



January 28, 2026

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
Huckelberry State Com 22N
Incident Number NAPP2533449037
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 the findings of a liner integrity inspection and soil sampling activities completed at the Huckelberry State Com 22N (Site) following the release of produced water within a secondary lined containment. Based on the liner integrity inspection activities, COG is submitting this *Closure Request*, describing the inspection results and sampling activities that have occurred and requesting closure for Incident Number NAPP2533449037.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit N, Section 22, Township 21 South, Range 33 East in Lea County, New Mexico (32.45815278° N, -103.5624667°W) and is associated with oil and gas exploration and production operations on private land owned by Merchant Livestock Company (Merchant).

On November 29, 2025, an operator identified a hole in the gun-barrel water-leg riser, resulting in the release of approximately 34 barrels (bbls) of produced water into the secondary lined containment and a small overspray area on the surface of the well pad. A vacuum truck was immediately dispatched to the Site to recover the free-standing fluids; approximately 33 bbls of produced water were recovered. COG reported the release to the New Mexico Oil Conservation Division (NMOCD) via a *Notification of Release (NOR)* on November 30, 2025, and submitted an *Initial Release C-141 Form (C-141)* on December 1, 2025. The release was assigned Incident Number NAPP2533449037.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented below and potential site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. On August 4, 2014, a soil boring permitted by the New Mexico Office of the State Engineer (NMOSE) as CP-01349, was completed approximately 0.36 miles

southwest of the Site was completed to a depth of 1,188 feet bgs and reported the depth to groundwater at 572 feet bgs. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well record is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is located approximately 5,164 feet northwest 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 underlain by stable 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 1 Closure Criteria (Closure Criteria) apply:

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

A Closure Criteria of 600 mg/kg chloride, 100 mg/kg TPH, and 50 mg/kg for BTEX was applied to private land owned by Merchant per the Surface Use and Compensation Agreement (SUA) with COG.

LINED CONTAINMENT INSPECTION ACTIVITIES

A 48-hour advanced notice of the liner inspection was submitted to the NMOCD on December 17, 2025. The lined containment was cleaned of all debris and power washed and a liner integrity inspection was conducted by Ensolum personnel on December 22, 2025. The lined containment was inspected, and it was determined that the liner was operating as designed. Upon inspection, no rips, tears, holes, or damage was observed. The liner was determined to be operating as designed. Photographic documentation of the inspection is included in Appendix B.

DELINEATION AND SOIL SAMPLING ACTIVITIES

On December 22, 2025, Ensolum personnel conducted a site assessment to evaluate the release extent based on information provided on the Form C-141 and visual observations. Four delineation soil samples (SS01 through SS04) were collected around the lined containment from a depth of 0.5 feet bgs to assess the lateral extent of the release.

Additionally, one confirmation soil sample (CS01) was collected within the overspray extent from a depth of 0.5 feet bgs to assess the vertical extent of the release. Ensolum personnel collected one 5-point composite soil sample representing no more than 200 square feet from the overspray area. The 5-point composite sample was collected by placing five equivalent aliquots of soil into a resealable plastic bag and homogenizing the sample by thoroughly mixing.

The 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 delineation soil sample locations were mapped utilizing a handheld Global Positioning

COG Operating, LLC
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System (GPS) unit and are depicted on Figure 2. The overspray area and confirmation soil sample location were mapped as above and is depicted on Figure 3. Photographic documentation was conducted during the Site visit and is included in Appendix B.

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

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for delineation soil samples SS01 through SS04, collected at 0.5 feet bgs, indicated all COC concentrations were compliant with the strictest Table I Closure Criteria, confirming the lateral extent of the release and demonstrating that the release did not breach the steel walls of the lined containment. Confirmation soil sample CS01, collected at 0.5 feet bgs within the overspray area, indicated all COC concentrations were compliant with the strictest Table I Closure Criteria. No impacted soil was identified in the overspray release extent. Laboratory analytical results are summarized in Table 1, and the laboratory analytical reports are included in Appendix C.

CLOSURE REQUEST

Site assessment and sampling activities were conducted at the Site to address the release of produced water on November 29, 2025. Laboratory analytical results for the delineation and confirmation soil samples indicated all COC concentrations were compliant with the strictest Table I Closure Criteria. Based on the soil sample analytical results, no further remediation was required.

Depth to groundwater has been estimated to be greater than 100 feet bgs and no other sensitive receptors were identified near the release extent. COG believes these remedial actions are protective of human health, the environment, and groundwater. As such, COG respectfully requests closure for Incident Number NAPP2533449037.

If you have any questions or comments, please contact Ms. Kalei Jennings at (817) 683-2503 or kjennings@ensolum.com.

Sincerely,
Ensolum, LLC

Kara Naegeli
Staff Geologist

Kalei Jennings
Senior Managing Scientist

cc: Jacob Laird, ConocoPhillips
Merchant Livestock Company

COG Operating, LLC
Closure Request
Huckelberry State Com 22N

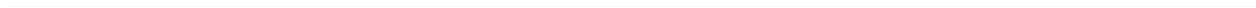


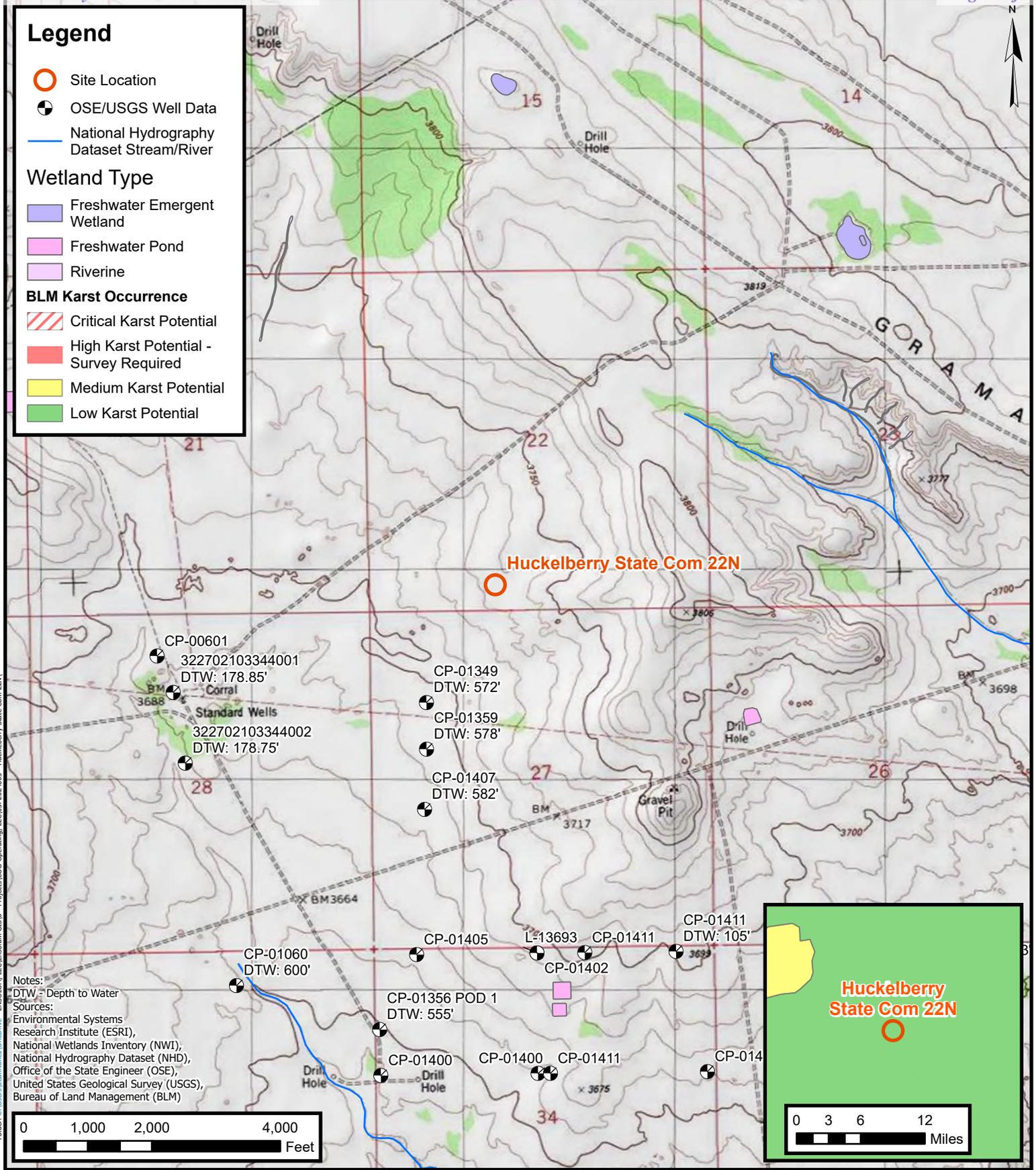
Appendices:

- Figure 1 Site Location Map
- Figure 2 Delineation Soil Sample Locations
- Figure 3 Confirmation Soil Sample Location
- Table 1 Soil Sample Analytical Results
- Appendix A Referenced Well Records
- Appendix B Photographic Log
- Appendix C Laboratory Analytical Reports & Chain-of-Custody Documentation



FIGURES





Site Receptor Map
 COG Operating, LLC
 Huckelberry State Com 22N
 Incident Number: nAPP2533449037
 Unit N, Sec 22, T21S, R33E
 Lea County, New Mexico

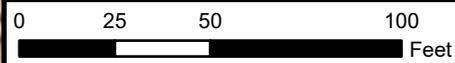
FIGURE
1

Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Lined Containment
- Release Extent
- Overspray Extent



Notes:
Sample ID @ Depth Below Ground Surface.



Sources: Environmental Systems Research Institute (ESRI)



Delineation Soil Sample Locations

COG Operating, LLC
 Huckelberry State Com 22N
 Incident Number: nAPP2533449037
 Unit N, Sec 22, T21S, R33E
 Lea County, New Mexico

FIGURE

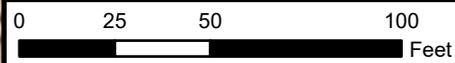
2

Legend

- Confirmation Floor Soil Sample in Compliance with Closure Criteria
- Lined Containment
- Release Extent
- Overspray Extent



Notes:
Sample ID @ Depth Below Ground Surface.



Sources: Environmental Systems Research Institute (ESRI)



Confirmation Soil Sample Locations

COG Operating, LLC
 Huckelberry State Com 22N
 Incident Number: nAPP2533449037
 Unit N, Sec 22, T21S, R33E
 Lea County, New Mexico

FIGURE
3



TABLES



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Huckelberry State Com 22N 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 (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Delineation Soil Samples										
SS01	12/22/2025	0.5	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	159
SS02	12/22/2025	0.5	<0.00202	<0.00404	<49.9	<49.9	18.2	<49.9	18.2	6.06
SS03	12/22/2025	0.5	<0.00198	0.00355	<50.0	<50.0	28.1	<50.0	28.1	5.14
SS04	12/22/2025	0.5	<0.00199	<0.00398	<49.8	<49.8	21.7	<49.8	21.7	11.8
Confirmation Soil Samples										
CS01	12/22/2025	0.5	0.00437	0.00437	<49.9	14.6	<49.9	14.6	14.6	165

Notes:

- bgs: below ground surface
- mg/kg: milligrams per kilogram
- NMOCD: New Mexico Oil Conservation Division
- NMAC: New Mexico Administrative Code
- BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes
- GRO: Gasoline Range Organics
- DRO: Diesel Range Organics
- ORO: Oil Range Organics
- TPH: Total Petroleum Hydrocarbon

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



APPENDIX A

Referenced Well Record



WELL RECORD & LOG
OFFICE OF THE STATE ENGINEER
www.ose.state.nm.us

STATE ENGINEER OFFICE
 2014 SEP 10 PM 2:15

1. GENERAL AND WELL LOCATION	OSE POD NUMBER (WELL NUMBER) CP-1349 (Tyler #1) *** REVISED 09/09/14 ***			OSE FILE NUMBER(S)				
	WELL OWNER NAME(S) Merchants/Glenn's Water Well Service, Inc.			PHONE (OPTIONAL) 575-398-2424				
	WELL OWNER MAILING ADDRESS P. O. Box 692			CITY Tatum	STATE NM	ZIP 88267		
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 27	SECONDS 11.3	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
	LONGITUDE 103	33	57.7	W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NE1/4SW1/4NW1/4 Section 27, Township 21 South, Range 33 East on Merchants Livestock Land								
2. DRILLING & CASING INFORMATION	LICENSE NUMBER WD 421	NAME OF LICENSED DRILLER Corky Glenn			NAME OF WELL DRILLING COMPANY Glenn's Water Well Service, Inc.			
	DRILLING STARTED 07/12/14	DRILLING ENDED 07/18/14	DEPTH OF COMPLETED WELL (FT) 1,188'	BORE HOLE DEPTH (FT) 1,188'	DEPTH WATER FIRST ENCOUNTERED (FT) 990'			
	COMPLETED WELL IS: <input checked="" type="radio"/> ARTESIAN <input type="radio"/> DRY HOLE <input type="radio"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) 572'			
	DRILLING FLUID: <input checked="" type="radio"/> AIR <input checked="" type="radio"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input checked="" type="radio"/> ROTARY <input type="radio"/> HAMMER <input type="radio"/> CABLE TOOL <input type="radio"/> OTHER - SPECIFY:							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0'	40'	20"	16"	None	15 1/2"	.250	
	0'	754'	14 3/4"	9 5/8"	Thread & Collar	8.921"	36 lbs.	none
	721'	1,188'	8 3/4"	7" (467' Total)	Thread & Collar	6.366"	23 lbs.	1/8"
			259.93' perforated					
			on bottom of liner					
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						
	0'	40'	20"	Cemented	2 yds.	Top Pour		
	0	754'	14 3/4"	Float and shoe cemented to surface	777	Circulated		

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/08/2012)

FILE NUMBER	CP-1349	POD NUMBER	1	TRN NUMBER	548679
LOCATION	Exp1	21S. 33E. 27. 132			PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
	FROM	TO				
	0	4'	4'	Sand	<input type="radio"/> Y <input checked="" type="radio"/> N	
	4'	19'	15'	Caliche	<input type="radio"/> Y <input checked="" type="radio"/> N	
	19'	35'	16'	Sand & Clay	<input type="radio"/> Y <input checked="" type="radio"/> N	
	35'	122'	87'	Red Clay	<input type="radio"/> Y <input checked="" type="radio"/> N	
	122'	145'	23'	Sandy Red Clay	<input type="radio"/> Y <input checked="" type="radio"/> N	
	145'	417'	272'	Red & Brown Clay	<input type="radio"/> Y <input checked="" type="radio"/> N	
	417'	720'	303'	Brown & Red Shale (some clay)	<input type="radio"/> Y <input checked="" type="radio"/> N	
	720'	742'	22'	Red, Brown & Blue Clay	<input type="radio"/> Y <input checked="" type="radio"/> N	
	742'	753'	11'	Brown Shale & Brown Sandrock	<input type="radio"/> Y <input checked="" type="radio"/> N	
	753'	805'	52'	Red & Blue Clay	<input type="radio"/> Y <input checked="" type="radio"/> N	
	805'	837'	32'	Brown & Red Shale (some sandrock)	<input type="radio"/> Y <input checked="" type="radio"/> N	
	837'	885'	48'	Brown Sandrock & Shale	<input type="radio"/> Y <input checked="" type="radio"/> N	
	885'	990'	105'	Red & Brown Shale (some sandrock)	<input type="radio"/> Y <input checked="" type="radio"/> N	
	990'	1188'	198'	Watersand (Brown Sandrock)	<input checked="" type="radio"/> Y <input type="radio"/> N	
					<input type="radio"/> Y <input type="radio"/> N	
					<input type="radio"/> Y <input type="radio"/> N	
					<input type="radio"/> Y <input type="radio"/> N	
					<input type="radio"/> Y <input type="radio"/> N	
					<input type="radio"/> Y <input type="radio"/> N	
					<input type="radio"/> Y <input type="radio"/> N	
					<input type="radio"/> Y <input type="radio"/> N	
					<input type="radio"/> Y <input type="radio"/> N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input checked="" type="radio"/> PUMP					TOTAL ESTIMATED WELL YIELD (gpm):	
<input type="radio"/> AIR LIFT <input type="radio"/> BAILER <input type="radio"/> OTHER - SPECIFY:						

