



October 16, 2023

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
Mesa #2H Tank Battery
Incident Number NRM2026945362
Lea County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of BTA Oil Producers, LLC (BTA), has prepared this *Closure Request* to document assessment and soil sampling activities performed at the Mesa #2H Tank Battery (Site). The purpose of the Site assessment and soil sampling activities was to assess for the presence or absence of impacted soil resulting from a historical release of crude oil and produced water at the Site. Based on field observations and soil sample laboratory analytical results, BTA is submitting this *Closure Request*, requesting no further action and closure for Incident Number NRM2026945362.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit D, Section 11, Township 26 South, Range 32 East, in Lea County, New Mexico (32.06403°, -103.65324°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On September 19, 2020, a failed gasket on a separator vessel resulted in the release of approximately 40 barrels (bbls) of crude oil and 94 bbls of produced water. The release occurred on the well pad within a lined containment and sprayed onto the pasture area west of the pad. A vacuum truck was dispatched to the Site to recover free-standing fluids; approximately 6 bbls of crude oil and 14 bbls of produced water were recovered. Additionally, a backhoe was used to scrape up the saturated surface soil from the release extent. BTA reported the release immediately via email to the New Mexico Oil Conservation Division (NMOCD) and submitted a *Release Notification Form C-141* (Form C-141) on September 22, 2020. The release was assigned Incident Number NRM2026945362.

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 NMAC. Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential Site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to

groundwater data is New Mexico Office of the State Engineer (NMOSE) well C-4549 POD 1, located approximately 150 feet west of the Site. The groundwater well was drilled during July 2021 to a total depth of 103 feet bgs, and no groundwater was encountered. The borehole was properly abandoned using hydrated bentonite chips. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a riverine, located approximately 200 feet west 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 (medium 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:

- 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

LINER INTEGRITY INSPECTION AND INITIAL ASSESSMENT ACTIVITIES

A 48-hour advance notice of the liner inspection was provided via email to the NMOCD District I office on July 19, 2023. A liner integrity inspection was conducted by Ensolum personnel on July 27, 2023. Upon inspection, the liner was determined to be sufficient. Additionally, Site assessment activities were conducted to evaluate the overspray release area outside of the lined containment. Assessment soil samples SS01 through SS05 were collected around the release extent at a depth of 0.5 feet bgs to confirm the lateral extent of the release. Assessment soil samples SS06 through SS10 were collected within the historical release area at a depth 0.5 feet bgs, to assess for the presence or absence of impacted soil resulting from the September 19, 2020, release. The soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included as 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 Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of the following chemicals of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method SM4500.

Laboratory analytical results for assessment soil samples SS01 through SS05, collected around the release extent, were compliant with the most stringent Table I Closure Criteria and confirmed the lateral extent of the release. Laboratory analytical results for assessment samples SS06 through SS10, collected within the historical release extent, indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria. No impacted soil was identified; however, vertical delineation activities were warranted to further confirm the absence of impacted soil within the release area.

BTA Oil Producers, LLC
Closure Request
Mesa #2H Tank Battery

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DELINEATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On August 8, 2023, Ensolum personnel returned to the Site to complete vertical delineation activities to confirm the absence of impacted soil within the historical release area. Boreholes were advanced via hand auger at the location of assessment samples SS06 through SS10. The boreholes were advanced to a depth of 4 feet bgs. Soil from the boreholes was field screened at 1-foot intervals for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. Field screening results and observations from the boreholes were logged on lithologic/soil sampling logs, which are included in Appendix C. Based on the absence of elevated field screening results, discrete delineation samples (SS06A through SS10A) were collected from the boreholes at a depth of 4 feet bgs, for laboratory analysis. The delineation soil samples were collected, handled, and analyzed following the same procedures described above. The delineation soil sample locations were mapped utilizing a handheld GPS unit and are depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included in Appendix B.

Laboratory analytical results for delineation soil samples SS06A through SS10A indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria and confirmed the absence of impacted soil within the historical release area. Laboratory analytical results are summarized in Table 1 and the complete analytical reports are included as Appendix D.

CLOSURE REQUEST

Site assessment activities were conducted at the Site to assess for the presence or absence of impacted soil resulting from the September 19, 2020, crude oil and produced water release within lined containment and overspray onto the adjacent pasture. Following the passing liner integrity inspection, Site assessment and delineation soil samples were collected within and around the historical release area outside of the containment. Laboratory analytical results for the assessment and delineation soil samples indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria. Based on soil sample analytical results, no impacted soil was identified, and no further remediation is required.

Initial response efforts, including recovery of free-standing fluids and immediate scraping of the saturated surface soil, and natural attenuation have mitigated impacts at this Site. BTA believes the remedial actions completed are protective of human health, the environment, and groundwater. As such, BTA respectfully requests closure for Incident Number NRM2026945362. Notifications submitted to the NMOCD are included in Appendix E and the final Form C-141 is included in Appendix F.

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

Sincerely,

Ensolum, LLC



Hadlie Green
Project Geologist



Aimee Cole
Senior Managing Scientist



BTA Oil Producers, LLC
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Page 4

