

November 15, 2023

#### **New Mexico Oil Conservation Division**

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

Re: Closure Request

Mesa 8105 JV-P #4H Battery Incident Number NRM2004549559 Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of BTA Oil Producers, LLC (BTA), has prepared this *Closure Request* to document assessment, excavation, and soil sampling activities performed at the Mesa 8105 JV-P #4H Battery (Site). The purpose of the Site assessment, excavation, and soil sampling activities was to address impacts to soil resulting from a historical crude oil and produced water release at the Site. Based on field observations, excavation activities, and soil sample laboratory analytical results, BTA is submitting this *Closure Request*, requesting no further action for Incident Number NRM2004549559.

### SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit C, Section 11, Township 26 South, Range 32 East, in Lea County, New Mexico (32.06412°, -103.64973°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On February 12, 2020, a gas supply line froze, causing a separator dump valve to malfunction and the catch tank to overflow. Approximately 47 barrels (bbls) of crude oil and 21 bbls of produced water were released along the southern edge of the pad; all released fluids remained on the well pad. A vacuum truck recovered approximately 45 bbls of crude oil and 20 bbls of produced water. A backhoe was used to scrape up the impacted soil; approximately 30 cubic yards of impacted soil was removed and properly disposed of. BTA reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on February 13, 2020. The release was assigned Incident Number NRM2004549559.

#### 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 greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well C-04549, located approximately 0.22 miles

BTA Oil Producers, LLC Closure Request Mesa 8105 JV-P #4H Battery

west of the Site. The well was drilled during July 2021 to a total depth of 103 feet bgs, and no groundwater was encountered. The borehole was properly abandoned using hydrated bentonite chips. All wells used for depth to groundwater determination are presented on Figure 1. The associated well records are included in Appendix A.

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: 20,000 mg/kg

#### **DELINEATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS**

On August 31, 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. The well pad had been reconstructed and extended since the February 2020 release occurred. The historical release area was now beneath approximately 6 feet of caliche used to reconstruct and extend the historical well pad area. Photographic documentation was completed during the Site visit and a photographic log is included as Appendix B.

On September 28, 2023, and September 29, 2023, Ensolum personnel returned to the Site to complete delineation activities to assess for the presence or absence of impacted soil associated with the historical release. Potholes PH01 through PH08 were advanced via excavator at eight locations within and around the historical release extent. The potholes were advanced through approximately 6 feet of new caliche material to the ground surface of the original well pad. The potholes were extended an additional 2 feet to 4 feet below the surface of the original well pad. Soil from the potholes was field screened at 1-foot intervals (starting at the original ground surface) for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab®. Field screening results and observations for the potholes were logged on lithologic/soil sampling logs, which are included in Appendix C. Discrete delineation soil samples were collected from the potholes at depths ranging from 0.5 feet to 4 feet bgs. The soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included as Appendix B.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of the following chemicals of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH- GRO, TPH- DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standard Method SM4500.



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Laboratory analytical results for the delineation samples collected from potholes PH01 and PH04, advanced within the release extent, indicated that TPH-GRO/TPH-DRO concentrations exceeded the Site Closure Criteria at a depth of 0.5 feet bgs. Laboratory analytical results for the delineation samples collected from potholes PH02 and PH03, advanced within the release extent, indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria. Laboratory analytical results for the delineation samples collected from potholes PH05 through PH08, advanced outside of the release extent, indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria and defined the lateral extent of the historical release. Based on laboratory analytical results, excavation activities were warranted in the areas around potholes PH01 and PH04. Laboratory analytical results are summarized in Table 1 and the complete analytical reports are included as Appendix D.

#### **EXCAVATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS**

On October 24, 2023, and October 25, 2023, Ensolum personnel were at the Site to oversee excavation of impacted soil from the historical release area as indicated by laboratory analytical results for the delineation samples. Approximately 6 feet of caliche from the new well pad construction was stripped back, and impacted soil was excavated from the areas around potholes PH01 and PH04. The excavations were completed to depths ranging from 1.5 feet to 2.5 feet bgs. To direct excavation activities, soil was field screened for VOCs and chloride as previously described. Photographic documentation of the excavation activities is included in Appendix B.

Following removal of impacted soil, 5-point composite soil samples were collected every 200 square feet from the floor and sidewalls of the excavations. The 5-point composite soil samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS08 were collected from the floor of the excavation at depths ranging from 1.5 foot to 2.5 feet bgs. Composite soil samples SW01 through SW05 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 2.5 feet bgs. The soil samples were handled and analyzed as previously described. The excavation extent and excavation soil sample locations were mapped utilizing a handheld GPS unit and are depicted on Figure 3.

Laboratory analytical results for excavation floor samples FS01 through FS08 and sidewall samples SW01 through SW05 indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix D.

The aerial footprint of the excavations measured approximately 1,350 square feet. A total of approximately 100 cubic yards of impacted soil were removed during excavation activities. The impacted soil was transported and properly disposed of at the R360 Disposal Facility in Hobbs, New Mexico.

#### **CLOSURE REQUEST**

Site assessment and excavation activities were conducted at the Site to address the impacted soil resulting from a historical release of produced water and crude oil. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria Additionally, laboratory analytical results for the delineation soil samples provided lateral and vertical delineation to the most stringent Table I Closure Criteria. Based on the laboratory analytical results, the impacted soil was excavated, and no further remediation is required.

Initial response efforts, excavation of impacted soil, and natural attenuation have mitigated impacts at this Site. Depth to groundwater was determined to be greater than 100 feet bgs within 0.5 miles of the



BTA Oil Producers, LLC Closure Request Mesa 8105 JV-P #4H Battery

Site and no other 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 NRM2004549559. Notifications submitted to the NMOCD are included in Appendix E and the final Form C-141 is included in Appendix F.

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

Linée Cale

Senior Managing Scientist

Aimee Cole

Sincerely, **Ensolum, LLC** 

Run Huge

Ronni Hayes Assistant Geologist

cc: Kelton Beaird, BTA

Bureau of Land Management

Appendices:

Figure 1 Site Receptor Map

Figure 2 Delineation Soil Sample Locations
Figure 3 Excavation Soil Sample Locations
Table 1 Soil Sample Analytical Results
Appendix A Referenced Well Records

Appendix B Photographic Log

Appendix C Lithologic/Soil Sampling Logs

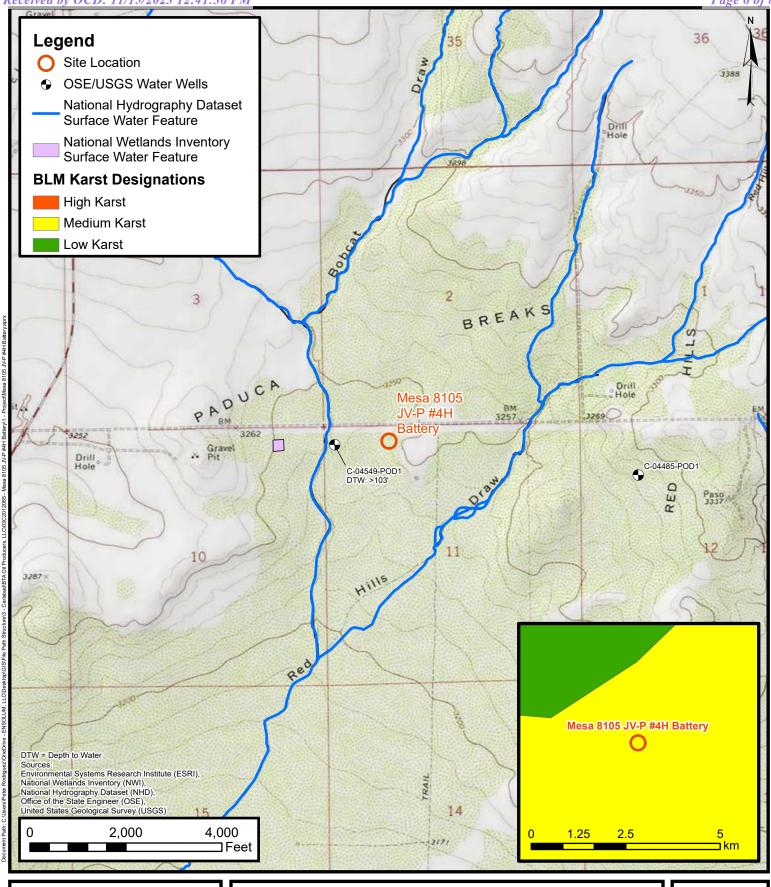
Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation

Appendix E NMOCD Notifications

Appendix F Final C-141



**FIGURES** 





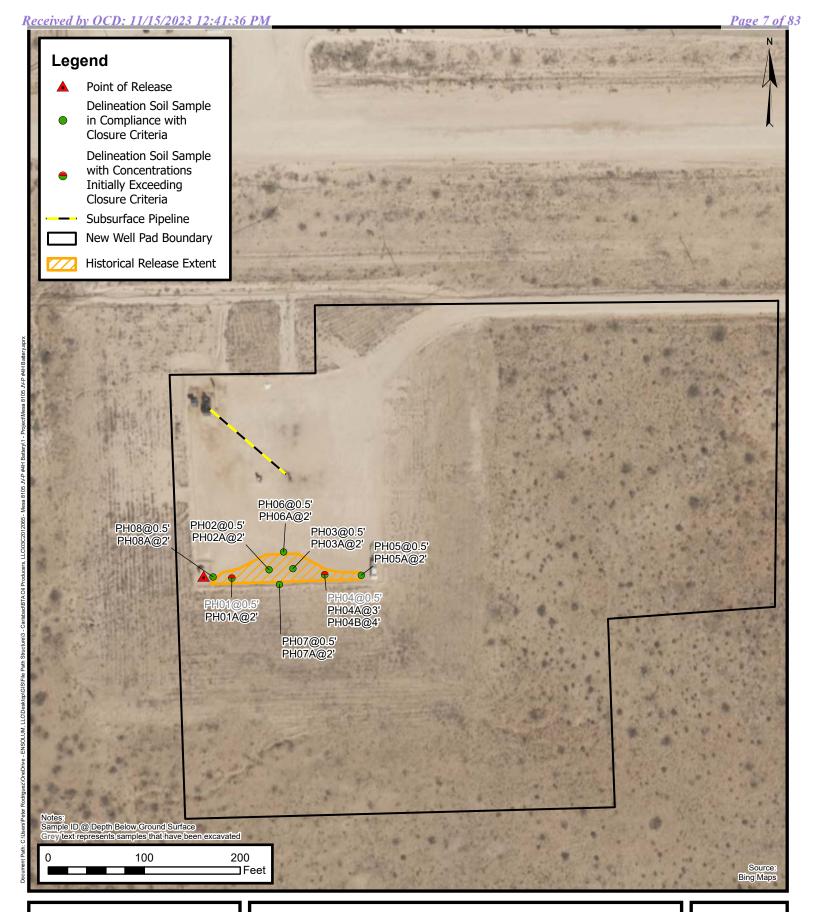
# **Site Receptor Map**

BTA Oil Producers, LLC Mesa 8105 JV-P #4H Battery Incident Number: NRM2004549559 Unit C, Section 11, Township 26S, Range 32E

Lea County, New Mexico

FIGURE

1





# **Delineation Soil Sample Locations**

BTA Oil Producers, LLC Mesa 8105 JV-P #4H Battery Incident Number: NRM2004549559

Unit C, Section 11, Township 26S, Range 32E Lea County, New Mexico 2

**FIGURE** 



# **Excavation Soil Sample Locations**

BTA Oil Producers, LLC Mesa 8105 JV-P #4H Battery Incident Number: NRM2004549559

Unit C, Section 11, Township 26S, Range 32E Lea County, New Mexico FIGURE 3



**TABLES** 



# TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Mesa 8105 JV-P #4H Battery BTA Oil Producers, LLC Lea County, New Mexico

