E N S O L U M

November 30, 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: Revised Closure Request Mesa B #2 SWD Incident Number NOY1826826475 Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of BTA Oil Producers, LLC (BTA), has prepared this *Revised Closure Request* to document assessment, delineation, and soil sampling activities performed at the Mesa B #2 SWD (Site). The purpose of the Site assessment, delineation, and soil sampling activities was to assess for the presence or absence of impacted soil resulting from a historical produced water release at the Site. Based on field observations, additional delineation activities, and soil sample laboratory analytical results, BTA is submitting this *Revised Closure Request*, requesting no further action for Incident Number NOY1826826475.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit P, Section 7, Township 26 South, Range 33 East, in Lea County, New Mexico (32.05356°, -103.60563°) and is associated with oil and gas exploration and production operations on Private Land.

On September 11, 2018, internal corrosion in the pump vibration dampener caused the release of approximately 66 barrels (bbls) of produced water. The released fluids affected approximately 9,143 square feet of the well pad and flowed off-pad to the south along a dry drainage for approximately 300 feet. A vacuum truck was dispatched to the Site to recover free-standing fluids; approximately 30 bbls of produced water were recovered. BTA reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on September 20, 2018 and October 1, 2018 (revised). The release was assigned Remediation Permit Number (RP) Number 1RP-5202 and Incident Number NOY1826826475.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential Site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be between 51 and 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to

BTA Oil Producers, LLC Closure Request Mesa B #2 SWD Page 2 of 76

groundwater data is New Mexico Office of the State Engineer (NMOSE) well C-04547, located at the Site. The well was drilled to a depth of 112 feet during July 2021 and groundwater was encountered at a depth of 89.5 feet bgs. Following determination of depth to groundwater, the well was plugged and abandoned following NMOSE procedures. The referenced well records are included in Appendix A. All wells used for depth to groundwater determination are depicted on Figure 1.

The closest continuously flowing or significant watercourse is greater than 300 feet from 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)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 10,000 mg/kg

A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH applies to the top 4 feet of the pasture area that was impacted by the release, per NMAC 19.15.29.13.D (1) for the top 4 feet of areas that will be reclaimed following remediation.

SITE ASSESSMENT ACTIVITIES AND ANALYTICAL RESULTS

Between August 7 and November 21, 2023, Ensolum personnel were at the Site to evaluate the historical release extent based on information provided on the Form C-141, the documented release extent, and visual observations. No visible indications of the historical release were observed during the Site visit. Boreholes BH01 through BH05 were advanced via hand auger within the documented release extent to assess for the presence or absence of impacted soil resulting from the historical produced water release. 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 for the boreholes were logged on lithologic/soil sampling logs, which are included in Appendix B. Discrete delineation soil samples were collected from the boreholes at depths ranging from 0.5 feet to 4 feet below ground surface (bgs). Additionally, assessment soil samples SS01 through SS06 were collected around the historical release extent at a depth of 0.5 feet bgs to confirm the lateral extent of the surface release. The assessment and delineation 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 visits and a photographic log is included as Appendix C.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of the following chemicals of concern (COCs): BTEX following United States Environmental



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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 SM4500.

Laboratory analytical results for the delineation soil samples collected from boreholes BH01 through BH05, advanced within the historical release extent, indicated all COC concentrations were compliant with the Site Closure Criteria and reclamation requirements, where applicable. Additionally, the final depth delineation sample from boreholes BH01 through BH05 provided vertical delineation of the release to below the most stringent Table I Closure Criteria. Laboratory analytical results for assessment soil samples SS01 through SS06, collected around the historical release extent, indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria and defined the lateral extent of the release. Based on the laboratory analytical results, no further remediation is required at this time. Laboratory analytical results are summarized in Table 1 and the complete analytical reports are included as Appendix D.

CLOSURE REQUEST

Site assessment and delineation activities were conducted at the Site to assess for the presence or absence of impacted soil resulting from the September 11, 2018, release of produced water. Laboratory analytical results for the assessment and delineation soil samples indicated all COC concentrations were compliant with the Site Closure Criteria and reclamation requirements, where applicable. Additionally, the release was laterally and vertically delineated to the most stringent Table I Closure Criteria. Based on laboratory analytical results, no further remediation is required at this time. However, soil on the well pad exceeding the reclamation requirements of NMAC 19.15.29.13.D (1) will be removed during plugging and abandonment of the well and final reclamation of the well pad.

Initial response efforts and natural attenuation have mitigated impacts at this Site. Depth to groundwater is greater than 51 feet bgs and no sensitive receptors were identified near the release extent. BTA believes the remedial actions completed are protective of human health, the environment, and groundwater. As such, BTA respectfully requests closure for Incident Number NOY1826826475. Notifications submitted to the NMOCD are included in Appendix E and the final Form C-141 is included as 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

adrie Streen

Hadlie Green Project Geologist

cc: Kelton Beaird, BTA

mée Cole

Aimee Cole Senior Managing Scientist



BTA Oil Producers, LLC Closure Request Mesa B #2 SWD

Appendices:

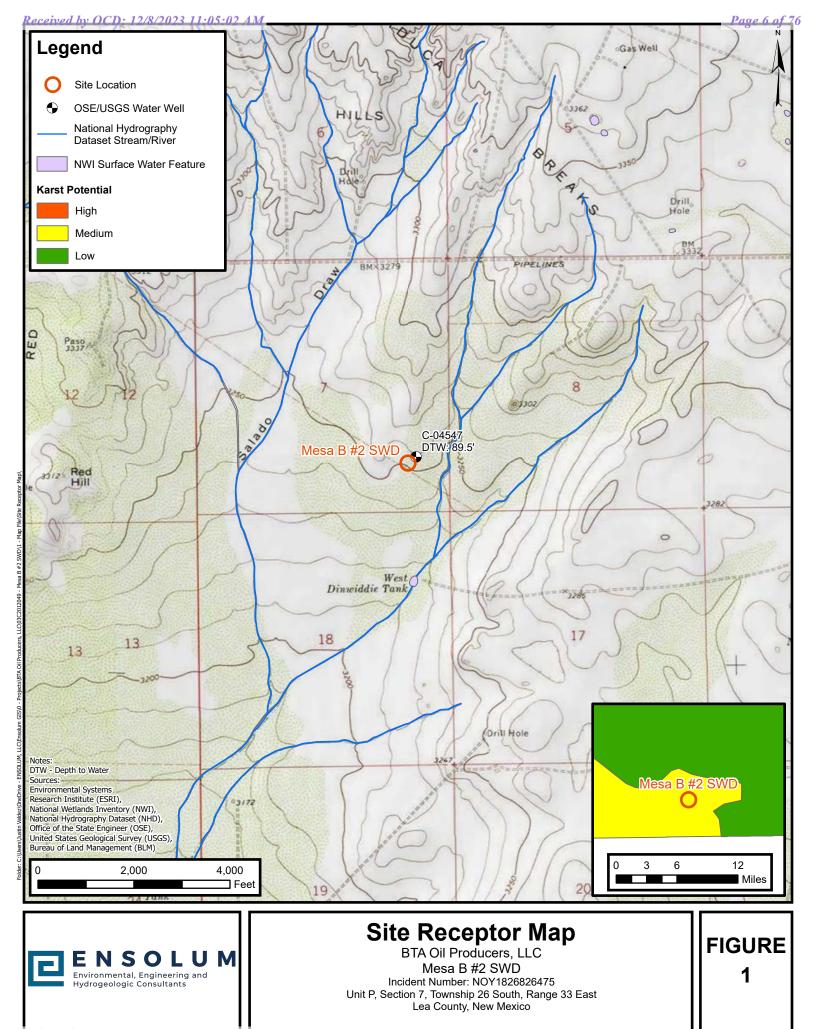
Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Table 1	Soil Sample Analytical Results
Appendix A	Referenced Well Records
Appendix B	Lithologic Soil Sampling Logs
Appendix C	Photographic Log
Appendix D	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix E	NMOCD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