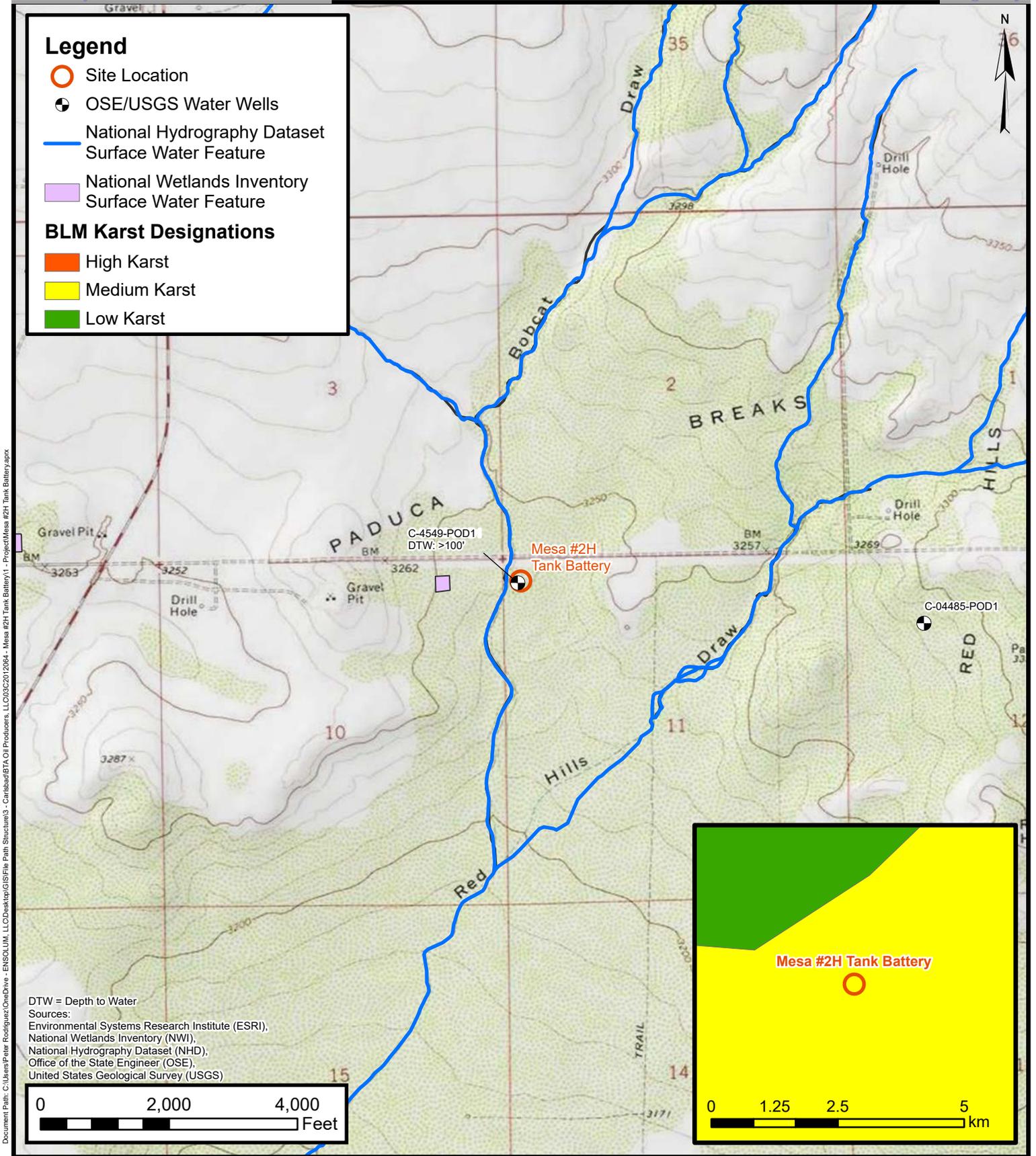
cc: Kelton Beard, BTA
Bureau of Land Management

Appendices:

Figure 1 Site Receptor Map
Figure 2 Assessment Soil Sample Locations
Table 1 Soil Sample Analytical Results
Appendix A Referenced Well Records
Appendix B Photographic Log
Appendix C Lithologic/Soil Sampling Logs
Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix E NMOCD Notifications
Appendix F Final Form C-141



FIGURES



Document Path: C:\Users\Peter.Rodriguez\OneDrive - ENSOLUM, LLC\Desktop\GIS\Map\BTA Oil Producers, LLC\2023\10\2023-10-19\Map\Mesa #2H Tank Battery.aprx



Site Receptor Map

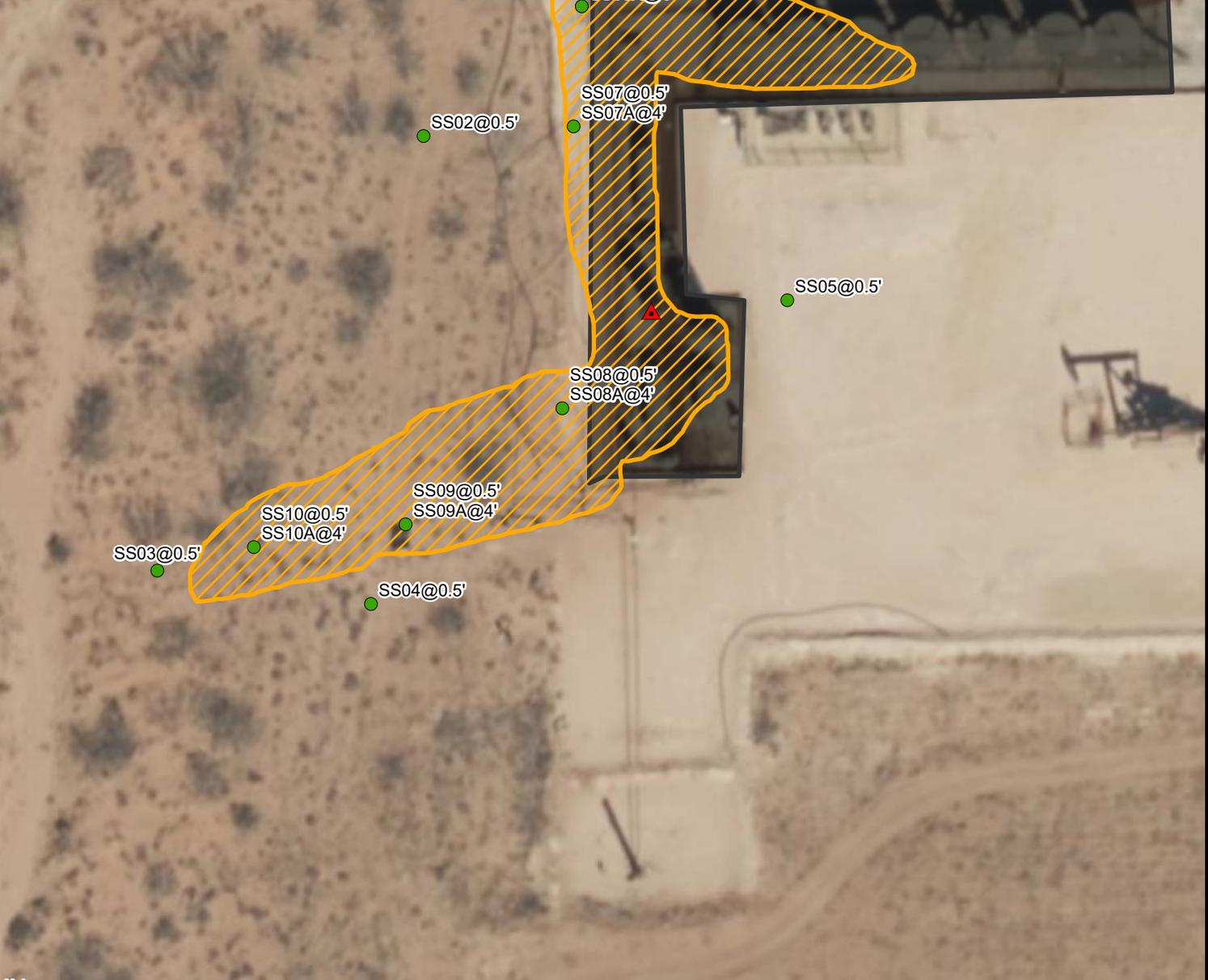
BTA Oil Producers, LLC
 Mesa #2H Tank Battery
 Incident Number: NRM2026945362
 Unit D, Sec 11, T26S, R32E
 Lea County, New Mexico

