sample Date 8/21/25 8/21/25 8/21/25 8/21/25 Mountain 10:38 Mountain 08:19 Mountain 08:23 Mountain 11:58 N/A G=grab) (C=comp, Sample Preservation Code: G G 9 G Company Matrix Solid Solid Solid Solid E-Mail: Jessica.Kramer@et.eurofinsus.com Kramer, Jessica Field Filtered Sample (Yes or No) Ime NELAP - Texas ccreditations Required (See note): Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mon Perform MS/MSD (Yes or No) Special Instructions/QC Requirements Cooler Temperature 8015MOD_NM/8015NM_S_Prep(MOD) Full TPH × × × × × × 8015MOD Calc \times \times × × × × 300_ORGFM_28D/DI_LEACHChloride 8021B/5035FP_Calc(MOD) BTEX × × × × Analysis Requested and Other Remarks × Total_BTEX_GCV × × × **New Mexico** N State of Origin: Carrier Tracking No(s) Method of Shipment **Total Number of containers** Page: COC No: 890-5794.1 Preservation Codes: 890-8718-1 Special Instructions/Note Company Company **Months**

10/10/2024

Login Sample Receipt Checklist

 Client: Ensolum
 Job Number: 890-8718-1

 SDG Number: 03D2024356

Login Number: 8718 List Source: Eurofins Carlsbad

List Number: 1

Creator: Bruns, Shannon

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

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Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-8718-1

SDG Number: 03D2024356

Login Number: 8718 **List Source: Eurofins Midland** List Number: 2 List Creation: 08/22/25 08:17 AM

Creator: Laing, Edmundo

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

<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green Ensolum 601 N. Marienfeld St. Suite 400

Midland, Texas 79701

Generated 8/26/2025 1:08:02 PM

JOB DESCRIPTION

Pygmy 27 State 3H Poduced Water Lea County, NM

JOB NUMBER

880-61876-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization

Generated 8/26/2025 1:08:02 PM

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

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Client: Ensolum Project/Site: Pygmy 27 State 3H Poduced Water Laboratory Job ID: 880-61876-1 SDG: Lea County, NM

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Definitions/Glossary

Job ID: 880-61876-1 Client: Ensolum Project/Site: Pygmy 27 State 3H Poduced Water SDG: Lea County, NM

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier Qualifier Description

Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

U Indicates the analyte was analyzed for but not detected.

Glossary

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 **CNF** Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

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

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

MDL Method Detection Limit MLMinimum 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

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum Job ID: 880-61876-1

Project: Pygmy 27 State 3H Poduced Water

Job ID: 880-61876-1 Eurofins Midland

Job Narrative 880-61876-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 8/22/2025 5:15 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 3.1°C.

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-117452 and analytical batch 880-117431 were outside control limits. Sample matrix interference is 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.

Diesel Range Organics

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (890-8715-A-8-B MS). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

Eurofins Midland

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Client Sample Results

Client: Ensolum

Project/Site: Pygmy 27 State 3H Poduced Water

Job ID: 880-61876-1 SDG: Lea County, NM

Lab Sample ID: 880-61876-1

Matrix: Solid

Client Sample ID: SW01

Date Collected: 08/22/25 12:10 Date Received: 08/22/25 17:15

Sample Depth: 0-8'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		08/25/25 10:49	08/26/25 04:22	1
Toluene	< 0.00199	U	0.00199	mg/Kg		08/25/25 10:49	08/26/25 04:22	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		08/25/25 10:49	08/26/25 04:22	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/25/25 10:49	08/26/25 04:22	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/25/25 10:49	08/26/25 04:22	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/25/25 10:49	08/26/25 04:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130			08/25/25 10:49	08/26/25 04:22	1
1,4-Difluorobenzene (Surr)	87		70 - 130			08/25/25 10:49	08/26/25 04:22	1
Method: TAL SOP Total BTEX -	Total BTEX Cal	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			08/26/25 04:22	1
Mothod: SW946 9045 NM Diggs	al Banga Organ	ico (DBO) (CC)					
Method: SW846 8015 NM - Diese Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH			49.8	mg/Kg	_ =	Trepared	08/26/25 08:09	1
	140.0	O	40.0	mg/rtg				
Madhada OMO40 CO45D NIME DI							00/20/20 00:00	1
Method: SW846 8015B NM - Die	sel Range Orga	nics (DRO)	(GC)				00/20/20 00.03	1
Method: SW846 8015B NM - Die: Analyte	•	nics (DRO) Qualifier	(GC)	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	•	Qualifier	• •	Unit mg/Kg	<u>D</u>	Prepared 08/22/25 07:49		Dil Fac
Analyte	Result	Qualifier	RL		<u>D</u>	<u>·</u>	Analyzed	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U	RL		<u>D</u>	<u>·</u>	Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.8 <49.8	Qualifier U	RL 49.8 49.8	mg/Kg	<u>D</u>	08/22/25 07:49 08/22/25 07:49	Analyzed 08/26/25 08:09 08/26/25 08:09	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.8	Qualifier U	RL 49.8	mg/Kg	<u> </u>	08/22/25 07:49	Analyzed 08/26/25 08:09	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.8 <49.8	Qualifier U U U	RL 49.8 49.8	mg/Kg	<u>D</u>	08/22/25 07:49 08/22/25 07:49	Analyzed 08/26/25 08:09 08/26/25 08:09	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	Result 49.8 <49.8 <49.8	Qualifier U U U	RL 49.8 49.8 49.8	mg/Kg	<u>D</u>	08/22/25 07:49 08/22/25 07:49 08/22/25 07:49	Analyzed 08/26/25 08:09 08/26/25 08:09 08/26/25 08:09	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate	Result <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <49.8	Qualifier U U U	### ### ### ### #### #################	mg/Kg	<u> </u>	08/22/25 07:49 08/22/25 07:49 08/22/25 07:49 Prepared	Analyzed 08/26/25 08:09 08/26/25 08:09 08/26/25 08:09 Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U Qualifier	RL 49.8 49.8 49.8 Limits 70 - 130 70 - 130	mg/Kg	<u>D</u>	08/22/25 07:49 08/22/25 07:49 08/22/25 07:49 Prepared 08/22/25 07:49	Analyzed 08/26/25 08:09 08/26/25 08:09 08/26/25 08:09 Analyzed 08/26/25 08:09	Dil Fac 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U U Qualifier	RL 49.8 49.8 49.8 Limits 70 - 130 70 - 130	mg/Kg	<u>D</u>	08/22/25 07:49 08/22/25 07:49 08/22/25 07:49 Prepared 08/22/25 07:49	Analyzed 08/26/25 08:09 08/26/25 08:09 08/26/25 08:09 Analyzed 08/26/25 08:09	Dil Fac

Client Sample ID: SW02

Date Collected: 08/22/25 11:44 Date Received: 08/22/25 17:15

Sample Depth: 0-8'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		08/25/25 10:49	08/26/25 04:43	1
Toluene	<0.00201	U	0.00201	mg/Kg		08/25/25 10:49	08/26/25 04:43	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		08/25/25 10:49	08/26/25 04:43	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		08/25/25 10:49	08/26/25 04:43	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		08/25/25 10:49	08/26/25 04:43	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		08/25/25 10:49	08/26/25 04:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130			08/25/25 10:49	08/26/25 04:43	1

Eurofins Midland

Matrix: Solid

Lab Sample ID: 880-61876-2

Job ID: 880-61876-1

Matrix: Solid

SDG: Lea County, NM

Lab Sample ID: 880-61876-2

Client: Ensolum

Project/Site: Pygmy 27 State 3H Poduced Water

Client Sample ID: SW02

Date Collected: 08/22/25 11:44 Date Received: 08/22/25 17:15

Sample Depth: 0-8'

Method: SW846 8021B	- Volatile Organic	Compounds (GC	(Continued)
Method. 344040 002 1D	- voiatile Organic	Compounds (GC)	(Continueu)

Surrogate	%Recovery Qu	ualifier Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	91	70 - 130	08/25/25 10:49	08/26/25 04:43	1

Mothod: TAL SOP	Total RTFY - Tota	I BTEX Calculation
Method. TAL OUT	TOTAL DIEX - TOTA	I DIEA Calculation

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402 U	0.00402	ma/Ka			08/26/25 04:43	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			08/26/25 08:24	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		08/22/25 07:49	08/26/25 08:24	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/22/25 07:49	08/26/25 08:24	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/22/25 07:49	08/26/25 08:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130	08/22/25 07:4	9 08/26/25 08:24	1
o-Terphenyl	74		70 - 130	08/22/25 07:4	9 08/26/25 08:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	36.2		9.98	mg/Kg			08/25/25 19:07	1

Client Sample ID: SW03 Lab Sample ID: 880-61876-3

Date Collected: 08/22/25 12:16 Date Received: 08/22/25 17:15

Sample Depth: 0-9'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		08/25/25 10:49	08/26/25 05:03	1
Toluene	0.00349		0.00202	mg/Kg		08/25/25 10:49	08/26/25 05:03	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		08/25/25 10:49	08/26/25 05:03	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		08/25/25 10:49	08/26/25 05:03	1
o-Xylene	0.00553		0.00202	mg/Kg		08/25/25 10:49	08/26/25 05:03	1
Xylenes, Total	0.00553		0.00404	mg/Kg		08/25/25 10:49	08/26/25 05:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130			08/25/25 10:49	08/26/25 05:03	1
1,4-Difluorobenzene (Surr)	104		70 - 130			08/25/25 10:49	08/26/25 05:03	1

Mothod: TAI	SOP Total RTFY	- Total RTFY	Calculation

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00902	0.00404	ma/Ka			08/26/25 05:03	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			08/26/25 08:40	1

Eurofins Midland

Matrix: Solid

Matrix: Solid

Lab Sample ID: 880-61876-3

08/25/25 19:24

Client Sample Results

Client: Ensolum
Project/Site: Pygmy 27 State 3H Poduced Water
Job ID: 880-61876-1
SDG: Lea County, NM

Client Sample ID: SW03

Date Collected: 08/22/25 12:16 Date Received: 08/22/25 17:15

Sample Depth: 0-9'

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		08/22/25 07:49	08/26/25 08:40	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		08/22/25 07:49	08/26/25 08:40	1
C10-C28)								
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/22/25 07:49	08/26/25 08:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130			08/22/25 07:49	08/26/25 08:40	1
o-Terphenyl	75		70 - 130			08/22/25 07:49	08/26/25 08:40	1

10.1

mg/Kg

<10.1 U

3

6

6

9

11

Surrogate Summary

Client: Ensolum Job ID: 880-61876-1
Project/Site: Pygmy 27 State 3H Poduced Water SDG: Lea County, 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)	
880-61876-1	SW01	104	87	
880-61876-2	SW02	104	91	
880-61876-3	SW03	77	104	
LCS 880-117452/1-A	Lab Control Sample	117	99	
LCSD 880-117452/2-A	Lab Control Sample Dup	108	98	
MB 880-117437/5-A	Method Blank	105	86	
MB 880-117452/5-A	Method Blank	114	90	
Surrogate Legend				