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	MISCELLANEOUS INFORMATION: 0' to 754' drilled with mud. 754' to 1,188' drilled with air and foam.	
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:	

6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:	
	 SIGNATURE OF DRILLER / PRINT SIGNEE NAME	Cory Glenn DATE

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 06/08/2012)	
FILE NUMBER	CP-1349	POD NUMBER	1
LOCATION	215.33E.27.132	TRN NUMBER	548079
			PAGE 2 OF 2



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

STATE ENGINEER OFFICE
POSBELL, NEW MEXICO
2014 AUG -4 AM 10:48

I. GENERAL AND WELL LOCATION	OSE POD NUMBER (WELL NUMBER) CP - 1349 (Tyler #1)				OSE FILE NUMBER(S)					
	WELL OWNER NAME(S) Merchants Livestock/Glenn's Water Well Servcie, Inc.				PHONE (OPTIONAL) (575)398-2424					
	WELL OWNER MAILING ADDRESS P.O. Box 692				CITY Tatum		STATE NM		ZIP 88267	
	WELL LOCATION (FROM GPS)	DEGREES		MINUTES		SECONDS		* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84		
		LATITUDE	32	27	11.3	N				
	LONGITUDE	103	33	37.7	W					
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NE/SW/NW Sec. 27, T21S, R33E on Merchants Livestock Land										

2. DRILLING & CASING INFORMATION	LICENSE NUMBER WD 421		NAME OF LICENSED DRILLER Corky Glenn			NAME OF WELL DRILLING COMPANY Glenn's Water Well Service, Inc.						
	DRILLING STARTED 7/12/14		DRILLING ENDED 7/18/14		DEPTH OF COMPLETED WELL (FT) 1188'		BORE HOLE DEPTH (FT) 1188'		DEPTH WATER FIRST ENCOUNTERED (FT) 990'			
	COMPLETED WELL IS: <input checked="" type="radio"/> ARTESIAN <input type="radio"/> DRY HOLE <input type="radio"/> SHALLOW (UNCONFINED)								STATIC WATER LEVEL IN COMPLETED WELL (FT)			
	DRILLING FLUID: <input checked="" type="radio"/> AIR <input type="radio"/> MUD ADDITIVES - SPECIFY:											
	DRILLING METHOD: <input checked="" type="radio"/> ROTARY <input type="radio"/> HAMMER <input type="radio"/> CABLE TOOL <input type="radio"/> OTHER - SPECIFY:											
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)		CASING CONNECTION TYPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)			
	FROM	TO										
	0'	40'	20"	16"		none	15 1/2'	.250				
	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"			

3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL		AMOUNT (cubic feet)	METHOD OF PLACEMENT	
	FROM	TO						
	0'	40'	20"	Cemented		2 yds.	Top Pour	
0'	754'	14 3/4"	Float and shoe cemented to surface		740	Circulated		

FOR OSE INTERNAL USE				WR-20 WELL RECORD & LOG (Version 06/08/2012)			
FILE NUMBER		CP-1349		POD NUMBER		1	
LOCATION		21S.33E.27.231		TRN NUMBER		548679	
							PAGE 1 OF 2

DEPTH (feet bgl)	THICKNESS (feet)		COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
	FROM	TO			
0'	4'	4'	Sand	<input type="radio"/> Y <input checked="" type="radio"/> N	
4'	19'	15'	Caleche	<input type="radio"/> Y <input checked="" type="radio"/> N	
19'	35'	16'	Sand & Clay	<input type="radio"/> Y <input checked="" type="radio"/> N	
35'	122'	87'	Red Sand	<input type="radio"/> Y <input checked="" type="radio"/> N	
122'	145'	23'	Sandy Red Clay	<input type="radio"/> Y <input checked="" type="radio"/> N	
145'	417'	272'	Red & Brown Clay	<input type="radio"/> Y <input checked="" type="radio"/> N	
417'	720'	303'	Brown & Red Shale (some clay)	<input type="radio"/> Y <input checked="" type="radio"/> N	
720'	742'	22'	Red, Brown & Blue Clay	<input type="radio"/> Y <input checked="" type="radio"/> N	
742'	753'	11'	Brown Shale & Brown Sandrock	<input type="radio"/> Y <input checked="" type="radio"/> N	
753'	805'	52'	Red & Blue Clay	<input type="radio"/> Y <input checked="" type="radio"/> N	
805'	837'	32'	Brown & Red Shale (some sandrock)	<input type="radio"/> Y <input checked="" type="radio"/> N	
837'	885'	48'	Brown Sandrock & Shale	<input type="radio"/> Y <input checked="" type="radio"/> N	
855'	990'	105'	Red & Brown Shale (some sandrock)	<input type="radio"/> Y <input checked="" type="radio"/> N	
990'	1188'	198'	Watersand(Brown sandrock)	<input checked="" type="radio"/> Y <input type="radio"/> N	
				<input type="radio"/> Y <input type="radio"/> N	
				<input type="radio"/> Y <input type="radio"/> N	
				<input type="radio"/> Y <input type="radio"/> N	
				<input type="radio"/> Y <input type="radio"/> N	
				<input type="radio"/> Y <input type="radio"/> N	
				<input type="radio"/> Y <input type="radio"/> N	
				<input type="radio"/> Y <input type="radio"/> N	
				<input type="radio"/> Y <input type="radio"/> N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input checked="" type="radio"/> PUMP				TOTAL ESTIMATED WELL YIELD (gpm): 50	
<input type="radio"/> AIR LIFT <input type="radio"/> BAILER <input type="radio"/> OTHER - SPECIFY:					

4. HYDROGEOLOGIC LOG OF WELL	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	MISCELLANEOUS INFORMATION: 0' to 754' drilled with mud. 754' to 1188' drilled with air and foam.	
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:		

5. TEST, RIG SUPERVISION	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:	
	SIGNATURE OF DRILLER / PRINT SIGNED NAME	DATE
6. SIGNATURE	<i>Conky Glenn</i>	8/1/14

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 06/08/2012)		
FILE NUMBER	CP-1349	POD NUMBER	1	
LOCATION	215. 33E. 27. 231		TRN NUMBER	548479
			PAGE 2 OF 2	