FIGURE
1

Document Path: C:\Users\Peter.Rodriguez\OneDrive - ENSOLUM, LLC\Desktop\GIS\Map\BTA Oil Producers, LLC\0302012084 - Mesa #2H Tank Battery\1 - Project\Mesa #2H Tank Battery.aprx

Legend

-  Release Point
-  Assessment Soil Sample in Compliance with Closure Criteria
-  Containment Liner
-  Release Extent



Note:
Sample ID @ Depth Below Surface



Source:
Bing Maps

Assessment Soil Sample Locations

BTA Oil Producers, LLC
 Mesa #2H Tank Battery
 Incident Number: NRM2026945362
 Unit D, Sec 11, T26S R32E
 Lea County, New Mexico

FIGURE
2





TABLES



**TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Mesa #2H Tank Battery
BTA Oil Producers, LLC
Lea County, New Mexico**

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Assessment Soil Samples										
SS01	07/27/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS02	07/27/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS03	07/27/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS04	07/27/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS05	07/27/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SS06	07/27/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS06A	08/08/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SS07	07/27/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS07A	08/08/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SS08	07/27/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS08A	08/08/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
SS09	07/27/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS09A	08/08/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS10	07/27/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS10A	08/08/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0

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

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon



APPENDIX A

Referenced Well Records



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

OSE DJT AUG 2 2021 PM 4:45

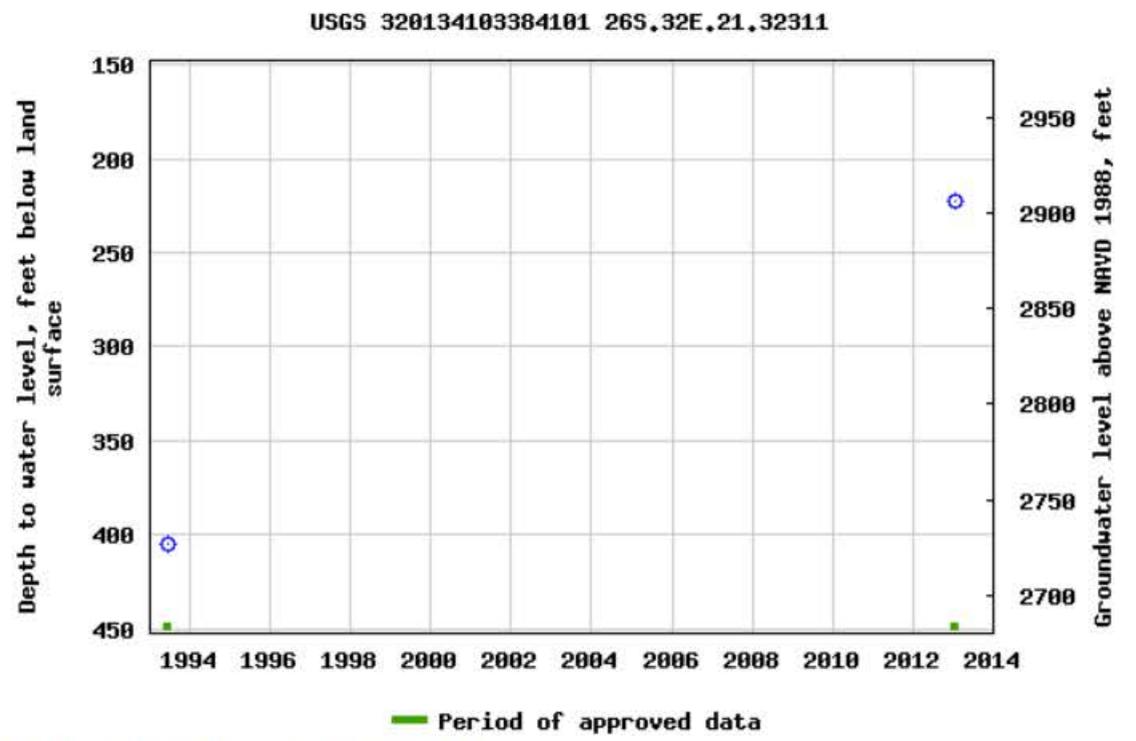
1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD1 (MW-1)		WELL TAG ID NO. n/a		OSE FILE NO(S) C-4549			
	WELL OWNER NAME(S) BTA Oil Producers				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 104 S. Pecos St.				CITY Midland	STATE TX	ZIP 79701	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 4	SECONDS 40.92	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
	LONGITUDE 103	37	53.68	W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NW NW NW Sec. 11 T26S R32E								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 07/14/2021		DRILLING ENDED 07/14/2021		DEPTH OF COMPLETED WELL (FT) temporary well material		BORE HOLE DEPTH (FT) 103	DEPTH WATER FIRST ENCOUNTERED (FT) n/a
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)						STATIC WATER LEVEL IN COMPLETED WELL (FT) n/a	
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	103	±8.5	Boring- HSA	--	--	--	--
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						

FOR OSE INTERNAL USE				WR-20 WELL RECORD & LOG (Version 06/30/17)			
FILE NO. C-4549		POD NO. 1		TRN NO. 698318			
LOCATION 26S-32E-11		1.1.1		WELL TAG ID NO. NA-		PAGE 1 OF 2	

Lea County, New Mexico
 Hydrologic Unit Code 13070001
 Latitude 32°01'35.2", Longitude 103°41'01.8" NAD83
 Land-surface elevation 3,130 feet above NAVD88
 The depth of the well is 405 feet below land surface.
 The depth of the hole is 405 feet below land surface.
 This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer.
 This well is completed in the Dockum Group (231DCKM) local aquifer.