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-61876-1	SW01	75	76	
880-61876-2	SW02	73	74	
880-61876-3	SW03	74	75	
LCS 880-117339/2-A	Lab Control Sample	99	113	
LCSD 880-117339/3-A	Lab Control Sample Dup	99	114	
MB 880-117339/1-A	Method Blank	86	89	
Surrogate Legend				

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum

Job ID: 880-61876-1

SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-117437/5-A

Project/Site: Pygmy 27 State 3H Poduced Water

Matrix: Solid

Analysis Batch: 117431

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 117437

MB	MB	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/25/25 09:24	08/25/25 11:10	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/25/25 09:24	08/25/25 11:10	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/25/25 09:24	08/25/25 11:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/25/25 09:24	08/25/25 11:10	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/25/25 09:24	08/25/25 11:10	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/25/25 09:24	08/25/25 11:10	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	08/25/25 09:24	08/25/25 11:10	1
1,4-Difluorobenzene (Surr)	86		70 - 130	08/25/25 09:24	08/25/25 11:10	1

Lab Sample ID: MB 880-117452/5-A

Matrix: Solid

Analysis Batch: 117431

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 117452

мв мв

Analyte	Result Qu	ualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200 U	 	0.00200	mg/Kg		08/25/25 10:49	08/25/25 22:41	1
Toluene	<0.00200 U		0.00200	mg/Kg		08/25/25 10:49	08/25/25 22:41	1
Ethylbenzene	<0.00200 U		0.00200	mg/Kg		08/25/25 10:49	08/25/25 22:41	1
m-Xylene & p-Xylene	<0.00400 U		0.00400	mg/Kg		08/25/25 10:49	08/25/25 22:41	1
o-Xylene	<0.00200 U		0.00200	mg/Kg		08/25/25 10:49	08/25/25 22:41	1
Xylenes, Total	<0.00400 U		0.00400	mg/Kg		08/25/25 10:49	08/25/25 22:41	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	08/25/25 10:	08/25/25 22:41	1
1,4-Difluorobenzene (Surr)	90		70 - 130	08/25/25 10:	19 08/25/25 22:41	1

Lab Sample ID: LCS 880-117452/1-A

Matrix: Solid

Analysis Batch: 117431

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 117452

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08891		mg/Kg		89	70 - 130	
Toluene	0.100	0.08618		mg/Kg		86	70 - 130	
Ethylbenzene	0.100	0.09857		mg/Kg		99	70 - 130	
m-Xylene & p-Xylene	0.200	0.1970		mg/Kg		99	70 - 130	
o-Xylene	0.100	0.09865		mg/Kg		99	70 - 130	

LCS LCS

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

Lab Sample ID: LCSD 880-117452/2-A

Matrix: Solid

Analysis Batch: 117431

Client Sample I	ID: Lab	Contro	I Sample	Dup
		Duam T	Same Take	I/NI A

Prep Type: Total/NA

Prep Batch: 117452

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09154		mg/Kg		92	70 - 130	3	35

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Page 10 of 20

Client: Ensolum Project/Site: Pygmy 27 State 3H Poduced Water

Job ID: 880-61876-1

SDG: Lea County, NM

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

Lab Sample ID: LCSD 880-117452/2-A

Matrix: Solid

Analysis Batch: 117431

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

Prep Batch: 117452

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.08150		mg/Kg		82	70 - 130	6	35
Ethylbenzene	0.100	0.09071		mg/Kg		91	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.1786		mg/Kg		89	70 - 130	10	35
o-Xylene	0.100	0.08952		mg/Kg		90	70 - 130	10	35

LCSD LCSD

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

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

Lab Sample ID: MB 880-117339/1-A

Matrix: Solid

Analysis Batch: 117448

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 117339

MB MB

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		08/22/25 07:48	08/26/25 02:12	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		08/22/25 07:48	08/26/25 02:12	1
C10-C28)								
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/22/25 07:48	08/26/25 02:12	1

MR MR

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130	08/22/25 07:48	08/26/25 02:12	1
o-Terphenyl	89		70 - 130	08/22/25 07:48	08/26/25 02:12	1

Lab Sample ID: LCS 880-117339/2-A

Matrix: Solid

Analysis Batch: 117448

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 117339

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics	1000	1016		mg/Kg		102	70 - 130
(GRO)-C6-C10							
Diesel Range Organics (Over	1000	1018		mg/Kg		102	70 - 130

C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	113		70 - 130

Lab Sample ID: LCSD 880-117339/3-A

Matrix: Solid

Analysis Batch: 117448

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 117339

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	1032		mg/Kg		103	70 - 130	2	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	1024		mg/Kg		102	70 - 130	1	20
C10-C28)									

QC Sample Results

Client: Ensolum Job ID: 880-61876-1 Project/Site: Pygmy 27 State 3H Poduced Water SDG: Lea County, NM

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

Lab Sample ID: LCSD 880-117339/3-A **Matrix: Solid**

Analysis Batch: 117448

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 117339

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

LCSD LCSD

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 99 70 - 130 o-Terphenyl 114 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-117441/1-A

Matrix: Solid

Analysis Batch: 117518

MB MB

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac 10.0 Chloride <10.0 U mg/Kg 08/25/25 18:16

Lab Sample ID: LCS 880-117441/2-A

Matrix: Solid

Analysis Batch: 117518

LCS LCS Spike %Rec Analyte Added Result Qualifier %Rec Unit Limits Chloride 250 233.3 93 90 - 110 mg/Kg

Lab Sample ID: LCSD 880-117441/3-A

Matrix: Solid

Analysis Batch: 117518

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier %Rec Limits RPD Limit Unit Chloride 250 229.2 92 90 - 110 20 mg/Kg

QC Association Summary

Client: Ensolum Project/Site: Pygmy 27 State 3H Poduced Water

Job ID: 880-61876-1 SDG: Lea County, NM

GC VOA

Analysis Batch: 117431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-61876-1	SW01	Total/NA	Solid	8021B	117452
880-61876-2	SW02	Total/NA	Solid	8021B	117452
880-61876-3	SW03	Total/NA	Solid	8021B	117452
MB 880-117437/5-A	Method Blank	Total/NA	Solid	8021B	117437
MB 880-117452/5-A	Method Blank	Total/NA	Solid	8021B	117452
LCS 880-117452/1-A	Lab Control Sample	Total/NA	Solid	8021B	117452
LCSD 880-117452/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	117452

Prep Batch: 117437

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-117437/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 117452

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-61876-1	SW01	Total/NA	Solid	5035	
880-61876-2	SW02	Total/NA	Solid	5035	
880-61876-3	SW03	Total/NA	Solid	5035	
MB 880-117452/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-117452/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-117452/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 117614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-61876-1	SW01	Total/NA	Solid	Total BTEX	
880-61876-2	SW02	Total/NA	Solid	Total BTEX	
880-61876-3	SW03	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 117339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-61876-1	SW01	Total/NA	Solid	8015NM Prep	
880-61876-2	SW02	Total/NA	Solid	8015NM Prep	
880-61876-3	SW03	Total/NA	Solid	8015NM Prep	
MB 880-117339/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-117339/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-117339/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 117448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-61876-1	SW01	Total/NA	Solid	8015B NM	117339
880-61876-2	SW02	Total/NA	Solid	8015B NM	117339
880-61876-3	SW03	Total/NA	Solid	8015B NM	117339
MB 880-117339/1-A	Method Blank	Total/NA	Solid	8015B NM	117339
LCS 880-117339/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	117339
LCSD 880-117339/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	117339

Analysis Batch: 117569

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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-61876-1	SW01	Total/NA	Solid	8015 NM	
880-61876-2	SW02	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum Project/Site: Pygmy 27 State 3H Poduced Water

Job ID: 880-61876-1 SDG: Lea County, NM

GC Semi VOA (Continued)

Analysis Batch: 117569 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-61876-3	SW03	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 117441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-61876-1	SW01	Soluble	Solid	DI Leach	- ·
880-61876-2	SW02	Soluble	Solid	DI Leach	
880-61876-3	SW03	Soluble	Solid	DI Leach	
MB 880-117441/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-117441/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-117441/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 117518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-61876-1	SW01	Soluble	Solid	300.0	117441
880-61876-2	SW02	Soluble	Solid	300.0	117441
880-61876-3	SW03	Soluble	Solid	300.0	117441
MB 880-117441/1-A	Method Blank	Soluble	Solid	300.0	117441
LCS 880-117441/2-A	Lab Control Sample	Soluble	Solid	300.0	117441
LCSD 880-117441/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	117441

Lab Chronicle

Client: Ensolum

Project/Site: Pygmy 27 State 3H Poduced Water

Analysis

300.0

Lab Sample ID: 880-61876-1

Matrix: Solid

Job ID: 880-61876-1

SDG: Lea County, NM

Client Sample ID: SW01 Date Collected: 08/22/25 12:10 Date Received: 08/22/25 17:15

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor **Number Analyst** Lab or Analyzed 5035 08/25/25 10:49 Total/NA Prep 117452 AA EET MID 8021B Total/NA Analysis 1 117431 MNR EET MID 08/26/25 04:22 Total/NA Analysis Total BTEX 117614 SA **EET MID** 08/26/25 04:22 Total/NA 8015 NM 08/26/25 08:09 Analysis 117569 SA **EET MID** Total/NA 8015NM Prep 117339 EL EET MID 08/22/25 07:49 Prep Total/NA Analysis 8015B NM 117448 TKC **EET MID** 08/26/25 08:09 Soluble DI Leach 117441 SI EET MID 08/25/25 10:25 Leach

Client Sample ID: SW02 Lab Sample ID: 880-61876-2

117518 CS

EET MID

08/25/25 19:01

Date Collected: 08/22/25 11:44 **Matrix: Solid**

Date Received: 08/22/25 17:15

Soluble

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			117452	AA	EET MID	08/25/25 10:49
Total/NA	Analysis	8021B		1	117431	MNR	EET MID	08/26/25 04:43
Total/NA	Analysis	Total BTEX		1	117614	SA	EET MID	08/26/25 04:43
Total/NA	Analysis	8015 NM		1	117569	SA	EET MID	08/26/25 08:24
Total/NA	Prep	8015NM Prep			117339	EL	EET MID	08/22/25 07:49
Total/NA	Analysis	8015B NM		1	117448	TKC	EET MID	08/26/25 08:24
Soluble	Leach	DI Leach			117441	SI	EET MID	08/25/25 10:25
Soluble	Analysis	300.0		1	117518	CS	EET MID	08/25/25 19:07

Lab Sample ID: 880-61876-3 **Client Sample ID: SW03** Date Collected: 08/22/25 12:16

Date Received: 08/22/25 17:15

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			117452	AA	EET MID	08/25/25 10:49
Total/NA	Analysis	8021B		1	117431	MNR	EET MID	08/26/25 05:03
Total/NA	Analysis	Total BTEX		1	117614	SA	EET MID	08/26/25 05:03
Total/NA	Analysis	8015 NM		1	117569	SA	EET MID	08/26/25 08:40
Total/NA	Prep	8015NM Prep			117339	EL	EET MID	08/22/25 07:49
Total/NA	Analysis	8015B NM		1	117448	TKC	EET MID	08/26/25 08:40
Soluble	Leach	DI Leach			117441	SI	EET MID	08/25/25 10:25
Soluble	Analysis	300.0		1	117518	CS	EET MID	08/25/25 19:24