	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 1	Closure Criteria (	(NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000			
				Deli	neation Soil Sai	nples							
PH01	09/29/2023	0.5	<0.050	<0.300	<10.0	1,350	481	1,350	1,831	784			
PH01A	09/29/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0			
PH02	09/29/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	544			
PH02A	09/29/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	400			
PH03	09/28/2023	0.5	<0.050	<0.300	<10.0	16.1	<10.0	16.1	16.1	80.0			
PH03A	09/28/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0			
PH04	09/28/2023	0.5	<0.050	<0.300	<10.0	1,350	481	1,350	1,831	80.0			
PH04A	09/28/2023	3	<0.050	<0.300	<10.0	12.0	<10.0	12.0	12.0	224			
PH04B	09/28/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144			
PH05	09/28/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0			
PH05A	09/28/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0			
PH06	09/28/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	464			
PH06A	09/28/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128			
PH07	09/28/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272			
PH07A	09/28/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128			
PH08	10/24/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0			
PH08A	10/24/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144			
				Excava	tion Floor Soil	Samples							
FS01	10/24/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160			
FS02	10/24/2023	1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240			
FS03	10/24/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224			
FS04	10/25/2023	2.5	<0.050	<0.300	<10.0	64.3	16.1	64.0	80.4	80.0			
FS05	10/25/2023	2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0			
FS06	10/25/2023	1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0			
FS07	10/25/2023	1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0			
FS08	10/25/2023	1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0			



# TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Mesa 8105 JV-P #4H Battery BTA Oil Producers, LLC Lea County, New Mexico

				_						
Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 C	NMOCD Table 1 Closure Criteria (NMAC 19.15.29)		10	50	NE	NE	NE	1,000	2,500	20,000
				Excavati	on Sidewall So	I Samples				
SW01	10/24/2023	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
SW02	10/24/2023	0-1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
SW03	10/25/2023	02.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
SW04	10/25/2023	0-1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
SW05	10/25/2023	0-1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320

Notes:

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

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in bold exceed the NMOCD Table 1 Closure Criteria or reclamation requirements where applicable.

ORO: Oil Range Organics

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

TPH: Total Petroleum Hydrocarbon

Grey text represents samples that have been excavated

Ensolum 2 of 2



**APPENDIX A** 

Referenced Well Records



OSE DIT AUG 2 2021 PM4:45

NO	POD1 (N	•	NO.)			well t. n/a	AG ID NO.			OSE FILE NO C-4549	(S).			
OCATI	WELL OWN BTA Oil						<del>-</del>			PHONE (OPT	IONAL)			
WELL L	WELL OWN 104 S. Pe		ING AD	DRESS						CITY Midland		STATE TX	79701	ZIP
GENERAL AND WELL LOCATION	WELL LOCATION G	ON PS)	LATITU	DE	32 103	MINU 4		SECON 40.9	2 N	1	/ REQUIRED: ONE TEN QUIRED: WGS 84	TH OF A S	ECOND	
1. GEN		ION RELA	TING W		STREET ADDI	RESS AND	COMMON L	ANDMA	RKS – PLS	SS (SECTION, TO	WNSHJIP, RANGE) WI	IERE AVAI	LABLE	
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		49				Jackie D					Atkins Eng	gineering .	Associates, I	
	DRILLING: 07/14	/2021	- 1	07/14/2021	DEPTH OF CO		WELL (FT) material			LE DEPTH (FT) 103	DEPTH WATER FIR	ST ENCOU n/a	NTERED (FT)	•
NO	COMPLETE	D WELL	rs: [	ARTESIAN	DRY HOL	e []	SHALLOW	(UNCO)	NFINED)		STATIC WATER LE	VEL IN COM n/a	MPLETED WE	ELL (FT)
Ĕ	DRILLING I	LUID:	G	AIR	☐ MUD		ADDITIVES	- SPEC	IFY:				****	
)RM	DRILLING I	METHOD:	[	ROTARY	П наммен	<b>.</b> []	CABLE TO	DL	<b>✓</b> OTHE	R – SPECIFY:	Hollo	w Stem	Auger	
NF	DEPTH	(feet bg	1)	BORE HOLE	CASING		AL AND/	OR	<u> </u>	ASING	CASING	CASIN	IG WALL	GY 07
DRILLING & CASING INFORMATION	FROM	то	)	DIAM (inches)	(include	GRAD each casir sections o	ng string, ar	nd	CONI	NECTION TYPE ling diameter)	INSIDE DIAM. (inches)	THIC	CKNESS nches)	SLOT SIZE (inches)
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LOC	ATION 2	200	<u>S-</u>	32E-1	<u> </u>		<u>l· [·</u>			WELL TAG II	ONO. $\Lambda$	-	PAGE	1 OF 2

OSE DIT AUG 2 2021 PM4:45

	DEPTH (	feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONI (attach supplemental sheets to fully describe all units)	BS	WATER BEARING? (YES/NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
1	0	4	4	Caliche, Consolidated, White	T	Y /N	
	4	9	5	Caliche, Consolidated, with fine-grained, Tan		Y /N	
	9	14	5	Caliche, Consolidated, White		Y ✓N	
	14	19	5	Caliche, Consolidated, with fine-grained, Tan		y √n	
	19	69	50	Sand, Fine-grained poorly graded, with caliche, Tanish Brown		Y ✓N	
4	69	79	103	Clay, Stiff, High Plasticity, Dark Brown,		Y ✓N	
WEI		-				Y N	
O.						Y N	
29					1	Y N	
4. HYDROGEOLOGIC LOG OF WELL						Y N	
0						Y N	
99						Y N	
8						Y N	
HX						Y N	
4						Y N	
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						Y N	
	METHOD U	SED TO ES	TIMATE YIELD	OF WATER-BEARING STRATA:	тота	L ESTIMATED	
	PUMI	• A	IR LIFT	BAILER OTHER - SPECIFY:	WELI	L YIELD (gpm):	0.00
VISION	WELL TES	TEST STAR	RESULTS - ATT. I TIME, END TII	ACH A COPY OF DATA COLLECTED DURING WELL TESTING, IN ME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OV	CLUDIN ER THE	G DISCHARGE N TESTING PERIO	METHOD, D.
RVIS	MISCELLAI	NEOUS INF	ORMATION: Te	mporary well materials removed and the soil boring backfilled usi	ne drill	cuttings from tot	al denth to ten
TEST; RIG SUPERV			fee	et below ground surface, then hydrated bentonite chips from ten fe	et below	ground surface	to surface.
)T; R	==						
	PRINT NAM	E(S) OF DE	VILL RIG SUPER	VISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CON	STRUC	TION OTHER TH	AN LICENSEE:
5.	Shane Eldric	lge, Camer	on Pruitt, Carme	elo Trevino			
TURE	CORRECT R	ECORD OF	THE ABOVE D	IES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BEL ESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL I O DAYS AFTER COMPLETION OF WELL DRILLING:	IEF, TH	E FOREGOING IS WITH THE STA	S A TRUE AND TE ENGINEER
6. SIGNATURE	Jack Ar	tkins		Jackie D. Atkins		07/29/2021	
		SIGNATU	JRE OF DRILLE	R / PRINT SIGNEE NAME		DATE	
FOR	OSE INTERN	NAL USE		WR.20 WR	LL RECO	ORD & LOG (Ven	sion 06/30/2017)
	E NO	45	19	POD NO. ( TRN NO. (	50	8218	00/30/2017)
LOC	cation 2	68-3	30F-1	WELL TAG ID NO.		A	PAGE 2 OF 2



**APPENDIX B** 

Photographic Log



# **Photographic Log**

BTA Oil Producers, LLC Mesa 8105 JV-P #4H Battery NRM2004549559





Photograph: 1 Date: 2/12/2020

Description: Satellite view of release footprint

View: Satellite

Photograph: 2 Date: 2/12/2020

Description: Standing fluid during initial release

View: West





Photograph: 3 Date: 2/12/2020

Description: Release area after initial scrape

View: South

Photograph: 4 Date: 8/31/2023 Description: Newly constructed well pad over historical

release



# **Photographic Log**

BTA Oil Producers, LLC Mesa 8105 JV-P #4H Battery NRM2004549559



Photograph: 5 Date: 9/28/2023

Description: Delineation activities

View: East



Photograph: 6 Date: 10/24/2023

Description: Excavation activities

View: South



Photograph: 7 Date: 10/25/2023

Description: Excavation near pothole PH01

View: East



Photograph: 8 Date: 10/25/2023

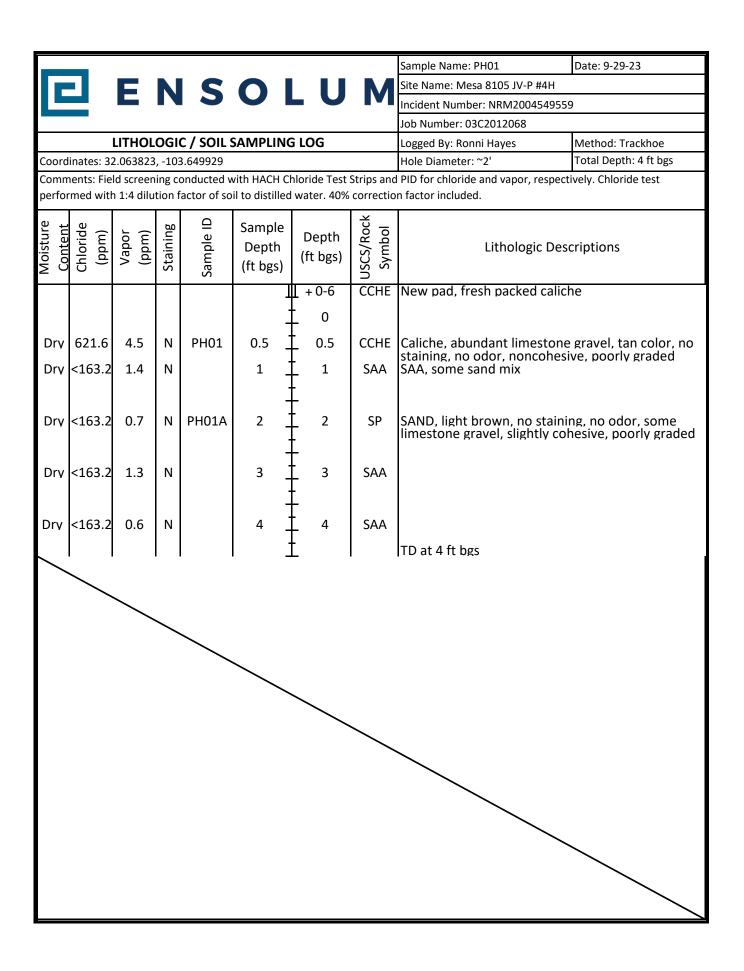
Description: Excavation near pothole PH04