Output formats

- [Table of data](#)
- [Tab-separated data](#)
- [Graph of data](#)
- [Reselect period](#)





APPENDIX B

Photographic Log



Photographic Log
BTA Oil Producers, LLC
Mesa #2H Tank Battery
Lea County, New Mexico



Photograph: 1 Date: 7/27/2023
Description: View of intact liner during inspection



Photograph: 2 Date: 7/27/2023
Description: View of intact liner during inspection



Photograph: 3 Date: 7/27/2023
Description: View of intact liner during inspection



Photograph: 4 Date: 7/27/2023
Description: View of intact liner during inspection



Photographic Log
BTA Oil Producers, LLC
Mesa #2H Tank Battery
Lea County, New Mexico



Photograph: 5 Date: 7/27/2023
Description: View of historical pasture release area.

Photograph: 6 Date: 7/27/2023
Description: View of historical release area.
View:



Photograph: 7 Date: 8/8/2023
Description: Historical release area during delineation.
View: Northwest

Photograph: 8 Date: 8/8/2023
Description: Historical release area during delineation.
View: North



APPENDIX C

Lithologic/Soil Sampling Logs

					Sample Name: SS06		Date: 8/8/23	
					Site Name: Mesa #2H Tank Battery Liner			
					Incident Number: NRM2026945362			
					Job Number: 03C2012064			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: Hadlie Green		Method: Auger	
Coordinates: 32.064479, -103.653388					Hole Diameter: 4"		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
					0			
D	<173.8	0.6	N	SS06	0.5		SP	SAND, red, fine grain, well sorted, well graded, no staining, slight odor
D	<170	0	N		1		SP	SAND, red, fine grain, well sorted, no stain, no odor well graded
D	<170	0.1	N		2		SAA	
D	<170	0	N		3		SAA	
D	<170	0	N	SS06A	4		SP	SAND, red, fine grain, well sorted, well graded, no stain, no odor, some clay
TD at 4 ft bgs								

					Sample Name: SS07		Date: 8/8/23	
					Site Name: Mesa #2H Tank Battery Liner			
					Incident Number: NRM2026945362			
					Job Number: 03C2012064			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: Hadlie Green		Method: Auger	
Coordinates: 32064373, -103.653400					Hole Diameter: 4"		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
					0			
D	<173.8	0.2	N	SS07	0.5		SP	SAND, red, fine grain, well sorted, well graded, no staining, no odor
D	<170	0.1	N		1		SP	SAND, red, fine grain, well sorted, no stain, no odor well sorted
D	<170	0	N		2		SAA	
D	<170	0	N		3		SAA	
D	<170	0	N	SS07A	4		SP	SAND, red, fine grain, well sorted, well graded, no stain, no odor, some clay
TD at 4 ft bgs								

					Sample Name: SS08		Date: 8/8/23	
					Site Name: Mesa #2H Tank Battery Liner			
					Incident Number: NRM2026945362			
					Job Number: 03C2012064			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: Hadlie Green		Method: Auger	
Coordinates: 32.064122, -103.653417					Hole Diameter: 4"		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0		
D	<173.8	0.8	N	SS08		0.5	SP	SAND, red, fine grain, well sorted, well graded, no staining, slight odor
D	<170	0.1	N			1	SP	SAND, red, fine grain, well sorted, no stain, no odor well graded
D	<170	0.1	N			2	SAA	
D	<170	0	N			3	SAA	
D	308	0	N	SS08A		4	SP	SAND, red, fine grain, well sorted, well graded, no stain, no odor, some clay
TD at 4 ft bgs								

					Sample Name: SS09		Date: 8/8/23	
					Site Name: Mesa #2H Tank Battery Liner			
					Incident Number: NRM2026945362			
					Job Number: 03C2012064			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: Hadlie Green		Method: Auger	
Coordinates: 32.064020, -103.653581					Hole Diameter: 4"		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
					0			
D	<173.8	1.6	N	SS09	0.5		SP	SAND, red, fine grain, well sorted, well graded, no staining, slight odor
D	<170	0.1	N		1		SP	SAND, red, fine grain, well sorted, no stain, no odor well sorted
D	<170	0	N		2		SAA	
D	<170	0	N		3		SAA	
D	<170	0	N	SS09A	4		SP	SAND, red, fine grain, well sorted, well graded, no stain, no odor, some clay
TD at 4 ft bgs								

		Sample Name: SS10		Date: 8/8/23				
		Site Name: Mesa #2H Tank Battery Liner						
		Incident Number: NRM2026945362						
		Job Number: 03C2012064						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.064004, -103.653739			Logged By: Hadlie Green		Method: Auger			
			Hole Diameter: 4"		Total Depth: 4'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
					0			
D	<173.8	0.7	N	SS10	0.5		SP	SAND, red, fine grain, well sorted, well graded, no staining, slight odor
D	<170	0	N		1		SP	SAND, red, fine grain, well sorted, no stain, no odor well sorted
D	<170	0	N		2		SAA	
D	<170	0	N		3		SAA	
D	<170	0	N	SS10A	4		SP	SAND, red, fine grain, well sorted, well graded, no stain, no odor, some clay
TD at 4 ft bgs								



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



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

August 02, 2023

HADLIE GREEN

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: MESA #2H TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 07/27/23 13:00.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
 HADLIE GREEN
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	07/27/2023	Sampling Date:	07/27/2023
Reported:	08/02/2023	Sampling Type:	Soil
Project Name:	MESA #2H TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012064	Sample Received By:	Shari Cisneros
Project Location:	BTA (32.06401-103.65324)		

Sample ID: SS 01 0.5' (H233950-01)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2023	ND	2.04	102	2.00	3.24	
Toluene*	<0.050	0.050	08/01/2023	ND	2.04	102	2.00	7.34	
Ethylbenzene*	<0.050	0.050	08/01/2023	ND	1.99	99.6	2.00	2.14	
Total Xylenes*	<0.150	0.150	08/01/2023	ND	5.94	99.0	6.00	2.32	
Total BTEX	<0.300	0.300	08/01/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/01/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2023	ND	197	98.3	200	0.670	
DRO >C10-C28*	<10.0	10.0	08/01/2023	ND	223	112	200	2.51	
EXT DRO >C28-C36	<10.0	10.0	08/01/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
 HADLIE GREEN
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	07/27/2023	Sampling Date:	07/27/2023
Reported:	08/02/2023	Sampling Type:	Soil
Project Name:	MESA #2H TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012064	Sample Received By:	Shari Cisneros
Project Location:	BTA (32.06401-103.65324)		