Laboratory References:

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

Eurofins Midland

Matrix: Solid

Accreditation/Certification Summary

Client: Ensolum Job ID: 880-61876-1
Project/Site: Pygmy 27 State 3H Poduced Water SDG: Lea County, NM

Laboratory: Eurofins Midland

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

Authority	Progra	am	Identification Number	Expiration Date	
Texas	NELA	Р	T104704400	06-30-26	
• ,	are included in this report, bu	ut the laboratory is not certif	fied by the governing authority. This lis	t may include analytes	
Analysis Method	Prep Method	Matrix	Analyte		
8015 NM		Solid	Total TPH		
Total BTEX		Solid	Total BTEX		

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Method Summary

Client: Ensolum

Project/Site: Pygmy 27 State 3H Poduced Water

Job ID: 880-61876-1

SDG: Lea County, NM

ty, 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	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Midland

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Sample Summary

Client: Ensolum

Project/Site: Pygmy 27 State 3H Poduced Water

Job ID: 880-61876-1

SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depti
880-61876-1	SW01	Solid	08/22/25 12:10	08/22/25 17:15	0-8'
880-61876-2	SW02	Solid	08/22/25 11:44	08/22/25 17:15	0-8'
880-61876-3	SW03	Solid	08/22/25 12:16	08/22/25 17:15	0-9'

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

eurofins ::

Chain of Custody

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Revised Date: 08/25/2020 Rev. 2020.2

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Reporting: Level III Level III PST/UST TRRP Level IV Superfund DI Water: H₂O HNO 3: HN MeOH: Me NaOH: Na Sample Comments Preservative Codes NaOH+Ascorbic Acid: SAPC Date/Time Zn Acetate+NaOH: Zn UST/PST | PRP | Brownfields | RRC | Na 25 20 3: Na SO 3 Other: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Tl Sn U V Zn NaHSO 4: NABIS Hg: 1631/245.1/7470 /7471 None: NO H₃PO₄: HP Cool: Cool H2504:H2 HCL: HC Work Order Comments ADaPT 880-61876 Chain of Custody Received by: (Signature) EDD State of Project: Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated. Deliverables: TCLP/SPLP6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U votice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be lable 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 Program: ANALYSIS REQUEST Relinquished by: (Signature) Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Green hacelo (densolur, com Date/Time Cont Pres. Code #of Parameters Bill to: (if different) Company Name: Grab/ Comp City, State ZIP: TAT starts the day received by the lab, if received by 4:30pm Rush 400 Address: 90 Depth グロ DUCKA Turn Around Received by: (Signature) Routine Due Date: Wet Ice: 0771 Corrected Temperature: 419 Sampled Temperature Reading: Time **Environment Testing** Correction Factor: Thermometer ID: Yes No Sampled Date Circle Method(s) and Metal(s) to be analyzed 7-8895 State Marienteld Matrix 4302024356 porty S Yes No /N/A Yes No N/A 030202435 TempBlank: JUSO INC Kes No JOWN 27 Midland Relinguished by: (Signature) Had 3 09 Sample Identification Samples Received Intact: SWDB Total 200.7 / 6010 SMOZ Sample Custody Seals: Cooler Custody Seals: SWO SAMPLE RECEIPT Project Number: **Fotal Containers:** Sampler's Name: oject Location: Project Manager: Company Name: City, State ZIP: Project Name: Phone: PO#:

Login Sample Receipt Checklist

Client: Ensolum Job Number: 880-61876-1

SDG Number: Lea County, NM

List Source: Eurofins Midland Login Number: 61876 List Number: 1

Creator: Vasquez, Julisa

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

Released to Imaging: 11/18/2025 10:28:51 AM

<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green

Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 9/11/2025 4:43:10 PM Revision 1

JOB DESCRIPTION

Pygmy 27 State 3H Produced Lea County

JOB NUMBER

880-62229-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization

Generated 9/11/2025 4:43:10 PM Revision 1

Authorized for release by John Builes, Project Manager John.Builes@et.eurofinsus.com Designee for Jessica Kramer, Project Manager Jessica.Kramer@et.eurofinsus.com (432)704-5440 2

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Client: Ensolum Laboratory Job ID: 880-62229-1 Project/Site: Pygmy 27 State 3H Produced

Table of Contents

SDG: Lea County

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Eurofins Midland 9/11/2025 (Rev. 1)

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Definitions/Glossary

Client: Ensolum Job ID: 880-62229-1 Project/Site: Pygmy 27 State 3H Produced

SDG: Lea County

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

U Indicates the analyte was analyzed for but not detected.

Glossary

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

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

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

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

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

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

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum Job ID: 880-62229-1

Project: Pygmy 27 State 3H Produced

Eurofins Midland Job ID: 880-62229-1

> Job Narrative 880-62229-1

REVISION

The report being provided is a revision of the original report sent on 9/10/2025. The report (revision 1) is being revised due to Revised report due to a transcription error from the COC...

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when sitespecific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 9/3/2025 3:21 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 1.7°C.

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

Diesel Range Organics

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: 880-62229-1 Project/Site: Pygmy 27 State 3H Produced SDG: Lea County

Client Sample ID: FS03

<0.00198 U

Date Collected: 09/03/25 11:05 Date Received: 09/03/25 15:21

Sample Depth: 8.5'

o-Xylene

Lab Sample ID: 880-62229-1

09/05/25 13:37

09/05/25 09:10

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) Result Qualifier Analyte RI Unit Prepared Analyzed Dil Fac <0.00198 U 09/05/25 09:10 09/05/25 13:37 Benzene 0.00198 mg/Kg Toluene <0.00198 U 0.00198 mg/Kg 09/05/25 09:10 09/05/25 13:37 Ethylbenzene 0.00198 09/05/25 09:10 09/05/25 13:37 <0.00198 U mg/Kg m-Xylene & p-Xylene <0.00396 U 0.00396 mg/Kg 09/05/25 09:10 09/05/25 13:37

Xylenes, Total <0.00396 U 0.00396 mg/Kg 09/05/25 09:10 09/05/25 13:37 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 70 - 130 09/05/25 09:10 09/05/25 13:37 4-Bromofluorobenzene (Surr) 114 1,4-Difluorobenzene (Surr) 97 70 - 130 09/05/25 09:10 09/05/25 13:37

0.00198

mg/Kg

Method: TAL SOP Total BTEX - Total BTEX Calculation Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Total BTEX <0.00396 U 0.00396 mg/Kg 09/05/25 13:37

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier Unit Dil Fac RL D Prepared Analyzed Total TPH <49.7 U 49.7 09/09/25 14:32 mg/Kg

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL Unit D Analyzed Dil Fac Prepared <49.7 U 49.7 09/03/25 14:14 09/09/25 14:32 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.7 U 49.7 mg/Kg 09/03/25 14:14 09/09/25 14:32 C10-C28) <49.7 U 49.7 09/03/25 14:14 09/09/25 14:32 Oil Range Organics (Over C28-C36) mg/Kg

Limits Prepared Dil Fac Surrogate %Recovery Qualifier Analyzed 70 - 130 09/03/25 14:14 09/09/25 14:32 1-Chlorooctane 117 120 70 - 130 09/03/25 14:14 09/09/25 14:32 o-Terphenyl

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RLUnit D Prepared Analyzed Dil Fac 9.90 09/05/25 16:10 Chloride 41.4 mg/Kg

Lab Sample ID: 880-62229-2 Client Sample ID: FS04 Date Collected: 09/03/25 11:08 Matrix: Solid

Date Received: 09/03/25 15:21

Sample Depth: 7.5'

Method: SW846 8021B - Volatile Organic Compounds (GC) Analyte Result Qualifier Unit D Dil Fac RL Prepared Analyzed Benzene <0.00201 U 0.00201 mg/Kg 09/05/25 09:10 09/05/25 13:57 Toluene <0.00201 U 0.00201 mg/Kg 09/05/25 09:10 09/05/25 13:57 Ethylbenzene 0.00201 mg/Kg 09/05/25 13:57 <0.00201 U 09/05/25 09:10 m-Xylene & p-Xylene <0.00402 U 0.00402 mg/Kg 09/05/25 09:10 09/05/25 13:57 o-Xylene <0.00201 U 0.00201 mg/Kg 09/05/25 09:10 09/05/25 13:57 Xylenes, Total <0.00402 U 0.00402 09/05/25 09:10 09/05/25 13:57 mq/Kq Qualifier Limits Prepared Surrogate %Recovery Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 123 70 - 130 09/05/25 09:10 09/05/25 13:57

Client: Ensolum
Project/Site: Pygmy 27 State 3H Produced

Job ID: 880-62229-1
SDG: Lea County

Client Sample ID: FS04 Lab Sample ID: 880-62229-2

Date Collected: 09/03/25 11:08 Matrix: Solid
Date Received: 09/03/25 15:21

Sample Depth: 7.5'

Method: SW846 8021B - Volatile Organic Co	ompounds (GC)	(Continued)
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Surrogate	%Recovery (Qualifier Limits	Prepared Analyze	ed Dil Fac
1.4-Difluorobenzene (Surr)	92	70 - 130	09/05/25 09:10 09/05/25 1	3:57 1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00402	U	0.00402	mg/Kg			09/05/25 13:57	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/09/25 14:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/03/25 14:14	09/09/25 14:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/03/25 14:14	09/09/25 14:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/03/25 14:14	09/09/25 14:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	09/03/25 14:14	09/09/25 14:47	1
o-Terphenyl	101		70 - 130	09/03/25 14:14	09/09/25 14:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	281	10.1	mg/Kg			09/05/25 16:16	1

Client Sample ID: SW04

Date Collected: 09/03/25 11:12

Lab Sample ID: 880-62229-3

Matrix: Solid

Date Collected: 09/03/25 11:12 Date Received: 09/03/25 15:21

Sample Depth: 0-7.5'

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

INICITION. SYVOTO OUZ ID - VO	nathe Organic	Compoun	us (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/05/25 09:10	09/05/25 14:18	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/05/25 09:10	09/05/25 14:18	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/05/25 09:10	09/05/25 14:18	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		09/05/25 09:10	09/05/25 14:18	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/05/25 09:10	09/05/25 14:18	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		09/05/25 09:10	09/05/25 14:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130			09/05/25 09:10	09/05/25 14:18	1
1 4-Difluorobenzene (Surr)	94		70 _ 130			09/05/25 09:10	09/05/25 14:18	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			09/05/25 14:18	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			09/09/25 15:28	1

Eurofins Midland

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Client: Ensolum Job ID: 880-62229-1 Project/Site: Pygmy 27 State 3H Produced SDG: Lea County

Client Sample ID: SW04

Date Collected: 09/03/25 11:12 Date Received: 09/03/25 15:21

Sample Depth: 0-7.5'

Lab	Samp	le l	ID:	880	-62	229	9-3

Matrix: Solid

09/05/25 16:36

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/03/25 14:14	09/09/25 15:28	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/03/25 14:14	09/09/25 15:28	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/03/25 14:14	09/09/25 15:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130			09/03/25 14:14	09/09/25 15:28	1
o-Terphenyl	108		70 - 130			09/03/25 14:14	09/09/25 15:28	1
Method: EPA 300.0 - Anions,	lon Chroma	tography -	Soluble					
Analyte		Qualifier	RI	Unit	D	Prepared	Analyzed	Dil Fac

