# **E N S O L U M**

February 14, 2024

**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 004H Incident Number nOY1831160155 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 delineation, excavation, and soil sampling activities performed at the Mesa 8105-JV-P 004H (Site), in accordance with an approved *Remediation Work Plan (Work Plan)* submitted June 9, 2023. The *Work Plan* proposed lateral and vertical delineation of the release. Based on the delineation activities completed and laboratory analytical results from the soil sampling events in accordance with the *Work Plan*, BTA is submitting this *Closure Request*, describing remediation that has occurred and requesting closure for Incident Number nOY1831160155.

Details regarding the release, Site characterization, and proposed remediation activities can be referenced in the original *Work Plan* submitted on June 9, 2023. The *Work Plan* is included as Appendix A. On August 18, 2023, the New Mexico Oil Conservation Division (NMOCD) approved the *Work Plan* with the following conditions:

Remediation Plan is conditionally approved. Horizontal delineation must meet the requirements of the reclamation standards 19.15.29.13 NMAC (600 mg/kg Cl, 100 mg/kg TPH, 50 mg/kg BTEX, 10 mg/kg benzene) or OCD approved "background" values for the upper 4 feet of the impacted area. Soil standards below 4 feet must be delineated/remediated to Table I Closure Criteria for the approved site-specific depth to groundwater. A surface visual footprint alone is not sufficient when assessing the horizontal extent of the release. Laboratory data must be provided as evidence of delineation efforts. Confirmation soil samples must consist of a five-point composite sample representing a surface area of no more than 200 ft2 unless otherwise approved.

### BACKGROUND

The Site is located in Unit C, Section 11, Township 26 South, Range 32 East, in Lea County, New Mexico (32.065054°, -103.64362°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On October 23, 2018, a water transfer line was cut in half during pipeline construction operations and resulted in the release of approximately 60 barrels (bbls) of produced water and 15 bbls of crude oil into the surrounding pasture area. A vacuum truck was dispatched to the Site to recover free-standing fluids; approximately 50 bbls of produced water and 8 bbls of crude oil were recovered. The release affected

BTA Oil Producers, LLC Closure Request Mesa 8105-JV-P 004H

an approximate 9,688 square foot area on the south side of the lease road. BTA reported the release immediately via email to the NMOCD and submitted a *Release Notification Form C-141* (Form C-141) on November 7, 2018. The release was assigned Incident Number nOY1831160155.

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). Based on the results of the Site Characterization reported in the June 2023 *Work Plan* (Appendix A), 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

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

### DELINEATION ACTIVITIES AND ANALYTICAL RESULTS

On September 12, 2023, Ensolum personnel were at the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. No visible indications of the historical release were observed during the Site visit. Four delineation soil samples (SS01 through SS04) were collected around the inferred release extent at a depth of 0.5 feet below ground surface (bgs) to assess the lateral extent of chemicals of concern (COCs) resulting from the produced water and crude oil release. Boreholes BH01 through BH08 were advanced via hand auger within the inferred release extent to assess the vertical extent of the release. The boreholes were advanced to a depth of 4 feet bgs. Discrete delineation soil samples were collected from the boreholes at depths ranging from 1-foot to 4 feet bgs. The delineation soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach<sup>®</sup> chloride QuanTab<sup>®</sup> test strips. Field screening results and observations were logged on lithologic/soil sampling logs, which are included in Appendix B. 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 C.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of the following 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 EPA Method SM4500.

Laboratory analytical results for delineation soil samples SS01 through SS04, collected around the inferred release extent, indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria and confirmed the lateral extent of the release. Laboratory analytical results for delineation samples collected from boreholes BH01 through BH04, BH06, and BH08, collected within the inferred release extent, indicated all COC concentrations were compliant with the Closure Criteria. Laboratory analytical results for delineation samples collected from boreholes BH01 through BH04, BH05, and BH08, collected within the inferred release extent, indicated all COC concentrations were compliant with the Closure Criteria. Laboratory analytical results for delineation samples collected from boreholes BH05 and BH07 indicated elevated TPH concentrations within the top 4 feet of the inferred release area and excavation activities



BTA Oil Producers, LLC Closure Request Mesa 8105-JV-P 004H

were warranted to address impacted and waste-containing soil. Laboratory analytical results are summarized in Table 1 and the complete analytical reports are included as Appendix D.

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

Between January 3 and January 15, 2024, Ensolum personnel were at the Site to oversee excavation activities based on laboratory analytical results for boreholes BH05 and BH07. Excavation activities were performed utilizing a hydrovac and back-hoe. To direct excavation activities, soil was screened for VOCs and chloride. The excavation was completed to a depth of 4 feet bgs. Photographic documentation of the excavation activities is included in Appendix C.

Following removal of impacted soil, 5-point composite soil samples were collected every 200 square feet from the floor and sidewall of the excavation extents. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Confirmation soil samples FS01 through FS09 were collected from the floor of the excavation at a depth of 4 feet bgs. Confirmation soil samples SW01 through SW06 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 4 feet bgs. The excavation soil samples were collected, handled, and analyzed following the same procedures as described above.

Laboratory analytical results for the excavation soil samples FS01 through FS09 and SW01 through SW06 indicated all COC concentrations were compliant with the Site Closure Criteria and reclamation requirement. The excavation extent and excavation soil sample locations are presented on Figure 4. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included as Appendix D.

The excavation area measured approximately 1,520 square feet. A total of approximately 225 cubic yards of impacted soil were removed during the excavation activities. The impacted soil was transported and properly disposed of at the Lea Land, LLC in Hobbs, New Mexico. The excavation will be backfilled with non-waste containing soil and reseeded with an approved BLM seed mixture.

### **CLOSURE REQUEST**

Delineation and excavation activities were conducted at the Site to assess for the presence or absence of impacted soil resulting from the October 2018 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 Closure Criteria and reclamation requirement. Based on laboratory analytical results, impacted soil was excavated and no further remediation is required.

Initial response efforts and excavation of impacted soil have mitigated adverse effects at this Site. BTA believes these remedial actions are protective of human health, the environment, and groundwater. As such, BTA respectfully requests closure for Incident Number nOY1831160155. Notifications submitted to the NMOCD are included in Appendix E and the final Form C-141 is included as Appendix F.



BTA Oil Producers, LLC Closure Request Mesa 8105-JV-P 004H

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

Sincerely, Ensolum, LLC

adrie Treen

Hadlie Green Project Geologist

Daniel R. Moir, PG Senior Managing 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 Location
- Table 1Soil Sample Analytical Results
- Appendix A June 9, 2023, Remediation Work Plan
- Appendix B Lithologic Soil Sampling Logs
- Appendix C Photographic Log
- Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation
- Appendix E NMOCD Notifications
- Appendix F Final C-141