Sample ID: SS 02 0.5' (H233950-02)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/01/2023	ND	2.04	102	2.00	3.24		
Toluene*	<0.050	0.050	08/01/2023	ND	2.04	102	2.00	7.34		
Ethylbenzene*	<0.050	0.050	08/01/2023	ND	1.99	99.6	2.00	2.14		
Total Xylenes*	<0.150	0.150	08/01/2023	ND	5.94	99.0	6.00	2.32		
Total BTEX	<0.300	0.300	08/01/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/01/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/01/2023	ND	197	98.3	200	0.670		
DRO >C10-C28*	<10.0	10.0	08/01/2023	ND	223	112	200	2.51		
EXT DRO >C28-C36	<10.0	10.0	08/01/2023	ND						

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
 HADLIE GREEN
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	07/27/2023	Sampling Date:	07/27/2023
Reported:	08/02/2023	Sampling Type:	Soil
Project Name:	MESA #2H TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012064	Sample Received By:	Shari Cisneros
Project Location:	BTA (32.06401-103.65324)		

Sample ID: SS 03 0.5' (H233950-03)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2023	ND	2.04	102	2.00	3.24	
Toluene*	<0.050	0.050	08/01/2023	ND	2.04	102	2.00	7.34	
Ethylbenzene*	<0.050	0.050	08/01/2023	ND	1.99	99.6	2.00	2.14	
Total Xylenes*	<0.150	0.150	08/01/2023	ND	5.94	99.0	6.00	2.32	
Total BTEX	<0.300	0.300	08/01/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/01/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2023	ND	197	98.3	200	0.670	
DRO >C10-C28*	<10.0	10.0	08/01/2023	ND	223	112	200	2.51	
EXT DRO >C28-C36	<10.0	10.0	08/01/2023	ND					

Surrogate: 1-Chlorooctane 97.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
 HADLIE GREEN
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	07/27/2023	Sampling Date:	07/27/2023
Reported:	08/02/2023	Sampling Type:	Soil
Project Name:	MESA #2H TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012064	Sample Received By:	Shari Cisneros
Project Location:	BTA (32.06401-103.65324)		

Sample ID: SS 04 0.5' (H233950-04)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/01/2023	ND	2.04	102	2.00	3.24		
Toluene*	<0.050	0.050	08/01/2023	ND	2.04	102	2.00	7.34		
Ethylbenzene*	<0.050	0.050	08/01/2023	ND	1.99	99.6	2.00	2.14		
Total Xylenes*	<0.150	0.150	08/01/2023	ND	5.94	99.0	6.00	2.32		
Total BTEX	<0.300	0.300	08/01/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/01/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/01/2023	ND	197	98.3	200	0.670		
DRO >C10-C28*	<10.0	10.0	08/01/2023	ND	223	112	200	2.51		
EXT DRO >C28-C36	<10.0	10.0	08/01/2023	ND						

Surrogate: 1-Chlorooctane 97.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
 HADLIE GREEN
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	07/27/2023	Sampling Date:	07/27/2023
Reported:	08/02/2023	Sampling Type:	Soil
Project Name:	MESA #2H TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012064	Sample Received By:	Shari Cisneros
Project Location:	BTA (32.06401-103.65324)		

Sample ID: SS 05 0.5' (H233950-05)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/01/2023	ND	2.04	102	2.00	3.24		
Toluene*	<0.050	0.050	08/01/2023	ND	2.04	102	2.00	7.34		
Ethylbenzene*	<0.050	0.050	08/01/2023	ND	1.99	99.6	2.00	2.14		
Total Xylenes*	<0.150	0.150	08/01/2023	ND	5.94	99.0	6.00	2.32		
Total BTEX	<0.300	0.300	08/01/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	08/01/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/01/2023	ND	197	98.3	200	0.670		
DRO >C10-C28*	<10.0	10.0	08/01/2023	ND	223	112	200	2.51		
EXT DRO >C28-C36	<10.0	10.0	08/01/2023	ND						

Surrogate: 1-Chlorooctane 84.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
 HADLIE GREEN
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	07/27/2023	Sampling Date:	07/27/2023
Reported:	08/02/2023	Sampling Type:	Soil
Project Name:	MESA #2H TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012064	Sample Received By:	Shari Cisneros
Project Location:	BTA (32.06401-103.65324)		

Sample ID: SS 06 0.5' (H233950-06)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2023	ND	2.04	102	2.00	3.24	
Toluene*	<0.050	0.050	08/01/2023	ND	2.04	102	2.00	7.34	
Ethylbenzene*	<0.050	0.050	08/01/2023	ND	1.99	99.6	2.00	2.14	
Total Xylenes*	<0.150	0.150	08/01/2023	ND	5.94	99.0	6.00	2.32	
Total BTEX	<0.300	0.300	08/01/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/01/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2023	ND	197	98.3	200	0.670	
DRO >C10-C28*	<10.0	10.0	08/01/2023	ND	223	112	200	2.51	
EXT DRO >C28-C36	<10.0	10.0	08/01/2023	ND					

Surrogate: 1-Chlorooctane 99.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
 HADLIE GREEN
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	07/27/2023	Sampling Date:	07/27/2023
Reported:	08/02/2023	Sampling Type:	Soil
Project Name:	MESA #2H TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012064	Sample Received By:	Shari Cisneros
Project Location:	BTA (32.06401-103.65324)		

Sample ID: SS 07 0.5' (H233950-07)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/01/2023	ND	2.04	102	2.00	3.24		
Toluene*	<0.050	0.050	08/01/2023	ND	2.04	102	2.00	7.34		
Ethylbenzene*	<0.050	0.050	08/01/2023	ND	1.99	99.6	2.00	2.14		
Total Xylenes*	<0.150	0.150	08/01/2023	ND	5.94	99.0	6.00	2.32		
Total BTEX	<0.300	0.300	08/01/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/01/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/01/2023	ND	197	98.3	200	0.670		
DRO >C10-C28*	<10.0	10.0	08/01/2023	ND	223	112	200	2.51		
EXT DRO >C28-C36	<10.0	10.0	08/01/2023	ND						

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
 HADLIE GREEN
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	07/27/2023	Sampling Date:	07/27/2023
Reported:	08/02/2023	Sampling Type:	Soil
Project Name:	MESA #2H TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012064	Sample Received By:	Shari Cisneros
Project Location:	BTA (32.06401-103.65324)		