Lab Sample ID: 880-62229-4 **Client Sample ID: SW05 Matrix: Solid**

9.98

mg/Kg

49.3

%Recovery Qualifier

102

102

Date Collected: 09/03/25 11:15 Date Received: 09/03/25 15:21

Sample Depth: 0-8.5'

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/05/25 09:10	09/05/25 14:38	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/05/25 09:10	09/05/25 14:38	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		09/05/25 09:10	09/05/25 14:38	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		09/05/25 09:10	09/05/25 14:38	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		09/05/25 09:10	09/05/25 14:38	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/05/25 09:10	09/05/25 14:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	74		70 - 130			09/05/25 09:10	09/05/25 14:38	1
1,4-Difluorobenzene (Surr)	81		70 - 130			09/05/25 09:10	09/05/25 14:38	1
Method: TAL SOP Total BTEX Analyte				Unit	D	Prepared	Analyzed	Dil Fac
Method: TAL SOP Total BTEX								
Method: TAL SOP Total BTEX Analyte Total BTEX		Qualifier	ion RL 0.00398	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 09/05/25 14:38	Dil Fac
Analyte	Result <0.00398	Qualifier U Organics (RL 0.00398		<u> </u>	Prepared		1
Analyte Total BTEX	Result <0.00398	Qualifier U	RL 0.00398		<u>D</u>	Prepared Prepared		
Analyte Total BTEX Method: SW846 8015 NM - Di	Result <0.00398	Qualifier U Organics (Qualifier	RL 0.00398 DRO) (GC)	mg/Kg		<u> </u>	09/05/25 14:38	1
Analyte Total BTEX Method: SW846 8015 NM - Di Analyte	Result <0.00398 esel Range (Result <49.9	Qualifier U Organics (Qualifier U	RL 0.00398 DRO) (GC) RL 49.9	mg/Kg Unit		<u> </u>	09/05/25 14:38 Analyzed	1
Analyte Total BTEX Method: SW846 8015 NM - Di Analyte Total TPH	Result <0.00398 esel Range (Result <49.9 Diesel Range	Qualifier U Organics (Qualifier U	RL 0.00398 DRO) (GC) RL 49.9	mg/Kg Unit		<u> </u>	09/05/25 14:38 Analyzed	Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Di Analyte Total TPH Method: SW846 8015B NM - E	Result <0.00398 esel Range (Result <49.9 Diesel Range	Qualifier U Organics (Qualifier U Organics (Qualifier U	RL 0.00398 DRO) (GC) RL 49.9	mg/Kg Unit mg/Kg	<u>D</u>	Prepared	09/05/25 14:38 Analyzed 09/09/25 15:43	Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Di Analyte Total TPH Method: SW846 8015B NM - E Analyte Gasoline Range Organics	Result <0.00398 esel Range (Result <49.9 Diesel Range Result	Qualifier U Organics (Qualifier U Organics U Organics U	RL 0.00398 DRO) (GC) RL 49.9	mg/Kg Unit mg/Kg Unit	<u>D</u>	Prepared Prepared	09/05/25 14:38 Analyzed 09/09/25 15:43 Analyzed	1

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Analyzed

Prepared

09/03/25 14:14 09/09/25 15:43

09/03/25 14:14 09/09/25 15:43

Dil Fac

Limits

70 - 130

70 - 130

Surrogate

o-Terphenyl

1-Chlorooctane

Client Sample Results

Client: Ensolum Job ID: 880-62229-1 Project/Site: Pygmy 27 State 3H Produced

SDG: Lea County

Lab Sample ID: 880-62229-4 **Client Sample ID: SW05** Date Collected: 09/03/25 11:15

Matrix: Solid

Date Received: 09/03/25 15:21 Sample Depth: 0-8.5'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	215		10.1	mg/Kg			09/05/25 16:43	1		

Surrogate Summary

Client: Ensolum Job ID: 880-62229-1 Project/Site: Pygmy 27 State 3H Produced SDG: Lea County

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

			Percer	nt Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-62229-1	FS03	114	97	
880-62229-2	FS04	123	92	
880-62229-3	SW04	115	94	
880-62229-4	SW05	74	81	
LCS 880-118315/1-A	Lab Control Sample	109	96	
LCS 880-118357/1-A	Lab Control Sample	125	102	
LCSD 880-118315/2-A	Lab Control Sample Dup	112	99	
LCSD 880-118357/2-A	Lab Control Sample Dup	116	98	
MB 880-118315/5-A	Method Blank	115	93	
Surrogate Legend				
BFB = 4-Bromofluorob	enzene (Surr)			
	(0)			

DFBZ = 1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Range Organics (DRO) (GC)

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

			Percent S	surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-62229-1	FS03	117	120	
880-62229-2	FS04	102	101	
880-62229-3	SW04	106	108	
880-62229-4	SW05	102	102	
LCS 880-118177/2-A	Lab Control Sample	89	103	
LCSD 880-118177/3-A	Lab Control Sample Dup	106	99	
MB 880-118177/1-A	Method Blank	94	95	

Surrogate Legend 1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum Job ID: 880-62229-1 Project/Site: Pygmy 27 State 3H Produced SDG: Lea County

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-118315/5-A

Matrix: Solid

Analysis Batch: 118307

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 118315

	MB	INIR						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/05/25 09:10	09/05/25 11:33	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/05/25 09:10	09/05/25 11:33	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/05/25 09:10	09/05/25 11:33	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		09/05/25 09:10	09/05/25 11:33	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/05/25 09:10	09/05/25 11:33	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/05/25 09:10	09/05/25 11:33	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	09/05/25 09:10 09/05/25 11:33	1
1,4-Difluorobenzene (Surr)	93		70 - 130	09/05/25 09:10 09/05/25 11:33	1

Lab Sample ID: LCS 880-118315/1-A

Matrix: Solid

Analysis Batch: 118307

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 118315

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08001		mg/Kg		80	70 - 130	
Toluene	0.100	0.08435		mg/Kg		84	70 - 130	
Ethylbenzene	0.100	0.09861		mg/Kg		99	70 - 130	
m-Xylene & p-Xylene	0.200	0.1975		mg/Kg		99	70 - 130	
o-Xylene	0.100	0.1017		mg/Kg		102	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: LCSD 880-118315/2-A

Matrix: Solid

Analysis Batch: 118307

Client Sample ID: Lab Contr	ol Sample Dup
-----------------------------	---------------

Prep Type: Total/NA

Prep Batch: 118315

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08445		mg/Kg		84	70 - 130	5	35
Toluene	0.100	0.08571		mg/Kg		86	70 - 130	2	35
Ethylbenzene	0.100	0.09953		mg/Kg		100	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2020		mg/Kg		101	70 - 130	2	35
o-Xylene	0.100	0.1051		mg/Kg		105	70 - 130	3	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCS 880-118357/1-A

Matrix: Solid

Analysis Batch: 118307

Prep Type: Total/NA

Prep Batch: 118357

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08919		mg/Kg		89	70 - 130	
Toluene	0.100	0.08994		mg/Kg		90	70 - 130	

Client Sample ID: Lab Control Sample

109

70 - 130

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 118177

mg/Kg

QC Sample Results

Client: Ensolum Job ID: 880-62229-1 Project/Site: Pygmy 27 State 3H Produced SDG: Lea County

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

Lab Sample ID: LCS 880-118357/1-A

Matrix: Solid Analysis Batch: 118307							Prep Type: Tota Prep Batch: 118	
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	0.100	0.1049		mg/Kg		105	70 - 130	
m-Xylene & p-Xylene	0.200	0.2114		mg/Kg		106	70 - 130	
o-Xylene	0.100	0.1093		mg/Kg		109	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	125		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: LCSD 880-118357/2-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

o-Xylene

o-Xylene

Prep Type: Total/NA **Prep Batch: 118357 Analysis Batch: 118307** LCSD LCSD Spike %Rec **RPD** Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit Benzene 0.100 0.08983 90 70 - 130 35 mg/Kg 1 Toluene 0.100 0.08928 89 70 - 130 35 mg/Kg Ethylbenzene 0.100 0.1027 mg/Kg 103 70 - 130 2 35 m-Xylene & p-Xylene 0.200 0.2072 mg/Kg 104 70 - 130 2 35

0.1091

0.100

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

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

Lab Sample ID: MB 880-118177/1-A

Matrix: Solid

Analysis Batch: 118543

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/03/25 14:14	09/09/25 09:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/03/25 14:14	09/09/25 09:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/03/25 14:14	09/09/25 09:31	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130	09/03/25 14:14	09/09/25 09:31	1
o-Terphenyl	95		70 - 130	09/03/25 14:14	09/09/25 09:31	1

Lab Sample ID: LCS 880-118177/2-A

Matrix: Solid							Prep Type: Total/NA
Analysis Batch: 118543							Prep Batch: 118177
•	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics	1000	1050		mg/Kg		105	70 - 130
(GRO)-C6-C10							
Diesel Range Organics (Over	1000	1057		mg/Kg		106	70 - 130
C10_C28\							

Client: Ensolum Job ID: 880-62229-1 Project/Site: Pygmy 27 State 3H Produced SDG: Lea County

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

Lab Sample ID: LCS 880-118177/2-A **Matrix: Solid**

Analysis Batch: 118543

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 118177

LCS LCS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 89 70 - 130 o-Terphenyl 103 70 - 130

Client Sample ID: Lab Control Sample Dup Lab Sample ID: LCSD 880-118177/3-A

Matrix: Solid

Analysis Batch: 118543

Prep Type: Total/NA **Prep Batch: 118177**

LCSD LCSD %Rec **RPD** Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Gasoline Range Organics 1000 1016 mg/Kg 102 70 - 130 3 20 (GRO)-C6-C10 Diesel Range Organics (Over 1000 952.9 mg/Kg 95 70 - 130 10 20 C10-C28)

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	99		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-118286/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 118296

MB MB

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0 U	10.0	mg/Kg			09/05/25 15:10	1

Lab Sample ID: LCS 880-118286/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 118296

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	234.1		mg/Kg		94	90 - 110	

Lab Sample ID: LCSD 880-118286/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 118296

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	234.4		mg/Kg		94	90 - 110	0	20

QC Association Summary

Job ID: 880-62229-1 Client: Ensolum Project/Site: Pygmy 27 State 3H Produced SDG: Lea County

GC VOA

Analysis Batch: 118307

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-62229-1	FS03	Total/NA	Solid	8021B	118315
880-62229-2	FS04	Total/NA	Solid	8021B	118315
880-62229-3	SW04	Total/NA	Solid	8021B	118315
880-62229-4	SW05	Total/NA	Solid	8021B	118315
MB 880-118315/5-A	Method Blank	Total/NA	Solid	8021B	118315
LCS 880-118315/1-A	Lab Control Sample	Total/NA	Solid	8021B	118315
LCS 880-118357/1-A	Lab Control Sample	Total/NA	Solid	8021B	118357
LCSD 880-118315/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	118315
LCSD 880-118357/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	118357