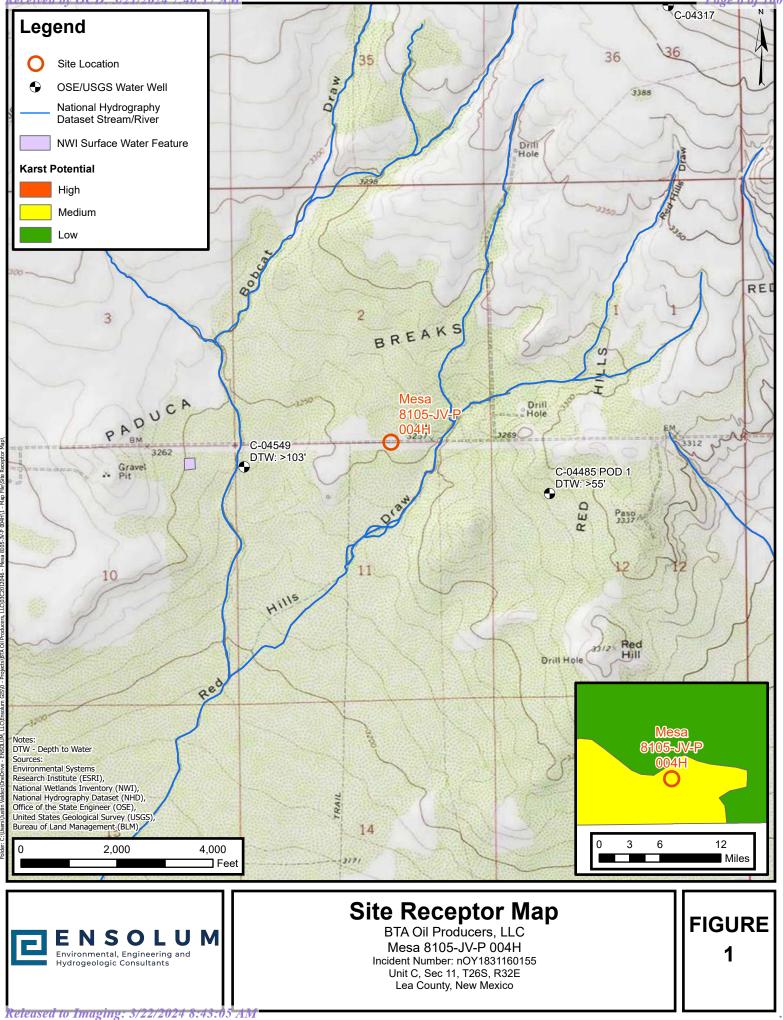




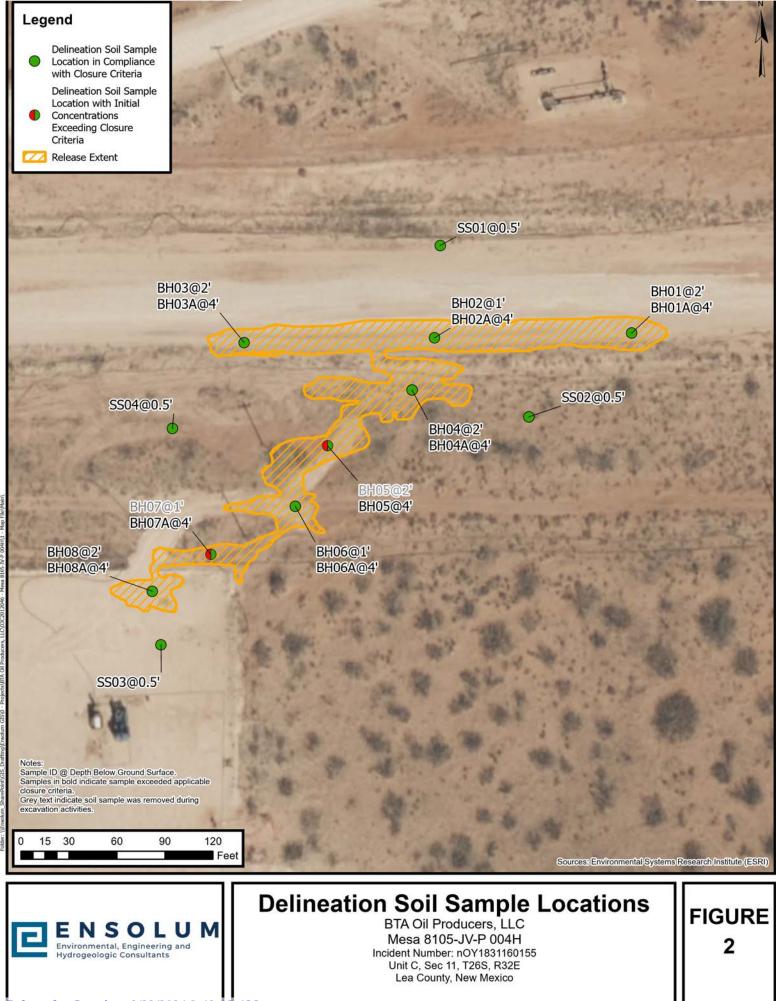
FIGURES

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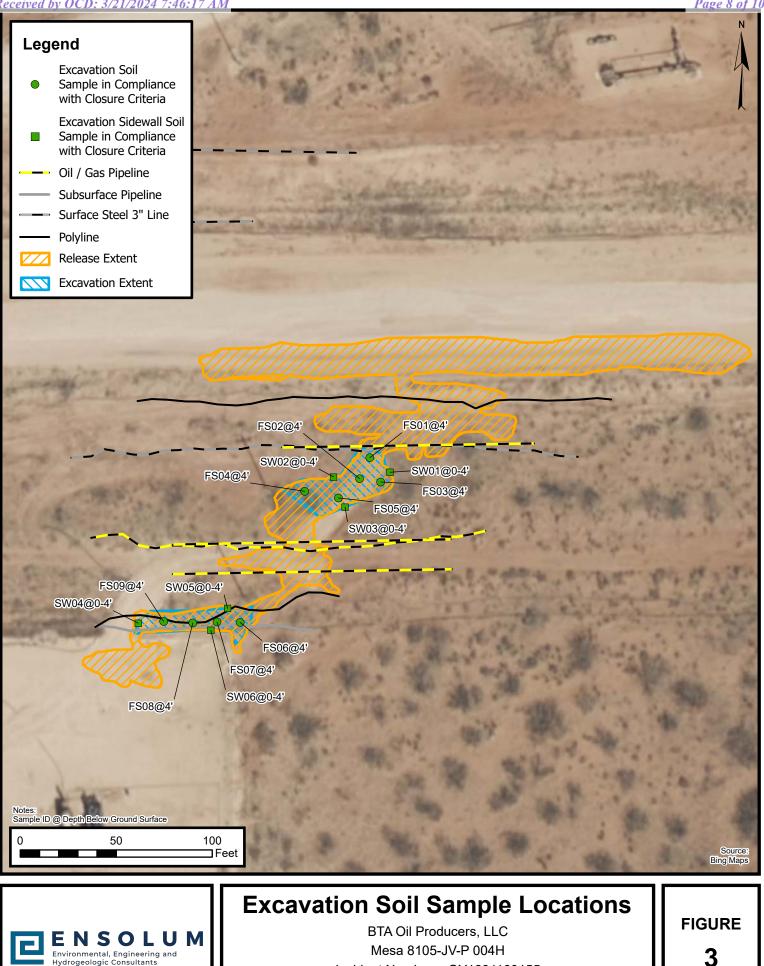


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Mesa 8105-JV-P 004H Incident Number: nOY1831160155 Unit C, Sec 11, T26S, R32E Lea County, New Mexico

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# TABLES

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# ENSOLUM

				MES BTA	LE ANALYTIC SA 8105-JV-P Oil Producers County, New M	004H s, LLC				
Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
				Asse	ssment Soil Sa	Imples	•		•	•
BH01*	09/12/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
BH01A	09/12/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
BH02*	09/12/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
BH02A	0912/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
BH03*	09/12/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
BH03A	09/12/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
BH04*	09/12/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
BH04A	09/12/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
BH05*	09/12/2023	2	<0.050	<0.300	16.9	1,100	344	1,117	1,461	192
BH05A	09/12/2023	4	<0.050	<0.300	<10.0	491	178	491	669	224
BH06*	09/12/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
BH06A	09/12/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
BH07*	09/12/2023	1	< 0.050	<0.300	23.0	2,410	829	2,433	3,262	32.0
BH07A	09/12/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
BH08	09/12/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
BH08A	09/12/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS01*	09/12/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS02*	09/12/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS03	09/12/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS04*	09/12/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0

TABLE 1

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# E N S O L U M

					Oil Producers County, New M					
Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I CI	osure Criteria (I	NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
Excavation Floor Soil Samples										
FS01	01/05/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS02	01/08/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
FS03	01/08/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
FS04	01/08/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
FS05	01/08/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
FS06	01/08/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
FS07	01/15/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS08	01/15/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS09	01/15/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
				Excavatio	on Sidewall Soi	I Samples				
SW01*	01/08/2024	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
SW02*	01/08/2024	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
SW03*	01/08/2024	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
SW04*	01/15/2024	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW05*	01/15/2024	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW06*	01/15/2024	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0

TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS MESA 8105-JV-P 004H

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

\* indicates sample was collected in area to be reclaimed after remediation is complete

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

Grey text represents samples that have been excavated.

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## APPENDIX A

June 9, 2023, Remediation Work Plan



June 8, 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: Remediation Work Plan Mesa 8105-JV-P 004H Incident Number nOY1831160155 Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of BTA Oil Producers, LLC (BTA), has prepared the following *Remediation Work Plan* (*Work Plan*) for the October 23, 2018, crude oil and produced water release at the Mesa 8105-JV-P 004H (Site). The following *Work Plan* proposes to complete Site assessment and delineation activities to assess for the presence or absence of impacts to soil resulting from the historical release at the Site.

### 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 (32.065054°, -103.64362°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On October 23, 2018, a water transfer line was cut in half during pipeline construction operations and resulted in the release of approximately 60 barrels (bbls) of produced water and 15 bbls of crude oil into the surrounding pasture area. A vacuum truck was dispatched to the Site to recover free-standing fluids; approximately 50 bbls of produced water and 8 bbls of crude oil were recovered. The release impacted an approximate 9,688 square foot area on the south side of the lease road. BTA reported the release immediately via email to the New Mexico Oil Conservation Division (NMOCD) and submitted a *Release Notification Form C-141* (Form C-141) on November 7, 2018. The release was assigned Incident Number nOY1831160155.

### SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

Depth to groundwater at the Site is estimated to be 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

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 3122 National Parks Highway | Carlsbad, New Mexico 88220 | ensolum.com BTA Oil Producers, LLC Remediation Work Plan Mesa 8105-JV-P 004H

approximately 0.5 miles west of the Site. The soil boring was drilled during July 2021 to a total depth of 103 feet bgs, and no groundwater was encountered. 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 to the Site is a dry wash, located approximately 900 feet east of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and 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

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

### PROPOSED REMEDIATION WORK PLAN

Based on the unrecovered volume of crude oil and produced water and the age of the release, BTA proposes to complete Site assessment and delineation activities within and around the documented release extent to assess for the presence or absence of impacted soil resulting from the historical release at the Site. The documented release extent from October 2018 is depicted on the attached Figure 2. BTA requests approval to complete the following remediation activities:

- Soil samples will be collected outside of the documented release extent from a depth of 0.5 feet bgs to confirm the lateral extent of the surface release.
- Boreholes will be advanced via hand auger within the documented release extent to assess the vertical extent of impacted soil or determine if remediation activities have been previously completed.
- The proposed borehole and soil sample locations are shown on the attached Figure 3. Borehole locations may need to be adjusted slightly during field activities based on the location of underground utilities.
- Soil from the boreholes will be field screened at 1-foot intervals for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. Field screening results and observations will be logged on lithologic/soil sampling logs. Two delineation samples from each borehole will be submitted for laboratory analysis; the sample with the highest field screening result and the sample from the final borehole depth.