Sample ID: SS 08 0.5' (H233950-08)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/01/2023	ND	2.04	102	2.00	3.24		
Toluene*	<0.050	0.050	08/01/2023	ND	2.04	102	2.00	7.34		
Ethylbenzene*	<0.050	0.050	08/01/2023	ND	1.99	99.6	2.00	2.14		
Total Xylenes*	<0.150	0.150	08/01/2023	ND	5.94	99.0	6.00	2.32		
Total BTEX	<0.300	0.300	08/01/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/01/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/01/2023	ND	197	98.3	200	0.670		
DRO >C10-C28*	<10.0	10.0	08/01/2023	ND	223	112	200	2.51		
EXT DRO >C28-C36	<10.0	10.0	08/01/2023	ND						

Surrogate: 1-Chlorooctane 98.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
 HADLIE GREEN
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	07/27/2023	Sampling Date:	07/27/2023
Reported:	08/02/2023	Sampling Type:	Soil
Project Name:	MESA #2H TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012064	Sample Received By:	Shari Cisneros
Project Location:	BTA (32.06401-103.65324)		

Sample ID: SS 09 0.5' (H233950-09)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/01/2023	ND	2.04	102	2.00	3.24		
Toluene*	<0.050	0.050	08/01/2023	ND	2.04	102	2.00	7.34		
Ethylbenzene*	<0.050	0.050	08/01/2023	ND	1.99	99.6	2.00	2.14		
Total Xylenes*	<0.150	0.150	08/01/2023	ND	5.94	99.0	6.00	2.32		
Total BTEX	<0.300	0.300	08/01/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/01/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/01/2023	ND	197	98.3	200	0.670		
DRO >C10-C28*	<10.0	10.0	08/01/2023	ND	223	112	200	2.51		
EXT DRO >C28-C36	<10.0	10.0	08/01/2023	ND						

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
 HADLIE GREEN
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	07/27/2023	Sampling Date:	07/27/2023
Reported:	08/02/2023	Sampling Type:	Soil
Project Name:	MESA #2H TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012064	Sample Received By:	Shari Cisneros
Project Location:	BTA (32.06401-103.65324)		

Sample ID: SS 10 0.5' (H233950-10)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/01/2023	ND	2.04	102	2.00	3.24		
Toluene*	<0.050	0.050	08/01/2023	ND	2.04	102	2.00	7.34		
Ethylbenzene*	<0.050	0.050	08/01/2023	ND	1.99	99.6	2.00	2.14		
Total Xylenes*	<0.150	0.150	08/01/2023	ND	5.94	99.0	6.00	2.32		
Total BTEX	<0.300	0.300	08/01/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/01/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/01/2023	ND	197	98.3	200	0.670		
DRO >C10-C28*	<10.0	10.0	08/01/2023	ND	223	112	200	2.51		
EXT DRO >C28-C36	<10.0	10.0	08/01/2023	ND						

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC

Project Manager: Hadlie Green

Address: 3122 National Parks Hwy

City: Calabaz State: NM Zip: 88220

Phone #: 432-557-8895 Fax #:

Project #: 03C2012604 Project Owner: BTA O.I

Project Name: Mesa #24 Tank Battery

Project Location: 32.06401, -103.65324

Sampler Name: Ronn Hays

FOR LAB USE ONLY

BILL TO

P.O. #:

Company: BTA O.I

Attn: Keldon Beard

Address: 1045 Pecos St

City: Midland State: TX Zip: 79701

Phone #: 432-312-2203 Fax #:

ANALYSIS REQUEST

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	BTEX	TPH	Cl-
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
H23380	5501	0.5'	G			X					7/27/23	0825	X	X	X
	5502											0823	X	X	X
	5503											0807	X	X	X
	5504											0804	X	X	X
	5505											0900	X	X	X
	5506											0824	X	X	X
	5507											0819	X	X	X
	5508											0828	X	X	X
	5509											0815	X	X	X
	5510											0811	X	X	X

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Relinquished By: *[Signature]*

Date: 7/27/23 Time: 13:00

Received By: *[Signature]*

Remarks: *hayer@ensolum.com*

Delivered By: (Circle One) Sampler - UPS - Bus - Other:

Observed Temp. °C: 16.0 Corrected Temp. °C: 16.0

Sample Condition Cool Intact Yes No

Turnaround Time: 4140 Standard Rush Bacteria (only) Sample Condition Cool Intact Yes No

Vertical Result: Yes No Add'l Phone #: All Results are emailed. Please provide Email address: *hayer@ensolum.com*

† Cardinal cannot accept verbal changes. Please email changes to caley.keene@cardinallabsnm.com



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

August 14, 2023

HADLIE GREEN
ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND, TX 79705

RE: MESA #2H TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 08/08/23 11:55.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	08/08/2023	Sampling Date:	08/08/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	MESA #2H TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012064	Sample Received By:	Tamara Oldaker
Project Location:	BTA - NM		

Sample ID: SS 06 A 4' (H234234-01)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2023	ND	2.06	103	2.00	1.44	
Toluene*	<0.050	0.050	08/10/2023	ND	1.97	98.3	2.00	1.99	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	1.97	98.7	2.00	1.28	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	5.84	97.4	6.00	2.40	
Total BTEX	<0.300	0.300	08/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/09/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2023	ND	167	83.7	200	5.49	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	187	93.7	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	08/08/2023	Sampling Date:	08/08/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	MESA #2H TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012064	Sample Received By:	Tamara Oldaker
Project Location:	BTA - NM		

Sample ID: SS 07 A 4' (H234234-02)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2023	ND	2.06	103	2.00	1.44	
Toluene*	<0.050	0.050	08/10/2023	ND	1.97	98.3	2.00	1.99	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	1.97	98.7	2.00	1.28	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	5.84	97.4	6.00	2.40	
Total BTEX	<0.300	0.300	08/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/09/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2023	ND	167	83.7	200	5.49	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	187	93.7	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 134 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	08/08/2023	Sampling Date:	08/08/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	MESA #2H TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012064	Sample Received By:	Tamara Oldaker
Project Location:	BTA - NM		

Sample ID: SS 08 A 4' (H234234-03)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2023	ND	2.06	103	2.00	1.44	
Toluene*	<0.050	0.050	08/10/2023	ND	1.97	98.3	2.00	1.99	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	1.97	98.7	2.00	1.28	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	5.84	97.4	6.00	2.40	
Total BTEX	<0.300	0.300	08/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	08/09/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2023	ND	167	83.7	200	5.49	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	187	93.7	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 134 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	08/08/2023	Sampling Date:	08/08/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	MESA #2H TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012064	Sample Received By:	Tamara Oldaker
Project Location:	BTA - NM		