Prep Batch: 118315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-62229-1	FS03	Total/NA	Solid	5035	
880-62229-2	FS04	Total/NA	Solid	5035	
880-62229-3	SW04	Total/NA	Solid	5035	
880-62229-4	SW05	Total/NA	Solid	5035	
MB 880-118315/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-118315/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-118315/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 118357

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-118357/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-118357/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 118440

Lab Sample ID 880-62229-1	Client Sample ID FS03	Prep Type Total/NA	Matrix Solid	Method Total BTEX	Prep Batch
880-62229-2	FS04	Total/NA	Solid	Total BTEX	
880-62229-3	SW04	Total/NA	Solid	Total BTEX	
880-62229-4	SW05	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 118177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-62229-1	FS03	Total/NA	Solid	8015NM Prep	
880-62229-2	FS04	Total/NA	Solid	8015NM Prep	
880-62229-3	SW04	Total/NA	Solid	8015NM Prep	
880-62229-4	SW05	Total/NA	Solid	8015NM Prep	
MB 880-118177/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-118177/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-118177/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 118543

Lab Sample ID 880-62229-1	Client Sample ID FS03	Prep Type Total/NA	Matrix Solid	Method 8015B NM	Prep Batch 118177
880-62229-2	FS04	Total/NA	Solid	8015B NM	118177
880-62229-3	SW04	Total/NA	Solid	8015B NM	118177
880-62229-4	SW05	Total/NA	Solid	8015B NM	118177
MB 880-118177/1-A	Method Blank	Total/NA	Solid	8015B NM	118177

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QC Association Summary

Job ID: 880-62229-1 Client: Ensolum Project/Site: Pygmy 27 State 3H Produced SDG: Lea County

GC Semi VOA (Continued)

Analysis Batch: 118543 (Continued)

Lab Sample ID Client Sample ID		Client Sample ID	Prep Type	Matrix	Method	Prep Batch
	LCS 880-118177/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	118177
	LCSD 880-118177/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	118177

Analysis Batch: 118607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-62229-1	FS03	Total/NA	Solid	8015 NM	
880-62229-2	FS04	Total/NA	Solid	8015 NM	
880-62229-3	SW04	Total/NA	Solid	8015 NM	
880-62229-4	SW05	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 118286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-62229-1	FS03	Soluble	Solid	DI Leach	
880-62229-2	FS04	Soluble	Solid	DI Leach	
880-62229-3	SW04	Soluble	Solid	DI Leach	
880-62229-4	SW05	Soluble	Solid	DI Leach	
MB 880-118286/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-118286/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-118286/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 118296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
880-62229-1	FS03	Soluble	Solid	300.0	118286	
880-62229-2	FS04	Soluble	Solid	300.0	118286	
880-62229-3	SW04	Soluble	Solid	300.0	118286	
880-62229-4	SW05	Soluble	Solid	300.0	118286	
MB 880-118286/1-A	Method Blank	Soluble	Solid	300.0	118286	
LCS 880-118286/2-A	Lab Control Sample	Soluble	Solid	300.0	118286	
LCSD 880-118286/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	118286	

Project/Site: Pygmy 27 State 3H Produced

Job ID: 880-62229-1

SDG: Lea County

Matrix: Solid

Lab Sample ID: 880-62229-1

Date Collected: 09/03/25 11:05 Date Received: 09/03/25 15:21

Client Sample ID: FS03

Client: Ensolum

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			118315	AA	EET MID	09/05/25 09:10
Total/NA	Analysis	8021B		1	118307	MNR	EET MID	09/05/25 13:37
Total/NA	Analysis	Total BTEX		1	118440	SA	EET MID	09/05/25 13:37
Total/NA	Analysis	8015 NM		1	118607	SA	EET MID	09/09/25 14:32
Total/NA	Prep	8015NM Prep			118177	EL	EET MID	09/03/25 14:14
Total/NA	Analysis	8015B NM		1	118543	TKC	EET MID	09/09/25 14:32
Soluble	Leach	DI Leach			118286	SI	EET MID	09/04/25 15:42
Soluble	Analysis	300.0		1	118296	CS	EET MID	09/05/25 16:10

Client Sample ID: FS04

Date Collected: 09/03/25 11:08

Date Received: 09/03/25 15:21

Lab Sample ID: 880-62229-2

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			118315	AA	EET MID	09/05/25 09:10
Total/NA	Analysis	8021B		1	118307	MNR	EET MID	09/05/25 13:57
Total/NA	Analysis	Total BTEX		1	118440	SA	EET MID	09/05/25 13:57
Total/NA	Analysis	8015 NM		1	118607	SA	EET MID	09/09/25 14:47
Total/NA	Prep	8015NM Prep			118177	EL	EET MID	09/03/25 14:14
Total/NA	Analysis	8015B NM		1	118543	TKC	EET MID	09/09/25 14:47
Soluble	Leach	DI Leach			118286	SI	EET MID	09/04/25 15:42
Soluble	Analysis	300.0		1	118296	CS	EET MID	09/05/25 16:16

Client Sample ID: SW04

Date Collected: 09/03/25 11:12 Date Received: 09/03/25 15:21 Lab Sample ID: 880-62229-3

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			118315	AA	EET MID	09/05/25 09:10
Total/NA	Analysis	8021B		1	118307	MNR	EET MID	09/05/25 14:18
Total/NA	Analysis	Total BTEX		1	118440	SA	EET MID	09/05/25 14:18
Total/NA	Analysis	8015 NM		1	118607	SA	EET MID	09/09/25 15:28
Total/NA	Prep	8015NM Prep			118177	EL	EET MID	09/03/25 14:14
Total/NA	Analysis	8015B NM		1	118543	TKC	EET MID	09/09/25 15:28
Soluble	Leach	DI Leach			118286	SI	EET MID	09/04/25 15:42
Soluble	Analysis	300.0		1	118296	CS	EET MID	09/05/25 16:36

Client Sample ID: SW05

Date Collected: 09/03/25 11:15

Date Received: 09/03/25 15:21

Lab Sample	ID: 880-62229-4
------------	-----------------

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			118315	AA	EET MID	09/05/25 09:10
Total/NA	Analysis	8021B		1	118307	MNR	EET MID	09/05/25 14:38
Total/NA	Analysis	Total BTEX		1	118440	SA	EET MID	09/05/25 14:38

Lab Chronicle

Client: Ensolum Job ID: 880-62229-1 Project/Site: Pygmy 27 State 3H Produced SDG: Lea County

Client Sample ID: SW05 Lab Sample ID: 880-62229-4

Matrix: Solid

Date Collected: 09/03/25 11:15 Date Received: 09/03/25 15:21

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8015 NM		1	118607	SA	EET MID	09/09/25 15:43
Total/NA	Prep	8015NM Prep			118177	EL	EET MID	09/03/25 14:14
Total/NA	Analysis	8015B NM		1	118543	TKC	EET MID	09/09/25 15:43
Soluble	Leach	DI Leach			118286	SI	EET MID	09/04/25 15:42
Soluble	Analysis	300.0		1	118296	CS	EET MID	09/05/25 16:43

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Pygmy 27 State 3H Produced

Job ID: 880-62229-1
SDG: Lea County

Laboratory: Eurofins Midland

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

Authority	Progra	am	Identification Number	Expiration Date
Texas	NELAI	Р	T104704400	06-30-26
The following analyte	s are included in this reno	rt but the laboratory is r	not certified by the governing authori	ity. This list may incl
The following analyte	s are included in this repo	it, but the laboratory is i	ior certified by the governing authori	ity. Triis iist iiiay iiiti
0 ,	does not offer certification	•	lot certified by the governing authori	ity. Triis list may inci
0 ,	•	•	Analyte	ity. Triis list may moi
for which the agency	does not offer certification	I.	, , ,	ity. This list may incl

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Method Summary

Client: Ensolum

Project/Site: Pygmy 27 State 3H Produced

Job ID: 880-62229-1

SDG: Lea County

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum

Project/Site: Pygmy 27 State 3H Produced

Job ID: 880-62229-1

SDG: Lea County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-62229-1	FS03	Solid	09/03/25 11:05	09/03/25 15:21	8.5'
880-62229-2	FS04	Solid	09/03/25 11:08	09/03/25 15:21	7.5'
880-62229-3	SW04	Solid	09/03/25 11:12	09/03/25 15:21	0-7.5'
880-62229-4	SW05	Solid	09/03/25 11:15	09/03/25 15:21	0-8.5'

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Revised Date: 08/25/2020 Rev. 2020.2

Date/Time

Received by: (Signature)

Relinquished by: (Signature)

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vins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Received by: (Signature)

Relinquished by: (Signature)

Chain of Custody

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

Environment Testing

🛟 eurofins

Xenco

880-62229 Chain of Custody

Project Manager:	Hadlie Green	Bill to: (if different)	Hedlie Green	Work Order Comments	mments
Company Name:	Ensalum, LLC	Company Name:		Program: UST/PST PRP Brow	Brownfields ☐ RRC ☐ Superfund ☐
Address:	GOIN Marienfeld St. St. YCHAddress.	St CYCOMAddress:		State of Project:	
City, State ZIP:	Hidland, TX 7970	City, State ZIP:		Reporting: Level Level PST/UST TRRP Level IV	ST/UST TRRP Level IV
Phone:	H32)257-8895	Email: Vigreen Pevi	green Eusolum. com / tguadiant epsildin Pelipgables	SULUM Pelingrables: EDD ADaPT	ı⊤ ☐ Other:
Project Name:	Pyamy 27 State 5 H Produced Turn Around	Leed Turn Around	ANALYSIS REQUEST	EQUEST	Preservative Codes
Project Number:	Wat 28 0301024256	Routine Rush Code	r see		None: NO DI Water: H ₂ O
Project Location:	/	Due Date:	01	v	Cool: Cool MeOH: Me
Sampler's Name:	adian	TAT starts the day received by	28		HCL: HC HNO 3: HN
PO #:	0302024356	the lab, if received by 4:30pm	2		H ₂ SO ₄ : H ₂ NaOH: Na
SAMPLE RECEIPT	Temp Blank: Yes (No	Wet Ice: Ves No	5 1 20		H ₃ PO ₄ : HP
Samples Received Intact:		TKO	2100		NaHSO 4: NABIS
Cooler Custody Seals:	: Yes No /N/A Correction Factor:	1	8		Na ₂ S ₂ O ₃ : NaSO ₃
Sample Custody Seals:	Is: Yes No (N/A) Temperature Reading:	Reading:	\(\frac{1}{2}\)		Zn Acetate+NaOH: Zn
Total Containers:	Corrected Temperature:	perature: 1 · 7	7)		NaOH+Ascorbic Acid: SAPC
Sample Identification	iffication Matrix Sampled	Time Depth Grab/ # of	10		Sample Comments
F503	\$	8.5	XXX		
F 56		1108 7.51 6 1	× × ×		
7035		112 0-75 6 1	XXX		
SWO	0 1	1150-85 C 1	X		
		715/24			12 A
	120	(7/0//			
Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM Texas 11 Al S	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Tl Sn U V Zn	Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr	TI Sn U V Zn
Circle Method(s)	Circle Method(s) and Metal(s) to be analyzed	TCLP / SPLP 6010 : 8RCRA	TCLP/SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U	Ni Se Ag TI U Hg: 1631 / 245.1 / 7470 / 7471	/7470 /7471
history Cleaners on the clo	sument and relinquishment of samples constitutes a val	d burchase order from client company to Eu	And the document and relinouishment of samples constitutes a valid burchase order from client company to Eurofins Xenco. Its affiliates and subcontractors. It assigns standard terms and conditions	d terms and conditions	
Notice: Signature or uso or of service. Eurofins Xenco	will be liable only for the cost of samples and shall not as	sume any responsibility for any losses or exp	Notice. Signature of this document of samples and shall not assume any responsibility for any hoses or expenses incurred by the client if such losses are due to circumstances beyond the control	ces beyond the control	

Login Sample Receipt Checklist

Client: Ensolum Job Number: 880-62229-1 SDG Number: Lea County

Login Number: 62229 **List Source: Eurofins Midland**

List Number: 1

<6mm (1/4").