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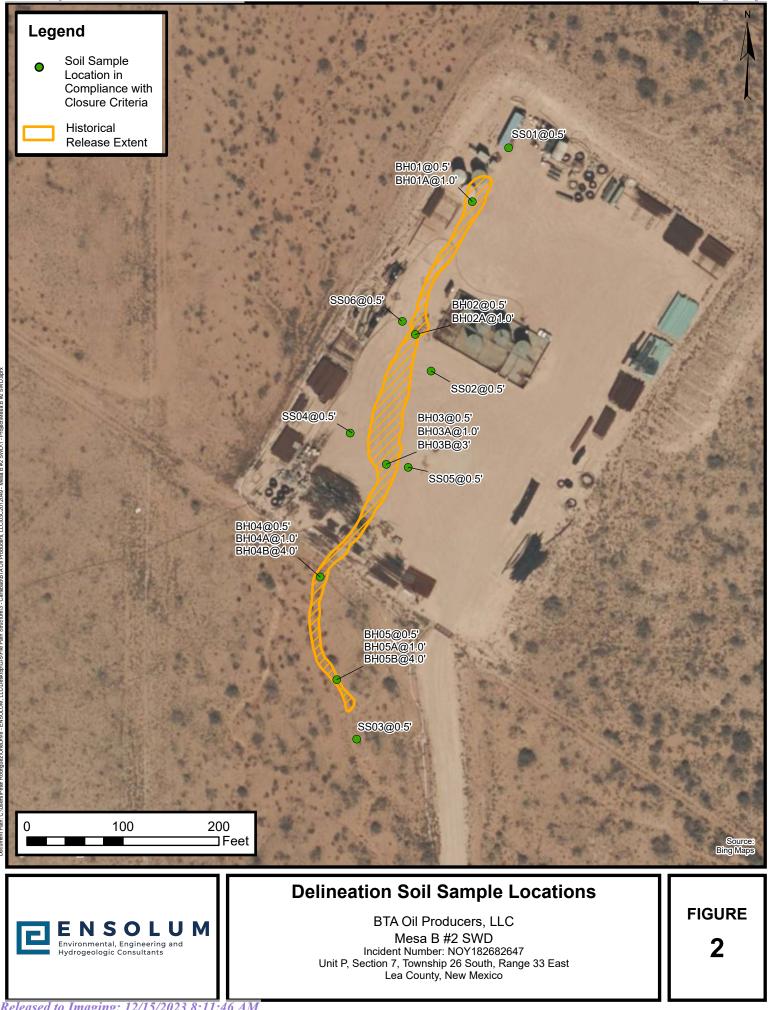


FIGURES



Released to Imaging: 12/15/2023 8:11:46 AM

Received by OCD: 12/8/2023 11:05:02 AM



Released to Imaging: 12/15/2023 8:11:46 AM



TABLES

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TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Mesa B #2 SWD 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 C	Closure Criteria	(NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	10,000
				Del	ineation Soil Sa	amples		I		
BH01	08/07/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
BH01A	08/07/2023	1.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
BH02	08/07/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	608
BH02A	08/07/2023	1.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	560
BH03	08/07/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,440
BH03A	08/07/2023	1.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,170
BH03B	11/21/2023	3.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
BH04*	08/07/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
BH04A*	08/07/2023	1.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
BH04B	08/16/2023	4.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
BH05*	08/07/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
BH05A*	08/07/2023	1.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
BH05B	08/16/2023	4.0	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
Assessment Soil Samples										
SS01	08/07/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SS02	08/07/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SS03*	08/07/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS04	08/07/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS05	11/16/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
SS06	11/16/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240

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

NA: Not Analyzed

* Indicates soil sample was collected in an area to be reclaimed following remediation.

Ensolum



APPENDIX A

Referenced Well Records



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

OSE OII AUG 2 2021 PM4:44

Z	OSE POD NO POD1 (M	•	.)		WELL TAG ID NO. n/a			OSE FILE NO(S). C-4547						
Ĩ														
GENERAL AND WELL LOCATION	WELL OWNI BTA Oil P)					PHONE (OPTIC	JNAL)					
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	WELL	T	DI	EGREES	MINUTES	SECOND		[
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	124	19			Jackie D. Atkins				Atkins Eng	ineering	Associates, In	nc.		
	DRILLING S		DRILLING ENDED		DMPLETED WELL (FT			LE DEPTH (FT)	DEPTH WATER FIRS					
	07/15/	2021	07/15/2021	tempo	rary well materia			112		unkno				
N	COMPLETE	MPLETED WELL IS: ARTESIAN C DRY HOLE SHALLOW (UNCONFINED)							STATIC WATER LEV	EL IN CO 89.5		LL (FT)		
ATIC	DRILLING F	LUID:	🗹 AIR		ADDITIVI	ES – SPECII	Y:							
2. DRILLING & CASING INFORMATION	DRILLING M	ETHOD:	ROTARY	HAMME	R 🗌 CABLE TO	<u><</u> ОТНЕ	R – SPECIFY:	Hollo	w Stem	Auger				
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ISASI			(inches)		note sections of screen) (add cou				(inches)	(i	inches)	(inches)		
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LOCATION 265-33E-07	4-4-2	WELL TAG ID NO. NA	PAGE 1 OF 2

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-	MISCELLAI	NEOUS INF	ORMATION: T					•	1		•		
PER			ce	mporary well m ment slurry of <	6.0 gal	lons of wat	er per 94 lbs	sack of	f Portland TY	PE I/I	e pipe to I Neat C	total dep ement. S	th and landed ee attached
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RIC													
EST													
5. T													
	Shane Eldridge, Cameron Pruitt, Carmelo Trevino												
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2021-07-28_C-4547_POD1_OSE_Well Record and Log_mesa1-for sign

Final Audit Report

2021-07-29

Created:	2021-07-29	OSE DIT AUG 2 2021 pm4:44
By:	Lucas Middleton (lucas@atkinseng.com)	
Status:	Signed	
Transaction ID:	CBJCHBCAABAA3aQOFUKeCXoHbozKpK1XeoMdl53lwclm	
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"2021-07-28_C-4547_POD1_OSE_Well Record and Log_mesa1 -for sign" History

- Document created by Lucas Middleton (lucas@atkinseng.com) 2021-07-29 8:40:54 PM GMT- IP address: 69.21.248.123
- Document emailed to Jack Atkins (jack@atkinseng.com) for signature 2021-07-29 8:41:43 PM GMT
- Email viewed by Jack Atkins (jack@atkinseng.com) 2021-07-29 - 8:43:29 PM GMT- IP address: 64.90.153.232
- Document e-signed by Jack Atkins (jack@atkinseng.com)
 Signature Date: 2021-07-29 8:44:00 PM GMT Time Source: server- IP address: 64.90.153.232
- Agreement completed. 2021-07-29 - 8:44:00 PM GMT





APPENDIX B

Lithologic Soil Sampling Logs

						Comula Nama, DU01	Dete: 0/7/2022
						Sample Name: BH01 Site Name: Mesa B #2 SWD	Date: 8/7/2023
	ΕN	I S	υL	. U	M	Incident Number: NOY1826826475	
			_		Job Number: 03C2012049	,	
		GIC / SOIL SA		106			Mathada Used Associ
Coordinates: 32.0				100		Logged By: Peter Van Patten Hole Diameter: 4"	Method: Hand Auger Total Depth: 1'
				ido Toct Stri	ns and DI	Hole Diameter: 4") for chloride and vapor, respective	
	-					ed. ND - Non Detect	y. Chionae test performed
Moisture Content Chloride (ppm)	Vapor (ppm)	staining Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Des	
Damp ND	0.0	N BH01	0.5	L 0	CHHE	Caliche: Pinkish tan, no stair graded, no stain, no odor	n, no odor
Damp ND	0.0	N BH01A	1	1	SP-SM	Sand: reddish brown, fine gr no stain, no odor	ain, poorly graded,
			-	-	1 foot b	NOTE: Auger refusal @ 1 foot bgs	