Sample ID: SS 09 A 4' (H234234-04)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2023	ND	2.06	103	2.00	1.44	
Toluene*	<0.050	0.050	08/10/2023	ND	1.97	98.3	2.00	1.99	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	1.97	98.7	2.00	1.28	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	5.84	97.4	6.00	2.40	
Total BTEX	<0.300	0.300	08/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/09/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2023	ND	167	83.7	200	5.49	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	187	93.7	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 131 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	08/08/2023	Sampling Date:	08/08/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	MESA #2H TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012064	Sample Received By:	Tamara Oldaker
Project Location:	BTA - NM		

Sample ID: SS 10 A 4' (H234234-05)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2023	ND	2.06	103	2.00	1.44	
Toluene*	<0.050	0.050	08/10/2023	ND	1.97	98.3	2.00	1.99	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	1.97	98.7	2.00	1.28	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	5.84	97.4	6.00	2.40	
Total BTEX	<0.300	0.300	08/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/09/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2023	ND	167	83.7	200	5.49	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	187	93.7	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 131 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO ANALYSIS REQUEST

Company Name: Ensolum, LLC	P.O. #:
Project Manager: Hadlie Green	Company: BTA
Address: 601 N. Marland St. STE 400	Attn: Kelton Beard
City: Midland	Address: 104 S Pecos St
State: TX Zip: 79701	City: Midland
Phone #: 432-557-8895 Fax #:	State: TX Zip: 79701
Project #: 03C2012064 Project Owner: Ensolum	Phone #: 432-312-2203
Project Name: Mesa #2H Tank Battery	Fax #:
Project Location: Wm	PRESERV:
Sampler Name: Hadlie Green	SAMPLING:

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	TPH 8015	BTEX 8021	CHLORIDE Sm4500	
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:						ICE / COOL
11241255	SS061A	4'	G	1	X	X	X	X	X	X	X	X	8/8/23	0940	X	X	X
	SS071A	4'			X	X	X	X	X	X	X	X		0930	X	X	X
	SS081A	4'			X	X	X	X	X	X	X	X		0920	X	X	X
	SS091A	4'			X	X	X	X	X	X	X	X		0910	X	X	X
	SS101A	4'			X	X	X	X	X	X	X	X		0905	X	X	X

PLEASE NOTE: Laboratory and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: *Hadlie Green*

Received By: *Amara Velazquez*

Date: 8/8/23

Time: 1:55

Observed Temp. °C: 3.2

Corrected Temp. °C:

Sample Condition: Intact Cool Yes No

Checked By: *AV*

Turnaround Time: Standard Rush

Bacteria (only) Sample Condition: Cool Intact Yes No

Thermometer ID #119 #140 #150 #1525

Correction Factor: 0.00

Verbal Result: Yes No **Add'l Phone #:**

REMARKS: Bjenning@ensolum.com

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Observed Temp. °C: 3.2

Corrected Temp. °C:

Sample Condition: Intact Cool Yes No

Checked By: *AV*

Turnaround Time: Standard Rush

Bacteria (only) Sample Condition: Cool Intact Yes No

Thermometer ID #119 #140 #150 #1525

Correction Factor: 0.00

Verbal Result: Yes No **Add'l Phone #:**

REMARKS:



APPENDIX E
NMOCD Notifications

From: [Wells, Shelly, EMNRD](#)
To: [Hadlie Green](#)
Cc: [Bratcher, Michael, EMNRD](#); [Hamlet, Robert, EMNRD](#)
Subject: RE: [EXTERNAL] BTA - Containment Inspection - Mesa #2H Tank Battery (Incident Number nRM2026945362)
Date: Wednesday, July 19, 2023 2:35:09 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)

[**EXTERNAL EMAIL**]

Good afternoon Hadlie,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

From: Hadlie Green <hgreen@ensolum.com>
Sent: Wednesday, July 19, 2023 1:30 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Tacoma Morrissey <tmorrissey@ensolum.com>; Kelton Beaird <KBeaird@btaoil.com>
Subject: [EXTERNAL] BTA - Containment Inspection - Mesa #2H Tank Battery (Incident Number nRM2026945362)

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

To Whom It May Concern,

Below is an email notification for liner inspection at BTA Oil Producers, LLC (BTA) Mesa #2H Tank Battery (Incident Number nRM2026945362) / Spill Date 9-19-2020. This is a notification that Ensolum is scheduled to inspect this lined containment on behalf of BTA on Thursday, July 27, 2023. Please call with any questions or concerns.

GPS: 32.06403, -103.65324

Thank you,

Hadlie Green
Project Geologist
432-557-8895



hgreen@ensolum.com

Ensolum, LLC



From: [Wells, Shelly, EMNRD](#)
To: [Hadlie Green](#)
Cc: [Bratcher, Michael, EMNRD](#); [Hamlet, Robert, EMNRD](#); [Velez, Nelson, EMNRD](#)
Subject: RE: [EXTERNAL] BTA - Sampling Notification - Week of 07/24/2023
Date: Wednesday, July 19, 2023 2:52:23 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)

[**EXTERNAL EMAIL**]

Good afternoon Hadlie,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

[Shelly Wells](#) * Environmental Specialist-Advanced
Administrative Permitting Program
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive | Santa Fe, NM 87505
(505)469-7520 | Shelly.Wells@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

From: Hadlie Green <hgreen@ensolum.com>
Sent: Wednesday, July 19, 2023 1:36 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Tacoma Morrissey <tmorrissey@ensolum.com>; Kelton Beaird <KBeaird@btaoil.com>
Subject: [EXTERNAL] BTA - Sampling Notification - Week of 07/24/2023

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

All,

BTA anticipates collecting confirmation samples at the following locations the week of July 24, 2023.