Creator: Vasquez, Julisa

•		
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	

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green

Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 9/23/2025 11:28:36 AM

JOB DESCRIPTION

PYGMY 27 STATE 3H PRODUCED WATER 03D2024356

JOB NUMBER

890-8826-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220



Eurofins Carlsbad

Job Notes

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

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

Authorization

Generated 9/23/2025 11:28:36 AM

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

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

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Client: Ensolum Project/Site: PYGMY 27 STATE 3H PRODUCED WATER Laboratory Job ID: 890-8826-1 SDG: 03D2024356

Table of Contents

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Definitions/Glossary

Job ID: 890-8826-1 Client: Ensolum Project/Site: PYGMY 27 STATE 3H PRODUCED WATER SDG: 03D2024356

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

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

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

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

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

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

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

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

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

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

TNTC Too Numerous To Count

Eurofins Carlsbad

Case Narrative

Client: Ensolum Job ID: 890-8826-1

Project: PYGMY 27 STATE 3H PRODUCED WATER

Job ID: 890-8826-1 Eurofins Carlsbad

Job Narrative 890-8826-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The sample was received on 9/18/2025 12:50 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.8°C.

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: BF01 (890-8826-1).

The following sample was received and analyzed from an unpreserved bulk soil jar: BF01 (890-8826-1).

GC VOA

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

Diesel Range Organics

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-119262/2-A), (880-62821-A-19-E MS) and (880-62821-A-19-F MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-119262 and analytical batch 880-119454 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-119262/3-A). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

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

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Client: Ensolum Job ID: 890-8826-1
Project/Site: PYGMY 27 STATE 3H PRODUCED WATER SDG: 03D2024356

Client Sample ID: BF01

Date Collected: 09/18/25 11:30 Date Received: 09/18/25 12:50 Lab Sample ID: 890-8826-1

Matrix: Solid

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	Organic Comp							
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00202	U	0.00202	mg/Kg		09/19/25 09:10	09/19/25 17:46	•
Toluene	<0.00202	U	0.00202	mg/Kg		09/19/25 09:10	09/19/25 17:46	•
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/19/25 09:10	09/19/25 17:46	
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		09/19/25 09:10	09/19/25 17:46	•
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/19/25 09:10	09/19/25 17:46	
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/19/25 09:10	09/19/25 17:46	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)			70 - 130			09/19/25 09:10	09/19/25 17:46	-
1,4-Difluorobenzene (Surr)	102		70 - 130			09/19/25 09:10	09/19/25 17:46	
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00403	U	0.00403	mg/Kg			09/19/25 17:46	
Method: SW846 8015 NM - Diese Analyte		Qualifier	GC) RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	- - 100011 - 49.8		49.8	mg/Kg			09/22/25 23:38	
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte	• •	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics	<49.8	U *+	49.8	mg/Kg		09/19/25 08:31	09/22/25 23:38	
(GRO)-C6-C10				5 5				
Diesel Range Organics (Over	<49.8	U	49.8	mg/Kg		09/19/25 08:31	09/22/25 23:38	
C10-C28)								
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/19/25 08:31	09/22/25 23:38	•
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	98		70 - 130			09/19/25 08:31	09/22/25 23:38	
o-Terphenyl	106		70 - 130			09/19/25 08:31	09/22/25 23:38	
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Method: EPA 300.0 - Anions, Ion Analyte	• .	hy - Solubl Qualifier	e RL	Unit	D	Prepared	Analyzed	Dil Fa

Surrogate Summary

Client: Ensolum Job ID: 890-8826-1
Project/Site: PYGMY 27 STATE 3H PRODUCED WATER SDG: 03D2024356

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

•				Percent Surrogate Rec
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-62814-A-21-B MS	Matrix Spike	121	100	
880-62814-A-21-C MSD	Matrix Spike Duplicate	116	105	
890-8826-1	BF01	117	102	
LCS 880-119254/1-A	Lab Control Sample	118	103	
LCSD 880-119254/2-A	Lab Control Sample Dup	108	105	
MB 880-119254/5-A	Method Blank	108	95	
Surrogate Legend				
BFB = 4-Bromofluorobenzen	e (Surr)			
DFBZ = 1,4-Difluorobenzene	(Surr)			

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-62821-A-19-E MS	Matrix Spike	107	148 S1+	
880-62821-A-19-F MSD	Matrix Spike Duplicate	120	169 S1+	
890-8826-1	BF01	98	106	
LCS 880-119262/2-A	Lab Control Sample	127	149 S1+	
LCSD 880-119262/3-A	Lab Control Sample Dup	144 S1+	174 S1+	
MB 880-119262/1-A	Method Blank	121	130	
Surrogate Legend				

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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Client: Ensolum Job ID: 890-8826-1 Project/Site: PYGMY 27 STATE 3H PRODUCED WATER SDG: 03D2024356

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-119254/5-A

Matrix: Solid

Analysis Batch: 119180

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 119254

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/18/25 15:56	09/19/25 11:45	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/18/25 15:56	09/19/25 11:45	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/18/25 15:56	09/19/25 11:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		09/18/25 15:56	09/19/25 11:45	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/18/25 15:56	09/19/25 11:45	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/18/25 15:56	09/19/25 11:45	1
	440	440						

Surrogate	%Recovery	Qualifier	Limits	Prepa	ared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	09/18/25	5 15:56	09/19/25 11:45	1
1,4-Difluorobenzene (Surr)	95		70 - 130	09/18/25	5 15:56	09/19/25 11:45	1

Lab Sample ID: LCS 880-119254/1-A

Matrix: Solid

Analysis Batch: 119180

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 119254

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.07278		mg/Kg		73	70 - 130	
Toluene	0.100	0.08381		mg/Kg		84	70 - 130	
Ethylbenzene	0.100	0.08689		mg/Kg		87	70 - 130	
m-Xylene & p-Xylene	0.200	0.1766		mg/Kg		88	70 - 130	
o-Xylene	0.100	0.09121		mg/Kg		91	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	118	70 - 130
1,4-Difluorobenzene (Surr)	103	70 - 130

Lab Sample ID: LCSD 880-119254/2-A

Matrix: Solid

Analysis Batch: 119180

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 119254

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.07908		mg/Kg		79	70 - 130	8	35
Toluene	0.100	0.08376		mg/Kg		84	70 - 130	0	35
Ethylbenzene	0.100	0.08336		mg/Kg		83	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.1658		mg/Kg		83	70 - 130	6	35
o-Xylene	0.100	0.08551		mg/Kg		86	70 - 130	6	35

LCSD LCSD

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

Lab Sample ID: 880-62814-A-21-B MS

Matrix: Solid

Analysis Batch: 119180

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 119254

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.100	0.07987		mg/Kg		80	70 - 130	
Toluene	< 0.00201	U	0.100	0.09049		mg/Kg		90	70 - 130	

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Prep Batch: 119254

Pren Type: Total/NA

Client Sample ID: Matrix Spike Duplicate

QC Sample Results

Client: Ensolum Job ID: 890-8826-1 Project/Site: PYGMY 27 STATE 3H PRODUCED WATER SDG: 03D2024356

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

Lab Sample ID: 880-62814-A-21-B MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 119180

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00201	U	0.100	0.09234		mg/Kg		92	70 - 130	
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1876		mg/Kg		94	70 - 130	
o-Xylene	<0.00201	U	0.100	0.09580		mg/Kg		96	70 - 130	

MS MS Surrogate %Recovery Qualifier Limits 70 - 130 4-Bromofluorobenzene (Surr) 121 1,4-Difluorobenzene (Surr) 100 70 - 130

Lab Sample ID: 880-62814-A-21-C MSD

Matrix: Solid

matrix. Cond									i icp i	ypc. io	tui/IIA
Analysis Batch: 119180									Prep l	Batch: 1	19254
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U	0.100	0.07451		mg/Kg		75	70 - 130	7	35
Toluene	<0.00201	U	0.100	0.07973		mg/Kg		80	70 - 130	13	35
Ethylbenzene	<0.00201	U	0.100	0.08043		mg/Kg		80	70 - 130	14	35
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1623		mg/Kg		81	70 - 130	14	35
o-Xylene	<0.00201	U	0.100	0.08267		mg/Kg		83	70 - 130	15	35

MSD MSD Surrogate Qualifier Limits %Recovery 70 - 130 4-Bromofluorobenzene (Surr) 116 1,4-Difluorobenzene (Surr) 105 70 - 130

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

Lab Sample ID: MB 880-119262/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA **Prep Batch: 119262**

Analysis Batch: 119454

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/19/25 08:31	09/22/25 18:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/19/25 08:31	09/22/25 18:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/19/25 08:31	09/22/25 18:33	1

MB MB Dil Fac Surrogate %Recovery Qualifier Limits Prepared Analyzed 70 - 130 09/19/25 08:31 1-Chlorooctane 121 09/22/25 18:33 70 - 130 09/19/25 08:31 09/22/25 18:33 o-Terphenyl 130

Lab Sample ID: LCS 880-119262/2-A Client Sample ID: Lab Control Sample **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 119454

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1147		mg/Kg		115	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1076		mg/Kg		108	70 - 130	
C10-C28)								

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Prep Batch: 119262

Job ID: 890-8826-1 Client: Ensolum Project/Site: PYGMY 27 STATE 3H PRODUCED WATER SDG: 03D2024356

Limits

70 - 130

70 - 130

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

LCS LCS

%Recovery Qualifier

127

Lab Sample ID: LCS 880-119262/2-A

Matrix: Solid

Surrogate

1-Chlorooctane

Analysis Batch: 119454

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 119262

o-Terphenyl 149 S1+

Lab Sample ID: LCSD 880-119262/3-A

Lab Sample ID: 880-62821-A-19-E MS

Matrix: Solid

Analysis Batch: 119454

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 119262

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 1000 1322 132 70 - 13014 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1240 mg/Kg 124 70 - 13020 14 C10-C28)

LCSD LCSD

Surrogate %Recovery Qualifier Limits 144 S1+ 70 - 130 1-Chlorooctane 174 S1+ 70 - 130 o-Terphenyl

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 119262

MS MS Sample Sample Spike Added Analyte Result Qualifier Result Qualifier Unit D %Rec Limits Gasoline Range Organics <50.0 U *+ 998 922.0 mg/Kg 92 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 489 998 1316 mg/Kg 83 70 - 130

C10-C28)

Matrix: Solid

Analysis Batch: 119454

MS MS %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 107 o-Terphenyl 148 S1+ 70 - 130