Sample Name: 1802 Date: 8/7/2023 Ste Name: Mesa #2 SVW Interdemt Ste Name: Mesa #2 SVW Introduction Introduction Coordinates: 32.053855, 103.60676 Logged By: Peter Van Paten Method: Hand Auger Coordinates: 32.053855, 103.60676 Hot Dimeter: 342 Total Depth: 2* Comments: Field screening conducted with HACH Chinde Test Strips and PID for chinde and vapor, respectively. Chinde test performs with 1:4 dilution factor of soil to distilled water. 40% correction factor included. ND - Non Detext and by the soil to distilled water. 40% correction factor included. ND - Non Detext and by the soil to distilled water. 40% correction factor included. ND - Non Detext and by the soil to distilled water. 40% correction factor included. ND - Non Detext and by the soil to distilled water. 40% correction factor included. ND - Non Detext and by the soil to distilled water. 40% correction factor included. ND - Non Detext and by the soil to distilled water. 40% correction factor included. ND - Non Detext and by the soil to distilled water. 40% correction factor included. ND - Non Detext and by the soil to distilled water. 40% correction factor included. ND - Non Detext and by the soil to distilled water. 40% correction factor include. ND - Non Detext and by the soil to distilled water. 40% correction factor include. ND - Non Detext Dam											
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Job Number: 03C2012049 LITHOLOGIC / SOIL SAMPLING LOG Logged By: Peter Van Patten Method: Hand Auger Coordinates: 32.053855,-103.605676 Hole Diameter: 4" Total Depth: 2' Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performe with 1:4 dilution factor of soil to distilled water. 40% correction factor included. ND - Non Detect Detect and the problem of the probl		ΕN	JS			M	Site Name: Mesa B #2 SWD				
LITHOLOGIC / SOIL SAMPLING LOGLogged By: Peter Van PattenMethod: Hand AugerCoordinates: 32.053855,-103.605676Hole Diameter: 4"Total Depth: 2'Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performewith 1:4 dilution factor of soil to distilled water. 40% correction factor included. ND - Non Detectand provide and provid											
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Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performe with 1:4 dilution factor of soil to distilled water. 40% correction factor included. ND - Non Detect and the strength of				AMPLING	LOG						
with 1:4 dilution factor of soil to distilled water. 40% correction factor included. ND - Non Detect and the second secon											
Damp8450.0NBH020.5III0CHHECaliche: Pinkish tan, no stain, no odorDamp8450.0NBH02A11SP-SMSand: reddish brown, fine grain, poorly graded, no stain, no odorDamp1,2710.0NIII1SP-SMSAA (same as above) NOTE: Auger refusal @ 2 feet bgs		-				•		ly. Chloride test performed			
Damp8450.0NBH020.5CHHECaliche: Pinkish tan, no stain, no odorDamp8450.0NBH02A11SP-SMSand: reddish brown, fine grain, poorly graded, no stain, no odorDamp1,2710.0N2SP-SMSAA (same as above) NOTE: Auger refusal @ 2 feet bgs	Moisture Content Chloride (ppm)	Vapor (ppm)	Staining Sample ID	Depth		USCS/Rock Symbol	Lithologic Des	scriptions			
Damp 1,271 0.0 N 2 SP-SM SAA (same as above) NOTE: Auger refusal @ 2 feet bgs	Damp 845	0.0	N BH02	0.5	0			n, no odor			
NOTE: Auger refusal @ 2 feet bgs	Damp 845	0.0	N BH02A	1	1	SP-SM		rain, poorly graded,			
	Damp 1,271	0.0	N	+	2	SP-SM	SAA (same as above)				
TD @ 2 feet bgs					-		NOTE: Auger refusal @ 2 feet bgs				

			Sample Name: BH03	Date: 8/7/23 & 11/21/23
	N S O L		Site Name: Mesa B #2 SWD	
	JUL		Incident Number: NOY18268264	75
			Job Number: 03C2012049	
	GIC / SOIL SAMPLING LOG		Logged By: Peter Van Patten	Method: Hand Auger
Coordinates: 32.053484,-1			Hole Diameter:	Total Depth: 3'
			PID for chloride and vapor, respec factor included. ND - Non Detect	tively. Chloride test
Moisture Content Chloride (ppm) Vapor (ppm)		bgs) (sgd Symbol	Lithologic De	scriptions
Damp 1,943 0.0	N BH03 0.5	0 CHHE	Caliche: Pinkish tan, no stai graded, no stain, no odor	n, no odor
Damp 1,579 0.0	N BH03A 1	1 SP-SM	Sand: reddish brown, fine g no stain, no odor	grain, poorly graded,
Damp <156.8 0.1	N BH03B 3	3 SP-SM	SAA	

							Consula Namas DUO4	Data: 0/7/2022		
							Sample Name: BH04	Date: 8/7/2023		
	L I	N	S	OL	. U	Μ	Site Name: Mesa B #2 SWD	75		
				-						
				AMPLING			Job Number: 03C2012049	Method: Hand Auger		
Coordinates: 32.0					100		Logged By: Peter Van Patten Hole Diameter:	Total Depth: 1'		
Comments: Field	screening	cond	lucted with			ps and PIE) for chloride and vapor, respecti ed. ND - Non Detect			
Moisture Content Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic D	escriptions		
Damp ND	0.0	N	BH04	0.5		SP-SM	Sand: reddish brown, fine no stain, no odor	grain, poorly graded,		
Damp ND	0.0	N	BH04A	1 _	1	SP-SM	SAA (same as above)			
Damp ND	0.0	N			2	SP-SM	SAA: well sorted			
Damp ND	0.0	N			3	SP-SM	SAA			
Damp ND	0.0	N	BH04B	4	4	SP-SM	SAA			
						4 feet b	g2			

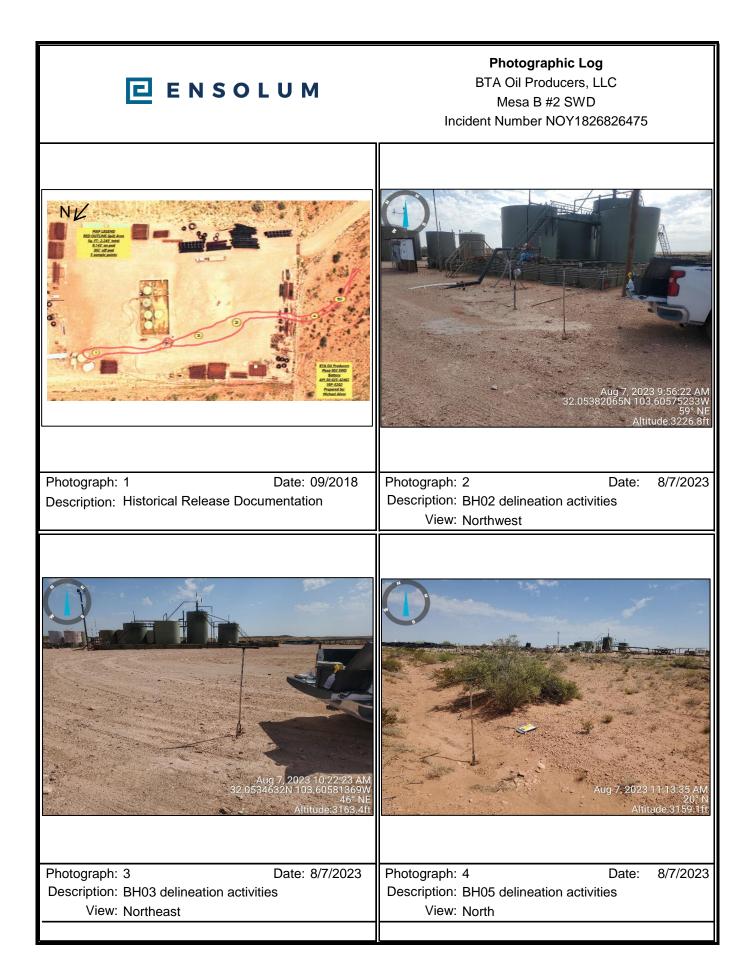
		_				_	Sample Name: BH05	Date: 8/7/2023		
	FI		S	Ο		Μ	Site Name: Mesa B #2 SWD			
						Incident Number: NOY1826826475				
							Job Number: 03C2012049			
				AMPLING		Logged By: Peter Van Patten	Method: Hand Auger			
Coordinates: 32.0							Hole Diameter:	Total Depth: 1'		
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chlo with 1:4 dilution factor of soil to distilled water. 40% correction factor included. ND - Non Detect										
Moisture Content Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic I	Descriptions		
Damp ND	0.0	N	BH05	0.5	L 0 -	SP-SM	Sand: reddish brown, fine no stain, no odor	e grain, poorly graded,		
Damp ND	0.0	Ν	BH05A	1	1	SP-SM	SAA (same as above)			
Damp ND	0.0	N		- - -	2	SP-SM	SAA: well sorted			
Damp ND	0.0	N		- - -	3	SP-SM	SAA			
Damp ND	0.0	N	BH05B	4	- - 4 -	SP-SM	SAA			
						4 feet b	-D-			



APPENDIX C

Photographic Log

Released to Imaging: 12/15/2023 8:11:46 AM





APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



August 14, 2023

HADLIE GREEN

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: MESA B #2 SWD

Enclosed are the results of analyses for samples received by the laboratory on 08/07/23 14:05.

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

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

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

Accreditation applies to public drinking water matrices.