BTA Oil Producers, LLC Remediation Work Plan Mesa 8105-JV-P 004H

- Final depth of the boreholes will be determined by field screening results indicating compliance with the reclamation requirement in the top four feet or the Site Closure Criteria at depths greater than 4 feet. In the absence of elevated field screening results, the boreholes will be advanced to a depth of 4 feet bgs.
- The soil samples will be 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 will be transported under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of the following 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 EPA Method SM4500.
- Upon completion of the lateral and vertical delineation activities and review of the laboratory analytical results, BTA will prepare a follow-up *Remediation Work Plan* proposing additional remediation activities, if warranted, or a *Closure Request* if no impacted soil is identified.

BTA will complete the delineation activities within 90 days of the date of approval of this *Work Plan* by the NMOCD. BTA believes the scope of work described above meets requirements set forth in 19.15.29.13 NMAC and is protective of human health, the environment, and groundwater. As such, BTA respectfully requests approval of this *Work Plan* for Incident Number nOY1831160155.

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

Sincerely, **Ensolum, LLC** 

Caris Streen

Hadlie Green Project Geologist

Ashley L. Ager

Ashley Ager, M.S., PG Principal

cc: Kelton Beaird, BTA Nathan Sirgo, BTA Bureau of Land Management

Appendices:

Figure 1Site Receptor Map (2023)Figure 2Documented Release Extent (2018)Figure 3Proposed Delineation Soil Sample Locations (2023)Appendix AReferenced Well RecordsAppendix BFinal C-141



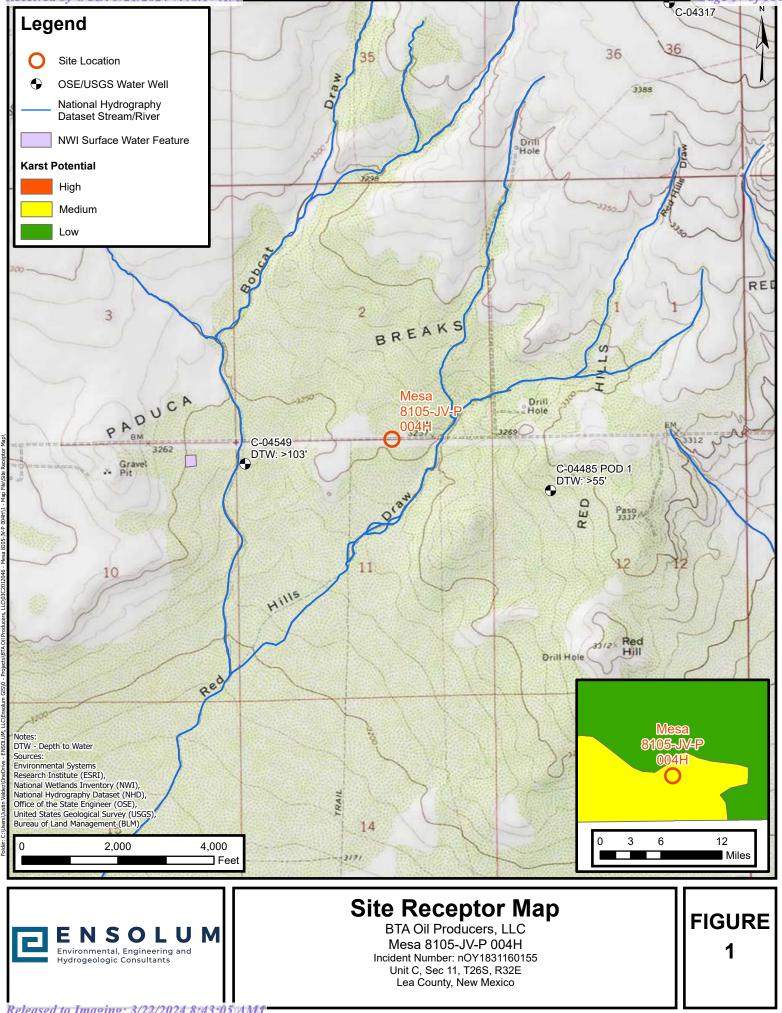


FIGURES

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Figure 2 Documented Release Extent (October 2018)





### **Proposed Delineation Soil Sample Locations**

BTA Oil Producers, LLC Mesa 8105-JV-P 004H Incident Number: nOY1831160155 Unit C, Sec 11, T26S, R32E Lea County, New Mexico FIGURE 3



# APPENDIX A

Referenced Well Records



# WELL RECORD & LOG

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## OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

· · · ·												
NOL	OSE POD NO POD1 (N	(W-1)				WELL TAG ID NO n/a			OSE FILE NO( C-4549	S).		
LOCAT	WELL OWN BTA Oil F								PHONE (OPTI	ONAL)		
GENERAL AND WELL LOCATION	WELL OWN 104 S. Pec		,ING A	ADDRESS					CITY STATE ZIP Midland TX 79701			
Ê	WELL			DI	GREES	MINUTES	SECO	NDS			····	
E A	LOCATIO		LATE	TIDE	32	4	40	.92 <sub>N</sub>	* ACCURACY	REQUIRED: ONE TEN	TH OF A SECOND	
NERA	(FROM G	PS)		HUDE	103	37	53	.68 W	* DATUM REG	QUIRED: WGS 84		
1. GE				WELL LOCATION TO T26S R32E	STREET ADD	RESS AND COMMO	N LANDM	IARKS – PLS	S (SECTION, TO	WNSHJIP, RANGE) WH	ERE AVAILABLE	
	LICENSE NO	<b>D</b> .		NAME OF LICENSED	DRILLER					NAME OF WELL DR	ILLING COMPANY	
	124					Jackie D. Atkins					ineering Associates, I	nc.
	DRILLING S 07/14/			DRILLING ENDED 07/14/2021		MPLETED WELL (F rary well materia			le depth (Ft) 103	DEPTH WATER FIR:	ST ENCOUNTERED (FT) n/a	
Z	COMPLETE	D WELL	IS:	ARTESIAN	DRY HO	LE 🗍 SHALLO	W (UNCO	ONFINED)		STATIC WATER LEV	EL IN COMPLETED WE	LL (FT)
OLL	DRILLING F	LUID:		AIR	MUD	ADDITT	ES - SPE	CIFY:		L		
2. DRILLING & CASING INFORMATION	DRILLING N	(ETHOD:				R CABLE 1	TOOL	OTHE	R – SPECIFY:	Hollow Stem Auger		
NFC	DEPTH	(feet bg	i)	BORE HOLE	CASING	MATERIAL ANI	D/OR			CASING		
I DI	FROM	т	)	DIAM		GRADE			SING ECTION	INSIDE DIAM.	CASING WALL THICKNESS	SLOT SIZE
ASIN				(inches)		each casing string, sections of screen)		т	YPE ing diameter)	(inches)	(inches)	(inches)
¢ C	0	10	3	±8.5		Boring- HSA		(	-			
NG 4					1-							
ררם						·						
DRI												
2.]											,	
	DEPTH	(feet bg	l)	BORE HOLE		ST ANNULAR SI				AMOUNT	METHO	
IVI	FROM	тс	)	DIAM. (inches)	GRA	VEL PACK SIZE	-RANGI	E BY INTE	RVAL	(cubic feet)	PLACEM	ENT
TER												
.WA												
AR												
ANNULAR MATERIAL												
AN												
Э.												
FOR	OSE INTER	NAL U	SE						WR-20	WELL RECORD	د LOG (Version 06/3)	 )/17)