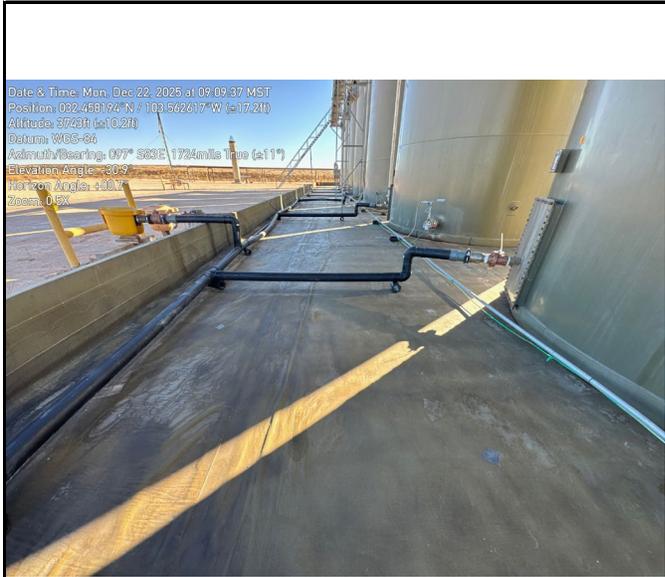
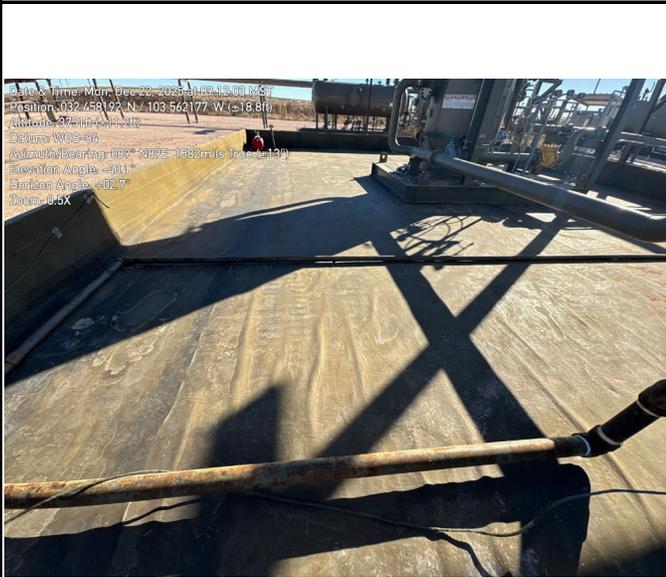


APPENDIX B

Photographic Log

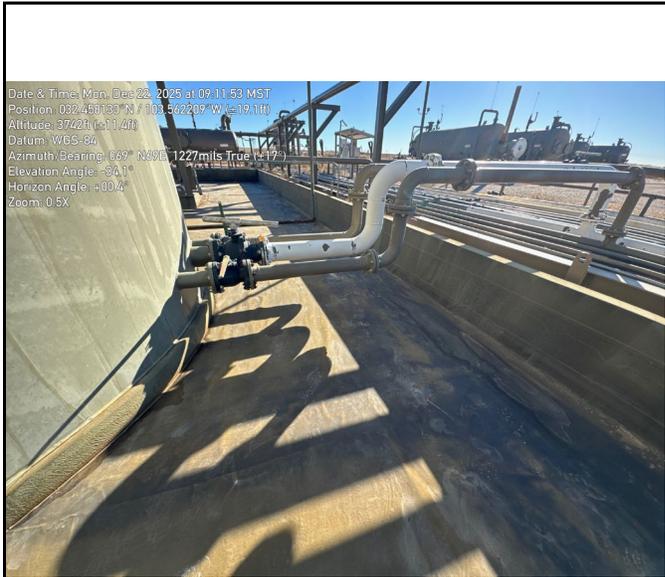
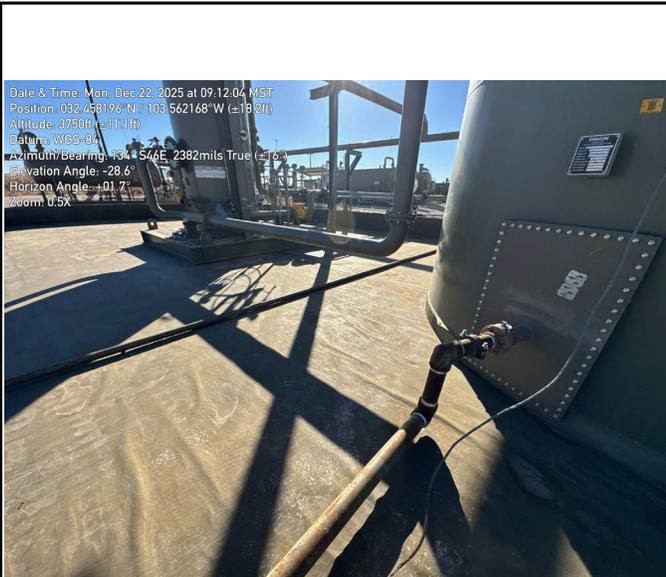


Photographic Log
COG Operating, LLC
Huckelberry State Com 22N
Incident Number: nAPP2533449037



Photograph: 1 Date:12/22/2025
Description: Liner Inspection
View: Northeast

Photograph: 2 Date:12/22/2025
Description: Liner Inspection
View: Southeast



Photograph: 3 Date:12/22/2025
Description: Liner Inspection
View: Southeast

Photograph: 4 Date:12/22/2025
Description: Liner Inspection
View: Northeast



Photographic Log
COG Operating, LLC
Huckelberry State Com 22N
Incident Number: nAPP2533449037



Photograph: 5 Date:12/22/2025
Description: Liner Inspection
View: Southeast

Photograph: 6 Date:12/22/2025
Description: Liner Inspection
View: Northeast



Photograph: 7 Date:12/22/2025
Description: Delineation Sampling, located at CS01
View: Northwest

Photograph: 8 Date:12/22/2025
Description: Delineation Sampling
View: Southeast



APPENDIX C

Laboratory Analytical Reports & Chain-of-Custody Documentation



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Kalei Jennings
Ensolum

601 N. Marienfeld St.
Suite 400

Midland, Texas 79701

Generated 12/31/2025 1:08:28 PM

JOB DESCRIPTION

Huckleberry State 22N

JOB NUMBER

880-66458-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.



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



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12/31/2025 1:08:28 PM

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

Client: Ensolum
Project/Site: Huckleberry State 22N

Laboratory Job ID: 880-66458-1

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Definitions/Glossary

Client: Ensolum

Job ID: 880-66458-1

Project/Site: Huckleberry State 22N

Qualifiers

GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
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

Case Narrative

Client: Ensolum
Project: Huckleberry State 22N

Job ID: 880-66458-1

Job ID: 880-66458-1

Eurofins Midland

Job Narrative 880-66458-1

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 12/22/2025 5:39 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 0.2°C.

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-127802 and analytical batch 880-127891 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: The surrogate recovery for the blank associated with preparation batch 880-127802 and analytical batch 880-127891 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: SS03 (880-66458-3), SS04 (880-66458-4) and CS01 (880-66458-5). 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.

Hydrocarbons

Method TX_1005: The method blank for preparation batch 880-127589 and analytical batch 880-127929 contained >C28-C35 Range Hydrocarbons above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method TX_1005: Surrogate recovery for the following samples were outside control limits: (LCS 880-127589/2-A), (LCSD 880-127589/3-A) and (880-66450-A-2-A). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

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Client Sample Results

Client: Ensolum
 Project/Site: Huckleberry State 22N

Job ID: 880-66458-1

Client Sample ID: SS01

Lab Sample ID: 880-66458-1

Date Collected: 12/22/25 09:24

Matrix: Solid

Date Received: 12/22/25 17:39

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.00140	mg/Kg		12/29/25 08:39	12/30/25 17:43	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		12/29/25 08:39	12/30/25 17:43	1
Ethylbenzene	0.00112	J	0.00201	0.00109	mg/Kg		12/29/25 08:39	12/30/25 17:43	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00229	mg/Kg		12/29/25 08:39	12/30/25 17:43	1
o-Xylene	<0.00201	U	0.00201	0.00159	mg/Kg		12/29/25 08:39	12/30/25 17:43	1
Xylenes, Total	<0.00402	U	0.00402	0.00229	mg/Kg		12/29/25 08:39	12/30/25 17:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130				12/29/25 08:39	12/30/25 17:43	1
1,4-Difluorobenzene (Surr)	107		70 - 130				12/29/25 08:39	12/30/25 17:43	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	0.00229	mg/Kg			12/30/25 17:43	1