Lab Sample ID: 880-62821-A-19-F MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 119454

Prep Type: Total/NA

Prep Batch: 119262

RPD %Rec

Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit U *+ 998 Gasoline Range Organics <50.0 1064 107 70 - 130 14 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 489 998 1510 mg/Kg 102 70 - 130 14 20

MSD MSD

C10-C28)

MSD MSD

Qualifier Surrogate %Recovery Limits 1-Chlorooctane 120 70 - 130 169 S1+ 70 - 130 o-Terphenyl

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9/23/2025

Prep Type: Soluble

%Rec

Client: Ensolum Job ID: 890-8826-1 Project/Site: PYGMY 27 STATE 3H PRODUCED WATER SDG: 03D2024356

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-119283/1-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 119330

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0	mg/Kg			09/19/25 18:29	1

Lab Sample ID: LCS 880-119283/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 119330

Spike LCS LCS Added

%Rec Analyte Result Qualifier Unit D Limits Chloride 250 258.4 mg/Kg 103 90 - 110

Lab Sample ID: LCSD 880-119283/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 119330

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit

Chloride 250 258.7 mg/Kg 103 90 - 110

Lab Sample ID: 880-62821-A-27-D MS Client Sample ID: Matrix Spike **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 119330

Spike MS MS Sample Sample %Rec Analyte Qualifier Added Result Qualifier %Rec Result Unit Limits Chloride 46.7 253 303.6 102 90 - 110 mg/Kg

Lab Sample ID: 880-62821-A-27-E MSD Client Sample ID: Matrix Spike Duplicate **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 119330

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 253 46.7 304.3 mg/Kg 102 90 - 110 20

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QC Association Summary

Client: Ensolum Job ID: 890-8826-1
Project/Site: PYGMY 27 STATE 3H PRODUCED WATER SDG: 03D2024356

GC VOA

Analysis Batch: 119180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8826-1	BF01	Total/NA	Solid	8021B	119254
MB 880-119254/5-A	Method Blank	Total/NA	Solid	8021B	119254
LCS 880-119254/1-A	Lab Control Sample	Total/NA	Solid	8021B	119254
LCSD 880-119254/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	119254
880-62814-A-21-B MS	Matrix Spike	Total/NA	Solid	8021B	119254
880-62814-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	119254

Prep Batch: 119254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8826-1	BF01	Total/NA	Solid	5035	
MB 880-119254/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-119254/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-119254/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-62814-A-21-B MS	Matrix Spike	Total/NA	Solid	5035	
880-62814-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 119482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8826-1	BF01	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 119262

Lab Sample ID 890-8826-1	Client Sample ID BF01	Prep Type Total/NA	Matrix Solid	Method 8015NM Prep	Prep Batch
MB 880-119262/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-119262/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-119262/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-62821-A-19-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-62821-A-19-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 119454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8826-1	BF01	Total/NA	Solid	8015B NM	119262
MB 880-119262/1-A	Method Blank	Total/NA	Solid	8015B NM	119262
LCS 880-119262/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	119262
LCSD 880-119262/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	119262
880-62821-A-19-E MS	Matrix Spike	Total/NA	Solid	8015B NM	119262
880-62821-A-19-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	119262

Analysis Batch: 119573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8826-1	BF01	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 119283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8826-1	BF01	Soluble	Solid	DI Leach	
MB 880-119283/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-119283/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-119283/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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Page 12 of 22 9/23/2025

QC Association Summary

Client: Ensolum Job ID: 890-8826-1 Project/Site: PYGMY 27 STATE 3H PRODUCED WATER SDG: 03D2024356

HPLC/IC (Continued)

Leach Batch: 119283 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-62821-A-27-D MS	Matrix Spike	Soluble	Solid	DI Leach	
880-62821-A-27-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 119330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8826-1	BF01	Soluble	Solid	300.0	119283
MB 880-119283/1-A	Method Blank	Soluble	Solid	300.0	119283
LCS 880-119283/2-A	Lab Control Sample	Soluble	Solid	300.0	119283
LCSD 880-119283/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	119283
880-62821-A-27-D MS	Matrix Spike	Soluble	Solid	300.0	119283
880-62821-A-27-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	119283

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Lab Chronicle

Client: Ensolum Job ID: 890-8826-1 Project/Site: PYGMY 27 STATE 3H PRODUCED WATER SDG: 03D2024356

Client Sample ID: BF01 Date Collected: 09/18/25 11:30

Lab Sample ID: 890-8826-1

Matrix: Solid

Date Received: 09/18/25 12:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	119254	09/19/25 09:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	119180	09/19/25 17:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			119482	09/19/25 17:46	SA	EET MID
Total/NA	Analysis	8015 NM		1			119573	09/22/25 23:38	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	119262	09/19/25 08:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	119454	09/22/25 23:38	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	119283	09/19/25 09:26	SI	EET MID
Soluble	Analysis	300.0		1			119330	09/19/25 21:18	CS	EET MID

Laboratory References:

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

Eurofins Carlsbad

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-8826-1
Project/Site: PYGMY 27 STATE 3H PRODUCED WATER SDG: 03D2024356

Laboratory: Eurofins Midland

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

Authority	Progra	am	Identification Number	Expiration Date
Texas	NELA	Р	T104704400	06-30-26
,	are included in this report, but oes not offer certification.	it the laboratory is not certif	fied by the governing authority. This lis	t may include analytes
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	
Total BTEX		Solid	Total BTEX	

Method Summary

Client: Ensolum

Project/Site: PYGMY 27 STATE 3H PRODUCED WATER

Job ID: 890-8826-1

SDG: 03D2024356

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum

Project/Site: PYGMY 27 STATE 3H PRODUCED WATER

Job ID: 890-8826-1

SDG: 03D2024356

Lab Sample ID Client Sample ID Sample Origin Matrix Collected Received 890-8826-1 BF01 Solid 09/18/25 11:30 09/18/25 12:50 New Mexico

Eurofins Carlsbad

eurofins	a new contract (games tracked)	Environ	Environment Testing Xenco		E Wid -	Chain of Custody Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296	Chain of Custody TX (281) 240-4200, Dallas, TX (214) 90 (432) 704-5440, San Antonio, TX (210) TX (915) 585-3443, Lubbock, TX (806) 7	in o) 240-42 04-5440 585-34	οο, Dal San Ar 43, Lubb	las, TX lock, TX	ody (214) 90 (216) 9 (210) (210) (210) (210) (210))2-0300 509-333	4	Work Order No:	er No:
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Project Manager: H	Hadlie Green				Bill to: (if different)	rent)								Work (Comi
	Ensolum				Company Name:	ıme:								Program: UST/PST PRP Brownfields RRC	☐ Brownfields ☐ RRC ☐ Superfund ☐
	3122 National Parks Hwy	arks H	wy		Address:									State of Project:	
e ZIP	Carlsbad, NM 88220	8220			City, State ZIP:	Ō								Reporting: Level II Level III PST/UST TRRP	PST/UST TRRP Level IV
	432-557-8895			Email:	Email: hgreen@ensolum.com	solum	com							Deliverables: EDD	ADaPT Other:
Project Name:	Pygmy 27 State 3H Produced Water	3H Proc	luced Water	Turn	Turn Around							ANAL	/SIS F	ANALYSIS REQUEST	Preservative Codes
Project Number:	03D	03D2024356	6	☑ Routine	Rush	Pres. Code	15 P								None: NO DI Water: H ₂ O
Project Location:	Lea	Lea County		Due Date:									Ī		cool: Cool MeOH: Me
Sampler's Name:	Kaoru	Kaoru Shimada	ida	TAT starts the	TAT starts the day received by	by									
PO#				the lab, if rec	the lab, if received by 4.50pm	les sit									12004: H2 NaOH: Na
Samples Received Intact:	Yes	No	Thermometer ID:	D.	Talancic	rame									VaHSO ₄ : NABIS
Cooler Custody Seals:	~	(N/A)	Correction Factor:	tor	0.0	Pa	H				t		+		Na ₂ S ₂ O ₃ : NaSO ₃
Sample Custody Seals:		NIA	Temperature Reading:	Reading:	0.6		S (3)	Л)	1)		Tes				Zn Acetate+NaOH: Zn
Total Containers:		(Corrected Temperature:	perature:	1.8		RIDE	015N	8021		ilter				NaOH+Ascorbic Acid: SAPC
Sample Identification	ication	Matrix	Date Sampled	Time Sampled	Depth Grab/	ab/ # of mp Cont	CHLOR	TPH (8	BTEX (RCI	Paint F	TCLP	voc	svoc	Sample Comments
BF01		Soil	9/18/2025	1130	NA Comp	mp 1	×	×	×						Incident ID:
						+						\perp			Cost Center:
		6				-									AFE:
Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed) 200.8 / 6020; Metal(s) to be an)20: analyz		BRCRA 13PPM	RA_13PPM_Texas_11_ALSb_As_Ba_Be_B_Cd_Ca_Cr_Co_Cu_ TCLP / SPLP 6010: 8RCRA_Sb_As_Ba_Be_Cd_Cr_Co_Cu_Pb_N	11 A 8RCR4	Sb As	As Ba	Ba Be B Cd Ca s Ba Be Cd Cr C	당 않	50 CO	PB C		Fe Pb Mg Min Mo NIK Se Ag SiO₂ Na ∕in Mo Ni Se Ag TIU Hg:1631/	g SiO ₂ Na Sr 11 Sn U V Zn Hg: 1631/245.1/7470/7471
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcon of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such	ument and relingu	ishment or the cos	of samples constit	utes a valid pur shall not assum	chase order fro	m client o	company iny losse	to Eurof	ins Xenc	o, its affi	iliates ar	nt if such	ntractor n losses	ms and cor	ns trol
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1089 N Canal St.