FILE NO. C- 4549	POD NO.	TRN NO. 6983 8	
LOCATION 265-32E-11	1.1.1	WELL TAG ID NO. AA-	PAGE 1 OF 2

OSE DIT AUG 2 2021 PM4:45

	1		T								·····
	DEPTH (	feet bgl) TO	THICKNESS (feet)	INCLUDE WAT	TER-BEARIN	MATERIAL I G CAVITIES ( heets to fully d	OR FRAC	TURE ZONES	; В	WATER EARING? (ES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	0	4	4		Caliche, C	onsolidated, W	Vhite			Y √N	
	4	9	5	Cali	che, Consolida	ted, with fine-	grained, T	`an		Y √N	
	9	9 14 5 Caliche, Consolidated, White					Y √N				
	14	19	5	Cali	che, Consolida	ted, with fine-	grained, T	an		Y √N	
	19	69	50	Sand, Fine-g	rained poorly	graded, with ca	liche , Tar	ish Brown		Y √N	
H	69	79	103	С	lay, Stiff, High	Plasticity, Da	rk Brown,			Y √N	
4. HYDROGEOLOGIC LOG OF WELL										Y N	
04				· · · · · · · · · · · · · · · · · · ·						Y N	
l S										Y N	
										Y N	
Ĕ										Y N	
BE							· · ·			Y N	
N N										Y N	
HM										Y N	
4				· · · · · · · · · · · · · · · · · · ·						Y N	
										Y N	
										Y N	
										Y N	
							- "			Y N	
										Y N	
										Y N	
	METHOD U	SED TO ES	TIMATE YIELD	OF WATER-BEARIN	NG STRATA:				TOTAL ES	STIMATED	
	<b>PUM</b>	P 🗌 A	R LIFT	BAILER 🔲 O	THER - SPEC	ZIFY:			WELL YI	ELD (gpm):	0.00
NOISIA	WELL TES	T TEST	RESULTS - ATTA T TIME, END TIM	ACH A COPY OF DA ME, AND A TABLE S	TA COLLEC	TED DURING SCHARGE AN	WELL TH	ESTING, INCI DOWN OVE	LUDING D R THE TES	ISCHARGE I	METHOD, )D.
TEST; RIG SUPERVI	MISCELLANEOUS INFORMATION: Temporary well materials removed and the soil boring backfilled using drill cuttings from total depth to ten feet below ground surface, then hydrated bentonite chips from ten feet below ground surface to surface.										
TES	PRINT NAM	E(S) OF DF	ULL RIG SUPER	VISOR(S) THAT PRO	OVIDED ONS	ITE SUPERVI	SION OF	WELL CONS	TRUCTIO	NOTHER TH	IAN LICENSEE:
5.			on Pruitt, Carme								
TURE	CORRECT R	ECORD OF	' THE ABOVE D	IES THAT, TO THE I ESCRIBED HOLE AI DAYS AFTER COM	ND THAT HE	OR SHE WIL	L FILE T	E AND BELII HIS WELL RI	EF, THE FO	DREGOING I TH THE ST	IS A TRUE AND ATE ENGINEER
6. SIGNATURE	Jack Ar	tkins		Ja	ackie D. Atki	ns			0'	7/29/2021	
		SIGNATU	JRE OF DRILLE	R / PRINT SIGNEE	NAME					DATE	
FOF	OSE INTERN	AL USE						WR-20 WEL	LRECORD	& LOG (Ve	rsion 06/30/2017)
	e no. 🤇 –	454	19		POD NO.	1		TRN NO.	548	318	
LOC	CATION 2	68	LOCATION 265-30E-1 WELL TAG ID NO. NA PAGE							PAGE 2 OF 2	

### U Received by OCD: 3/21/2024 7:46:17 AM. 21.32311

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

	Output forr	nats		
Table of data				
Tab-separated data				
Graph of data				
Reselect period				

Page 23 106 100

Date 🗘 1	Time \$	Ø Water-level date-time accuracy	Parameter code	Water level, feet ≎ land surface	Water level, feet above \$ specific vertical datum	Referenced vertical \$ datum	Ø Status ≎	Method of measurement	<pre> @ Measuring  \$ agency </pre>	O Source of measurement ≎	Ø Water-level approval status
1993-06-16		D	62610		2723.41	NGVD29	1	L			A
1993-06-16		D	62611		2725.00	NAVD88	1	L			А
1993-06-16		D	72019	405.00			1	L			A
2013-01-16	19:10 UTC	m	62610		2906.47	NGVD29	P	S	USGS	S	A
2013-01-16	19:10 UTC	m	62611		2908.06	NAVD88	Р	S	USGS	S	A
Released to Imaging	z: 3/22/2024 8:4350.	5 <i>AMI</i> m	72019	221.94			Р	S	USGS	S	A



# APPENDIX B

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 Page2530f100

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

)

Incident ID	pOY1831158528
District RP	1RP-5261
Facility ID	
Application ID	NOY1831160155

## **Release Notification**

### **Responsible Party**

Responsible Party BTA Oil Producers	OGRID NM1195/NMB000	849 260297			
Contact Name Ben Grimes	Contact Telephone 432-682-3753				
Contact email bgrimes@btaoil.com	Incident # (assigned by OCD)	NOY1831160155			
Contact mailing address 104 South Pecos St. Midland, TX 79701					

### Location of Release Source

Latitude 32.065054

Longitude 103.64362 (NAD 83 in decimal degrees to 5 decimal places)

Sitc Name Mcsa 8105-JV-P 004H (Closest well related)	Site Type flowline/transfer
Date Release Discovered Oct 23 <sup>rd</sup> , 2018	API# (if applicable) 30-025-42842

Unit Letter	Section	Township	Range	County	Federal minerals
С	11	268	32E	Lea	Medium cave karst

Surface Owner: State Federal Tribal Private (Name:

### Nature and Volume of Release

Crude Oil	15 bbl. released	Volume Recovered 8 bbl.
Produced Water	Volume Released- 60 bbl.	Volume Recovered 50 bbl
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No not known at this time
Condensate	Volume Released (bbl.)	Volume Recovered (bbl.)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
transfer line was cut in on the same road. The l	line was isolated and repaired. A vacuum truck was cal	a spill on the south side of pipeline road. The water nost likely used during the pipeline construction currently led and recovered approx 8 bbl of oil and approx. 50 bbl. ist 1 ft, BGS due to rain and sandy soil in spill area. The

spill area was calculated by google earths measuring system using GPS points of spill. Environmental consultants will be retained to remediate spill and submit documentation.

III C-141	A 7:46:17 AM State of New Mexico	Incident ID	Page
2	Oil Conservation Division	District RP	
		Facility ID	
		Application ID	
🛛 Yes 🗌 No			
	notice given to the OCD? By whom? To whom? Wh	en and by what means (phone, email, etc.)?	

A

Initial	Response
---------	----------

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

 $\boxtimes$  The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

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

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

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

Printed Name: BenGimes Signature: Benfumes email: Bgrimes@BTAOIL.com	Title: Production Manager Date: 11/7/2018
email: <u>PGT: MES @ DTAO.T. Com</u>	Telephone: 432-682-3753
OCD Only Received by: RECEIVED By Olivia Yu at 8:18 am, Nov 08, 2018	Date:

Received by OCD: 3/21/2024	State of New Mexico		Page			
Form C-141			Incident ID	)	00 00	
Page 4	Oil Conservation Divisi	ion	District RP			
			Facility ID			
			Application	n ID		
regulations all operators are re public health or the environme failed to adequately investigate	hation given above is true and complete the equired to report and/or file certain releases the equired to report and/or file certain releases the acceptance of a C-141 report by e and remediate contamination that pose a C-141 report does not relieve the operate $Criterie Grime G$	e notifications and perform the OCD does not relieve a threat to groundwater, su	n corrective actions the operator of liab inface water, human npliance with any loction	s for releases whi bility should their n health or the en other federal, star Mana	ch may endanger r operations have avironment. In te, or local laws	
		Date:				

Received by OCD: 3/21/2024 7:46:17/AM State of New Mexico

Oil Conservation Division

	Page 28 (0 f 1 0
Incident ID	nOY1831160155
District RP	1RP-5261
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?	<u>&gt;100 (ft bgs)</u>
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.

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

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

Page 3

Received by OCD: 3/21/202477:46:174AM

Form C-141	State of New Mexico		Incident ID	nOY1831160155
Page 4	Oil Conservation Divisio	n	District RP	1RP-5261
			Facility ID	
			Application ID	
regulations all opera public health or the failed to adequately addition, OCD accep and/or regulations. Printed Name:H Signature: email:KBeaird(	Met D	otifications and perform co e OCD does not relieve the hreat to groundwater, surfac	orrective actions for relea operator of liability sho ce water, human health iance with any other fed Manager	ases which may endanger build their operations have or the environment. In leral, state, or local laws
OCD Only Received by:	Jocelyn Harimon	Date:06/	/09/2023	
L				

Received by OCD: 3/21/2024 7:46:17AM

State of New Mexico Oil Conservation Division

Ì	Incident ID	nOY1831160155
	District RP	1RP-5261
	Facility ID	
	Application ID	

### **Remediation Plan**

Remediation Plan Checklist: Each of the following items must be included in the plan.

Detailed description of proposed remediation technique

Scaled sitemap with GPS coordinates showing delineation points

Estimated volume of material to be remediated

Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC

Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.

Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

Extents of contamination must be fully delineated.

Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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 Beaurd	Title:Environmental Manager
Signature:	Date:6/9/2023
email:KBeaird@btaoil.com	Telephone:432-312-2203
OCD Only	
Received by: Jocelyn Harimon	Date: 06/09/2023
Approved Approved with Attached Conditions of A	Approval Denied Deferral Approved
Signature:	Date: 8/18/2023

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

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

District III

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

District IV

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

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

CONDITIONS

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	225739
	Action Type:
	[C-141] Release Corrective Action (C-141)
CONDITIONS	

Created By	Condition	Condition Date
jharimon	Remediation Plan is conditionally approved. Horizontal delineation must meet the requirements of the reclamation standards 19.15.29.13 NMAC (600 mg/kg Cl, 100 mg/kg TPH, 50 mg/kg BTEX, 10 mg/kg benzene) or OCD approved "background" values for the upper 4 feet of the impacted area. Soil standards below 4 feet must be delineated/remediated to Table I Closure Criteria for the approved site-specific depth to groundwater. A surface visual footprint alone is not sufficient when assessing the horizontal extent of the release. Laboratory data must be provided as evidence of delineation efforts. Confirmation soil samples must consist of a five-point composite sample representing a surface area of no more than 200 ft2 unless otherwise approved.	8/18/2023