Method: TCEQ TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12 Range Hydrocarbons	<49.9	U	49.9	17.3	mg/Kg		12/23/25 11:46	12/31/25 03:56	1
>C12-C28 Range Hydrocarbons	<49.9	U	49.9	14.2	mg/Kg		12/23/25 11:46	12/31/25 03:56	1
>C28-C35 Range Hydrocarbons	<49.9	U	49.9	14.2	mg/Kg		12/23/25 11:46	12/31/25 03:56	1
Total Petroleum Hydrocarbons (C6-C35)	<49.9	U	49.9	17.3	mg/Kg			12/31/25 03:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	120		70 - 130				12/23/25 11:46	12/31/25 03:56	1
o-Terphenyl (Surr)	130		70 - 130				12/23/25 11:46	12/31/25 03:56	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	159		10.0	0.396	mg/Kg			12/23/25 19:45	1

Client Sample ID: SS02

Lab Sample ID: 880-66458-2

Date Collected: 12/22/25 09:26

Matrix: Solid

Date Received: 12/22/25 17:39

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.00141	mg/Kg		12/29/25 08:39	12/30/25 18:03	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg		12/29/25 08:39	12/30/25 18:03	1
Ethylbenzene	<0.00202	U	0.00202	0.00110	mg/Kg		12/29/25 08:39	12/30/25 18:03	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	0.00231	mg/Kg		12/29/25 08:39	12/30/25 18:03	1
o-Xylene	<0.00202	U	0.00202	0.00160	mg/Kg		12/29/25 08:39	12/30/25 18:03	1
Xylenes, Total	<0.00404	U	0.00404	0.00231	mg/Kg		12/29/25 08:39	12/30/25 18:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130				12/29/25 08:39	12/30/25 18:03	1
1,4-Difluorobenzene (Surr)	98		70 - 130				12/29/25 08:39	12/30/25 18:03	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	0.00231	mg/Kg			12/30/25 18:03	1

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Client Sample Results

Client: Ensolium
Project/Site: Huckleberry State 22N

Job ID: 880-66458-1

Client Sample ID: SS02

Lab Sample ID: 880-66458-2

Date Collected: 12/22/25 09:26

Matrix: Solid

Date Received: 12/22/25 17:39

Method: TCEQ TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12 Range Hydrocarbons	<49.9	U	49.9	17.3	mg/Kg		12/23/25 11:46	12/31/25 04:10	1
>C12-C28 Range Hydrocarbons	<49.9	U	49.9	14.2	mg/Kg		12/23/25 11:46	12/31/25 04:10	1
>C28-C35 Range Hydrocarbons	18.2	J B	49.9	14.2	mg/Kg		12/23/25 11:46	12/31/25 04:10	1
Total Petroleum Hydrocarbons (C6-C35)	18.2	J	49.9	17.3	mg/Kg			12/31/25 04:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	101		70 - 130	12/23/25 11:46	12/31/25 04:10	1
o-Terphenyl (Surr)	111		70 - 130	12/23/25 11:46	12/31/25 04:10	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.06	J	10.1	0.397	mg/Kg			12/23/25 19:50	1

Client Sample ID: SS03

Lab Sample ID: 880-66458-3

Date Collected: 12/22/25 09:28

Matrix: Solid

Date Received: 12/22/25 17:39

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	0.00138	mg/Kg		12/29/25 08:39	12/30/25 18:24	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		12/29/25 08:39	12/30/25 18:24	1
Ethylbenzene	0.00156	J	0.00198	0.00108	mg/Kg		12/29/25 08:39	12/30/25 18:24	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	0.00226	mg/Kg		12/29/25 08:39	12/30/25 18:24	1
o-Xylene	0.00199		0.00198	0.00157	mg/Kg		12/29/25 08:39	12/30/25 18:24	1
Xylenes, Total	<0.00396	U	0.00396	0.00226	mg/Kg		12/29/25 08:39	12/30/25 18:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130	12/29/25 08:39	12/30/25 18:24	1
1,4-Difluorobenzene (Surr)	121		70 - 130	12/29/25 08:39	12/30/25 18:24	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00355	J	0.00396	0.00226	mg/Kg			12/30/25 18:24	1

Method: TCEQ TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12 Range Hydrocarbons	<50.0	U	50.0	17.3	mg/Kg		12/23/25 11:46	12/31/25 04:24	1
>C12-C28 Range Hydrocarbons	<50.0	U	50.0	14.2	mg/Kg		12/23/25 11:46	12/31/25 04:24	1
>C28-C35 Range Hydrocarbons	28.1	J B	50.0	14.2	mg/Kg		12/23/25 11:46	12/31/25 04:24	1
Total Petroleum Hydrocarbons (C6-C35)	28.1	J	50.0	17.3	mg/Kg			12/31/25 04:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	102		70 - 130	12/23/25 11:46	12/31/25 04:24	1
o-Terphenyl (Surr)	116		70 - 130	12/23/25 11:46	12/31/25 04:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.14	J	9.98	0.394	mg/Kg			12/23/25 20:05	1

Eurofins Midland

Client Sample Results

Client: Ensolum
 Project/Site: Huckleberry State 22N

Job ID: 880-66458-1

Client Sample ID: SS04

Lab Sample ID: 880-66458-4

Date Collected: 12/22/25 09:30

Matrix: Solid

Date Received: 12/22/25 17:39

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.00138	mg/Kg		12/29/25 08:39	12/30/25 18:44	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		12/29/25 08:39	12/30/25 18:44	1
Ethylbenzene	<0.00199	U	0.00199	0.00108	mg/Kg		12/29/25 08:39	12/30/25 18:44	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00227	mg/Kg		12/29/25 08:39	12/30/25 18:44	1
o-Xylene	<0.00199	U	0.00199	0.00157	mg/Kg		12/29/25 08:39	12/30/25 18:44	1
Xylenes, Total	<0.00398	U	0.00398	0.00227	mg/Kg		12/29/25 08:39	12/30/25 18:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	351	S1+	70 - 130				12/29/25 08:39	12/30/25 18:44	1
1,4-Difluorobenzene (Surr)	85		70 - 130				12/29/25 08:39	12/30/25 18:44	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	0.00227	mg/Kg			12/30/25 18:44	1

Method: TCEQ TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12 Range Hydrocarbons	<49.8	U	49.8	17.3	mg/Kg		12/23/25 11:46	12/31/25 04:38	1
>C12-C28 Range Hydrocarbons	<49.8	U	49.8	14.2	mg/Kg		12/23/25 11:46	12/31/25 04:38	1
>C28-C35 Range Hydrocarbons	21.7	J B	49.8	14.2	mg/Kg		12/23/25 11:46	12/31/25 04:38	1
Total Petroleum Hydrocarbons (C6-C35)	21.7	J	49.8	17.3	mg/Kg			12/31/25 04:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	101		70 - 130				12/23/25 11:46	12/31/25 04:38	1
o-Terphenyl (Surr)	113		70 - 130				12/23/25 11:46	12/31/25 04:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.8		9.98	0.394	mg/Kg			12/23/25 20:10	1