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,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



	ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	08/07/2023	Sampling Date:	08/07/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	MESA B #2 SWD	Sampling Condition:	** (See Notes)
Project Number:	03C2012049	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.0513169654,-103.6062430032		

Sample ID: BH 01 .5' (H234181-01)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2023	ND	2.07	104	2.00	0.529	
Toluene*	<0.050	0.050	08/10/2023	ND	1.99	99.7	2.00	0.478	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	2.01	101	2.00	0.945	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	5.99	99.8	6.00	1.97	
Total BTEX	<0.300	0.300	08/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/09/2023	ND	400	100	400	7.69	
TPH 8015M	mg/	′kg	Analyze	d 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	168	84.1	200	7.33	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	176	87.9	200	8.56	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					
Surrogate: 1-Chlorooctane	83.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.6	% 49.1-14	o						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AV MIDLAND TX, 7970 Fax To:		
Received:	08/07/2023	Sampling Date:	08/07/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	MESA B #2 SWD	Sampling Condition:	** (See Notes)
Project Number:	03C2012049	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.0513169654,-103.6062430032		

Sample ID: BH 01 A 1' (H234181-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2023	ND	2.07	104	2.00	0.529	
Toluene*	<0.050	0.050	08/10/2023	ND	1.99	99.7	2.00	0.478	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	2.01	101	2.00	0.945	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	5.99	99.8	6.00	1.97	
Total BTEX	<0.300	0.300	08/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 %	6 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/09/2023	ND	400	100	400	7.69	
TPH 8015M	mg/	kg	Analyze	d 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	168	84.1	200	7.33	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	176	87.9	200	8.56	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					
Surrogate: 1-Chlorooctane	81.1 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.5 9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	ENSOLUM, LLC HADLIE GREEN 705 W WADLEY A' MIDLAND TX, 797 Fax To:		
Received:	08/07/2023	Sampling Date:	08/07/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	MESA B #2 SWD	Sampling Condition:	** (See Notes)
Project Number:	03C2012049	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.0513169654,-103.6062430032		

Sample ID: BH 02 .5' (H234181-03)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2023	ND	2.07	104	2.00	0.529	
Toluene*	<0.050	0.050	08/10/2023	ND	1.99	99.7	2.00	0.478	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	2.01	101	2.00	0.945	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	5.99	99.8	6.00	1.97	
Total BTEX	<0.300	0.300	08/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	08/09/2023	ND	400	100	400	7.69	
TPH 8015M	mg/	′kg	Analyze	d 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	168	84.1	200	7.33	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	176	87.9	200	8.56	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					
Surrogate: 1-Chlorooctane	83.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.6	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AV MIDLAND TX, 7970 Fax To:		
Received:	08/07/2023	Sampling Date:	08/07/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	MESA B #2 SWD	Sampling Condition:	** (See Notes)
Project Number:	03C2012049	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.0513169654,-103.6062430032		

Sample ID: BH 02 A 1' (H234181-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2023	ND	2.07	104	2.00	0.529	
Toluene*	<0.050	0.050	08/10/2023	ND	1.99	99.7	2.00	0.478	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	2.01	101	2.00	0.945	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	5.99	99.8	6.00	1.97	
Total BTEX	<0.300	0.300	08/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 %	6 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	08/09/2023	ND	400	100	400	7.69	
TPH 8015M	mg/	kg	Analyze	d 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	168	84.1	200	7.33	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	176	87.9	200	8.56	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					
Surrogate: 1-Chlorooctane	90.7 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	106 %	6 49.1-14	8						

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*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	ENSOLUM, LLC HADLIE GREEN 705 W WADLEY A' MIDLAND TX, 797 Fax To:		
Received:	08/07/2023	Sampling Date:	08/07/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	MESA B #2 SWD	Sampling Condition:	** (See Notes)
Project Number:	03C2012049	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.0513169654,-103.6062430032		

Sample ID: BH 03 .5' (H234181-05)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2023	ND	2.07	104	2.00	0.529	
Toluene*	<0.050	0.050	08/10/2023	ND	1.99	99.7	2.00	0.478	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	2.01	101	2.00	0.945	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	5.99	99.8	6.00	1.97	
Total BTEX	<0.300	0.300	08/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1440	16.0	08/09/2023	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d 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	168	84.1	200	7.33	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	176	87.9	200	8.56	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					
Surrogate: 1-Chlorooctane	78.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.3	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	08/07/2023	Sampling Date:	08/07/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	MESA B #2 SWD	Sampling Condition:	** (See Notes)
Project Number:	03C2012049	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.0513169654,-103.6062430032		

Sample ID: BH 03 A 1' (H234181-06)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2023	ND	2.07	104	2.00	0.529	
Toluene*	<0.050	0.050	08/10/2023	ND	1.99	99.7	2.00	0.478	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	2.01	101	2.00	0.945	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	5.99	99.8	6.00	1.97	
Total BTEX	<0.300	0.300	08/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	08/09/2023	ND	400	100	400	7.69	
TPH 8015M	mg/	kg	Analyze	d 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	168	84.1	200	7.33	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	176	87.9	200	8.56	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					
Surrogate: 1-Chlorooctane	88.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102 9	6 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	ENSOLUM, L HADLIE GRE 705 W WAD MIDLAND TX Fax To:	EN LEY AVE.	
Received:	08/07/2023	Sampling Date:	08/07/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	MESA B #2 SWD	Sampling Condition:	** (See Notes)
Project Number:	03C2012049	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.0513169654,-103.606243	0032	

Sample ID: BH 04 .5' (H234181-07)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2023	ND	2.07	104	2.00	0.529	
Toluene*	<0.050	0.050	08/10/2023	ND	1.99	99.7	2.00	0.478	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	2.01	101	2.00	0.945	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	5.99	99.8	6.00	1.97	
Total BTEX	<0.300	0.300	08/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/09/2023	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d 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	168	84.1	200	7.33	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	176	87.9	200	8.56	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					
Surrogate: 1-Chlorooctane	87.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AV MIDLAND TX, 7970 Fax To:		
Received:	08/07/2023	Sampling Date:	08/07/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	MESA B #2 SWD	Sampling Condition:	** (See Notes)
Project Number:	03C2012049	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.0513169654,-103.6062430032		

Sample ID: BH 04 A 1' (H234181-08)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2023	ND	2.01	101	2.00	2.27	
Toluene*	<0.050	0.050	08/10/2023	ND	1.92	95.8	2.00	1.39	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	1.92	96.2	2.00	1.43	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	5.68	94.6	6.00	0.600	
Total BTEX	<0.300	0.300	08/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 %	6 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/09/2023	ND	400	100	400	7.69	
TPH 8015M	mg/	kg	Analyze	d 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	168	84.1	200	7.33	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	176	87.9	200	8.56	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					
Surrogate: 1-Chlorooctane	91.6	48.2-13	4						
Surrogate: 1-Chlorooctadecane	106 9	6 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	ENSOLUM, L HADLIE GRE 705 W WADI MIDLAND TX Fax To:	EN LEY AVE.	
Received:	08/07/2023	Sampling Date:	08/07/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	MESA B #2 SWD	Sampling Condition:	** (See Notes)
Project Number:	03C2012049	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.0513169654,-103.6062430	0032	

Sample ID: BH 05 .5' (H234181-09)

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2023	ND	2.01	101	2.00	2.27	
Toluene*	<0.050	0.050	08/10/2023	ND	1.92	95.8	2.00	1.39	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	1.92	96.2	2.00	1.43	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	5.68	94.6	6.00	0.600	
Total BTEX	<0.300	0.300	08/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/09/2023	ND	400	100	400	7.69	
TPH 8015M	mg/	′kg	Analyze	d 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	168	84.1	200	7.33	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	176	87.9	200	8.56	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					
Surrogate: 1-Chlorooctane	74.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.4	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	ENSOLUM, LLC HADLIE GREEN 705 W WADLEY A' MIDLAND TX, 797 Fax To:		
Received:	08/07/2023	Sampling Date:	08/07/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	MESA B #2 SWD	Sampling Condition:	** (See Notes)
Project Number:	03C2012049	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.0513169654,-103.6062430032		

Sample ID: BH 05 A 1' (H234181-10)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2023	ND	2.01	101	2.00	2.27	
Toluene*	<0.050	0.050	08/10/2023	ND	1.92	95.8	2.00	1.39	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	1.92	96.2	2.00	1.43	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	5.68	94.6	6.00	0.600	
Total BTEX	<0.300	0.300	08/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/09/2023	ND	400	100	400	7.69	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/11/2023	ND	168	84.1	200	7.33	
DRO >C10-C28*	<10.0	10.0	08/11/2023	ND	176	87.9	200	8.56	
EXT DRO >C28-C36	<10.0	10.0	08/11/2023	ND					
Surrogate: 1-Chlorooctane	82.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.1	% 49.1-14	0						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVI MIDLAND TX, 7970 Fax To:		
Received:	08/07/2023	Sampling Date:	08/07/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	MESA B #2 SWD	Sampling Condition:	** (See Notes)
Project Number:	03C2012049	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.0513169654,-103.6062430032		