CONDITIONS

Page 31%f100

Action 225739



APPENDIX B

Lithologic Soil Sampling Logs

								Sample Name: BH01	Date: 09/12/2023	
				2	ΟΙ			Site Name: Mesa 8105 JVP #004H		
L				3		- U		Incident Number: n041831160155	5	
						Job Number: 03C2012046				
		LITHOL	OGI		SAMPLING	LOG		Logged By: MR/CH	Method: Hand Auger	
Coord	dinates: 32	2.065049	, -103	.642784				Hole Diameter: 4"	Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride										
perfo	rmed with	n 1:4 dilut	ion fa	actor of soi	l to distilled	water. No co	orrection f	actors included.		
Moisture	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Des		
					1 -	1 0 -	SP	0-4' : Sand with trace caliche. I sorted, medium sub-rounded.		
D	<173.6	0.0	N		-	- - - 1 -				
D	<173.6	0.0	Ν	BH01	2 -	- 2 -				
D	<173.6	0.0	Ν		-	- 3 - 3				
D	<173.6	0.0	Ν	BH01A	4 -	- 4				
					_	– TD		Total Depth at 4' bgs.		
					-	-				
					-	-				
					-	-				
					_	-				
					_	- -				
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					-	<u> </u>				

								Sample Name: BH02	Date: 09/12/2023	
				C			R.A	Site Name: Mesa 8105 JVP #004H		
							Incident Number: n041831160155			
								Job Number: 03C2012046		
							Logged By: MR/CH	Method: Hand Auger		
							Hole Diameter: 4"	Total Depth: 4'		
								PID for chloride and vapor, respective factors included.	ctively. Chloride test	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)			Lithologic Descriptions		
					Ц -	1 0 -	SP/SM	0-1' : Sand with silt, dark brow medium sub-rounded. No stai		
М	<173.6	0.0	N	BH02	1	- 1 		1-4': Sand with silt, red , poorl sub-rounded grains. No stainii		
М	<173.6	0.0	N		+ + + +	2				
М	<173.6	0.0	Ν		+ + + +	- 3 -				
М	<173.6	0.0	Ν	BH02A	4 -	4		Total Dopth at 4' bas		
						- TD 		Total Depth at 4' bgs.		

								Sample Name: BH03	Date: 09/12/2023		
F			N	C				Site Name: Mesa 8105 JVP #00	04H		
Ľ	ENSOLUM							Incident Number: n041831160155			
								Job Number: 03C2012046			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: MR/CH	Method: Hand Auger		
-								Hole Diameter: 4"	Total Depth: 4'		
								PID for chloride and vapor, resp actors included.	pectively. Chloride test		
Moisture	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic	Descriptions		
					1	1 0	SP	0-4' : Sand with trace calich sorted, medium sub-round	he. Red/brown, poorly led. No staining, no odor,dry		
D	<173.6	0.0	N		-	- - 1 -					
D	<173.6	0.0	N	BH03	2 -	- 2 - 2					
D	<173.6	0.0	N		•	- - 3 -					
D	<173.6	0.0	N	BH03A	4 -	- 4					
						- TD		Total Depth at 4' bgs.			

									Sample Name: BH04	Date: 09/12/2023
			N	2				Λ	Site Name: Mesa 8105 JVP #004H	
<b>E</b> E N S O L U M								Incident Number: n041831160155		
									Job Number: 03C2012046	
		LITHOL	OGI		SAMPLING	LOG			Logged By: MR/CH	Method: Hand Auger
oord	linates: 32								Hole Diameter: 4"	Total Depth: 4'
omn	nents: Fiel	d screen	ing co	nducted w	ith HACH Ch	loride Test S	trips a	nd F	PID for chloride and vapor, respecti	vely. Chloride test
erfo	rmed with	1:4 dilut	tion fa	actor of soi	l to distilled	water. No co	orrecti	on fa	actors included.	
Kontent	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock	Symbol	Lithologic Des	scriptions
					-	I 0 -	SP/S		0-4' : Sand with silt. Red, medi poorly sorted, sub-rounded. No	
М	<173.6	0.0	N		-	- - 1 -				
Μ	<173.6	0.0	Ν	BH04	2 -	2				
Μ	<173.6	0.0	N		-	- 3 -				
Μ	<173.6	0.0	Ν	BH04A	4 -	4			Tatal Dauth at 4 has	
						- TD			Total Depth at 4' bgs.	

								Sample Name: BH05	Date: 09/12/2023		
				C				Site Name: Mesa 8105 JVP #			
			N	3	OL	. U		Incident Number: n0418311			
								Job Number: 03C2012046			
	L	ITHOLO	DGIC	/ SOIL S	AMPLING	LOG		Logged By: MR/CH	Method: Hand Auger		
Coord	inates: 32.0	)65049, -	103.6	42784				Hole Diameter: 4"	Total Depth: 4'		
			-					D for chloride and vapor, rest	spectively. Chloride test		
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologi	ic Descriptions		
					1 - -	L 0 -	SP/SM	0-3' : Sand with silt. Dark grained, poorly sorted, su odor,moist.	brown, medium to fine ub-rounded. No staining, no		
М	<173.6	44.7	N		-	- 1 - 1					
М	207.2	71.8	Ν	BH05	2 -	2					
М	173.6	69.4	N		-	- - 3 -		3-4': Sand with silt. Red, sorted. No staining, sligh			
М	280	0.7	N	BH05A	4 -	- 4					
						- TD		Total Depth at 4' bgs.			

								Sample Name: BH06	Date: 09/12/2023	
				C				Site Name: Mesa 8105 JVP #		
			N	D	ΟΙ			Incident Number: n04183116		
								Job Number: 03C2012046		
		LITHOL	OGI		SAMPLING	LOG		Logged By: MR/CH	Method: Hand Auger	
Coord	inates: 32							Hole Diameter: 4"	Total Depth: 4'	
					ith HACH Ch	loride Test S	trips and	PID for chloride and vapor, re		
							orrection f	actors included.		
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologi	c Descriptions	
					-	L 0 -	SP/SM	0-1' : Sand with silt. Red/k grained, poorly sorted,sul odor, moist.	prown, medium to fine b-rounded. No staining, slight	
м	<173.6	0.7	N	BH06	1	- 1			rown, medium to fine grained, d. No staining, no odor, moist.	
м	<173.6	0.0	N		-	- 2				
М	<173.6	0.0	N		-	- 3				
М	<173.6	0.0	Ν	BH06A	4 -	- 4 - TD		Total Depth at 4' bgs.		

								Sample Name: BH07	Date: 09/12/2023		
				C	ΟΙ			Site Name: Mesa 8105 JVP #0			
				3				Incident Number: n04183116	60155		
								Job Number: 03C2012046			
		LITHOL	OGI		SAMPLING	i log		Logged By: MR/CH	Method: Hand Auger		
Coord	linates: 32	2.065049,	-103	.642784				Hole Diameter: 4"	Total Depth: 4'		
								PID for chloride and vapor, res actors included.	spectively. Chloride test		
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic	Descriptions		
						1 0 -	SP/SM	0-1' : Sand with silt. Mediu sub-rounded, medium to f odorous, moist.	um red/brown, poorly sorted, fine grained. No staining,		
Μ	<173.6	57.7	N	BH07	1	1			m red/brown, poorly sorted, fine grained. No staining, no		
М	<173.6	0.7	N		-	- 2					
М	<173.6	0.3	N		-	- 3 					
Μ	<173.6	0.1	N	BH07A	4 -	- 4 - TD		Total Depth at 4' bgs.			

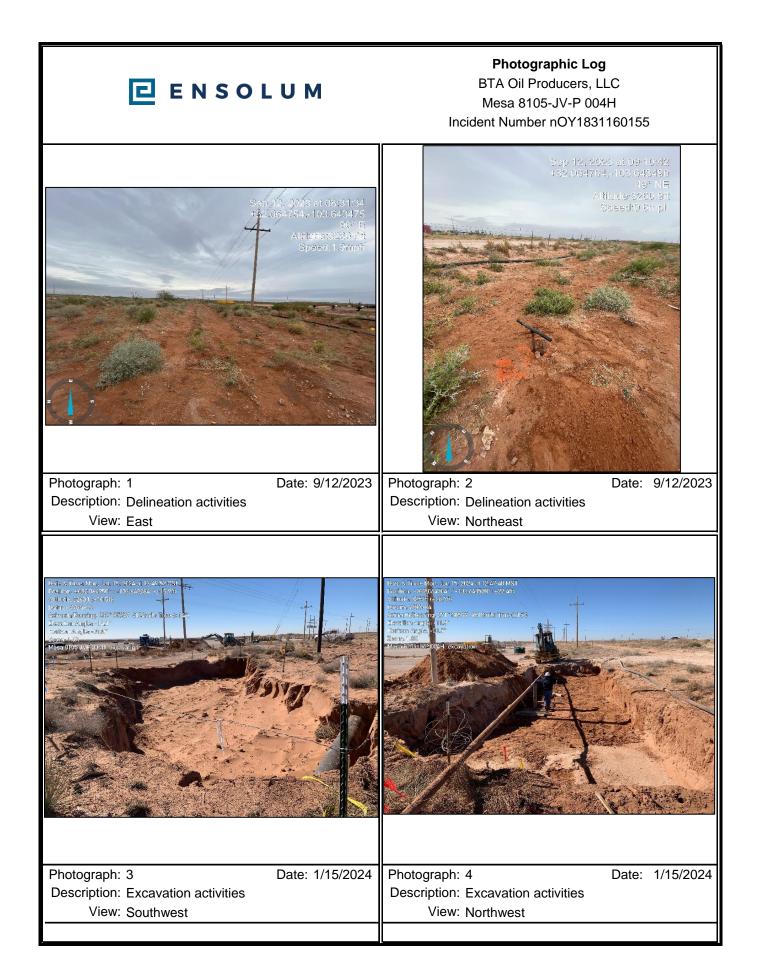
								Sample Name: BH08	Date: 09/12/2023	
								Site Name: Mesa 8105 JVP #0		
			N	2		_ U		Incident Number: n041831160155		
								Job Number: 03C2012046		
LITHOLOGIC / SOIL SAMPLING LOG							Logged By: MR/CH	Method: Hand Auger		
Coord	inates: 32							Hole Diameter: 4"	Total Depth: 4'	
					ith HACH Ch	loride Test S	Strips and	PID for chloride and vapor, res		
							orrection	factors included.		
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic	Descriptions	
						L 0	SP/SM	0-2' : Sand with silt. Dark r poorly sorted, sub-rounde moist.	ed, medium to fine grained, d. No staining, no odor,	
D	<173.6	0.0	N		-	- - 1 -				
D	<173.6	0.0	N	BH08	2	2		2-3': Sand with silt. Mediu grained,poorly sorted, sub odor,moist.		
D	<173.6	0.0	N		-	3			n/ light brown. Medium to , sub-rounded. No staining,	
D	<173.6	0.0	N	BH08A	- - 4 -	- - 4		Total Depth at 4' bgs.		