Client Sample ID: CS01

Lab Sample ID: 880-66458-5

Date Collected: 12/22/25 09:32

Matrix: Solid

Date Received: 12/22/25 17:39

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00437		0.00200	0.00139	mg/Kg		12/29/25 08:39	12/30/25 19:05	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		12/29/25 08:39	12/30/25 19:05	1
Ethylbenzene	<0.00200	U	0.00200	0.00109	mg/Kg		12/29/25 08:39	12/30/25 19:05	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00228	mg/Kg		12/29/25 08:39	12/30/25 19:05	1
o-Xylene	<0.00200	U	0.00200	0.00158	mg/Kg		12/29/25 08:39	12/30/25 19:05	1
Xylenes, Total	<0.00399	U	0.00399	0.00228	mg/Kg		12/29/25 08:39	12/30/25 19:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	320	S1+	70 - 130				12/29/25 08:39	12/30/25 19:05	1
1,4-Difluorobenzene (Surr)	83		70 - 130				12/29/25 08:39	12/30/25 19:05	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00437		0.00399	0.00228	mg/Kg			12/30/25 19:05	1

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Client Sample Results

Client: Ensolum
 Project/Site: Huckleberry State 22N

Job ID: 880-66458-1

Client Sample ID: CS01

Lab Sample ID: 880-66458-5

Date Collected: 12/22/25 09:32

Matrix: Solid

Date Received: 12/22/25 17:39

Method: TCEQ TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12 Range Hydrocarbons	<49.9	U	49.9	17.3	mg/Kg		12/23/25 11:46	12/31/25 05:06	1
>C12-C28 Range Hydrocarbons	14.6	J	49.9	14.2	mg/Kg		12/23/25 11:46	12/31/25 05:06	1
>C28-C35 Range Hydrocarbons	<49.9	U	49.9	14.2	mg/Kg		12/23/25 11:46	12/31/25 05:06	1
Total Petroleum Hydrocarbons (C6-C35)	<49.9	U	49.9	17.3	mg/Kg			12/31/25 05:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	103		70 - 130	12/23/25 11:46	12/31/25 05:06	1
o-Terphenyl (Surr)	115		70 - 130	12/23/25 11:46	12/31/25 05:06	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	165		9.94	0.393	mg/Kg			12/23/25 20:15	1

Surrogate Summary

Client: Ensolum
Project/Site: Huckleberry State 22N

Job ID: 880-66458-1

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
880-64724-A-16-E MB	Method Blank	95	95
880-66458-1	SS01	121	107
880-66458-2	SS02	123	98
880-66458-3	SS03	135 S1+	121
880-66458-4	SS04	351 S1+	85
880-66458-5	CS01	320 S1+	83
LCS 880-127802/1-A	Lab Control Sample	96	86
LCSD 880-127802/2-A	Lab Control Sample Dup	114	97
MB 880-127802/5-A	Method Blank	139 S1+	80

Surrogate Legend

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

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO (70-130)	OTPH (70-130)
880-66458-1	SS01	120	130
880-66458-2	SS02	101	111
880-66458-3	SS03	102	116
880-66458-4	SS04	101	113
880-66458-5	CS01	103	115
LCS 880-127589/2-A	Lab Control Sample	146 S1+	140 S1+
LCSD 880-127589/3-A	Lab Control Sample Dup	151 S1+	143 S1+
MB 880-127589/1-A	Method Blank	104	109

Surrogate Legend

1CO = 1-Chlorooctane (Surr)
OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Ensolum
Project/Site: Huckleberry State 22N

Job ID: 880-66458-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: 880-64724-A-16-E MB
Matrix: Solid
Analysis Batch: 127891

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 127802

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.00139	mg/Kg		12/29/25 08:39	12/30/25 16:21	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		12/29/25 08:39	12/30/25 16:21	1
Ethylbenzene	<0.00200	U	0.00200	0.00109	mg/Kg		12/29/25 08:39	12/30/25 16:21	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00229	mg/Kg		12/29/25 08:39	12/30/25 16:21	1
o-Xylene	<0.00200	U	0.00200	0.00158	mg/Kg		12/29/25 08:39	12/30/25 16:21	1
Xylenes, Total	<0.00400	U	0.00400	0.00229	mg/Kg		12/29/25 08:39	12/30/25 16:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	12/29/25 08:39	12/30/25 16:21	1
1,4-Difluorobenzene (Surr)	95		70 - 130	12/29/25 08:39	12/30/25 16:21	1

Lab Sample ID: MB 880-127802/5-A
Matrix: Solid
Analysis Batch: 127891

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 127802

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.00139	mg/Kg		12/29/25 08:39	12/30/25 10:58	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		12/29/25 08:39	12/30/25 10:58	1
Ethylbenzene	<0.00200	U	0.00200	0.00109	mg/Kg		12/29/25 08:39	12/30/25 10:58	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00228	mg/Kg		12/29/25 08:39	12/30/25 10:58	1
o-Xylene	<0.00200	U	0.00200	0.00158	mg/Kg		12/29/25 08:39	12/30/25 10:58	1
Xylenes, Total	<0.00399	U	0.00399	0.00228	mg/Kg		12/29/25 08:39	12/30/25 10:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	139	S1+	70 - 130	12/29/25 08:39	12/30/25 10:58	1
1,4-Difluorobenzene (Surr)	80		70 - 130	12/29/25 08:39	12/30/25 10:58	1

Lab Sample ID: LCS 880-127802/1-A
Matrix: Solid
Analysis Batch: 127891

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 127802

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1059		mg/Kg		106	70 - 130
Toluene	0.100	0.1108		mg/Kg		111	70 - 130
Ethylbenzene	0.100	0.1035		mg/Kg		104	70 - 130
m-Xylene & p-Xylene	0.200	0.2563		mg/Kg		128	70 - 130
o-Xylene	0.100	0.1222		mg/Kg		122	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	86		70 - 130

Lab Sample ID: LCSD 880-127802/2-A
Matrix: Solid
Analysis Batch: 127891

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 127802

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1129		mg/Kg		113	70 - 130	6	35

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QC Sample Results

Client: Ensolum
 Project/Site: Huckleberry State 22N

Job ID: 880-66458-1

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

Lab Sample ID: LCSD 880-127802/2-A
 Matrix: Solid
 Analysis Batch: 127891

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 127802

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.1177		mg/Kg		118	70 - 130	6	35
Ethylbenzene	0.100	0.1121		mg/Kg		112	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.2304		mg/Kg		115	70 - 130	11	35
o-Xylene	0.100	0.1211		mg/Kg		121	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Lab Sample ID: MB 880-127589/1-A
 Matrix: Solid
 Analysis Batch: 127929

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 127589

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12 Range Hydrocarbons	<50.0	U	50.0	17.4	mg/Kg		12/23/25 11:46	12/31/25 01:22	1
>C12-C28 Range Hydrocarbons	<50.0	U	50.0	14.3	mg/Kg		12/23/25 11:46	12/31/25 01:22	1
>C28-C35 Range Hydrocarbons	20.33	J	50.0	14.3	mg/Kg		12/23/25 11:46	12/31/25 01:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	104		70 - 130	12/23/25 11:46	12/31/25 01:22	1
o-Terphenyl (Surr)	109		70 - 130	12/23/25 11:46	12/31/25 01:22	1

Lab Sample ID: LCS 880-127589/2-A
 Matrix: Solid
 Analysis Batch: 127929

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 127589

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C6-C12 Range Hydrocarbons	1000	1244		mg/Kg		124	75 - 125
>C12-C28 Range Hydrocarbons	1000	1127		mg/Kg		113	75 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	146	S1+	70 - 130
o-Terphenyl (Surr)	140	S1+	70 - 130

Lab Sample ID: LCSD 880-127589/3-A
 Matrix: Solid
 Analysis Batch: 127929

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 127589

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C6-C12 Range Hydrocarbons	1000	1110		mg/Kg		111	75 - 125	11	25
>C12-C28 Range Hydrocarbons	1000	1140		mg/Kg		114	75 - 125	1	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	151	S1+	70 - 130
o-Terphenyl (Surr)	143	S1+	70 - 130

QC Sample Results

Client: Ensolum
 Project/Site: Huckleberry State 22N

Job ID: 880-66458-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-127635/1-A
 Matrix: Solid
 Analysis Batch: 127643