Sample ID: SS 01 .5' (H234181-11)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2023	ND	2.01	101	2.00	2.27	
Toluene*	<0.050	0.050	08/10/2023	ND	1.92	95.8	2.00	1.39	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	1.92	96.2	2.00	1.43	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	5.68	94.6	6.00	0.600	
Total BTEX	<0.300	0.300	08/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/09/2023	ND	400	100	400	7.69	
TPH 8015M	mg/	/kg	Analyze	d 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	168	84.1	200	7.33	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	176	87.9	200	8.56	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					
Surrogate: 1-Chlorooctane	89.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVI MIDLAND TX, 7970 Fax To:		
Received:	08/07/2023	Sampling Date:	08/07/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	MESA B #2 SWD	Sampling Condition:	** (See Notes)
Project Number:	03C2012049	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.0513169654,-103.6062430032		

Sample ID: SS 02 .5' (H234181-12)

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2023	ND	2.01	101	2.00	2.27	
Toluene*	<0.050	0.050	08/10/2023	ND	1.92	95.8	2.00	1.39	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	1.92	96.2	2.00	1.43	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	5.68	94.6	6.00	0.600	
Total BTEX	<0.300	0.300	08/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/09/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d 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	168	84.1	200	7.33	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	176	87.9	200	8.56	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					
Surrogate: 1-Chlorooctane	83.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.3	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AV MIDLAND TX, 7970 Fax To:		
Received:	08/07/2023	Sampling Date:	08/07/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	MESA B #2 SWD	Sampling Condition:	** (See Notes)
Project Number:	03C2012049	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.0513169654,-103.6062430032		

Sample ID: SS 03 .5' (H234181-13)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2023	ND	2.01	101	2.00	2.27	
Toluene*	<0.050	0.050	08/10/2023	ND	1.92	95.8	2.00	1.39	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	1.92	96.2	2.00	1.43	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	5.68	94.6	6.00	0.600	
Total BTEX	<0.300	0.300	08/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
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	08/09/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d 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	168	84.1	200	7.33	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	176	87.9	200	8.56	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					
Surrogate: 1-Chlorooctane	63.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	72.3	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

	ENSOLUM, L HADLIE GRE 705 W WADI MIDLAND TX Fax To:	EN LEY AVE.	
Received:	08/07/2023	Sampling Date:	08/07/2023
Reported:	08/14/2023	Sampling Type:	Soil
Project Name:	MESA B #2 SWD	Sampling Condition:	** (See Notes)
Project Number:	03C2012049	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.0513169654,-103.6062430	0032	

Sample ID: SS 04 .5' (H234181-14)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2023	ND	2.01	101	2.00	2.27	
Toluene*	<0.050	0.050	08/10/2023	ND	1.92	95.8	2.00	1.39	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	1.92	96.2	2.00	1.43	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	5.68	94.6	6.00	0.600	
Total BTEX	<0.300	0.300	08/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/09/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d 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	173	86.7	200	0.0963	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	182	90.8	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					
Surrogate: 1-Chlorooctane	81.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.2	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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orrected Temp.	mple Condition	0.			-	•
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Received by OCD: 12/8/2023 11:05:02 AM

Company Name: E	Encolum LIC		BILL TO	-		ANALVSIS RECHEST
Project Manager: Hadlic (Idlie Green		P.O. #:			
Address: GOI N.	N. Marianfeld St #1100		NY: BTA	0.1		
5	State:TK	Zip: 79701	20	yind		
Phone #: 432-557-8895	7-8895 Fax#:		Address: 104 5. Pews St	大 5		
Project #: 0302012019	C(2019 Project Owner:		city: Midland			
Project Name: Mes	Mex B #Z JUD		~. I	79701	×	
Project Location: 32	Project Location: 32,05/3/69654,-103.6	-103.6062430032 F	Phone #: 432-312-2203	2203		
Sampler Name: Per	Peter Van Patter,		Fax #:		,	
FOR LAB USE ONLY	5	P. MATRIX	ESERV.	SAMPLING	es	
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PLEASE NOTE: Liability and Damages. Cardinal's analyses. All claims including those for negligence	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatboover shall be deemed waived unless made in waiting and reaction which to the amount paid by the client for the	C r ny claim arising whether based in contract or tort deemed waived unless made in writing and receive	oried by Cardinal which To Annu Rev		K	
Relinquis field By:	sing out of or related to the performance of services hereunder by C Str. Date:	anvices hereunder by Cardinal, regardless of whether such claim, "visiod upon any of the above stated reasons or otherwise. Date:	of use, or loss of profits incurred by cli assed upon any of the above stated rea	ent, its subsidiaries, sons or otherwise. Verbal Result:	Yes Yo A	Add'l Phone 🔅
Relinquished By:	F Time: 1405 Date:	Received By:	Melat	REMARKS:	REMARKS: COOPULATION COM	on plant 0.70
Delivered By: (Circle One)	Observed Temp. °	C JSI Sample Condition	CHECKED BY: (Initials)	Turnaround Time:	Standard Rush	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C
Sampler - UPS - Bus - Other	Other: Corrected Temp. "C	No No No	40	Thermometer ID #140 Correction Factor 0°C		

. Released to Imaging: 12/15/2023 8:11:46 AM

Page 39 of 76

101 East Marland, Hobbs, NM 88240 a't 0 IPS

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	COTT	Ubse	2			
† Cardinal	Corrected Temp. C	Observed Temp. °C	Time:	Date:	Ilme: NOS	8-7-23
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† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com	Correction Factor 0°C	Turnaround Time:		REMARKS:	horeen	All Results are emailed. Ploase provide Email address:
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- 1						1

Received by	OCD:	12/8/2023	11:05:02	4 <i>M</i>

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Relinquished By:

Sampler - UPS - Bus - Other:

Delivered By: (Circle One)

+	BILL TO	ANALYSIS REQUEST	
Project Manager: Hocklice Green	P.O. #:		
Address: 661 N. Maricuseld St #400	Company: BTK Oil		
5	Attn: Kelton Braint		
	Address: 104 S. Rews St		
Project #: 03C 2017049 Project Owner:	city: Midland		
Project Name: Mesa P#2 SWD	State: TX Zip: 79701		
Project Location: 32,0513169654,-102,6062430037	Phone #: 432-312-2203		
	Fax #:		_
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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or bot shall be limited to the amount had be the client for the	r tort shall be limited to the amount out he the client for		
analyses. All claims including those for negligence and any other cause whatboever shall be deemed waiwed 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 herv, merr by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or chewwise	received by Cardinal within 30 days after completion of the se of use, or loss of profits incurred by client, its subsidia based upon any of the above stated reacons or otherweiter based upon any of the above stated reacons or otherweiter based upon any of the above stated reacons or otherweiter based upon any of the above stated reacons or otherweiter based upon any of the above stated reacons or otherweiter based upon any of the above stated reacons or otherweiter based upon any otherweiter based	the applicable aries, iso	
Relinquished By: Date: Received By:	MIII Verbal Result:	sult: D Yes D No Add'I Phone #:	

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Page 18 of 18

Page 40 of 76



August 22, 2023

HADLIE GREEN

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: MESA B #2 SWD

Enclosed are the results of analyses for samples received by the laboratory on 08/16/23 12:30.

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

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

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

Accreditation applies to public drinking water matrices.

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,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



Analytical Results For:

	ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	08/16/2023	Sampling Date:	08/16/2023
Reported:	08/22/2023	Sampling Type:	Soil
Project Name:	MESA B #2 SWD	Sampling Condition:	Cool & Intact
Project Number:	03C2012049	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.0513169654,-103.6062430032		

Sample ID: BH 04 B 4' (H234427-01)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2023	ND	2.03	102	2.00	3.35	
Toluene*	<0.050	0.050	08/17/2023	ND	1.92	95.8	2.00	2.88	
Ethylbenzene*	<0.050	0.050	08/17/2023	ND	2.00	99.8	2.00	2.43	
Total Xylenes*	<0.150	0.150	08/17/2023	ND	5.92	98.7	6.00	2.77	
Total BTEX	<0.300	0.300	08/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/17/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2023	ND	197	98.3	200	5.17	
DRO >C10-C28*	<10.0	10.0	08/17/2023	ND	185	92.4	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	08/17/2023	ND					
Surrogate: 1-Chlorooctane	72.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	74.6	% 49.1-14	0						

Cardinal Laboratories

*=Accredited Analyte

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

	ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	08/16/2023	Sampling Date:	08/16/2023
Reported:	08/22/2023	Sampling Type:	Soil
Project Name:	MESA B #2 SWD	Sampling Condition:	Cool & Intact
Project Number:	03C2012049	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.0513169654,-103.6062430032		

Sample ID: BH 05 B 4' (H234427-02)