# APPENDIX C

Photographic Log

Released to Imaging: 3/22/2024 8:43:05 AM





## APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



September 18, 2023

HADLIE GREEN ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD, NM 88220

RE: MESA 8105 JVP #004H

Enclosed are the results of analyses for samples received by the laboratory on 09/12/23 13:45.

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\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/18/2023	Sampling Type:	Soil
Project Name:	MESA 8105 JVP #004H	Sampling Condition:	Cool & Intact
Project Number:	03C2012046	Sample Received By:	Dionica Hinojos
Project Location:	BTA ( 32.065054,-103.64362 )		

### Sample ID: BH 01 2' (H234927-01)

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	09/15/2023	ND	2.04	102	2.00	3.62	
Toluene*	<0.050	0.050	09/15/2023	ND	2.08	104	2.00	3.37	
Ethylbenzene*	<0.050	0.050	09/15/2023	ND	2.02	101	2.00	3.44	
Total Xylenes*	<0.150	0.150	09/15/2023	ND	6.04	101	6.00	2.66	
Total BTEX	<0.300	0.300	09/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/14/2023	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	09/13/2023	ND	191	95.3	200	1.24	
DRO >C10-C28*	<10.0	10.0	09/13/2023	ND	211	105	200	1.71	
EXT DRO >C28-C36	<10.0	10.0	09/13/2023	ND					
Surrogate: 1-Chlorooctane	94.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/18/2023	Sampling Type:	Soil
Project Name:	MESA 8105 JVP #004H	Sampling Condition:	Cool & Intact
Project Number:	03C2012046	Sample Received By:	Dionica Hinojos
Project Location:	BTA ( 32.065054,-103.64362 )		

### Sample ID: BH 01 A 4' (H234927-02)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2023	ND	1.92	95.9	2.00	2.05	
Toluene*	<0.050	0.050	09/14/2023	ND	1.98	98.8	2.00	1.15	
Ethylbenzene*	<0.050	0.050	09/14/2023	ND	2.02	101	2.00	0.924	
Total Xylenes*	<0.150	0.150	09/14/2023	ND	5.68	94.7	6.00	0.00354	
Total BTEX	<0.300	0.300	09/14/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/14/2023	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	09/13/2023	ND	191	95.3	200	1.24	
DRO >C10-C28*	<10.0	10.0	09/13/2023	ND	211	105	200	1.71	
EXT DRO >C28-C36	<10.0	10.0	09/13/2023	ND					
Surrogate: 1-Chlorooctane	95.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/18/2023	Sampling Type:	Soil
Project Name:	MESA 8105 JVP #004H	Sampling Condition:	Cool & Intact
Project Number:	03C2012046	Sample Received By:	Dionica Hinojos
Project Location:	BTA ( 32.065054,-103.64362 )		

### Sample ID: BH 02 1' (H234927-03)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2023	ND	1.92	95.9	2.00	2.05	
Toluene*	<0.050	0.050	09/14/2023	ND	1.98	98.8	2.00	1.15	
Ethylbenzene*	<0.050	0.050	09/14/2023	ND	2.02	101	2.00	0.924	
Total Xylenes*	<0.150	0.150	09/14/2023	ND	5.68	94.7	6.00	0.00354	
Total BTEX	<0.300	0.300	09/14/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/14/2023	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	09/13/2023	ND	191	95.3	200	1.24	
DRO >C10-C28*	<10.0	10.0	09/13/2023	ND	211	105	200	1.71	
EXT DRO >C28-C36	<10.0	10.0	09/13/2023	ND					
Surrogate: 1-Chlorooctane	98.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110 9	% 49.1-14	8						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/18/2023	Sampling Type:	Soil
Project Name:	MESA 8105 JVP #004H	Sampling Condition:	Cool & Intact
Project Number:	03C2012046	Sample Received By:	Dionica Hinojos
Project Location:	BTA ( 32.065054,-103.64362 )		

### Sample ID: BH 02 A 4' (H234927-04)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2023	ND	1.92	95.9	2.00	2.05	
Toluene*	<0.050	0.050	09/14/2023	ND	1.98	98.8	2.00	1.15	
Ethylbenzene*	<0.050	0.050	09/14/2023	ND	2.02	101	2.00	0.924	
Total Xylenes*	<0.150	0.150	09/14/2023	ND	5.68	94.7	6.00	0.00354	
Total BTEX	<0.300	0.300	09/14/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/14/2023	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	09/13/2023	ND	191	95.3	200	1.24	
DRO >C10-C28*	<10.0	10.0	09/13/2023	ND	211	105	200	1.71	
EXT DRO >C28-C36	<10.0	10.0	09/13/2023	ND					
Surrogate: 1-Chlorooctane	91.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103 9	% 49.1-14	8						

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### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/18/2023	Sampling Type:	Soil
Project Name:	MESA 8105 JVP #004H	Sampling Condition:	Cool & Intact
Project Number:	03C2012046	Sample Received By:	Dionica Hinojos
Project Location:	BTA ( 32.065054,-103.64362 )		

### Sample ID: BH 03 2' (H234927-05)

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	09/14/2023	ND	1.92	95.9	2.00	2.05	
Toluene*	<0.050	0.050	09/14/2023	ND	1.98	98.8	2.00	1.15	
Ethylbenzene*	<0.050	0.050	09/14/2023	ND	2.02	101	2.00	0.924	
Total Xylenes*	<0.150	0.150	09/14/2023	ND	5.68	94.7	6.00	0.00354	
Total BTEX	<0.300	0.300	09/14/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/14/2023	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	09/13/2023	ND	191	95.3	200	1.24	
DRO >C10-C28*	<10.0	10.0	09/13/2023	ND	211	105	200	1.71	
EXT DRO >C28-C36	<10.0	10.0	09/13/2023	ND					
Surrogate: 1-Chlorooctane	99.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112 9	49.1-14	8						

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\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/18/2023	Sampling Type:	Soil
Project Name:	MESA 8105 JVP #004H	Sampling Condition:	Cool & Intact
Project Number:	03C2012046	Sample Received By:	Dionica Hinojos
Project Location:	BTA ( 32.065054,-103.64362 )		

### Sample ID: BH 03 A 4' (H234927-06)

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	09/14/2023	ND	1.92	95.9	2.00	2.05	
Toluene*	<0.050	0.050	09/14/2023	ND	1.98	98.8	2.00	1.15	
Ethylbenzene*	<0.050	0.050	09/14/2023	ND	2.02	101	2.00	0.924	
Total Xylenes*	<0.150	0.150	09/14/2023	ND	5.68	94.7	6.00	0.00354	
Total BTEX	<0.300	0.300	09/14/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/14/2023	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	09/13/2023	ND	191	95.3	200	1.24	
DRO >C10-C28*	<10.0	10.0	09/13/2023	ND	211	105	200	1.71	
EXT DRO >C28-C36	<10.0	10.0	09/13/2023	ND					
Surrogate: 1-Chlorooctane	102 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	116 9	% 49.1-14	8						

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### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/18/2023	Sampling Type:	Soil
Project Name:	MESA 8105 JVP #004H	Sampling Condition:	Cool & Intact
Project Number:	03C2012046	Sample Received By:	Dionica Hinojos
Project Location:	BTA ( 32.065054,-103.64362 )		

### Sample ID: BH 04 2' (H234927-07)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2023	ND	1.92	95.9	2.00	2.05	
Toluene*	<0.050	0.050	09/14/2023	ND	1.98	98.8	2.00	1.15	
Ethylbenzene*	<0.050	0.050	09/14/2023	ND	2.02	101	2.00	0.924	
Total Xylenes*	<0.150	0.150	09/14/2023	ND	5.68	94.7	6.00	0.00354	
Total BTEX	<0.300	0.300	09/14/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/14/2023	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	09/13/2023	ND	191	95.3	200	1.24	
DRO >C10-C28*	<10.0	10.0	09/13/2023	ND	211	105	200	1.71	
EXT DRO >C28-C36	<10.0	10.0	09/13/2023	ND					
Surrogate: 1-Chlorooctane	104 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	117 9	49.1-14	8						

### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/18/2023	Sampling Type:	Soil
Project Name:	MESA 8105 JVP #004H	Sampling Condition:	Cool & Intact
Project Number:	03C2012046	Sample Received By:	Dionica Hinojos
Project Location:	BTA ( 32.065054,-103.64362 )		

### Sample ID: BH 04 A 4' (H234927-08)

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	09/14/2023	ND	1.92	95.9	2.00	2.05	
Toluene*	<0.050	0.050	09/14/2023	ND	1.98	98.8	2.00	1.15	
Ethylbenzene*	<0.050	0.050	09/14/2023	ND	2.02	101	2.00	0.924	
Total Xylenes*	<0.150	0.150	09/14/2023	ND	5.68	94.7	6.00	0.00354	
Total BTEX	<0.300	0.300	09/14/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/14/2023	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	09/13/2023	ND	191	95.3	200	1.24	
DRO >C10-C28*	<10.0	10.0	09/13/2023	ND	211	105	200	1.71	
EXT DRO >C28-C36	<10.0	10.0	09/13/2023	ND					
Surrogate: 1-Chlorooctane	106	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	119 9	% 49.1-14	8						

### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/18/2023	Sampling Type:	Soil
Project Name:	MESA 8105 JVP #004H	Sampling Condition:	Cool & Intact
Project Number:	03C2012046	Sample Received By:	Dionica Hinojos
Project Location:	BTA ( 32.065054,-103.64362 )		

### Sample ID: BH 05 2' (H234927-09)

BTEX 8021B	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/15/2023	ND	1.92	95.9	2.00	2.05	
Toluene*	<0.050	0.050	09/15/2023	ND	1.98	98.8	2.00	1.15	
Ethylbenzene*	<0.050	0.050	09/15/2023	ND	2.02	101	2.00	0.924	GC-NC
Total Xylenes*	<0.150	0.150	09/15/2023	ND	5.68	94.7	6.00	0.00354	
Total BTEX	<0.300	0.300	09/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	144 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	192	16.0	09/14/2023	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*	16.9	10.0	09/13/2023	ND	191	95.3	200	1.24	
DRO >C10-C28*	1100	10.0	09/13/2023	ND	211	105	200	1.71	
EXT DRO >C28-C36	344	10.0	09/13/2023	ND					
Surrogate: 1-Chlorooctane	99.8	48.2-13	4						
Surrogate: 1-Chlorooctadecane	101 9	6 49.1-14	8						

#### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/18/2023	Sampling Type:	Soil
Project Name:	MESA 8105 JVP #004H	Sampling Condition:	Cool & Intact
Project Number:	03C2012046	Sample Received By:	Dionica Hinojos
Project Location:	BTA ( 32.065054,-103.64362 )		

### Sample ID: BH 05 A 4' (H234927-10)

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	09/15/2023	ND	1.92	95.9	2.00	2.05	
Toluene*	<0.050	0.050	09/15/2023	ND	1.98	98.8	2.00	1.15	
Ethylbenzene*	<0.050	0.050	09/15/2023	ND	2.02	101	2.00	0.924	
Total Xylenes*	<0.150	0.150	09/15/2023	ND	5.68	94.7	6.00	0.00354	
Total BTEX	<0.300	0.300	09/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	09/14/2023	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	09/14/2023	ND	191	95.3	200	1.24	
DRO >C10-C28*	491	10.0	09/14/2023	ND	211	105	200	1.71	
EXT DRO >C28-C36	178	10.0	09/14/2023	ND					
Surrogate: 1-Chlorooctane	112 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

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

Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/18/2023	Sampling Type:	Soil
Project Name:	MESA 8105 JVP #004H	Sampling Condition:	Cool & Intact
Project Number:	03C2012046	Sample Received By:	Dionica Hinojos
Project Location:	BTA ( 32.065054,-103.64362 )		

### Sample ID: BH 06 1' (H234927-11)

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	09/14/2023	ND	1.92	95.9	2.00	2.05	
Toluene*	<0.050	0.050	09/14/2023	ND	1.98	98.8	2.00	1.15	
Ethylbenzene*	<0.050	0.050	09/14/2023	ND	2.02	101	2.00	0.924	
Total Xylenes*	<0.150	0.150	09/14/2023	ND	5.68	94.7	6.00	0.00354	
Total BTEX	<0.300	0.300	09/14/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/14/2023	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	09/14/2023	ND	191	95.3	200	1.24	
DRO >C10-C28*	<10.0	10.0	09/14/2023	ND	211	105	200	1.71	
EXT DRO >C28-C36	<10.0	10.0	09/14/2023	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	121	% 49.1-14	8						

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

Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/18/2023	Sampling Type:	Soil
Project Name:	MESA 8105 JVP #004H	Sampling Condition:	Cool & Intact
Project Number:	03C2012046	Sample Received By:	Dionica Hinojos
Project Location:	BTA ( 32.065054,-103.64362 )		

### Sample ID: BH 06 A 4' (H234927-12)

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	09/14/2023	ND	1.92	95.9	2.00	2.05	
Toluene*	<0.050	0.050	09/14/2023	ND	1.98	98.8	2.00	1.15	
Ethylbenzene*	<0.050	0.050	09/14/2023	ND	2.02	101	2.00	0.924	
Total Xylenes*	<0.150	0.150	09/14/2023	ND	5.68	94.7	6.00	0.00354	
Total BTEX	<0.300	0.300	09/14/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	09/14/2023	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	09/14/2023	ND	191	95.3	200	1.24	
DRO >C10-C28*	<10.0	10.0	09/14/2023	ND	211	105	200	1.71	
EXT DRO >C28-C36	<10.0	10.0	09/14/2023	ND					
Surrogate: 1-Chlorooctane	100 \$	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113 9	% 49.1-14	8						

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

Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/18/2023	Sampling Type:	Soil
Project Name:	MESA 8105 JVP #004H	Sampling Condition:	Cool & Intact
Project Number:	03C2012046	Sample Received By:	Dionica Hinojos
Project Location:	BTA ( 32.065054,-103.64362 )		

### Sample ID: BH 07 1' (H234927-13)

BTEX 8021B	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2023	ND	1.92	95.9	2.00	2.05	
Toluene*	<0.050	0.050	09/14/2023	ND	1.98	98.8	2.00	1.15	
Ethylbenzene*	<0.050	0.050	09/14/2023	ND	2.02	101	2.00	0.924	GC-NC
Total Xylenes*	<0.150	0.150	09/14/2023	ND	5.68	94.7	6.00	0.00354	
Total BTEX	<0.300	0.300	09/14/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	167	% 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	09/14/2023	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*	23.0	10.0	09/14/2023	ND	191	95.3	200	1.24	
DRO >C10-C28*	2410	10.0	09/14/2023	ND	211	105	200	1.71	
EXT DRO >C28-C36	829	10.0	09/14/2023	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112 9	% 49.1-14	8						

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

Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/18/2023	Sampling Type:	Soil
Project Name:	MESA 8105 JVP #004H	Sampling Condition:	Cool & Intact
Project Number:	03C2012046	Sample Received By:	Dionica Hinojos
Project Location:	BTA ( 32.065054,-103.64362 )		

### Sample ID: BH 07 A 4' (H234927-14)

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	09/14/2023	ND	1.92	95.9	2.00	2.05	
Toluene*	<0.050	0.050	09/14/2023	ND	1.98	98.8	2.00	1.15	
Ethylbenzene*	<0.050	0.050	09/14/2023	ND	2.02	101	2.00	0.924	
Total Xylenes*	<0.150	0.150	09/14/2023	ND	5.68	94.7	6.00	0.00354	
Total BTEX	<0.300	0.300	09/14/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/14/2023	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	09/14/2023	ND	191	95.3	200	1.24	
DRO >C10-C28*	<10.0	10.0	09/14/2023	ND	211	105	200	1.71	
EXT DRO >C28-C36	<10.0	10.0	09/14/2023	ND					
Surrogate: 1-Chlorooctane	106 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	124 9	% 49.1-14	8						

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Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/18/2023	Sampling Type:	Soil
Project Name:	MESA 8105 JVP #004H	Sampling Condition:	Cool & Intact
Project Number:	03C2012046	Sample Received By:	Dionica Hinojos
Project Location:	BTA ( 32.065054,-103.64362 )		

### Sample ID: BH 08 2' (H234927-15)

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	09/14/2023	ND	1.92	95.9	2.00	2.05	
Toluene*	<0.050	0.050	09/14/2023	ND	1.98	98.8	2.00	1.15	
Ethylbenzene*	<0.050	0.050	09/14/2023	ND	2.02	101	2.00	0.924	
Total Xylenes*	<0.150	0.150	09/14/2023	ND	5.68	94.7	6.00	0.00354	
Total BTEX	<0.300	0.300	09/14/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 %	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/14/2023	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	09/14/2023	ND	191	95.3	200	1.24	
DRO >C10-C28*	<10.0	10.0	09/14/2023	ND	211	105	200	1.71	
EXT DRO >C28-C36	<10.0	10.0	09/14/2023	ND					
Surrogate: 1-Chlorooctane	114 %	48.2-13	4						
Surrogate: 1-Chlorooctadecane	134 9	% 49.1-14	8						

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

Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/18/2023	Sampling Type:	Soil
Project Name:	MESA 8105 JVP #004H	Sampling Condition:	Cool & Intact
Project Number:	03C2012046	Sample Received By:	Dionica Hinojos
Project Location:	BTA ( 32.065054,-103.64362 )		