Client Sample ID: Method Blank
 Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0	0.395	mg/Kg			12/23/25 19:01	1

Lab Sample ID: LCS 880-127635/2-A
 Matrix: Solid
 Analysis Batch: 127643

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	245.0		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-127635/3-A
 Matrix: Solid
 Analysis Batch: 127643

Client Sample ID: Lab Control Sample Dup
 Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	245.9		mg/Kg		98	90 - 110	0	20

QC Association Summary

Client: Ensolum
 Project/Site: Huckleberry State 22N

Job ID: 880-66458-1

GC VOA

Prep Batch: 127802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-66458-1	SS01	Total/NA	Solid	5035	
880-66458-2	SS02	Total/NA	Solid	5035	
880-66458-3	SS03	Total/NA	Solid	5035	
880-66458-4	SS04	Total/NA	Solid	5035	
880-66458-5	CS01	Total/NA	Solid	5035	
880-64724-A-16-E MB	Method Blank	Total/NA	Solid	5035	
MB 880-127802/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-127802/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-127802/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 127891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-66458-1	SS01	Total/NA	Solid	8021B	127802
880-66458-2	SS02	Total/NA	Solid	8021B	127802
880-66458-3	SS03	Total/NA	Solid	8021B	127802
880-66458-4	SS04	Total/NA	Solid	8021B	127802
880-66458-5	CS01	Total/NA	Solid	8021B	127802
880-64724-A-16-E MB	Method Blank	Total/NA	Solid	8021B	127802
MB 880-127802/5-A	Method Blank	Total/NA	Solid	8021B	127802
LCS 880-127802/1-A	Lab Control Sample	Total/NA	Solid	8021B	127802
LCSD 880-127802/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	127802

Analysis Batch: 128010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-66458-1	SS01	Total/NA	Solid	Total BTEX	
880-66458-2	SS02	Total/NA	Solid	Total BTEX	
880-66458-3	SS03	Total/NA	Solid	Total BTEX	
880-66458-4	SS04	Total/NA	Solid	Total BTEX	
880-66458-5	CS01	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 127589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-66458-1	SS01	Total/NA	Solid	TX_1005_S_Pre p	
880-66458-2	SS02	Total/NA	Solid	TX_1005_S_Pre p	
880-66458-3	SS03	Total/NA	Solid	TX_1005_S_Pre p	
880-66458-4	SS04	Total/NA	Solid	TX_1005_S_Pre p	
880-66458-5	CS01	Total/NA	Solid	TX_1005_S_Pre p	
MB 880-127589/1-A	Method Blank	Total/NA	Solid	TX_1005_S_Pre p	
LCS 880-127589/2-A	Lab Control Sample	Total/NA	Solid	TX_1005_S_Pre p	
LCSD 880-127589/3-A	Lab Control Sample Dup	Total/NA	Solid	TX_1005_S_Pre p	

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QC Association Summary

Client: Ensolum
Project/Site: Huckleberry State 22N

Job ID: 880-66458-1

GC Semi VOA

Analysis Batch: 127929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-66458-1	SS01	Total/NA	Solid	TX 1005	127589
880-66458-2	SS02	Total/NA	Solid	TX 1005	127589
880-66458-3	SS03	Total/NA	Solid	TX 1005	127589
880-66458-4	SS04	Total/NA	Solid	TX 1005	127589
880-66458-5	CS01	Total/NA	Solid	TX 1005	127589
MB 880-127589/1-A	Method Blank	Total/NA	Solid	TX 1005	127589
LCS 880-127589/2-A	Lab Control Sample	Total/NA	Solid	TX 1005	127589
LCSD 880-127589/3-A	Lab Control Sample Dup	Total/NA	Solid	TX 1005	127589

Analysis Batch: 127982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-66458-1	SS01	Total/NA	Solid	TX 1005	
880-66458-2	SS02	Total/NA	Solid	TX 1005	
880-66458-3	SS03	Total/NA	Solid	TX 1005	
880-66458-4	SS04	Total/NA	Solid	TX 1005	
880-66458-5	CS01	Total/NA	Solid	TX 1005	

HPLC/IC

Leach Batch: 127635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-66458-1	SS01	Soluble	Solid	DI Leach	
880-66458-2	SS02	Soluble	Solid	DI Leach	
880-66458-3	SS03	Soluble	Solid	DI Leach	
880-66458-4	SS04	Soluble	Solid	DI Leach	
880-66458-5	CS01	Soluble	Solid	DI Leach	
MB 880-127635/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-127635/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-127635/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 127643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-66458-1	SS01	Soluble	Solid	300.0	127635
880-66458-2	SS02	Soluble	Solid	300.0	127635
880-66458-3	SS03	Soluble	Solid	300.0	127635
880-66458-4	SS04	Soluble	Solid	300.0	127635
880-66458-5	CS01	Soluble	Solid	300.0	127635
MB 880-127635/1-A	Method Blank	Soluble	Solid	300.0	127635
LCS 880-127635/2-A	Lab Control Sample	Soluble	Solid	300.0	127635
LCSD 880-127635/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	127635

Eurofins Midland

Lab Chronicle

Client: Ensolum
 Project/Site: Huckleberry State 22N

Job ID: 880-66458-1

Client Sample ID: SS01

Lab Sample ID: 880-66458-1

Date Collected: 12/22/25 09:24

Matrix: Solid

Date Received: 12/22/25 17:39

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			127802	AA	EET MID	12/29/25 08:39
Total/NA	Analysis	8021B		1	127891	MNR	EET MID	12/30/25 17:43
Total/NA	Analysis	Total BTEX		1	128010	SA	EET MID	12/30/25 17:43
Total/NA	Prep	TX_1005_S_Prep			127589	EL	EET MID	12/23/25 11:46
Total/NA	Analysis	TX 1005		1	127929	SA	EET MID	12/31/25 03:56
Total/NA	Analysis	TX 1005		1	127982	SA	EET MID	12/31/25 03:56
Soluble	Leach	DI Leach			127635	SMC	EET MID	12/23/25 15:07
Soluble	Analysis	300.0		1	127643	CS	EET MID	12/23/25 19:45

Client Sample ID: SS02

Lab Sample ID: 880-66458-2

Date Collected: 12/22/25 09:26

Matrix: Solid

Date Received: 12/22/25 17:39

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			127802	AA	EET MID	12/29/25 08:39
Total/NA	Analysis	8021B		1	127891	MNR	EET MID	12/30/25 18:03
Total/NA	Analysis	Total BTEX		1	128010	SA	EET MID	12/30/25 18:03
Total/NA	Prep	TX_1005_S_Prep			127589	EL	EET MID	12/23/25 11:46
Total/NA	Analysis	TX 1005		1	127929	SA	EET MID	12/31/25 04:10
Total/NA	Analysis	TX 1005		1	127982	SA	EET MID	12/31/25 04:10
Soluble	Leach	DI Leach			127635	SMC	EET MID	12/23/25 15:07
Soluble	Analysis	300.0		1	127643	CS	EET MID	12/23/25 19:50

Client Sample ID: SS03

Lab Sample ID: 880-66458-3

Date Collected: 12/22/25 09:28

Matrix: Solid

Date Received: 12/22/25 17:39

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			127802	AA	EET MID	12/29/25 08:39
Total/NA	Analysis	8021B		1	127891	MNR	EET MID	12/30/25 18:24
Total/NA	Analysis	Total BTEX		1	128010	SA	EET MID	12/30/25 18:24
Total/NA	Prep	TX_1005_S_Prep			127589	EL	EET MID	12/23/25 11:46
Total/NA	Analysis	TX 1005		1	127929	SA	EET MID	12/31/25 04:24
Total/NA	Analysis	TX 1005		1	127982	SA	EET MID	12/31/25 04:24
Soluble	Leach	DI Leach			127635	SMC	EET MID	12/23/25 15:07
Soluble	Analysis	300.0		1	127643	CS	EET MID	12/23/25 20:05