BTEX 8021B	mg/	'kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2023	ND	2.03	102	2.00	3.35	
Toluene*	<0.050	0.050	08/17/2023	ND	1.92	95.8	2.00	2.88	
Ethylbenzene*	<0.050	0.050	08/17/2023	ND	2.00	99.8	2.00	2.43	
Total Xylenes*	<0.150	0.150	08/17/2023	ND	5.92	98.7	6.00	2.77	
Total BTEX	<0.300	0.300	08/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/17/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2023	ND	197	98.3	200	5.17	
DRO >C10-C28*	<10.0	10.0	08/17/2023	ND	185	92.4	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	08/17/2023	ND					
Surrogate: 1-Chlorooctane	69.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	69.9	% 49.1-14	8						

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*=Accredited Analyte

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

101 East Marland, Hobbs, NM 88240	1 East Marland, Hobbs, NM 88240		
Company Name: Ensolum. LLC		BILL TO	ANALYSIS REQUEST
Project Manager: HAdiu Gra	Green	P.O. #: 030201204	e
	400	Company: ISTA	
City: Midland	State: TX Zip: 79701	Attn: Kelton Beard	
Ð	Fax #:	Address: 104 5 Pecos	
Project #: 0502012049	Project Owner: Enolym	city: Mudland	
Project Name: MEJA 6#2 S		State: TX Zip: 79701	
Project Location:		Phone #:	50
Sampler Name: Hadlu Gran		Fax #:	21
	MATRIX	PRESERV. SAMPLING	>1:
Lab I.D. Sample I.D.	(feet) Oppth (G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER : ACID/BASE: ICE / COOL OTHER :	TPH PC
ghong 1 Shong	-	×	
2 8Hose	1	S201 \$1.41-6 X	
PLEASE NOTE: Liability and Damages. Cardina's liability and analyses. All claims including those for negligence and any ot service. In no event shall Cardinal be liable for incidental or co	B 9 9.	ct or fort, shall be ilmited to the amount paid by the ind received by Cardinal within 30 days after com to loss of use, or loss of profits incurred by client, b, loss of use, or loss of the other states of the states of th	he client for the applicable subsidiaries,
aritiates or successors aring out of or related to the performance Relinquished By: Manue Grow	Time: 1230	teceived By:	Verbal Result: Yes No Add'I Phone #: All Results are emailed. Please provide Email address: BJennings@ensolum.com
Relinquished By:	Date: Received By: Time:	R	REMARKS:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. "C 38 Sample Condition Corrected Temp. "C 38 Cool/ Intact Corrected Temp. "C 38 Yes No No No	CHECKED BY: (Initials)	Turnaround Time: Standard Ma Bacteria (only) Sample Condition Themometer ID #113 HULD Cool Intact Observed Temp. °C Corrected Temp. °C Corrected Temp. °C
FURM-006 K 3.2 10/07/21	+ Cardinal cannot accept verbal ch	anges. Please email change	

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ARDINAL aboratories

Page 5 of 5

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



November 20, 2023

AIMEE COLE ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD, NM 88220

RE: MESA B #2 SWD

Enclosed are the results of analyses for samples received by the laboratory on 11/16/23 9:13.

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

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

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

Accreditation applies to public drinking water matrices.

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,

Whe Singh

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



32.05356 , -103.60563

Analytical Results For:

		ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HW CARLSBAD NM, 88220 Fax To:	Y	
Received:	11/16/2023		Sampling Date:	11/10/2023
Reported:	11/20/2023		Sampling Type:	Soil
Project Name:	MESA B #2 SWD		Sampling Condition:	Cool & Intact
Project Number:	03C2012049		Sample Received By:	Shalyn Rodriguez

Sample ID: SS 05 0.5 (H236265-01)

Project Location:

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	11/17/2023	ND	1.98	99.1	2.00	1.65	
Toluene*	<0.050	0.050	11/17/2023	ND	1.92	96.2	2.00	6.42	
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	2.02	101	2.00	7.60	
Total Xylenes*	<0.150	0.150	11/17/2023	ND	6.11	102	6.00	8.22	
Total BTEX	<0.300	0.300	11/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	11/17/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10*	<10.0	10.0	11/17/2023	ND	202	101	200	1.37	
DRO >C10-C28*	<10.0	10.0	11/17/2023	ND	188	94.2	200	0.739	
EXT DRO >C28-C36	<10.0	10.0	11/17/2023	ND					
Surrogate: 1-Chlorooctane	91.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.5	% 49.1-14	0						

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*=Accredited Analyte

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Mite Sugar

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



Analytical Results For:

		ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HW CARLSBAD NM, 88220 Fax To:	Y	
Received:	11/16/2023		Sampling Date:	11/10/2023
Reported:	11/20/2023		Sampling Type:	Soil
Project Name:	MESA B #2 SWD		Sampling Condition:	Cool & Intact
Project Number:	03C2012049		Sample Received By:	Shalyn Rodriguez
Project Location:	32.05356 , -103.605	63		

Sample ID: SS 06 0.5 (H236265-02)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/17/2023	ND	1.98	99.1	2.00	1.65	
Toluene*	<0.050	0.050	11/17/2023	ND	1.92	96.2	2.00	6.42	
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	2.02	101	2.00	7.60	
Total Xylenes*	<0.150	0.150	11/17/2023	ND	6.11	102	6.00	8.22	
Total BTEX	<0.300	0.300	11/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	11/17/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/17/2023	ND	202	101	200	1.37	
DRO >C10-C28*	<10.0	10.0	11/17/2023	ND	188	94.2	200	0.739	
EXT DRO >C28-C36	<10.0	10.0	11/17/2023	ND					
Surrogate: 1-Chlorooctane	77.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	73.5	% 49.1-14	8						

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*=Accredited Analyte

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Mite Sugar

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



Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
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 SM4500CI-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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Mite Sugar

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

PrESE NOTE: Linking and Demager. Cardinate inbidity and clients uncludes and any other cause whethere are supported by and the set of the set o	14 C National 14 C National 1720-384-7365 0362012049 me: M454 B #2 5 cation: 32, 05356 - ame: Peter Van Fult Max 5506 5506	DOP East Marta [5] 393-232 olum, LLC
any chain asing whether based in contract for text shall be inhered in text completely be about to the sphere distribution whether and believes based uncompletely. Constrained within 36 days during only the schere based of the sphere distribution. The completion of the sphere distribution within the sectors within the sectors whether whether sub-about based uncom any of the above shaled response or inference. Received By: Arresults and believes based uncom any of the above shaled response or inference. Received By: Arresults and believes based uncom any of the above shaled response or inference. Received By: Arresults any of the above shaled response or inference. Received By: Arresults any of the above shaled response or inference. Received By: Arresults any of the above shaled response or inference. Received By: Arresults are on a complex of the above shaled response or inference. Received By: Arresults are on a complex of the above shaled response or inference. Received By: Cool infact Cool infact CHECKED BY: Tornaround Time: Tornaround Time: No No No No	C C (G)RAB OR (C)OMP. C C (G)RAB OR (C)OMP.	Po.*
In Yes IPNo AddT Phone #: allod. Please provide Email address: CUSO UUV. COM, Agran & Cuso Uuv. Com Rush Rush Bacteria (only) Sample Condition Cool Intact Cool Intact Observed Temp. vc Descritinaliabsnim.com	Chlorides	F-CUSTODY AND ANALYSIS REQUEST

Received by OCD: 12/8/2023 11:05:02 AM





November 27, 2023

HADLIE GREEN

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: MESA B #2 SWD/NOY 1826826475

Enclosed are the results of analyses for samples received by the laboratory on 11/21/23 13:50.

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

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

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

Accreditation applies to public drinking water matrices.