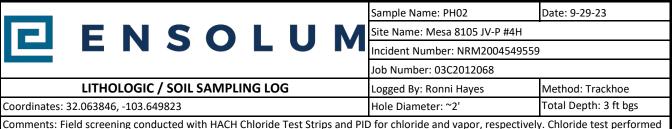
View: East



APPENDIX C

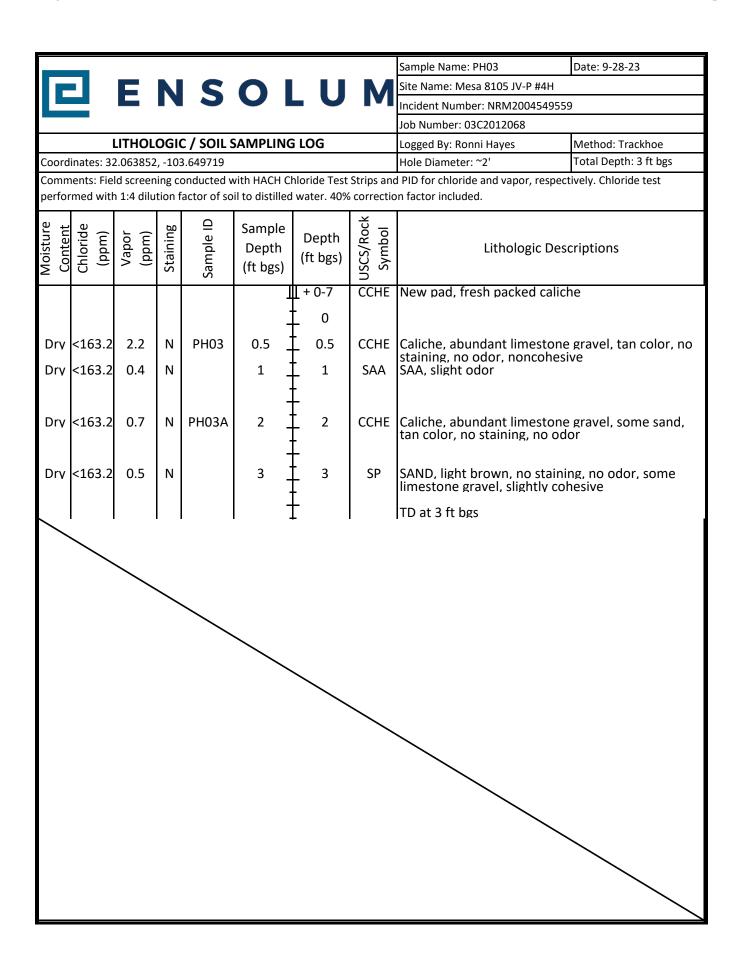
Lithologic Soil Sampling Logs

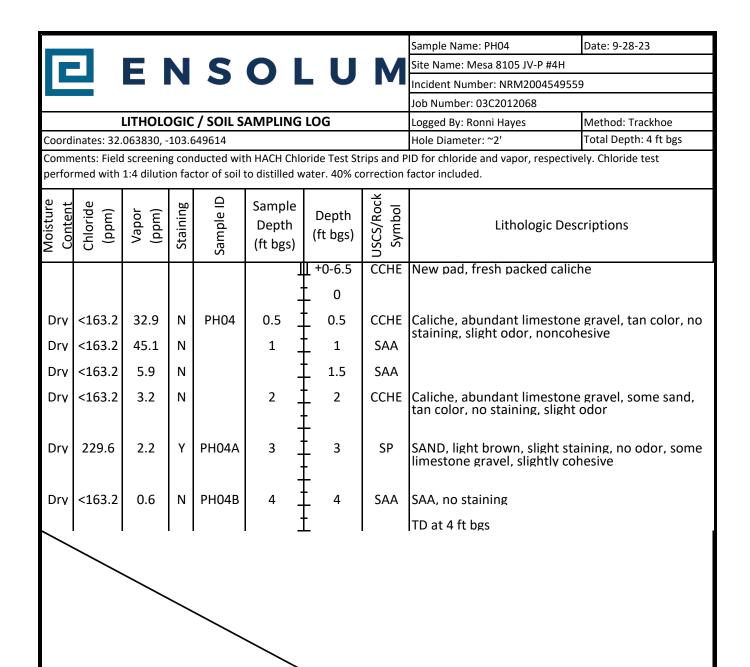


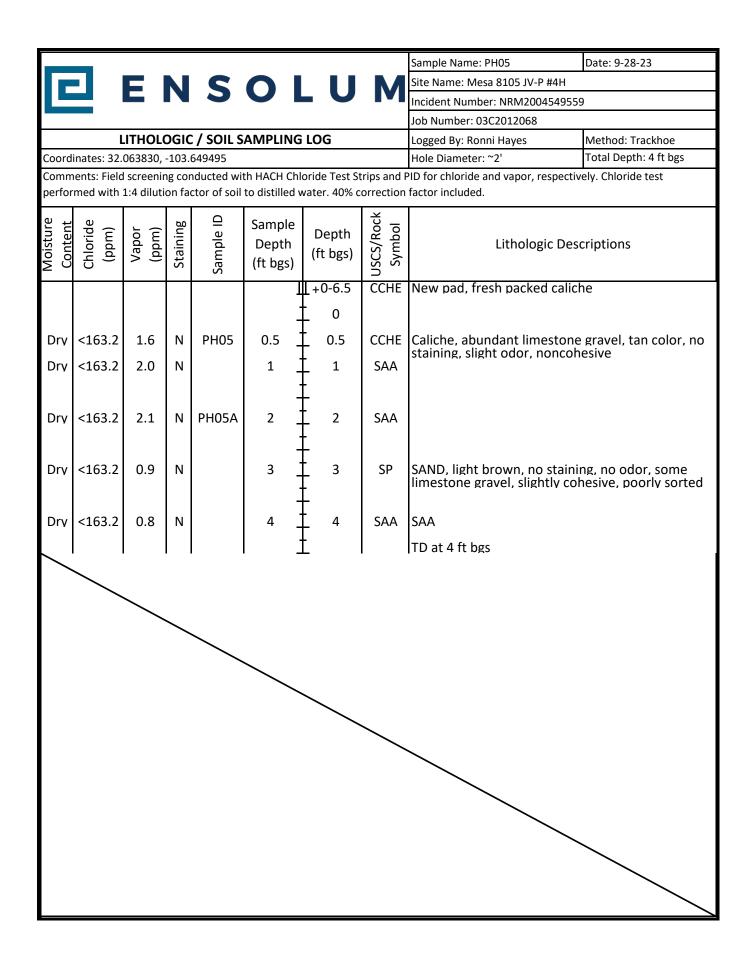


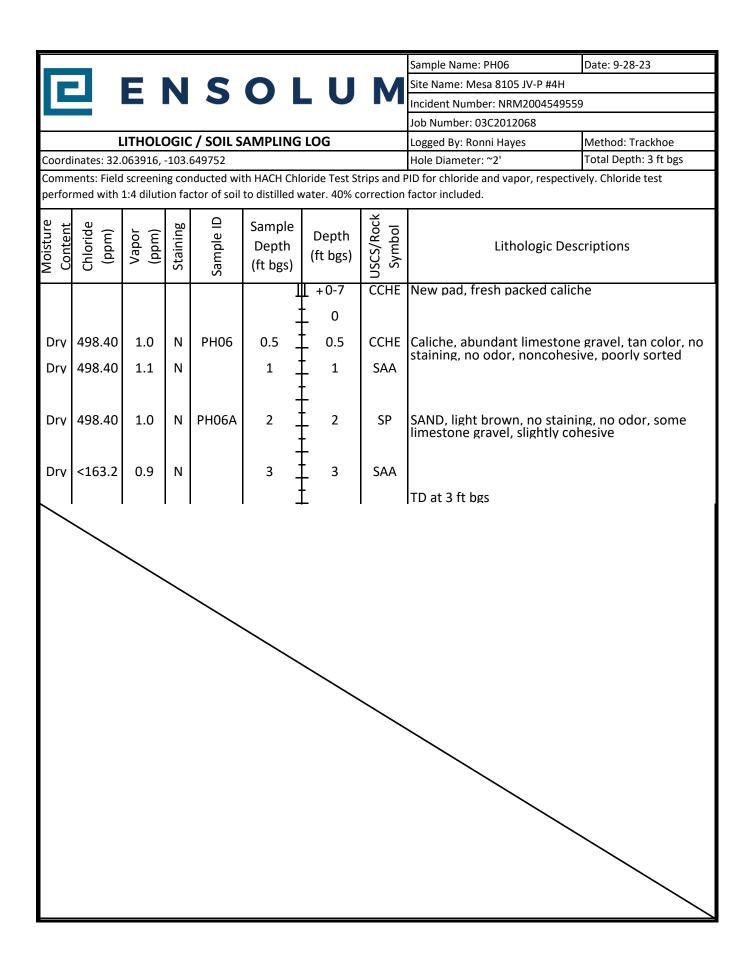
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.

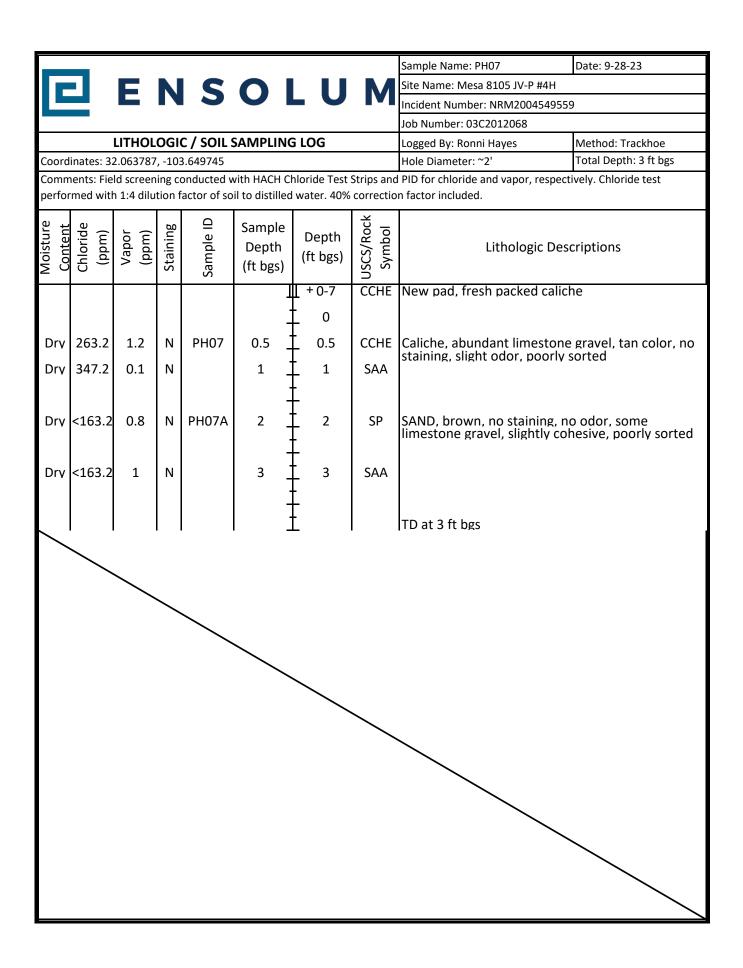
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
		[ '			<u>                                     </u>	+ 0-6	CCHE	New pad, fresh packed caliche
					-	<u> </u>		
Dry	498.4	0.3	N	PH02	0.5	0.5	CCHE	Caliche, abundant limestone gravel, tan color, no staining, no odor, noncohesive, poorly graded
Dry	392	0.1	N		1 _	‡ 1	SAA	SAA, some sand mix
					-	‡ '		
Dry	442.4	0.2	N	PH02A	2	2	SP	SAND, light brown, no staining, no odor, some limestone gravel, slightly cohesive, poorly graded
	1				-	┞ '		and the grands, singles, sometimes, positive, grands
Dry	293.2	0.1	N		3 _	3	SAA	
	1				-	‡ '		TD at 2 ft has
<b>\</b> '	'	1 1	1 1	1 I	1 J	Ι '	1	TD at 3 ft bgs