Eurofins Carlsbad

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Chain of Custody Record

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Environment Testing

Carlsbad, NM 88220 Phone: 575-988-3199 Fax: 575-988-3199 Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/lests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC. BF01 (890-8826-1) Sample Identification - Client ID (Lab ID) Project Name:
PYGMY 27 STATE 3H PRODUCED WATER TX, 79701 State, Zip. Shipping/Receiving Client Information Empty Kit Relinquished by: Possible Hazard Identification 132-704-5440(Tel) Viidland 1211 W. Florida Ave. Eurofins Environment Testing South Centr Deliverable Requested: I, II, III, IV, Other (specify) relinquished by: Custody Seals Intact: uished by: Encia Juacc Yes A No (Sub Contract Lab) Custody Seal No. Sampler N/A Phone: NA NA PO NA Date/Time Primary Deliverable Rank: 2 89000145 TAT Requested (days): Due Date Requested: 9/24/2025 Sample Date roject # 9/18/25 Date: Mountain 11:30 10:30 NA (C=comp, G=grab) BT=Tissue, A=A Sample Preservation Code: Type G Company Company Matrix Solid Lab PM Kramer, Jessica E-Mail Jessica.Kramer@et.eurofinsus.com Fleid Filtered Sample (Yes or No) Time Accreditations Required (See note)
NELAP - Texas Special Instructions/QC Requirements Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Perform MS/MSD (Yes or No) Received by: 300_ORGFM_28D/DI_LEACHChloride Cooler Temper hure(s) °C and Other Remarks × Return To Client × 8015MOD_Calc 8021B/5035FP_Catc(MOD) BTEX × × 8015MOD_NM/8015NM_S_Prep(MOD) Full TPH **Analysis Requested** Total_BTEX_GCV × Disposal By Lab N/A New Mexico State of Origin Method of Shipment Tracking No(s) Date/Time Archive For **Total Number of containers** COC No 890-5897.1 Preservation Codes: Page 1 of 1 890-8826-1 age Special Instructions/Note: Company Ver: 10/10/2024 Months

1089 N Canal St. Carlsbad, NM 88220 Phone: 575-988-3199 Fax: 575-988-3199	0	Chain of Custody Record	f Cust	ody R	есо	<u>a</u>					W.7236		eviib.					63	🔅 eurofins	Environment Testing
Client Information (Sub Contract Lab)	Sampler N/A			Lab PM Krame	Lab PM: Kramer, Jessica	sica					7.0	Carrier Tracking No(s)	rackin	g No(۳			200	COC No 890-5897 1	
	Phone: N/A			E-Mail: Jessi	E-Mail: Jessica Kramer@et eurofinsus.cor	ner@e	et euro	ofinsu	s.con	3	7 (0)	State of Origin	Origin					Page	Page Page 1 of 1	
Company Eurofins Environment Testing South Centr					Accreditations Required (See note) NELAP - Texas	tions R	equired	(See I	note)		-							# doc	Job # 890-8826-1	
Address: 1211 W. Florida Ave,	Due Date Requested: 9/24/2025	ď							Analy	sis	Requested	este	<u> </u>					Pre	Preservation Codes:	\$1
City: Midland	TAT Requested (days):	ays): N/A				_	\dashv	\exists	\Box		_		-	\dashv	\dashv	\neg	101			
State, Zip: TX, 79701						_		грн									177			
Phone 432-704-5440(Tel)	PO#							Full 1			_			_						
Email N/A	WO#					hloride	x	(MOD												
Project Name: PYGMY 27 STATE 3H DRODI ICED WATER	Project #:					ACHC	O) BTE	_Pre						_			iners			
Site:	SSOW#				_	_LE	MOI	M_S						_			nta	?		
N/A	N/A					_		3015N	cv				_				of co	Other:	er:	
Sample Identification - Client ID (Lab ID)	Sample Date	Sample (Sample Type (C=comp,	Matrix (W=water, S=solid, O=waste/oil, BT=Tssaue, A=Air)	Fleid Filtered Perform MS/M	300_ORGFM_28	8015MOD_Calc 8021B/5035FP_0	8015MOD_NM/8	Total_BTEX_GC		1						Total Number		- 1	Special Instructions/Note:
	V	\triangle	00					200				-				Ed	X			
BF01 (890-8826-1)	9/18/25	11:30 Mountain	G	Solid		×	×	×	×				-	\neg	-		_			
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Note: Since laboratory accreditations are subject to change. Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the	nment Testing South Centra	al. LLC places th	e ownership of	f method, anal	yte & acc	reditatio	n comp	liance	upon c	ur sub	contrac	t labor	atories	Na I	samp	le shij	oment	is for	warded under chai	n-of-custody. If the
Possible Hazard Identification					San	Sample Disposal (A fee	ispos	al (A	fee	nay t	_as	esse	difs	amp	les a] re	tain	ed /c	may be assessed if samples are retained longer than 1 month)	onth)
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Rank: 2	ble Rank: 2			Spe	Special Instructions/QC Requirements	Il Instructions/QC	ons/C	C R	quire	nents	ents:	0 / 1	a			Aici	Archive For	For	Months
Empty Kit Relinquished by:		Date:			Time:							M	Method of Shipment.	Ship	nent.					
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Custody Seal No.: Δ Yes Δ No						Cooler Temperature(s) °C and Other Remarks) emper	Mels	°C ac) alo	Rema	18	1	0			7	0	>	
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Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8826-1

SDG Number: 03D2024356

Login Number: 8826 List Source: Eurofins Carlsbad

List Number: 1

Creator: Bruns, Shannon

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

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Login Sample Receipt Checklist

 Client: Ensolum
 Job Number: 890-8826-1

 SDG Number: 03D2024356

List Source: Eurofins Midland List Creation: 09/19/25 08:19 AM

Creator: Laing, Edmundo

Login Number: 8826

List Number: 2

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

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<6mm (1/4").



APPENDIX E

NMOCD Correspondence

Hadlie Green

From: Hadlie Green

Sent: Wednesday, August 27, 2025 12:56 PM

To: ocd.enviro@state.nm.us

Cc: Laird, Jacob; Esparza, Brittany; Dan Moir; Tabitha Guadian

Subject: COG - Extension Request - Pygmy State Com 003H (Incident Number nAPP2516140823)

To Whom It May Concern,

Pygmy State Com 003H (Incident Number nAPP2516140823)

COG Operating, LLC (COG) is requesting an extension for the current deadline of August 27, 2025, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC for the Pygmy State Com 003H (Incident Number nAPP2516140823). The release was discovered on May 29, 2025. Initial assessment, delineation, and excavation activities have been completed; however, based on the most recent analytical results, additional excavation activities are required. In order to complete remediation efforts, review the laboratory analytical results, and submit a remediation work plan or closure report, COG requests a 90-day extension of this deadline until November 25, 2025.

Depth to groundwater is estimated to be greater than 100 feet bgs. The closest continuously flowing or significant watercourse to the Site is a fresh water pond that is 4,848 feet east of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and not overlying a subsurface mine. The Site is not within a 100-year floodplain. The Site is a low karst designation area.

Thank you,



Sante Fe Main Office Phone: (505) 476-3441 General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Action 515151

QUESTIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	515151
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2516140823
Incident Name	NAPP2516140823 PYGMY STATE COM 003H @ FAPP2203851379
Incident Type	Produced Water Release
Incident Status	Reclamation Report Received
Incident Facility	[fAPP2203851379] Pygmy 27 St 3H Battery

Location of Release Source	
Please answer all the questions in this group.	
Site Name	Pygmy State Com 003H
Date Release Discovered	05/29/2025
Surface Owner	Private

Incident Details	
Please answer all the questions in this group.	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications fo	or the volumes provided should be attached to the follow-up C-141 submission.
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Flow Line - Production Produced Water Released: 4 BBL Recovered: 3 BBL Lost: 1 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 515151

QUESTIONS	(continued)
QUESTIONS!	COHUHUCU/

Operator: COG OPERATING LLC	OGRID: 229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	515151
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)
QUESTIONS	
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	More info needed to determine if this will be treated as a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Unavailable.
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	e. gas only) are to be submitted on the C-129 form.
Initial Response	
The responsible party must undertake the following actions immediately unless they could create a s	afety hazard that would result in injury.
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative o ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releate the OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required asses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 10/44/2025

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

QUESTIONS, Page 3

Action 515151

QUESTIONS (continued)

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	515151
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approva release discovery date.	l and beyond). This information must be provided to the appropriate district office no later than 90 days after the
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 500 and 1000 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release ar	nd the following surface areas:
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between 500 and 1000 (ft.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
Requesting a remediation plan approval with this submission		Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.		
Have the lateral and vertical extents of contamination been fully delineated		Yes
Was this release entirely contained within a lined containment area		No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrar		ligrams per kilograms.)
Chloride	(EPA 300.0 or SM4500 CI B)	15400
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	13700
GRO+DRO	(EPA SW-846 Method 8015M)	13718
BTEX	(EPA SW-846 Method 8021B or 8260B)	59.4
Benzene	(EPA SW-846 Method 8021B or 8260B)	1.5
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NM. which includes the anticipated timelines for beginning and completing the remediation.		
On what estimated date will the remediation commence		05/29/2025
On what date will (or did) the final sampling or liner inspection occur		09/03/2025
On what date will (or was) the remediation complete(d)		09/03/2025
What is the estimated surface area (in square feet) that will be reclaimed		850
What is the estimated volume (in cubic yards) that will be reclaimed		250
What is the estimated surface area (in square feet) that will be remediated		850
What is the estimated volume (in cubic yards) that will be remediated		250
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.		

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

Released to Imaging: 11/18/2025 10:28:51 AM

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

QUESTIONS, Page 4

Action 515151

QUESTIONS (continued)

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	515151
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Bown disting Plan (continued)		
Remediation Plan (continued)		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:		
(Select all answers below that apply.)		
Yes		
fEEM0112342028 LEA LAND LANDFILL		
Not answered.		

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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

Name: Brittany Esparza Title: Environmental Technician I hereby agree and sign off to the above statement Email: brittany.Esparza@ConocoPhillips.com Date: 10/14/2025

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

QUESTIONS, Page 5

Action 515151

QUESTIONS (continued)

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	515151
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Deferral Requests Only		
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.		
Requesting a deferral of the remediation closure due date with the approval of this submission	No	

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QUESTIONS, Page 6

Action 515151

QUESTIONS (continued)

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	515151
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	500317
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/03/2025
What was the (estimated) number of samples that were to be gathered	4
What was the sampling surface area in square feet	858

Remediation Closure Request		
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.		
Requesting a remediation closure approval with this submission	Yes	
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	No	
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes	
What was the total surface area (in square feet) remediated	850	
What was the total volume (cubic yards) remediated	250	
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes	
What was the total surface area (in square feet) reclaimed	850	
What was the total volume (in cubic yards) reclaimed	250	
Summarize any additional remediation activities not included by answers (above)	excavation of impacted soil.	

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Name: Brittany Esparza
Title: Environmental Technician
Email: brittany.Esparza@ConocoPhillips.com
Date: 10/14/2025

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS, Page 7

Action 515151

QUESTIONS	(continued)
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Operator: COG OPERATING LLC	OGRID: 229137	
600 W Illinois Ave	Action Number:	
Midland, TX 79701	515151	
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)	
QUESTIONS		
Reclamation Report		
Only answer the questions in this group if all reclamation steps have been completed.		
Requesting a reclamation approval with this submission	Yes	
What was the total reclamation surface area (in square feet) for this site	850	
What was the total volume of replacement material (in cubic yards) for this site	250	
	our feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 ver must include a top layer, which is either the background thickness of topsoil or one foot of suitable material	
Is the soil top layer complete and is it suitable material to establish vegetation	vegetation Yes	
On what (estimated) date will (or was) the reseeding commence(d)	10/02/2025	
Summarize any additional reclamation activities not included by answers (above)	NA	
	clamation requirements and any conditions or directives of the OCD. This demonstration should be in the form field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13	
I heraby certify that the information given above is true and complete to the heat of my le	nowledge and understand that nursuant to OCD rules and regulations all apparators are required	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.		

Name: Brittany Esparza

Title: Environmental Technician

Email: brittany.Esparza@ConocoPhillips.com

Date: 10/14/2025

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QUESTIONS, Page 8

Action 515151

QUESTIONS (continued)

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	515151
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Revegetation Report		
Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.		
Requesting a restoration complete approval with this submission	No	
Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.		

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CONDITIONS

Action 515151

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	515151
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your reclamation/remediation closure report for Incident #NAPP2516140823 Pygmy State Com 003H, thank you. The reclamation/remediation closure report is approved.	11/18/2025