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,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



Analytical Results For:

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

Received:	11/21/2023	Sampling Date:	11/21/2023
Reported:	11/27/2023	Sampling Type:	Soil
Project Name:	MESA B #2 SWD/NOY 1826826475	Sampling Condition:	Cool & Intact
Project Number:	03C2012049	Sample Received By:	Dionica Hinojos
Project Location:	BTA - LEA COUNTY, NM		

Sample ID: BH 03 B 3' (H236341-01)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	11/22/2023	ND	2.00	100	2.00	2.17	
Toluene*	<0.050	0.050	11/22/2023	ND	2.10	105	2.00	2.70	
Ethylbenzene*	<0.050	0.050	11/22/2023	ND	2.11	106	2.00	2.18	
Total Xylenes*	<0.150	0.150	11/22/2023	ND	6.35	106	6.00	2.67	
Total BTEX	<0.300	0.300	11/22/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	117	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/22/2023	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	11/22/2023	ND	216	108	200	3.21	
DRO >C10-C28*	<10.0	10.0	11/22/2023	ND	203	101	200	5.90	
EXT DRO >C28-C36	<10.0	10.0	11/22/2023	ND					
Surrogate: 1-Chlorooctane	73.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	68.8	% 49.1-14	0						

Cardinal Laboratories

*=Accredited Analyte

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Received by OCD: 12/8/2023 11:05:02 AM

Delivered By: (Circle One) Sampler - UPS - Bus - Ott	Keiinquisned By:	And h	analyses. All claims including those for negligence and service. In no event shall Cardinal be liable for incidential service. In no event shall Cardinal be liable for incidential "Matters or successors arising out of or related to the perf									-	HCOLPH	Lab I.D.	FOR LAB USE ONLY	Sampler Name:	Project Location:	Project Name:	Project #: 03C2	Phone #: 432-557-8895	City: Midland	Address: 601 N	Project Manager: Hadlie Green	Company Name: Ensolum, LLC		
her:		HUN	to cuarrages. Currorials initiality and crients extra 1g those for negligence and any other cause wh ardinal be liable for incidential or consequential d 1g out of or reliated to the performance of service	7					140	Ntt	/	64-03-6	51233	Sample I.D.		NKD	" Led Loughy	Mesa B #2 SWD/NOY1826826475	03C2012049	7-8895		Address: 601 N Marienfeld Street, Suite 400	r: Hadlie Green	: Ensolum, LLC	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476	abora
Observed Temp. *C Corrected Temp. *C	Date: Time:	WF	r cause whatoever shall be deemed equental damages, including without or of services hereunder by Cardinal,				A.	W/N				ų	2	Depth (feet)			MM	r1826826475	Project Owner:	Fax #:	State: TX	uite 400			Hobbs, NM 88 FAX (575) 393-2	ratories
1.70C Sample Condition Cool Intact Types Yes	Received By:		ny ciaim ansing whether based in contr deemed waived unless made in witing i without limitation, business interruption ardinal, regardless of whether such cla	F					/			R X	(# 0 GF W/ SC	L	MATRIX				r: BTA Oil Producers		Zip: 79701				240 476	N
Ves (Initials)		.1	markers. All claims briefording those currents is interior and clients exclusive remedy for any dama marking whether based in contract or tot, shall be limited to the amount paid by the client to the markers. All claims in brokens of the negleptice and any other current while the element waived unless made in writing and received by Cardinal Whith 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidential or consequential damages, including whout limitation, tioss of use, or loss of profits incurred by the client, its subsidiaries, affinisms or suppressors whiting 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 schemes.		1211		/					V 11/2/23		UDGE THER : DD/BASE: E / COOL	PRESERV SAM	Fax #:	Phone #: 575-390-2828	State: Tx Zip: 79	City: Midland	Address: 104 S Pecos St	Attn: Kelton Beaird	Company: BTA Oil Producers	P.O. #:	BILL TO	c	
Turnaround Time: Standard Rush	REMARKS:	ult: □ Yes are emailed. Ple	paid by the client for the after completion of the applicable by client, its subsidiaries, 3 reasons or otherwise.	5		/						1112 1 1 1 1	TIME		SAMPLING 0 1	5		79701		los St		oducers				
		No Add'l Phone #: ase provide Email address:			/																			ANALYSIS RE		סטדטטין אוש אושאב ושט אבעטבטו
Bacteria (only) Sample Condition Cool Intact Observed Temp. °C																								REQUEST		

Page 4 of 4



APPENDIX E

NMOCD Notifications

Released to Imaging: 12/15/2023 8:11:46 AM

From:	Wells, Shelly, EMNRD
To:	Hadlie Green
Cc:	<u>Bratcher, Michael, EMNRD; Maxwell, Ashley, EMNRD; Hamlet, Robert, EMNRD; Hall, Brittany, EMNRD; Harimon, Jocelyn, EMNRD</u>
Subject:	RE: [EXTERNAL] BTA - Sampling Notification - Week of 08/07/2023
Date:	Thursday, August 3, 2023 2:47:10 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<u>|Shelly.Wells@emnrd.nm.gov</u> 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

elly, EMNRD
reen
Michael, EMNRD; Maxwell, Ashley, EMNRD
ERNAL] BTA - Sampling Notification - Mesa B #2 SWD (Incident Number NOY1826826475)
ay, November 15, 2023 12:56:07 PM
<u>1.png</u>
2.png
<u>3.png</u>
<u>4.png</u>

[**EXTERNAL EMAIL**]

Hi Hadlie,

The OCD has received your notification. Notification requirements are **two full 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. If less than 2 days' notice continues to be given, this variance will not be approved.

Thank you,

Shelly

Shelly Wells * Environmental Specialist-Advanced Environmental Bureau 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, November 15, 2023 1:47 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Subject: [EXTERNAL] BTA - Sampling Notification - Mesa B #2 SWD (Incident Number NOY1826826475)

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 location on Friday, November 17, 2023.

• Mesa B #2 SWD / NOY1826826475

- Sampling Date: 11/17/2023 @ 9:00 AM MST
- GPS: 32.05356, -103.60563

Thank you,



Hadlie Green Project Geologist 432-557-8895 hgreen@ensolum.com Ensolum, LLC

<u> Iaxwell, Ashley, EMNRD</u>
ling Notification - Mesa B #2 SWD (Incident Number NOY1826826475)
9:34:21 AM

[**EXTERNAL EMAIL**]

Hi Hadlie,

Thank you for providing the 2 days business notice of the update. No variance is needed. 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 Environmental Bureau EMNRD-Oil Conservation Division 1220 S. St. Francis Drive|Santa Fe, NM 87505 (505)469-7520<u>|Shelly.Wells@emnrd.nm.gov</u> http://www.emnrd.state.nm.us/OCD/

From: Hadlie Green <hgreen@ensolum.com>
Sent: Friday, November 17, 2023 7:59 AM
To: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Maxwell, Ashley, EMNRD
<Ashley.Maxwell@emnrd.nm.gov>
Subject: RE: [EXTERNAL] BTA - Sampling Notification - Mesa B #2 SWD (Incident Number NOY1826826475)

Good morning Shelly,

Site activities at the Mesa B #2 SWD have been delayed. With your approval, BTA requests a confirmation sampling date variance of Tuesday, November 21, 2023.

- Mesa B #2 SWD / NOY1826826475
 - Sampling Date: 11/17/2023 @ 9:00 AM MST

• GPS: 32.05356, -103.60563

Thank you,



Hadlie Green Project Geologist 432-557-8895 hgreen@ensolum.com Ensolum, LLC

From: Wells, Shelly, EMNRD <<u>Shelly.Wells@emnrd.nm.gov</u>>
Sent: Wednesday, November 15, 2023 2:56 PM
To: Hadlie Green <<u>hgreen@ensolum.com</u>>
Cc: Bratcher, Michael, EMNRD <<u>mike.bratcher@emnrd.nm.gov</u>>; Maxwell, Ashley, EMNRD
<<u>Ashley.Maxwell@emnrd.nm.gov</u>>
Subject: RE: [EXTERNAL] BTA - Sampling Notification - Mesa B #2 SWD (Incident Number
NOY1826826475)

[**EXTERNAL EMAIL**]

Hi Hadlie,

The OCD has received your notification. Notification requirements are **two full 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. If less than 2 days' notice continues to be given, this variance will not be approved.

Thank you,

Shelly

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

From: Hadlie Green <<u>hgreen@ensolum.com</u>>
Sent: Wednesday, November 15, 2023 1:47 PM

To: Enviro, OCD, EMNRD <<u>OCD.Enviro@emnrd.nm.gov</u>>

Subject: [EXTERNAL] BTA - Sampling Notification - Mesa B #2 SWD (Incident Number NOY1826826475)

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 location on Friday, November 17, 2023.