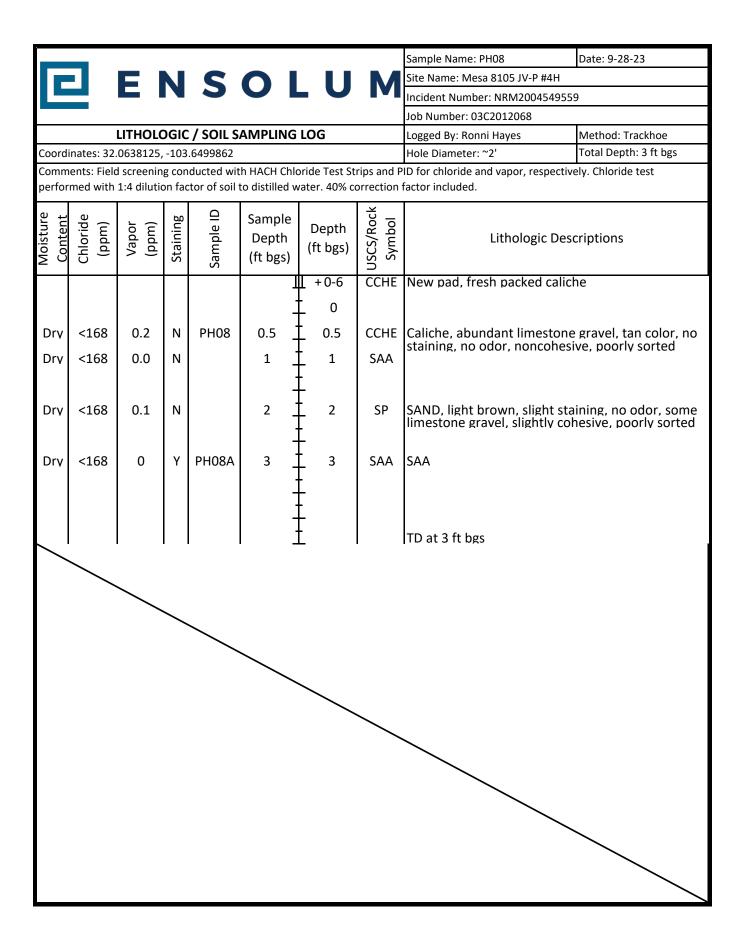














APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



October 04, 2023

AIMEE COLE

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: MESA 8105 JV-P #4H

Enclosed are the results of analyses for samples received by the laboratory on 09/29/23 13:28.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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)

Celey D. Keene

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. Keene

Lab Director/Quality Manager



#### Analytical Results For:

ENSOLUM, LLC AIMEE COLE 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 09/29/2023 Reported: 10/04/2023

Project Name: MESA 8105 JV-P #4H

Project Number: 03C2012065

Project Location: BTA 32.06412-103.64973

Sampling Date: 09/29/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: PHO1 @ 0.5' (H235328-01)

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	10/02/2023	ND	2.01	101	2.00	1.37	
Toluene*	<0.050	0.050	10/02/2023	ND	2.16	108	2.00	2.98	
Ethylbenzene*	<0.050	0.050	10/02/2023	ND	2.17	108	2.00	1.35	
Total Xylenes*	<0.150	0.150	10/02/2023	ND	6.54	109	6.00	1.11	
Total BTEX	<0.300	0.300	10/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	117	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	10/02/2023	ND	432	108	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	10/02/2023	ND	189	94.4	200	2.47	
DRO >C10-C28*	1350	10.0	10/02/2023	ND	193	96.5	200	1.62	
EXT DRO >C28-C36	481	10.0	10/02/2023	ND					
Surrogate: 1-Chlorooctane	96.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	130	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



## Analytical Results For:

ENSOLUM, LLC AIMEE COLE 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 09/29/2023 Sampling Date: 09/29/2023

Reported: 10/04/2023 Sampling Type: Soil

Project Name: MESA 8105 JV-P #4H Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 03C2012065

Project Location: BTA 32.06412-103.64973

#### Sample ID: PHO1 A @ 2' (H235328-02)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2023	ND	2.01	101	2.00	1.37	
Toluene*	<0.050	0.050	10/02/2023	ND	2.16	108	2.00	2.98	
Ethylbenzene*	<0.050	0.050	10/02/2023	ND	2.17	108	2.00	1.35	
Total Xylenes*	<0.150	0.150	10/02/2023	ND	6.54	109	6.00	1.11	
Total BTEX	<0.300	0.300	10/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 9	% 71.5-13	4						
Chloride, SM4500CI-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	10/02/2023	ND	432	108	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	10/02/2023	ND	189	94.4	200	2.47	
DRO >C10-C28*	<10.0	10.0	10/02/2023	ND	193	96.5	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	10/02/2023	ND					
Surrogate: 1-Chlorooctane	99.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114 9	% 49.1-14	8						

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Celey D. Keene



#### Analytical Results For:

ENSOLUM, LLC AIMEE COLE 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 09/29/2023 Sampling Date: 09/29/2023

Reported: 10/04/2023 Sampling Type: Soil

Project Name: MESA 8105 JV-P #4H Sampling Condition: Cool & Intact
Project Number: 03C2012065 Sample Received By: Tamara Oldaker

Project Location: BTA 32.06412-103.64973

#### Sample ID: PHO2 @ 0.5' (H235328-03)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2023	ND	2.01	101	2.00	1.37	
Toluene*	<0.050	0.050	10/02/2023	ND	2.16	108	2.00	2.98	
Ethylbenzene*	<0.050	0.050	10/02/2023	ND	2.17	108	2.00	1.35	
Total Xylenes*	<0.150	0.150	10/02/2023	ND	6.54	109	6.00	1.11	
Total BTEX	<0.300	0.300	10/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	10/02/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2023	ND	189	94.4	200	2.47	
DRO >C10-C28*	<10.0	10.0	10/02/2023	ND	193	96.5	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	10/02/2023	ND					
Surrogate: 1-Chlorooctane	95.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107	% 49.1-14	8						

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Celey D. Keine



#### Analytical Results For:

ENSOLUM, LLC AIMEE COLE 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 09/29/2023 Sampling Date: 09/29/2023

Reported: 10/04/2023 Sampling Type: Soil

Project Name: MESA 8105 JV-P #4H Sampling Condition: Cool & Intact
Project Number: 03C2012065 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: BTA 32.06412-103.64973

#### Sample ID: PHO2 A @ 2' (H235328-04)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	u by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2023	ND	2.01	101	2.00	1.37	
Toluene*	<0.050	0.050	10/02/2023	ND	2.16	108	2.00	2.98	
Ethylbenzene*	<0.050	0.050	10/02/2023	ND	2.17	108	2.00	1.35	
Total Xylenes*	<0.150	0.150	10/02/2023	ND	6.54	109	6.00	1.11	
Total BTEX	<0.300	0.300	10/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	10/02/2023	ND	432	108	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	10/02/2023	ND	189	94.4	200	2.47	
DRO >C10-C28*	<10.0	10.0	10/02/2023	ND	193	96.5	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	10/02/2023	ND					
Surrogate: 1-Chlorooctane	120	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	135	% 49.1-14	8						

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Celey D. Keene



#### Analytical Results For:

ENSOLUM, LLC AIMEE COLE 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 09/29/2023 Sampling Date: 09/28/2023

Reported: 10/04/2023 Sampling Type: Soil

Project Name: MESA 8105 JV-P #4H Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C2012065 Tamara Oldaker

Project Location: BTA 32.06412-103.64973

#### Sample ID: PHO3 @ 0.5' (H235328-05)

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	10/02/2023	ND	2.01	101	2.00	1.37	
Toluene*	<0.050	0.050	10/02/2023	ND	2.16	108	2.00	2.98	
Ethylbenzene*	<0.050	0.050	10/02/2023	ND	2.17	108	2.00	1.35	
Total Xylenes*	<0.150	0.150	10/02/2023	ND	6.54	109	6.00	1.11	
Total BTEX	<0.300	0.300	10/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 71.5-13	4						
Chloride, SM4500CI-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	10/02/2023	ND	432	108	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	10/02/2023	ND	189	94.4	200	2.47	
DRO >C10-C28*	16.1	10.0	10/02/2023	ND	193	96.5	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	10/02/2023	ND					
Surrogate: 1-Chlorooctane	97.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	% 49.1-14	8						

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Celey D. Keene



#### Analytical Results For:

ENSOLUM, LLC AIMEE COLE 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 09/29/2023 Reported: 10/04/2023

Project Name: MESA 8105 JV-P #4H

Project Number: 03C2012065

Project Location: BTA 32.06412-103.64973

Sampling Date: 09/28/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: PHO3 A @ 2' (H235328-06)

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	10/02/2023	ND	2.01	101	2.00	1.37	
Toluene*	<0.050	0.050	10/02/2023	ND	2.16	108	2.00	2.98	
Ethylbenzene*	<0.050	0.050	10/02/2023	ND	2.17	108	2.00	1.35	
Total Xylenes*	<0.150	0.150	10/02/2023	ND	6.54	109	6.00	1.11	
Total BTEX	<0.300	0.300	10/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	126	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/02/2023	ND	432	108	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	10/02/2023	ND	189	94.4	200	2.47	
DRO >C10-C28*	<10.0	10.0	10/02/2023	ND	193	96.5	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	10/02/2023	ND					
Surrogate: 1-Chlorooctane	96.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

## Cardinal Laboratories

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

\*=Accredited Analyte



#### Analytical Results For:

ENSOLUM, LLC AIMEE COLE 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 09/29/2023 Sampling Date: 09/28/2023

Reported: 10/04/2023 Sampling Type: Soil

Project Name: MESA 8105 JV-P #4H Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C2012065 Tamara Oldaker

Project Location: BTA 32.06412-103.64973

#### Sample ID: PHO4 @ 0.5' (H235328-07)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2023	ND	2.01	101	2.00	1.37	
Toluene*	<0.050	0.050	10/02/2023	ND	2.16	108	2.00	2.98	
Ethylbenzene*	<0.050	0.050	10/02/2023	ND	2.17	108	2.00	1.35	
Total Xylenes*	<0.150	0.150	10/02/2023	ND	6.54	109	6.00	1.11	
Total BTEX	<0.300	0.300	10/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	117	% 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	10/02/2023	ND	432	108	400	3.64	
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	10/02/2023	ND	189	94.4	200	2.47	
DRO >C10-C28*	1350	10.0	10/02/2023	ND	193	96.5	200	1.62	
EXT DRO >C28-C36	481	10.0	10/02/2023	ND					
Surrogate: 1-Chlorooctane	79.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

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Celeg D. Keene



#### Analytical Results For:

ENSOLUM, LLC AIMEE COLE 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 09/29/2023 Reported: 10/04/2023

Project Name: MESA 8105 JV-P #4H

Project Number: 03C2012065

Project Location: BTA 32.06412-103.64973

Sampling Date: 09/28/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

#### Sample ID: PHO4 A @ 3' (H235328-08)

RTFY 8021R

B1EX 8021B	тд/кд		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2023	ND	2.01	101	2.00	1.37	
Toluene*	<0.050	0.050	10/02/2023	ND	2.16	108	2.00	2.98	
Ethylbenzene*	<0.050	0.050	10/02/2023	ND	2.17	108	2.00	1.35	
Total Xylenes*	<0.150	0.150	10/02/2023	ND	6.54	109	6.00	1.11	
Total BTEX	<0.300	0.300	10/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	10/02/2023	ND	432	108	400	3.64	
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	10/02/2023	ND	189	94.4	200	2.47	
DRO >C10-C28*	12.0	10.0	10/02/2023	ND	193	96.5	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	10/02/2023	ND					
Surrogate: 1-Chlorooctane	90.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