Client Sample ID: SS04

Lab Sample ID: 880-66458-4

Date Collected: 12/22/25 09:30

Matrix: Solid

Date Received: 12/22/25 17:39

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			127802	AA	EET MID	12/29/25 08:39
Total/NA	Analysis	8021B		1	127891	MNR	EET MID	12/30/25 18:44
Total/NA	Analysis	Total BTEX		1	128010	SA	EET MID	12/30/25 18:44

Eurofins Midland

Lab Chronicle

Client: Ensolum
 Project/Site: Huckleberry State 22N

Job ID: 880-66458-1

Client Sample ID: SS04

Lab Sample ID: 880-66458-4

Date Collected: 12/22/25 09:30

Matrix: Solid

Date Received: 12/22/25 17:39

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	TX_1005_S_Prep			127589	EL	EET MID	12/23/25 11:46
Total/NA	Analysis	TX 1005		1	127929	SA	EET MID	12/31/25 04:38
Total/NA	Analysis	TX 1005		1	127982	SA	EET MID	12/31/25 04:38
Soluble	Leach	DI Leach			127635	SMC	EET MID	12/23/25 15:07
Soluble	Analysis	300.0		1	127643	CS	EET MID	12/23/25 20:10

Client Sample ID: CS01

Lab Sample ID: 880-66458-5

Date Collected: 12/22/25 09:32

Matrix: Solid

Date Received: 12/22/25 17:39

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			127802	AA	EET MID	12/29/25 08:39
Total/NA	Analysis	8021B		1	127891	MNR	EET MID	12/30/25 19:05
Total/NA	Analysis	Total BTEX		1	128010	SA	EET MID	12/30/25 19:05
Total/NA	Prep	TX_1005_S_Prep			127589	EL	EET MID	12/23/25 11:46
Total/NA	Analysis	TX 1005		1	127929	SA	EET MID	12/31/25 05:06
Total/NA	Analysis	TX 1005		1	127982	SA	EET MID	12/31/25 05:06
Soluble	Leach	DI Leach			127635	SMC	EET MID	12/23/25 15:07
Soluble	Analysis	300.0		1	127643	CS	EET MID	12/23/25 20:15

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Huckleberry State 22N

Job ID: 880-66458-1

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-26

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Total BTEX		Solid	Total BTEX

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: Ensolum

Job ID: 880-66458-1

Project/Site: Huckleberry State 22N

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
TX 1005	Texas - Total Petroleum Hydrocarbon (GC)	TCEQ	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID
TX_1005_S_Prep	Extraction - Texas Total petroleum Hyrdocarbons	TCEQ	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

TCEQ = Texas Commission of Environmental Quality

Laboratory References:

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



Sample Summary

Client: Ensolum
Project/Site: Huckleberry State 22N

Job ID: 880-66458-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
880-66458-1	SS01	Solid	12/22/25 09:24	12/22/25 17:39	Texas
880-66458-2	SS02	Solid	12/22/25 09:26	12/22/25 17:39	Texas
880-66458-3	SS03	Solid	12/22/25 09:28	12/22/25 17:39	Texas
880-66458-4	SS04	Solid	12/22/25 09:30	12/22/25 17:39	Texas
880-66458-5	CS01	Solid	12/22/25 09:32	12/22/25 17:39	Texas

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



860-66458 Chain of Custody

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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
Xenco



Project Manager:	Kalei Jennings	Bill to: (if different)	Ensolium
Company Name:	Ensolium, LLC	Company Name:	Kalei Jennings
Address:	601 N. Monrovia Rd. Ste 100	Address:	
City, State ZIP:	Hudon, TX 79701	City, State ZIP:	
Phone:		Email:	kjennings@ensolium.com

Project Name:	Huckberry State ZIN	Turn Around	
Project Number:	03F2024063	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Rush
Project Location:		Due Date:	
Sampler's Name:	Taylor Goodwin	TAT starts the day received by the lab, if received by 4:30pm	
P.O #:	03F2024063	Temp Blank:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
SAMPLE RECEIPT			
Samples Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Cooler Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Thermometer ID:	TAS
Sample Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Correction Factor:	
Total Containers:		Temperature Reading:	0.5
		Corrected Temperature:	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	Parameters		Pres. Code
						# of Cont		
SS01	↓	12/28	0924	0.5'	C	1		
SS02	↓	0926	0926	1'	C	1		
SS03	↓	0928	0928	1'	C	1		
SS04	↓	0930	0930	1'	C	1		
CS01	↓	0932	0932	1'	C	1		

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
 Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

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

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	12/28/25 1739			

Revised Date: 08/25/2020 Rev. 2020.2



Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-66458-1

Login Number: 66458

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	

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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

Action 547906

QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 547906
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2533449037
Incident Name	NAPP2533449037 HUCKELBERRY STATE COM 22N @ FAPP2129338356
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Facility	[fAPP2129338356] Huckelberry State Com 22 N CTB

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	Huckelberry State Com 22N
Date Release Discovered	11/29/2025
Surface Owner	Private

Incident Details	
<i>Please answer all the questions in this group.</i>	
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	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Normal Operations Tank (Any) Produced Water Released: 34 BBL Recovered: 33 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 547906

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 547906
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety 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.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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.

I hereby agree and sign off to the above statement	Name: Jacob Laird Title: Environmental Engineer Email: jacob.laird@conocophillips.com Date: 01/29/2026
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QUESTIONS, Page 3

Action 547906

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 547906
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release 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 and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (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	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1000 (ft.) and ½ (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (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
<i>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.</i>	
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 milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	165
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	28.1
GRO+DRO (EPA SW-846 Method 8015M)	14.6
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

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.

On what estimated date will the remediation commence	11/29/2025
On what date will (or did) the final sampling or liner inspection occur	12/12/2025
On what date will (or was) the remediation complete(d)	12/12/2025
What is the estimated surface area (in square feet) that will be reclaimed	7728
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	7728
What is the estimated volume (in cubic yards) that will be remediated	0

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.

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QUESTIONS, Page 4

Action 547906

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 547906
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	FEEM0112342028 LEA LAND LANDFILL
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No

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.

I hereby agree and sign off to the above statement	Name: Jacob Laird Title: Environmental Engineer Email: jacob.laird@conocophillips.com Date: 01/29/2026
--	---

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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QUESTIONS, Page 5

Action 547906

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 547906
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
<i>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.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 547906

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 547906
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	535935
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/22/2025
What was the (estimated) number of samples that were to be gathered	10
What was the sampling surface area in square feet	1000

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	7728
What was the total volume (cubic yards) remediated	0
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	7728
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	Site assessment and sampling activities were conducted at the Site to address the release of produced water on November 29, 2025. Laboratory analytical results for the assessment soil samples indicated all COC concentrations were compliant with the Site Closure Criteria and compliant with the strictest Table 1 Closure Criteria. Based on the soil sample analytical results, no further remediation was required. Depth to groundwater has been estimated to be greater than 100 feet bgs and no other sensitive receptors were identified near the release extent. COG believes these remedial actions are protective of human health, the environment, and groundwater. As such, COG respectfully requests closure for Incident Number NAPP2533449037.

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.

I hereby agree and sign off to the above statement	Name: Jacob Laird Title: Environmental Engineer Email: jacob.laird@conocophillips.com Date: 01/29/2026
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QUESTIONS, Page 7

Action 547906

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 547906
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
<i>Only answer the questions in this group if all reclamation steps have been completed.</i>	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 547906

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 547906
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #nAPP2533449037 Huckelberry State Com 22N, thank you. This Remediation Closure Report is approved.	2/5/2026