- Chiso 14 State Jet Pump and Excavation / nAPP2205837214
 - Sampling Date: 7/25-26/2023 @ 9:00 AM MST

- Mesa #2H Tank Battery / NRM2026945362
 - Sampling Date: 7/27/2023 @ 9:00 AM MST
- Mesa B #2 Tank Battery / nAPP2113973789
 - Sampling Date: 7/28/2023 @ 9:00 AM MST

Thank you,



Hadlie Green

Project Geologist

432-557-8895

hgreen@ensolum.com

Ensolum, LLC



From: [Wells, Shelly, EMNRD](#)
To: [Hadlie Green](#)
Cc: [Bratcher, Michael, EMNRD](#); [Maxwell, Ashley, EMNRD](#); [Hamlet, Robert, EMNRD](#); [Hall, Brittany, EMNRD](#); [Harimon, Jocelyn, EMNRD](#)
Subject: RE: [EXTERNAL] BTA - Sampling Notification - Week of 08/07/2023
Date: Thursday, August 3, 2023 1:47:10 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)

[**EXTERNAL EMAIL**]

Hi Hadlie,

Notification requirements are **two business days**, per rule. You may proceed on your schedule. This, and all correspondence, should be included in the closure report to ensure inclusion in the project file.

Thank you,

Shelly

[Shelly Wells](#) * Environmental Specialist-Advanced
Administrative Permitting Program
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive | Santa Fe, NM 87505
(505)469-7520 | Shelly.Wells@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

From: Hadlie Green <hgreen@ensolum.com>
Sent: Thursday, August 3, 2023 1:36 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Kelton Beaird <KBeaird@btaoil.com>
Subject: [EXTERNAL] BTA - Sampling Notification - Week of 08/07/2023

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

All,

BTA anticipates collecting confirmation samples at the following locations the week of August 7, 2023.

- Mesa B #2 SWD / NOY1826826475
 - Sampling Date: 8/7-8/2023 @ 9:00 AM MST

- Mesa #2H Tank Battery / NRM2026945362
 - Sampling Date: 8/8/2023 @ 9:00 AM MST
- Vaca Draw 9418 JV-P 001 / nCH1835540209
 - Sampling Date: 8/10-11/2023 @ 9:00 AM MST
- Gem 4, 5, 7, 10 Battery, 8705 JV-P / NCH1903263128
 - Sampling Date: 8/10-11/2023 @ 9:00 AM MST
- Mesa 8105 JVP #006H / nOY1814228433
 - Sampling Date: 8/11/2023 @ 9:00 AM MST

Thank you,



Hadlie Green

Project Geologist

432-557-8895

hgreen@ensolum.com

Ensolum, LLC





APPENDIX F

Final Form C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural
Resources Department

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Incident ID	NRM2026945362
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: BTA Oil Producers, LLC	OGRID: 260297
Contact Name: Bob Hall	Contact Telephone: 432-682-3753
Contact email: bhall@btaoil.com	Incident # (assigned by OCD)
Contact mailing address: 104 S. Pecos St., Midland, TX 79701	

Location of Release Source

Latitude: **32.06403°** Longitude: **-103.65324°**

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Mesa #2H Tank Battery	Site Type: Production Facility
Date Release Discovered: 9/19/2020	API# (if applicable) Nearest well: Mesa #2H API #30-025-41289

Unit Letter	Section	Township	Range	County
D	11	26S	32E	Lea

Surface Owner: State Federal Tribal Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 40 BBL	Volume Recovered (bbls) 6 BBL
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 94 BBL	Volume Recovered (bbls) 14 BBL
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

A failed gasket on a separator vessel allowed the release of oil and produced water outside of the containment onto the ground as free liquid and spray. On the same day as the release, a backhoe was on location to scrape the impacted area that wasn't covered by surface flow lines. Also, 20 BBL of oil and water was recovered.

Form C-141

State of New Mexico
Oil Conservation Division

Page 2

Incident ID	NRM2026945362
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? The spill volume was greater than 25 BBL, which the NMOCD Rules define as a major release.
---	---

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
No. The aerial photos and information calculating the wetted area was made available the morning of 9/22/2020. The present C-141 is filed on the same morning and distributed via email to Mike Bratcher, Robert Hamlet, Victoria Venegas, Jim Griswold, and Jim Amos (BLM).

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.
- The impacted area has been secured to protect human health and the environment.
- Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

ADDITIONAL INFORMATION: It should be noted that on 9/19/2020, a backhoe was on location to scrape the impacted area not covered by flowlines. (Pictures attached). The area containing the lines on the surface will require hand digging to complete the remediation activities.

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

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

Printed Name: **Bob Hall** Title: **Environmental Manager**
 Signature:  Date: **9/22/2020**
 email: **bhall@btaoil.com** Telephone: **432-682-3753**

OCD Only
 Received by: Ramona Marcus Date: 9/25/2020

Location 8105 Mesa Tank Battery
API # 30-025-41289
Spill Date 9/19/2020

Spill Dimensions

ENTER - Length of Spill feet
ENTER - Width of Spill feet
ENTER - Saturation Depth of Spill inches

ENTER - Porosity Factor decimal

Oil Cut - Well Test / Vessel Throughput or Contents

Oil
Water
Calculated Oil Cut

Volume Recovered in Truck / Containment

ENTER - Recovered Oil BBL
ENTER - Recovered Water BBL

Calculated Values

Release of Oil in Soil - Unrecovered BBL
Release of Water in Soil - Unrecovered BBL
Unrecovered Total Release BBL

Calculated Values

Total Release of Oil BBL
Total Release of Water BBL
Total Release BBL

Types of Soil	Porosity Factor
Gravel	0.25
Sand	0.20
Clay/silt/sand Mix	0.15
Clay	0.05
Caliche	0.03
Unknown	0.25

(Length X Width X Depth X 1 ft/12 in) X Porosity
5.615 ft³ / BBL

X Oil Cut
(or Water Cut)

Incident ID	NRM2026945362
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	>100 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	NRM2026945362
District RP	
Facility ID	
Application ID	

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

Printed Name: Kelton Beard Title: Environmental Manager

Signature:  Date: 10/17/2023

email: KBeaird@btaoil Telephone: 432-312-2203

OCD Only

Received by: Shelly Wells Date: 10/19/2023

Incident ID	NRM2026945362
District RP	
Facility ID	
Application ID	

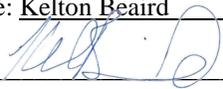
Closure

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

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

- A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Kelton Beard Title: Environmental Manager
 Signature:  Date: 10/17/2023
 email: KBeaird@btaoil Telephone: 432-312-2203

OCD Only

Received by: Shelly Wells Date: 10/19/2023

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

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

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

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

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

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

CONDITIONS

Action 277244

CONDITIONS

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 277244
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Remediation closure approved.	3/18/2024
amaxwell	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	3/18/2024