Analyzed By: MC

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### Analytical Results For:

ENSOLUM, LLC AIMEE COLE 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 09/29/2023 Reported: 10/04/2023

Project Name: MESA 8105 JV-P #4H

Project Location: BTA 32.06412-103.64973

03C2012065

Sampling Date: 09/28/2023

Sampling Type: Soil Sampling Condition: Cool & Intact

Sample Received By: Tamara Oldaker

### Sample ID: PHO4 B @ 4' (H235328-09)

Project Number:

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	10/02/2023	ND	2.01	101	2.00	1.37	
Toluene*	<0.050	0.050	10/02/2023	ND	2.16	108	2.00	2.98	
Ethylbenzene*	<0.050	0.050	10/02/2023	ND	2.17	108	2.00	1.35	
Total Xylenes*	<0.150	0.150	10/02/2023	ND	6.54	109	6.00	1.11	
Total BTEX	<0.300	0.300	10/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	10/02/2023	ND	432	108	400	3.64	
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	10/02/2023	ND	189	94.4	200	2.47	
DRO >C10-C28*	<10.0	10.0	10/02/2023	ND	193	96.5	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	10/02/2023	ND					
Surrogate: 1-Chlorooctane	100 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114 9	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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### Analytical Results For:

ENSOLUM, LLC AIMEE COLE 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 09/29/2023 Reported: 10/04/2023

Project Name: MESA 8105 JV-P #4H

Project Location: BTA 32.06412-103.64973

03C2012065

Sampling Date: 09/28/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: PHO5 @ 0.5' (H235328-10)

Project Number:

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2023	ND	2.01	101	2.00	1.37	
Toluene*	<0.050	0.050	10/02/2023	ND	2.16	108	2.00	2.98	
Ethylbenzene*	<0.050	0.050	10/02/2023	ND	2.17	108	2.00	1.35	
Total Xylenes*	<0.150	0.150	10/02/2023	ND	6.54	109	6.00	1.11	
Total BTEX	<0.300	0.300	10/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	117	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/02/2023	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2023	ND	189	94.4	200	2.47	
DRO >C10-C28*	<10.0	10.0	10/02/2023	ND	193	96.5	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	10/02/2023	ND					
Surrogate: 1-Chlorooctane	93.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

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### Analytical Results For:

ENSOLUM, LLC AIMEE COLE 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 09/29/2023 Reported:

10/04/2023

Project Name: MESA 8105 JV-P #4H Project Number: 03C2012065

Project Location: BTA 32.06412-103.64973 Sampling Date: 09/28/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

### Sample ID: PHO5 A @ 2' (H235328-11)

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	10/02/2023	ND	2.01	101	2.00	1.37	
Toluene*	<0.050	0.050	10/02/2023	ND	2.16	108	2.00	2.98	
Ethylbenzene*	<0.050	0.050	10/02/2023	ND	2.17	108	2.00	1.35	
Total Xylenes*	<0.150	0.150	10/02/2023	ND	6.54	109	6.00	1.11	
Total BTEX	<0.300	0.300	10/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 71.5-13	4						
Chloride, SM4500CI-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	10/02/2023	ND	432	108	400	3.64	
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	10/02/2023	ND	189	94.4	200	2.47	
DRO >C10-C28*	<10.0	10.0	10/02/2023	ND	193	96.5	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	10/02/2023	ND					
Surrogate: 1-Chlorooctane	89.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.0	% 49.1-14	8						

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09/28/2023

### Analytical Results For:

ENSOLUM, LLC AIMEE COLE 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 09/29/2023 Sampling Date:

Reported: 10/04/2023 Sampling Type: Soil

Project Name: MESA 8105 JV-P #4H Sampling Condition: Cool & Intact
Project Number: 03C2012065 Sample Received By: Tamara Oldaker

Project Location: BTA 32.06412-103.64973

### Sample ID: PHO6 @ 0.5' (H235328-12)

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	10/02/2023	ND	2.01	101	2.00	1.37	
Toluene*	<0.050	0.050	10/02/2023	ND	2.16	108	2.00	2.98	
Ethylbenzene*	<0.050	0.050	10/02/2023	ND	2.17	108	2.00	1.35	
Total Xylenes*	<0.150	0.150	10/02/2023	ND	6.54	109	6.00	1.11	
Total BTEX	<0.300	0.300	10/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	118	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	10/02/2023	ND	432	108	400	3.64	
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	10/02/2023	ND	189	94.4	200	2.47	
DRO >C10-C28*	<10.0	10.0	10/02/2023	ND	193	96.5	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	10/02/2023	ND					
Surrogate: 1-Chlorooctane	88.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.6	% 49.1-14	8						

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09/28/2023

Cool & Intact

Tamara Oldaker

Sampling Date:

### Analytical Results For:

ENSOLUM, LLC AIMEE COLE 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 09/29/2023

Reported: 10/04/2023 Sampling Type: Soil

Project Name: MESA 8105 JV-P #4H Sampling Condition:
Project Number: 03C2012065 Sample Received By:

Project Location: BTA 32.06412-103.64973

### Sample ID: PHO6 A @ 2' (H235328-13)

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	10/02/2023	ND	2.01	101	2.00	1.37	
Toluene*	<0.050	0.050	10/02/2023	ND	2.16	108	2.00	2.98	
Ethylbenzene*	<0.050	0.050	10/02/2023	ND	2.17	108	2.00	1.35	
Total Xylenes*	<0.150	0.150	10/02/2023	ND	6.54	109	6.00	1.11	
Total BTEX	<0.300	0.300	10/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	119 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	10/02/2023	ND	432	108	400	3.64	
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	10/02/2023	ND	189	94.4	200	2.47	
DRO >C10-C28*	<10.0	10.0	10/02/2023	ND	193	96.5	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	10/02/2023	ND					
Surrogate: 1-Chlorooctane	89.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	100	% 49.1-14	8						

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### Analytical Results For:

ENSOLUM, LLC AIMEE COLE 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 09/29/2023 Reported: 10/04/2023

Project Name: MESA 8105 JV-P #4H Project Number: 03C2012065

Project Location: BTA 32.06412-103.64973

Sampling Date: 09/28/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: PHO7 @ 0.5' (H235328-14)

BTEX 8021B	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2023	ND	2.01	101	2.00	1.37	
Toluene*	<0.050	0.050	10/02/2023	ND	2.16	108	2.00	2.98	
Ethylbenzene*	<0.050	0.050	10/02/2023	ND	2.17	108	2.00	1.35	
Total Xylenes*	<0.150	0.150	10/02/2023	ND	6.54	109	6.00	1.11	
Total BTEX	<0.300	0.300	10/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	118	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	10/02/2023	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2023	ND	189	94.4	200	2.47	
DRO >C10-C28*	<10.0	10.0	10/02/2023	ND	193	96.5	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	10/02/2023	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114	% 49.1-14	8						

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### Analytical Results For:

ENSOLUM, LLC AIMEE COLE 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 09/29/2023 Reported: 10/04/2023

Project Name: MESA 8105 JV-P #4H

Project Number: 03C2012065

Project Location: BTA 32.06412-103.64973

Sampling Date: 09/28/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: PHO7 A @ 2' (H235328-15)

BTEX 8021B

DILX GOZID	11197	, kg	Alldiyzo	a by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/04/2023	ND	2.18	109	2.00	4.80	
Toluene*	<0.050	0.050	10/04/2023	ND	2.28	114	2.00	5.47	
Ethylbenzene*	<0.050	0.050	10/04/2023	ND	2.28	114	2.00	4.30	
Total Xylenes*	<0.150	0.150	10/04/2023	ND	6.30	105	6.00	4.83	
Total BTEX	<0.300	0.300	10/04/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	10/02/2023	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2023	ND	189	94.4	200	2.47	
DRO >C10-C28*	<10.0	10.0	10/02/2023	ND	193	96.5	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	10/02/2023	ND					
Surrogate: 1-Chlorooctane	84.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.0	% 49.1-14	8						

Analyzed By: MS

Cardinal Laboratories \*=Accredited Analyte

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### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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# CHAIN-OF CUSTODY AND ANALYSIS REQUEST



101 East Marland, Hobbs, NM 88240

Company Name: FASUM L	(575) 393-2326 FAX (575) 393-24/6	P.O. #:	BILL TO		ANAL	ANALYSIS REQUEST
DZ Nava	my Hung Parks	Con	Company: BTA O	0		
exts bud		88276 Attn:	A	Dee//d		
me#: 720-			Address: 104 S Pec	Pews St		
6307	Project Owner:	B+A 0// city:	Midlan.			
ã	かまま	State:	4	0(		
on: 2	U12 -103.64973		Phone #:			
		Fax				
		MATRIX	PRESERV. SAMPLING	ING		
Lab I.D. Samp	Sample I.D.	The second second	OOL S	II- BTEX	PH	•
1925298		GROU	OTHE DATE	TIME		
DHO DHO	1.	X	x 9/29/18	K K	X	
2 PHO	A & V		\	1010		
0	2 80.5			0250		
0	HOSR (00 7)		<b>+</b>	6928		
7-010	0		9/28/23	1065		
0	03 RQ Z			018		
	2			88		
10				1328		
horte 6		X .		335		
10 PH	PHOS (20.5)	¥	*	1512 A M	6	
and Damages. Cardina ing those for negigen	lity and client's exclusive remedy for any claim any other cause whatsoever shall be deemed of or consequental damages, including without	arising whether based in contract or tor waiwed unless made in writing and rece limitation, business interruptions, loss o	t, shall be limited to the amount paid lived by Cardinal within 30 days after if use, or loss of profits incurred by cli-	by the client for the completion of the applicable ent, its subsidiaries,		
service. In no event shall Cartonal be listore for insurant or consequence of services hereunder to affiliates or successors arising out of or related to the performance of services hereunder to	rformance of services hereunder L. Cardinal	Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise	sed upon any of the above stated rear	sons or otherwise.	ONO	Add'l Phone #:
Relinquished By:		ceived By:	A A	All Results are emailed. Please provide Email address:	are emailed. Plazze provide Email address:	address:
Relinquished By	1	Received By:		REMARKS:	,	
Delivered By: (Circle One)	Observed Temp. °C	10	34:	Turnaround Time:	Standard K	Bacteria (only) Sample Condition Cool Intact Observed Temp
Sampler - UPS - Bus - Other:	3.5	Cool Intact	(initials)	Thermometer ID #140		□Yes □ Yes