- Mesa B #2 SWD / NOY1826826475
 - Sampling Date: 11/17/2023 @ 9:00 AM MST
 - GPS: 32.05356, -103.60563

Thank you,

Hadlie Green
Project Geologist
432-557-8895
hgreen@ensolum.com
Ensolum, LLC
in f У

Released to Imaging: 12/15/2023 8:11:46 AM



APPENDIX F

Form C-141

Released to Imaging: 12/15/2023 8:11:46 AM

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	NOY1826826475
District RP	1RP-5202
Facility ID	
Application ID	pOY1826825549

Release Notification

Responsible Party

Responsible Party BTA Oil Producers	OGRID 260297	
Contact Name John Allen	Contact Telephone 432-701-5808	
Contact email jallen@btaoil.com	Incident # NOY1826826475	

Location of Release Source

Latitude: 32.053884 Longitude: -103.605645

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Mesa B #2 SWD	Site Type: SWD Battery
Date Release Discovered: 9/11/18	AP1# (if applicable): 30-025-42462

Unit Letter	Section	Township	Range	County
P	7	268	33E	Lea

Surface Owner: State Federal Tribal Private (Name: Charlotte W. Schuman Living Trust of October 5, 1988 Karlyn S. Doyle and Charlotte W. Schuman, Co-Trustees, 2121 Yorktown, #305, Tulsa, OK 74114, 918-747-7703)

Nature and Volume of Release

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls): Area of spill on pad $(9,143 \text{ ft}^2)^*$ Average depth of spill (0.25 ft) * Soil porosity (0.15) + Length of spill off pad (302 ft) * Average width of spill off pad (0.6 ft) * Depth of spill off pad (1 ft) * Soil porosity (0.2) = 373.0624 ft ³ = 66.4 bbl	Volume Recovered (bbls): 30
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	🛛 Yes 🗌 No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
🗌 Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered

Cause of Release:

Internal corrosion in pump vibration dampener caused salt water to spray produced water to spray onto the well pad. Some flowed off-site about 300 feet.

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Received l	by C)CD: .	12/8/2023	11:05:02 AM
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Form C-141	State of New Mexico	Incident ID	NOY1826826475
Page 2	Oil Conservation Division	District RP	1RP-5202
		Facility ID	
		Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release? Over 25 bbl	
🛛 Yes 🗌 No		
If YES, was immediate n	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? No	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

 \boxtimes 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: All free produced water has been removed so there no
possibility that human health will be affected or further damage to the environment. Released materials stopped spreading when the
pump was shut down and the leak stopped.

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.

State of New Mexico Oil Conservation Division

Incident ID	NOY1826826475
District RP	1RP-5202
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	51-100 (ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗋 Yes 🛛 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗋 Yes 🛛 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗋 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🔲 Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas not on an exploration, development, production, or storage site?	Yes 🗌 No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and 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.

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Received by OCD: 12/8/2023 11: Form C-141	05:02 AM			Page 67 of 7
			Incident ID	NOY1826826475
Page 4	Oil Conservation Division	/1S10n	District RP	1RP-5202
			Facility ID	
			Application ID	
regulations all operators are required public health or the environment. T failed to adequately investigate and addition, OCD acceptance of a C-1 and/or regulations. Printed Name:Kelton Beaird Signature:		tifications and perform co OCD does not relieve the reat to groundwater, surfact f responsibility for completion Title:Environmenta Manager	rrective actions for rele operator of liability sh- ce water, human health iance with any other fea	eases which may endanger ould their operations have or the environment. In deral, state, or local laws
		<u>Felephone: 432-312</u>	-2203	
OCD Only				
Received by:		Date:		

Page 6

Oil Conservation Division

Incident ID	NOY1826826475
District RP	1RP-5202
Facility ID	
Application ID	

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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 Beaird_____ Title: Environmental Manager_____ Signature: Date: 11/30/2023 email: __KBeaird@btaoil.com____ Telephone: ____432-312-2203_____ **OCD Only** Received by: _____ Date: 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: _____ Title: Printed Name:

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

QUESTIONS

Action 292635

QUESTIONS		
Operator:	OGRID:	
BTA OIL PRODUCERS, LLC	260297	
104 S Pecos	Action Number:	
Midland, TX 79701	292635	
	Action Type:	
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS Droroguioitoo

Prerequisites		
Incident ID (n#)	nOY1826826475	
Incident Name	NOY1826826475 MESA B#2 SWD @ 30-025-42462	
Incident Type	Produced Water Release	
Incident Status	Remediation Closure Report Received	
Incident Well	[30-025-42462] MESA B SWD 8115 JV-P #002	

Location of Release Source

Please answer all the questions in this group.		
Site Name	MESA B#2 SWD	
Date Release Discovered	09/11/2018	
Surface Owner Private		

Incident Details

Please answer all the questions in this group.		
Incident Type	Produced Water Release	
Did this release result in a fire or is the result of a fire	No	
Did this release result in any injuries	No	
Has this release reached or does it have a reasonable probability of reaching a watercourse	Νο	
Has this release endangered or does it have a reasonable probability of endangering public health	No	
Has this release substantially damaged or will it substantially damage property or the environment	No	
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No	

Nature and Volume of Release Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission Crude Oil Released (bbls) Details Not answered. Cause: Corrosion | Pump | Produced Water | Released: 60 BBL | Recovered: 30 BBL | Lost: Produced Water Released (bbls) Details 30 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 Not answered. Other, Specify, Unknown, and/or Fire, or any negative lost amounts)

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

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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

QUESTIONS, Page 2

Action 292635

QUESTIONS (continued) Operator: OGRID: BTA OIL PRODUCERS, LLC 260297 104 S Pecos Action Number: Midland, TX 79701 292635 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.
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.	

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a s	afety hazard that would result in injury.
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of evaluation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releat the OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or

	Name: BTA ENV
I hereby agree and sign off to the above statement	Title: Environmental Manager
	Email: kbeaird@btaoil.com
	Date: 12/08/2023

District I

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

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

District III

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

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

QUESTIONS, Page 3

Action 292635

Page 71 of 76

QUESTIONS (continued)

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	292635
	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 75 and 100 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release ar	nd the following surface areas:
A continuously flowing watercourse or any other significant watercourse	Between 500 and 1000 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 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 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (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	Medium
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date. Requesting a remediation plan approval with this submission Yes Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC. Have the lateral and vertical extents of contamination been fully delineated Yes Was this release entirely contained within a lined containment area No Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.) Chloride (EPA 300.0 or SM4500 CI B) 1440 TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M) 0 GRO+DRO (EPA SW-846 Method 8015M) 0 BTEX (EPA SW-846 Method 8021B or 8260B) 0 (EPA SW-846 Method 8021B or 8260B) Benzene 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 07/18/2023 On what date will (or did) the final sampling or liner inspection occur 11/21/2023 On what date will (or was) the remediation complete(d) 11/21/2023 What is the estimated surface area (in square feet) that will be reclaimed 15618 What is the estimated volume (in cubic yards) that will be reclaimed 1220 What is the estimated surface area (in square feet) that will be remediated 0 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

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

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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

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QUESTIONS, Page 4

Action 292635

QUESTI	ONS (continued)
Operator: BTA OIL PRODUCERS, LLC 104 S Pecos	OGRID: 260297 Action Number:
Midland, TX 79701	292635
	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	
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.)	No
(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)	Yes
Other Non-listed Remedial Process. Please specify	Delineation completed. No impacts identified. All samples meet Closure Criteria.
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed eff which includes the anticipated timelines for beginning and completing the remediation.	forts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,
to report and/or file certain release notifications and perform corrective actions for relea the OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: BTA ENV Title: Environmental Manager Email: kbeaird@btaoil.com Date: 12/08/2023

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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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. , NM 87505

Action 292635

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QUESTIONS (continued)	
Operator: BTA OIL PRODUCERS, LLC 104 S Pecos	OGRID: 260297 Action Number:
Midland, TX 79701	292635 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)
QUESTIONS	
Deferral Requests Only	

Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 292635

QUESTIONS (continued)

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	292635
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	292654
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/17/2023
What was the (estimated) number of samples that were to be gathered	5
What was the sampling surface area in square feet	11700

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	0	
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	0	
What was the total volume (in cubic yards) reclaimed	0	
Summarize any additional remediation activities not included by answers (above)	Delineation only. No reclamation required at this time.	
	closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of	
to report and/or file certain release notifications and perform corrective actions for relea the OCD does not relieve the operator of liability should their operations have failed to a water, human health or the environment. In addition, OCD acceptance of a C-141 report	knowledge and understand that pursuant to OCD rules and regulations all operators are required ses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or ally restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed ng notification to the OCD when reclamation and re-vegetation are complete.	

I hereby agree and sign off to the above statement Email: kbeaird@b	ntal Manager
Date: 12/08/2023)btaoil.com

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QUESTIONS, Page 7

Action 292635

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QUESTIONS (continued) Operator: OGRID: BTA OIL PRODUCERS, LLC 260297 104 S Pecos Action Number: Midland, TX 79701 292635 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure) QUESTIONS

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

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CONDITIONS

Action 292635

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	292635
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

CONDITIONS		
Created By	Condition	Condition Date
amaxwell	Remediation Closure approved. All areas not reasonably needed for production or subsequent drilling operations will need to be reclaimed and revegetated as soon as practical. Areas reasonably needed for production or subsequent drilling operations will need to be reclaimed and revegetated as soon as they are no longer reasonably needed. A report for reclamation and revegetation will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete"	12/15/2023