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



	(5/5) 393-2326 FAX (5/5) 393-2476	FAX (575) 393-2	476					
Company Name: Ensolum, LLC	: Ensolum, LLC			BILL TO	9		ANALYSIS REQUEST	
Project Manager:	Amee Cal			P.O. #:		-		1
Address: 5	122 Nathani	Parks Hung		Company: 37	1.01			
city: (a)	arisbud	State: VM	Zip: \$8220	Aun: A Kolto	Berio			
Phone #: 72	2-384-736S	S Fax #:		ShO   Ses	Fast Pass			
Project #: 0 3	12012	Project Owner:	" BTH O'I	ad land				
Project Name:	Mesa 4105	JU-P-	子と手	State: [x Zip: 7470]	970)			
Project Location:	11,010°22 "	12	103,64973	渉				
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FOR LAB USE ONLY	(			PRESERV. SA	SAMPLING			
Lab I.D. H 235328	Sample I.D.	Depth (feet)	G)RAB OR (C)OM CONTAINERS GROUNDWATER WASTEWATER SOIL DIL SLUDGE	OTHER: CID/BASE: DE / COOL OTHER:		BTEX CI-		
11	A SONG	17.	~ X	X	_	XX		1
12	0.00	7.			2450			
74	COHO	0.5			1036			
/5	PH67A	2	*	*		€ €		
PLEASE NOTE: Liability and plantyses. All claims including service. In no event shall Can services or successors arising	Damages, Cardinal's liability and cl those for negligence and any other final be liable for socidental or cone out of or related to the performanc	ilent's exclusive remedy for any r cause whetsoover shall be de equental damages, including v e of services hereunder by Cau	PLEASE NOTE: Liability and Dimages, Cardinal's inshifty and client's exclusive renotity or any chain arising whether based in contract or fort, shall be limited to the amount paid by the client for the analyses. All claims including shoes for negligence and any other cause whatboower shall be decimed waived unless made in willing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be itselfs for incidential decimages, including whiteroid similation, business interruptions, loss of tare, or loss of profits instruct by client, its subsidiaries, of the contract of the performance of services hereunder by Cardinal trajections of whither such claims is based close to the shower shall contract the shower shall be aboved.	or tort shall be limited to the amount pa received by Cardinal within 30 days aft as of use, or loss of profits incurred by	id by the client for the applier completion of the application, its subsidiaries,	icable	-	L
Relinquished By	M	1328 Date:	Received By:	Molady	Verbal Result: U Y All Results are emaile \(\lambda CO \  \emptyset \\ \text{REMARKS}:\)	emailed. Please	Verbal Result: Dyes DNo Add" Phone #: All Results are emailed. Please provide Email address:  CCOLO Prosdum: On, Ng reew Dens Juin. C REMARKS:	Com
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C	Sample Condition Cool Intact Pres Tyes	CHECKI (Initi	Turnaround Time: Thermometer ID #113			
LUKM-000 K 3.2 10/07/2	3.2 10/07/21	+ Cardinal cannot accoun	* 10		Correction Factor	15. 200	29/23       No   No   Corrected Temp. °C	



October 26, 2023

AIMEE COLE ENSOLUM 3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: MESA 8105 JVP #4H BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 10/24/23 16:43.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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.

Celey D. Keine

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. Keene

Lab Director/Quality Manager



### Analytical Results For:

**ENSOLUM** AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/24/2023 Sampling Date: 10/24/2023 Reported: 10/26/2023 Sampling Type: Soil

Project Name: MESA 8105 JVP #4H BATTERY Sampling Condition:

Cool & Intact Project Number: 03C2012065 Sample Received By: Shalyn Rodriguez

Project Location: BTA 32.06412,-103.64973

### Sample ID: FS 01 @ 2' (H235843-01)

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	10/25/2023	ND	2.06	103	2.00	0.608	
Toluene*	<0.050	0.050	10/25/2023	ND	2.03	102	2.00	7.52	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.09	104	2.00	8.89	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	6.36	106	6.00	10.7	
Total BTEX	<0.300	0.300	10/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 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	160	16.0	10/26/2023	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	10/25/2023	ND	164	82.2	200	0.791	
DRO >C10-C28*	<10.0	10.0	10/25/2023	ND	169	84.5	200	0.00650	
EXT DRO >C28-C36	<10.0	10.0	10/25/2023	ND					
Surrogate: 1-Chlorooctane	73.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	78.4	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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 client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



### Analytical Results For:

**ENSOLUM** AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/24/2023 Sampling Date: 10/24/2023

Reported: Sampling Type: Soil 10/26/2023

Project Name: MESA 8105 JVP #4H BATTERY Sampling Condition: Cool & Intact Project Number: 03C2012065 Sample Received By: Shalyn Rodriguez

Project Location: BTA 32.06412,-103.64973

### Sample ID: FS 02 @ 1.5' (H235843-02)

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	10/25/2023	ND	2.06	103	2.00	0.608	
Toluene*	<0.050	0.050	10/25/2023	ND	2.03	102	2.00	7.52	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.09	104	2.00	8.89	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	6.36	106	6.00	10.7	
Total BTEX	<0.300	0.300	10/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 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	240	16.0	10/26/2023	ND	432	108	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	10/25/2023	ND	164	82.2	200	0.791	
DRO >C10-C28*	<10.0	10.0	10/25/2023	ND	169	84.5	200	0.00650	
EXT DRO >C28-C36	<10.0	10.0	10/25/2023	ND					
Surrogate: 1-Chlorooctane	73.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	78.8	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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 client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/24/2023 Sampling Date: 10/24/2023

Reported: 10/26/2023 Sampling Type: Soil

Project Name: MESA 8105 JVP #4H BATTERY Sampling Condition: Cool & Intact
Project Number: 03C2012065 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: BTA 32.06412,-103.64973

mg/kg

### Sample ID: FS 03 @ 2' (H235843-03)

BTEX 8021B

	<u> </u>	<u> </u>							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	2.06	103	2.00	0.608	
Toluene*	<0.050	0.050	10/25/2023	ND	2.03	102	2.00	7.52	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.09	104	2.00	8.89	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	6.36	106	6.00	10.7	
Total BTEX	<0.300	0.300	10/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-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	10/26/2023	ND	432	108	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	10/25/2023	ND	164	82.2	200	0.791	
DRO >C10-C28*	<10.0	10.0	10/25/2023	ND	169	84.5	200	0.00650	
EXT DRO >C28-C36	<10.0	10.0	10/25/2023	ND					
Surrogate: 1-Chlorooctane	81.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.7	% 49.1-14	8						

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Celey D. Keene



### Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

 Received:
 10/24/2023
 San

 Reported:
 10/26/2023
 San

Project Name: MESA 8105 JVP #4H BATTERY

Project Number: 03C2012065

Project Location: BTA 32.06412,-103.64973

Sampling Date: 10/24/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

### Sample ID: SW 01 @ 0-2' (H235843-04)

BTEX 8021B	mg	/kg	Analyze	d By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/26/2023	ND	2.06	103	2.00	2.98	
Toluene*	<0.050	0.050	10/26/2023	ND	2.14	107	2.00	3.10	
Ethylbenzene*	<0.050	0.050	10/26/2023	ND	2.14	107	2.00	2.78	
Total Xylenes*	<0.150	0.150	10/26/2023	ND	6.47	108	6.00	2.59	
Total BTEX	<0.300	0.300	10/26/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	10/26/2023	ND	432	108	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	10/25/2023	ND	164	82.2	200	0.791	
DRO >C10-C28*	<10.0	10.0	10/25/2023	ND	169	84.5	200	0.00650	
EXT DRO >C28-C36	<10.0	10.0	10/25/2023	ND					
Surrogate: 1-Chlorooctane	89.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.5	% 49.1-14	8						

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Celey D. Keine



### Analytical Results For:

**ENSOLUM** AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/24/2023 Sampling Date: 10/24/2023

Reported: Sampling Type: Soil 10/26/2023

Project Name: MESA 8105 JVP #4H BATTERY Sampling Condition: Cool & Intact Project Number: 03C2012065 Sample Received By: Shalyn Rodriguez

Project Location: BTA 32.06412,-103.64973

### Sample ID: SW 02 @ 0-1.5' (H235843-05)

BTEX 8021B	mg/	'kg	Analyze	d By: AW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/26/2023	ND	2.06	103	2.00	2.98	
Toluene*	<0.050	0.050	10/26/2023	ND	2.14	107	2.00	3.10	
Ethylbenzene*	<0.050	0.050	10/26/2023	ND	2.14	107	2.00	2.78	
Total Xylenes*	<0.150	0.150	10/26/2023	ND	6.47	108	6.00	2.59	
Total BTEX	<0.300	0.300	10/26/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	10/26/2023	ND	432	108	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	10/25/2023	ND	164	82.2	200	0.791	
DRO >C10-C28*	<10.0	10.0	10/25/2023	ND	169	84.5	200	0.00650	
EXT DRO >C28-C36	<10.0	10.0	10/25/2023	ND					
Surrogate: 1-Chlorooctane	77.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.1	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



### **Notes and Definitions**

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Freene

## CHAIN-OF CUSTODY AND ANALYSIS REQUEST



101 East Marland, Hobbs, NM 88240

eene@cardinallabsnm.com	Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinatlabsnm.com		FORWI-000 K 3.4 07717/25
( 48 hrs	3	Corrected Temp. °C	Sampler - UPS - Bus - Other
Standard Bacteria (only) Sa	Sample Condition CHECKED BY: Turnaround Time:	Observed Temp °C )	Political But (Circle One
	REMARKS:	Date: Received By:	Relinquished By:
de@ensolum.com.	odki great adel	5	Jaro J
Verbal Result: ☐ Yes ☐ No Add'I Phone #:		qual of related to the performance of services securious: Services Received By:	Relinquished By:
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	City: Moderno	20165 Project Owner: BTA	0300
	Address: 104 S. Fruss	384-736Fax#:	ne# 726-
	O Attn: Kelton Baire	State: NM Zip: 88220	city: Car Shad
	Company: 15TA O	Varioni Par	Address: 312
	P.O. #	mee Cole	Project Manager:
AWALTOID NEGOCOT	BILL TO	ENGLUM LLC	Company Name:
-		(575) 393-2326 FAX (575) 393-2476	(575)



November 02, 2023

AIMEE COLE
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: MESA 8105 JV-P #4H

Enclosed are the results of analyses for samples received by the laboratory on 10/26/23 14:00.

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

Wite Sough

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,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/26/2023 Reported: 11/02/2023

Project Name: MESA 8105 JV-P #4H

Project Number: 03C2012065

Project Location: 32.06412,-103.64973

Sampling Date: 10/25/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

### Sample ID: FS 04 2.5 (H235871-01)

DTEV 0021D

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	10/31/2023	ND	1.91	95.3	2.00	4.40	
Toluene*	<0.050	0.050	10/31/2023	ND	1.95	97.6	2.00	4.27	
Ethylbenzene*	<0.050	0.050	10/31/2023	ND	1.95	97.3	2.00	4.94	
Total Xylenes*	<0.150	0.150	10/31/2023	ND	5.81	96.9	6.00	4.90	
Total BTEX	<0.300	0.300	10/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-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	10/31/2023	ND	416	104	400	7.41	
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	10/31/2023	ND	198	99.0	200	4.77	
DRO >C10-C28*	64.3	10.0	10/31/2023	ND	201	100	200	1.24	
EXT DRO >C28-C36	16.1	10.0	10/31/2023	ND					
Surrogate: 1-Chlorooctane	109	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	127	% 49.1-14	8						

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Mile Sough



### Analytical Results For:

**ENSOLUM** AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/26/2023 Reported: 11/02/2023

Project Name: MESA 8105 JV-P #4H

Project Number: 03C2012065

Project Location: 32.06412,-103.64973 Sampling Date: 10/25/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

### Sample ID: FS 05 2.5 (H235871-02)

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	10/31/2023	ND	1.91	95.3	2.00	4.40	
Toluene*	<0.050	0.050	10/31/2023	ND	1.95	97.6	2.00	4.27	
Ethylbenzene*	<0.050	0.050	10/31/2023	ND	1.95	97.3	2.00	4.94	
Total Xylenes*	<0.150	0.150	10/31/2023	ND	5.81	96.9	6.00	4.90	
Total BTEX	<0.300	0.300	10/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500CI-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	10/31/2023	ND	416	104	400	7.41	
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	10/31/2023	ND	198	99.0	200	4.77	
DRO >C10-C28*	<10.0	10.0	10/31/2023	ND	201	100	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	10/31/2023	ND					
Surrogate: 1-Chlorooctane	87.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101 9	% 49.1-14	8						

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### Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/26/2023 Reported: 11/02/2023

Project Name: MESA 8105 JV-P #4H

Project Number: 03C2012065

Project Location: 32.06412,-103.64973

mg/kg

Sampling Date: 10/25/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

### Sample ID: FS 06 1.5 (H235871-03)

BTEX 8021B

DILX GOZID	ıııg,	ng .	Andryzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/31/2023	ND	1.91	95.3	2.00	4.40	
Toluene*	<0.050	0.050	10/31/2023	ND	1.95	97.6	2.00	4.27	
Ethylbenzene*	<0.050	0.050	10/31/2023	ND	1.95	97.3	2.00	4.94	
Total Xylenes*	<0.150	0.150	10/31/2023	ND	5.81	96.9	6.00	4.90	
Total BTEX	<0.300	0.300	10/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/31/2023	ND	416	104	400	7.41	
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	10/31/2023	ND	198	99.0	200	4.77	
DRO >C10-C28*	<10.0	10.0	10/31/2023	ND	201	100	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	10/31/2023	ND					
Surrogate: 1-Chlorooctane	79.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.9	% 49.1-14	8						

Analyzed By: JH

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Me Sough



### Analytical Results For:

**ENSOLUM** AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/26/2023 Reported: 11/02/2023

Project Name: MESA 8105 JV-P #4H

Project Number: 03C2012065

Project Location: 32.06412,-103.64973 Sampling Date: 10/25/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

### Sample ID: FS 07 1.5 (H235871-04)

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	10/31/2023	ND	1.91	95.3	2.00	4.40	
Toluene*	<0.050	0.050	10/31/2023	ND	1.95	97.6	2.00	4.27	
Ethylbenzene*	<0.050	0.050	10/31/2023	ND	1.95	97.3	2.00	4.94	
Total Xylenes*	<0.150	0.150	10/31/2023	ND	5.81	96.9	6.00	4.90	
Total BTEX	<0.300	0.300	10/31/2023	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	10/31/2023	ND	416	104	400	7.41	
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	10/31/2023	ND	198	99.0	200	4.77	
DRO >C10-C28*	<10.0	10.0	10/31/2023	ND	201	100	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	10/31/2023	ND					
Surrogate: 1-Chlorooctane	86.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.0	% 49.1-14	8						

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### Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/26/2023 Reported: 11/02/2023

Project Name: MESA 8105 JV-P #4H

Project Number: 03C2012065

Project Location: 32.06412,-103.64973

ma/ka

Sampling Date: 10/25/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

### Sample ID: FS 08 1.5 (H235871-05)

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/31/2023	ND	1.98	98.9	2.00	3.16	
Toluene*	<0.050	0.050	10/31/2023	ND	1.94	96.9	2.00	3.39	
Ethylbenzene*	<0.050	0.050	10/31/2023	ND	1.95	97.4	2.00	3.42	
Total Xylenes*	<0.150	0.150	10/31/2023	ND	5.48	91.4	6.00	2.64	
Total BTEX	<0.300	0.300	10/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.8	% 71.5-13	4						
Chloride, SM4500CI-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	10/31/2023	ND	416	104	400	7.41	
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	10/31/2023	ND	198	99.0	200	4.77	
DRO >C10-C28*	<10.0	10.0	10/31/2023	ND	201	100	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	10/31/2023	ND					
Surrogate: 1-Chlorooctane	98.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112	% 49.1-14	8						

Applyzod By: 14

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### Analytical Results For:

**ENSOLUM** AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/26/2023 Reported: 11/02/2023

Project Name: MESA 8105 JV-P #4H

Project Number: 03C2012065

Project Location: 32.06412,-103.64973 Sampling Date: 10/25/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

### Sample ID: SW 03 0-2.5 (H235871-06)

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	10/31/2023	ND	1.98	98.9	2.00	3.16	
Toluene*	<0.050	0.050	10/31/2023	ND	1.94	96.9	2.00	3.39	
Ethylbenzene*	<0.050	0.050	10/31/2023	ND	1.95	97.4	2.00	3.42	
Total Xylenes*	<0.150	0.150	10/31/2023	ND	5.48	91.4	6.00	2.64	
Total BTEX	<0.300	0.300	10/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.7	% 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	256	16.0	10/31/2023	ND	416	104	400	7.41	
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	10/31/2023	ND	198	99.0	200	4.77	
DRO >C10-C28*	<10.0	10.0	10/31/2023	ND	201	100	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	10/31/2023	ND					
Surrogate: 1-Chlorooctane	109 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	124 9	49.1-14	8						

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### Analytical Results For:

**ENSOLUM** AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/26/2023 Reported: 11/02/2023

Project Name: MESA 8105 JV-P #4H

Project Number: 03C2012065

Project Location: 32.06412,-103.64973 Sampling Date: 10/25/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

### Sample ID: SW 04 0-1.5 (H235871-07)

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	10/31/2023	ND	1.98	98.9	2.00	3.16	
Toluene*	<0.050	0.050	10/31/2023	ND	1.94	96.9	2.00	3.39	
Ethylbenzene*	<0.050	0.050	10/31/2023	ND	1.95	97.4	2.00	3.42	
Total Xylenes*	<0.150	0.150	10/31/2023	ND	5.48	91.4	6.00	2.64	
Total BTEX	<0.300	0.300	10/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.1	% 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	160	16.0	10/31/2023	ND	416	104	400	7.41	
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	10/31/2023	ND	198	99.0	200	4.77	
DRO >C10-C28*	<10.0	10.0	10/31/2023	ND	201	100	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	10/31/2023	ND					
Surrogate: 1-Chlorooctane	70.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.2	% 49.1-14	8						

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### Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 10/26/2023 Reported: 11/02/2023

Project Name: MESA 8105 JV-P #4H

Project Number: 03C2012065

Project Location: 32.06412,-103.64973

Sampling Date: 10/25/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

### Sample ID: SW 05 0-1.5 (H235871-08)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/31/2023	ND	1.98	98.9	2.00	3.16	
Toluene*	<0.050	0.050	10/31/2023	ND	1.94	96.9	2.00	3.39	
Ethylbenzene*	<0.050	0.050	10/31/2023	ND	1.95	97.4	2.00	3.42	
Total Xylenes*	<0.150	0.150	10/31/2023	ND	5.48	91.4	6.00	2.64	
Total BTEX	<0.300	0.300	10/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.9	% 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	320	16.0	10/31/2023	ND	416	104	400	7.41	
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	10/31/2023	ND	198	99.0	200	4.77	
DRO >C10-C28*	<10.0	10.0	10/31/2023	ND	201	100	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	10/31/2023	ND					
Surrogate: 1-Chlorooctane	75.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.8	% 49.1-14	8						

Analyzed By: JH

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### **Notes and Definitions**

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.

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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### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

### CARDINAL Laboratories 101 East Marland, Hobbs, NM 88240

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

Company Name		, , , ,						
Company want	Company Maine, Ensoluti, LLC			BILL TO	0		ANALYSIS REQUEST	
r roject manager. Almee Cole	T. Almee Cole			P.O. #:				
Address: 3122	Address: 3122 National Parks Hwy			Company: BTA Oil		_		
City: Carlsbad		State: NM	Zip: 88220	Attn: Kelton Beaird				
Phone #: 432-557-8895	57-8895	Fax #:		Address: 104 S Pecos St	os St.			
Project #: 03C2012065	012065	Project Owner: BTA Oil	r: BTA Oil	City: Midland				
Project Name: N	Project Name: Mesa 8105 JV-P #4H			State: Texas Zip: 79701	701			
Project Location	Project Location: 32.06412, -103.64973	1973		Phone #:				
Sampler Name: Ronni Hayes	Ronni Hayes			Fax #:				
FOR LAB USE ONLY			MATRIX	SERV	SAMPLING	_		
Lab I.D.	Sample I.D.	Depth (feet)	OR (C)OMP. AINERS DWATER WATER	SE:	X	-		
4387			# CON GROUI	OTHER ACID/B. CE / CO OTHER	BT	TP		
_	FSOH	2.5	- ×	×	luss X	X		Ŧ
ىعد	FSOS	2.5		-	1256	-		1
· U	1500	1.5			1426			
) <del>(</del>	1007	1.5			1422			
ວິບ	FW8	1.5			N2 N1			1
1-0	SOUNCE	0-2.5			l dSh			
9-	1 9ms	0-1.5			2			
8	SW02	0-1.5	*	<	14364	6		
PLEASE NOTE: Liability and	Damages. Cardinal's liability and	client's exclusive remedy for an	PLEASE NOTE: Labilly and Damages. Cardinal's liability and client's exclusive remedy for any claim arraing whether based in contract or for, shall be limited to the	or tort, shall be limited to the amount or	aid by the client for the			
service. In no event shall Care affiliates or successors arising	dinal be liable for incidental or cor out of or related to the performan	er cause whatsoever shall be d nsequental damages, including nce of services hereunder by Co	service. In no event shall Cardinal be liable for included any oner cause whatsperse ratal be deemed walved unless made in writing and received by Cardinal within 30 days after completion of the applicable efficiency in the event shall Cardinal be liable for included any of control of the supplicable efficiency in the state of t	ind received by Cardinal within 30 days at it, loss of use, or loss of profits incurred by m is based upon any of the above stated r	ler completion of the applicable client, its subsidiaries, easons or otherwise.			
B	1/2	100 mile 100	South All	med	Verbal Result: ☐ Yes ☐ No Add'l Phone #:  All Results are emailed. Please provide Email address:	☐ Yes ☐ No Add'I ailed. Please provide Em	Add'I Phone #: ide Email address:	
		Time:	received by.	9	REMARKS			
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Corrected Temp. C	Sample Cor Cool Inta	on CHECKED BY:	Turnaround Time: Thermometer ID #113	Standard	Bacteria (only) Sample Condition     Cool Intact Observed Temp. ℃	Ĉ
FORMPOOR	3.2 10/0/121			00	Correction Factor 0.5°C	出出	□ No □ No Corrected Temp. °C	റ്



APPENDIX E

**NMOCD Notifications** 

From: <u>Buchanan, Michael, EMNRD</u>
To: <u>Hadlie Green; Enviro, OCD, EMNRD</u>

Cc: Kelton Beaird; Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD; Velez, Nelson, EMNRD

Subject: RE: [EXTERNAL] BTA - Sampling Notification - Week of 09/11/2023

Date: Wednesday, September 6, 2023 2:31:06 PM

Attachments: <u>image005.jpg</u>

image006.png image007.png image008.png image009.png

### [ \*\*EXTERNAL EMAIL\*\*]

Good afternoon, Hadlie

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

Thank you,

Mike Buchanan • Environmental Specialist

Environmental Bureau
EMNRD - Oil Conservation Division
8801 Horizon Blvd. NE, Suite 260 | Albuquerque, NM 87113
505.490.0798 | michael.buchanan@emnrd.nm.gov
http://www.emnrd.nm.gov/ocd\_



From: Hadlie Green <a href="mailto:hgreen@ensolum.com">hgreen@ensolum.com</a> Sent: Wednesday, September 6, 2023 9:52 AM

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

Cc: Kelton Beaird < KBeaird@btaoil.com>

Subject: [EXTERNAL] BTA - Sampling Notification - Week of 09/11/2023

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 September 11, 2023.

- Mesa 8105 JV-P 013H / NCH1835547953, NAB1906552791, NAB1906551740
  - Sampling Date: 9/11/2023 @ 9:00 AM MST
- Mesa 8105-JV-P 004H / nOY1831160155
  - Sampling Date: 9/12-13/2023 @ 9:00 AM MST
- Rojo 18/19 & 38/39 Tank Battery / nAPP2103447746
  - Sampling Date: 9/12-13/2023 @ 9:00 AM MST
- Mesa 8105 JV-P #4H / nRM2004549559
  - Sampling Date: 9/14/2023 @ 9:00 AM MST
- Chiso 14 State Jet Pump Excavation / nAPP2205837214
  - Sampling Date: 9/14-15/2023 @ 9:00 AM MST
- Mesa B #2 Tank Battery / nAPP2113973789
  - Sampling Date: 9/15/2023 @ 9:00 AM MST

Thank you,



### **Hadlie Green**

Project Geologist 432-557-8895

hgreen@ensolum.com

**Ensolum, LLC** 

From: Rodgers, Scott, EMNRD

To: Hadlie Green; Hamlet, Robert, EMNRD; Velez, Nelson, EMNRD; Bratcher, Michael, EMNRD

Cc: Kelton Beaird; Tacoma Morrissey

Subject: RE: [EXTERNAL] BTA - Sampling Notification - Week of 09/25/2023

Date: Wednesday, September 20, 2023 3:06:34 PM

Attachments: <u>image005.jpg</u>

image006.png image007.png image008.png image009.png

You don't often get email from scott.rodgers@emnrd.nm.gov. Learn why this is important

### [ \*\*EXTERNAL EMAIL\*\*]

The OCD has received your notification. When reporting sampling at multiple locations it is required to provide and **date and time for each location**. 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.

Scott Rodgers • Environmental Specialist

Environmental Bureau
EMNRD - Oil Conservation Division
8801 Horizon Blvd. NE, Suite 260 | Albuquerque, NM 87113
505.469.1830 | scott.rodgers@emnrd.nm.gov
http://www.emnrd.nm.gov/ocd



From: Hadlie Green <a href="mailto:hgreen@ensolum.com">hgreen@ensolum.com</a>>
Sent: Wednesday, September 20, 2023 3:02 PM

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

Cc: Kelton Beaird <KBeaird@btaoil.com>; Tacoma Morrissey <tmorrissey@ensolum.com>

Subject: [EXTERNAL] BTA - Sampling Notification - Week of 09/25/2023

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 September 25, 2023.

### Harroun East Tank Battery / nAPP2202845563

- Sampling Date: 9/27-28/2023 @ 9:00 AM MST
- Mesa 8105 JV-P #4H / nRM2004549559
  - Sampling Date: 9/28-29/2023 @ 9:00 AM MST

Thank you,



### **Hadlie Green**

Project Geologist 432-557-8895 hgreen@ensolum.com Ensolum, LLC From: Wells, Shelly, EMNRD

To: Hadlie Green; Hamlet, Robert, EMNRD; Velez, Nelson, EMNRD; Maxwell, Ashley, EMNRD; Bratcher, Michael,

**EMNRD** 

Cc: Kelton Beaird; Aimee Cole; Tacoma Morrissey

Subject: RE: [EXTERNAL] BTA - Sampling Notification - Week of 10/23/2023

**Date:** Thursday, October 19, 2023 10:11:07 AM

Attachments: image001.png

image002.png image003.png image004.png

### [ \*\*EXTERNAL EMAIL\*\*]

Good morning Hadlie,

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

Thank you,

Shelly

Shelly Wells \* Environmental Specialist-Advanced

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 <a href="mailto:hgreen@ensolum.com">hgreen@ensolum.com</a>>
Sent: Thursday, October 19, 2023 9:57 AM

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

**Cc:** Kelton Beaird <KBeaird@btaoil.com>; Aimee Cole <acole@ensolum.com>; Tacoma Morrissey <tmorrissey@ensolum.com>

Subject: [EXTERNAL] BTA - Sampling Notification - Week of 10/23/2023

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

All,

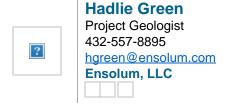
BTA anticipates collecting confirmation samples at the following locations the week of October 23, 2023.

RGA #1 / nAPP2228347919

Sampling Date: 10/24/2023 @ 9:00 AM MST

- Mesa 8105 JV-P #4H Battery / NRM2004549559
  - Sampling Date: 10/24-27/2023 @ 9:00 AM MST
- Mesa 8105-JV-P 004H / NOY1831160155
  - Sampling Date: 10/25-26/2023 @ 9:00 AM MST
- Vaca West Tank Battery / nAPP2202849030
  - Sampling Date: 10/25-27/2023 @ 9:00 AM MST
- Ogden 20509 1-3H Tank Battery / NAB1905943420
  - Sampling Date: 10/27/2023 @ 9:00 AM MST

Thank you,





**APPENDIX F** 

Final C-141

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

State of New Mexico Energy Minerals and Natural Resources Department

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	NRM2004549559	
District RP		
Facility ID		
Application ID		

### **Release Notification**

### **Responsible Party**

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

### **Location of Release Source**

Latitude: 32.06412° Longitude: -103.64973°

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Mesa 8105 JV-P #4H Battery  Date Release Discovered: 2/12/2020		Site Type: Tank Battery			
		API# (if applicable) Nearest well: Mesa 8105 JV-P #4H API #30 025-42842			
Unit Letter	Section	Township	Range		County
_	11	266	225	100	

Surface Owner:   State	Private (Name:		)

### **Nature and Volume of Release**

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)				
Crude Oil	Volume Released (bbls) 47 BBL	Volume Recovered (bbls) 45 BBL		
Produced Water	Volume Released (bbls) 21 BBL	Volume Recovered (bbls) 20 BBL		
	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 (provide units)		
Cause of Release				
Attributed to cold weather, gas supply line froze causing dump valve malfunction on separator that sent fluid to				
compressor and caused the catch tank to overflow. Fluid spread along the side of the location, but stayed on				

the pad. (See included details of spill document.)

Received by OCD: 11/15/2023 12:41:36 PM From C-141 State of New Mexico Oil Conservation Division Page 2

**Page 75 of 83** NRM2004549559

Incident ID District RP Facility ID Application ID

Was this a major release as defined by	If YES, for what reason(s) does the responsible party consider this a major release?
19.15.29.7(A) NMAC	The spill volume was greater than 25 BBL, which the NMOCD Rules define as a major
⊠ Yes □ No	release.
· ·	e notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
Form C-141 to NM	vided by distribution of the Release Notification and Initial Response sections of the OCD and BLM.
	Initial Response
The responsi	ble party must undertake the following actions immediately unless they could create a safety hazard that would result in injury
The source of the	release has been stopped.
	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	d recoverable materials have been removed and managed appropriately.
If all the actions descri	bed above have not been undertaken, explain why:
Additional Initial R	Response Details: Vacuum truck recovered all free fluid. Backhoe on-site scraped up
impacted soil and	about 30 cubic yds were placed on plastic for disposal.
has begun, please attac	NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation ch a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred nent area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
	nformation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and
public health or the envir	are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger onment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have
	stigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In e of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
and/or regulations.	
Printed Name: Bob H	lall Title: Environmental Manager
Signature:	Day 2/12/2020
Signature:	Date: 2/13/2020
email: bhall@btaoi	Lcom Telephone: 432-682-3753
OCD Only	
	Date: 2/14/2020
L ROOMING BUILDING	(ATTO DATA - 1 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4

NRM2004549559

Mesa #4 API# 30-025-42842

Spill 2/12/2020

Pictures of Spill 2/12/2020





NRM2004549559 Mesa #4 API# 30-025-42842

Spill 2/12/2020

**Pictures of Spill Cleanup** 2/12/2020



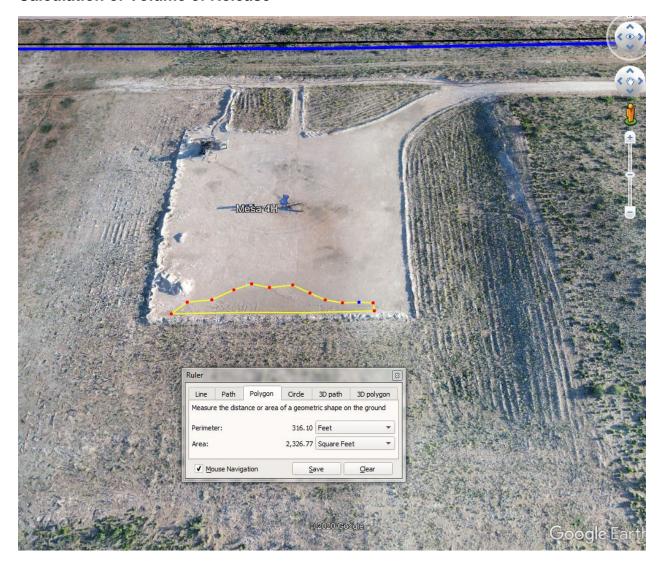


NRM2004549559

Mesa #4 API# 30-025-42842

Spill 2/12/2020

### **Calculation of Volume of Release**



2327 square feet

Used 50ft x 50ft = 2500 square feet as approximation in Spill Volume Calculation spreadsheet.

Location Mesa #4H API# 30-025-42842 **Spill Date** 2/12/2020

### **Spill Dimensions**

**ENTER** - Length of Spill 50 feet **ENTER** - Width of Spill 50 feet **ENTER** - Saturation Depth of Spill inches

**ENTER** - Porosity Factor 0.03 decimal

### Oil Cut - Well Test / Vessel Throughput or Contents

Oil Water Calculated Oil Cut

### **Volume Recovered in Truck / Containment**

**ENTER** - Recovered Oil 45 BBL **ENTER** - Recovered Water BBL 20

### **Calculated Values**

Release of Oil in Soil - Unrecovered 2 *BBL* BBL Release of Water in Soil - Unrecovered **Unrecovered Total Release** BBL

### **Calculated Values**

calculated Total Release of Oil 47 *BBL* 21 *BBL* Total Release of Water 68 **BBL Total Release** 

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

(Length X Width X Depth X 1 ft/12 in) X Porosity 5.615 ft<sup>3</sup> / BBL

Oil Cut Х (or Water Cut)

calculated

of New Mexico Page 80 of 83

Incident ID	NRM2004549559
District RP	
Facility ID	
Application ID	

### **Site Assessment/Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release?	>100 (ft bgs)			
Did this release impact groundwater or surface water?	☐ 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 <b>not</b> 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.				
<ul> <li>         \infty Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well in Field data     </li> </ul>	ls.			
☐ Data table of soil contaminant concentration data ☐ Depth to water determination				
Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release				
<ul> <li>☑ Boring or excavation logs</li> <li>☑ Photographs including date and GIS information</li> </ul>				
☐ 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.

Received by OCD: 11/15/2023 12:41:36 PM Form C-141 State of New Mexico Page 4 Oil Conservation Division

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	1 "8" 01 01
Incident ID	NRM2004549559
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.				
Printed Name: Kelton Beaird	Title: Environmental Manager			
Signature:	Date: 11/15/2023			
email: KBeaird@btaoil	Telephone: 432-312-2203			
OCD Only				
Received by: _Shelly Wells	Date: 11/15/2023			

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

	Page 82 of 8	3
ncident ID	NRM2004549559	
District RP		
Facility ID		
Application ID		

### Closure

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

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 must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office	
☐ Laboratory analyses of final sampling (Note: appropriate ODC	District office must be notified 2 days prior to final sampling)	
Description of remediation activities		
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of a	ediate contamination that pose a threat to groundwater, surface water, C-141 report does not relieve the operator of responsibility for ions. The responsible party acknowledges they must substantially ditions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete.  Title: Environmental Manager	
email: KBeaird@btaoil	Telephone: 432-312-2203	
OCD Only		
Received by: Shelly Wells	Date: <u>11/15/2023</u>	
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:Scott Rodgers	Date: 02/06/2024	
Printed Name: Scott Rodgers		

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

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

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

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

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

CONDITIONS

Action 286013

### **CONDITIONS**

	CODID
Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	286013
	Action Type:
	[C-141] Release Corrective Action (C-141)

### CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	None	2/6/2024