### Sample ID: BH 08 A 4' (H234927-16)

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	09/14/2023	ND	1.92	95.9	2.00	2.05	
Toluene*	<0.050	0.050	09/14/2023	ND	1.98	98.8	2.00	1.15	
Ethylbenzene*	<0.050	0.050	09/14/2023	ND	2.02	101	2.00	0.924	
Total Xylenes*	<0.150	0.150	09/14/2023	ND	5.68	94.7	6.00	0.00354	
Total BTEX	<0.300	0.300	09/14/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/14/2023	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	09/14/2023	ND	191	95.3	200	1.24	
DRO >C10-C28*	<10.0	10.0	09/14/2023	ND	211	105	200	1.71	
EXT DRO >C28-C36	<10.0	10.0	09/14/2023	ND					
Surrogate: 1-Chlorooctane	104 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	121 9	% 49.1-14	8						

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

Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/18/2023	Sampling Type:	Soil
Project Name:	MESA 8105 JVP #004H	Sampling Condition:	Cool & Intact
Project Number:	03C2012046	Sample Received By:	Dionica Hinojos
Project Location:	BTA ( 32.065054,-103.64362 )		

### Sample ID: SS 01 0.5' (H234927-17)

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	09/14/2023	ND	1.92	95.9	2.00	2.05	
Toluene*	<0.050	0.050	09/14/2023	ND	1.98	98.8	2.00	1.15	
Ethylbenzene*	<0.050	0.050	09/14/2023	ND	2.02	101	2.00	0.924	
Total Xylenes*	<0.150	0.150	09/14/2023	ND	5.68	94.7	6.00	0.00354	
Total BTEX	<0.300	0.300	09/14/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/14/2023	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	09/14/2023	ND	191	95.3	200	1.24	
DRO >C10-C28*	<10.0	10.0	09/14/2023	ND	211	105	200	1.71	
EXT DRO >C28-C36	<10.0	10.0	09/14/2023	ND					
Surrogate: 1-Chlorooctane	109	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	128	% 49.1-14	8						

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

Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/18/2023	Sampling Type:	Soil
Project Name:	MESA 8105 JVP #004H	Sampling Condition:	Cool & Intact
Project Number:	03C2012046	Sample Received By:	Dionica Hinojos
Project Location:	BTA ( 32.065054,-103.64362 )		

### Sample ID: SS 02 0.5' (H234927-18)

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	09/15/2023	ND	1.92	95.9	2.00	2.05	
Toluene*	<0.050	0.050	09/15/2023	ND	1.98	98.8	2.00	1.15	
Ethylbenzene*	<0.050	0.050	09/15/2023	ND	2.02	101	2.00	0.924	
Total Xylenes*	<0.150	0.150	09/15/2023	ND	5.68	94.7	6.00	0.00354	
Total BTEX	<0.300	0.300	09/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/14/2023	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	09/14/2023	ND	191	95.3	200	1.24	
DRO >C10-C28*	<10.0	10.0	09/14/2023	ND	211	105	200	1.71	
EXT DRO >C28-C36	<10.0	10.0	09/14/2023	ND					
Surrogate: 1-Chlorooctane	106 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	123 9	% 49.1-14	8						

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Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/18/2023	Sampling Type:	Soil
Project Name:	MESA 8105 JVP #004H	Sampling Condition:	Cool & Intact
Project Number:	03C2012046	Sample Received By:	Dionica Hinojos
Project Location:	BTA ( 32.065054,-103.64362 )		

### Sample ID: SS 03 0.5' (H234927-19)

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	09/15/2023	ND	1.92	95.9	2.00	2.05	
Toluene*	<0.050	0.050	09/15/2023	ND	1.98	98.8	2.00	1.15	
Ethylbenzene*	<0.050	0.050	09/15/2023	ND	2.02	101	2.00	0.924	
Total Xylenes*	<0.150	0.150	09/15/2023	ND	5.68	94.7	6.00	0.00354	
Total BTEX	<0.300	0.300	09/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/14/2023	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	09/14/2023	ND	191	95.3	200	1.24	
DRO >C10-C28*	<10.0	10.0	09/14/2023	ND	211	105	200	1.71	
EXT DRO >C28-C36	<10.0	10.0	09/14/2023	ND					
Surrogate: 1-Chlorooctane	106 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	122 9	% 49.1-14	8						

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

Received:	09/12/2023	Sampling Date:	09/12/2023
Reported:	09/18/2023	Sampling Type:	Soil
Project Name:	MESA 8105 JVP #004H	Sampling Condition:	Cool & Intact
Project Number:	03C2012046	Sample Received By:	Dionica Hinojos
Project Location:	BTA ( 32.065054,-103.64362 )		

### Sample ID: SS 04 0.5' (H234927-20)

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	09/15/2023	ND	1.92	95.9	2.00	2.05	
Toluene*	<0.050	0.050	09/15/2023	ND	1.98	98.8	2.00	1.15	
Ethylbenzene*	<0.050	0.050	09/15/2023	ND	2.02	101	2.00	0.924	
Total Xylenes*	<0.150	0.150	09/15/2023	ND	5.68	94.7	6.00	0.00354	
Total BTEX	<0.300	0.300	09/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/14/2023	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	09/14/2023	ND	191	95.3	200	1.24	
DRO >C10-C28*	<10.0	10.0	09/14/2023	ND	211	105	200	1.71	
EXT DRO >C28-C36	<10.0	10.0	09/14/2023	ND					
Surrogate: 1-Chlorooctane	94.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### **Notes and Definitions**

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
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

#### **Cardinal Laboratories**

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

PSS     BILL TO     ANALYSIS Report       10004000000000000000000000000000000000	Relinquished By: Relinquished By: Relinquished By: Relinquished By: Circle One) Delivered By: (Circle One) Delivered By: (Circle One) Corrected	State: State: Fax #: Project UVP (fee (fee	101 East Marland, Hobbs, NM 88240
	Date 7/12/123 Received By: Time: 17:415 Add Huy Liu Date: 7:415 Received By: 11 Date: 7:415 Received By: 11 Time: 7:417 Received By:	P.O. #:     P.O. #:       Image: Company:     BTA       Image: Company:     Image: Company:       Image: Company:     Image: Company:	

Page 23 of 24

Page 66 of 100

101 East Mari (575) 393-23 Company Name: Ensolum, LLC	26	I, Hobbs, NM 88240 FAX (575) 393-2476	240 476	BILL TO		AN	ANALYSIS REQUEST	2 of d
Project Manager:	" See Pa			P.O. 井	-			-
Address:				Company: RTA	9			
City:		State:	Zip:	8	-			
Phone #:	+	Fax #:		ess:				
Project #: 0	362012046	Project Owner:		City:				
Project Name:	Mesa 8105	S JVP #004H	044	State: Zip:				
Project Location:	32.065	1		*				
Sampler Name:	Mered ith	Roberts / C	1 Hamilton	Fax #:				-
FOR LAB USE ONLY		1		PRESERV. SAM	SAMPLING			
Hazyazi			SER			des		
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C) # CONTAINER GROUNDWAT WASTEWATER SOIL OIL SLUDGE	OTHER : ACID/BASE: ICE / COOL COTHER :	BTEX	Chion		
11	BHOL	"	- ×	9	0	X		
12	BHOLA	4'						
13	BHeT	1			0900			
11	BHOTA	4'			09IS			
01	BH08	2			0845			
3	ABOHS	P			0855			
0	1000	5.0			ocil			
19	Eoss				1130			
AL DATE NOTE I LANGE AND	SSO4	4	44 4	4	1135 1	* +		
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ished B		7/12	Received By:	to theme should see to see include	Verbal Result: All Results are em	All Results are smalled. Please provide Email address:	f1 Phone #: mail address:	
the	nex	Time: 3:45	D. Human		Marcan Oc	enselun.com	som com	
Kennquisned by.		Time:	Neceived By: /		In cident	+ A: noylesileoiss	331160155	
Delivered By: (Circle One)		erved Temp. °C	11.9° Sample Condition	n CHECKED BY: (Initials)	Turnaround Time:	Standard Rush	Bacteria (only) Sample Condition Cool Intact Observed Temp.	ample Condition Observed Temp. *C

Page 24 of 24

## Page 67 of 100



January 12, 2024

HADLIE GREEN ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD, NM 88220

RE: MESA 8105 - JV-P 004H

Enclosed are the results of analyses for samples received by the laboratory on 01/09/24 14:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	01/09/2024	Sampling Date:	01/05/2024
Reported:	01/12/2024	Sampling Type:	Soil
Project Name:	MESA 8105 - JV-P 004H	Sampling Condition:	Cool & Intact
Project Number:	03C2012046	Sample Received By:	Tamara Oldaker
Project Location:	BTA		

### Sample ID: FS 01 4' (H240079-01)

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	01/10/2024	ND	2.20	110	2.00	0.386	
Toluene*	<0.050	0.050	01/10/2024	ND	2.16	108	2.00	0.846	
Ethylbenzene*	<0.050	0.050	01/10/2024	ND	2.14	107	2.00	0.560	
Total Xylenes*	<0.150	0.150	01/10/2024	ND	6.25	104	6.00	0.435	
Total BTEX	<0.300	0.300	01/10/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.1	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	01/10/2024	ND	448	112	400	3.51	
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	01/10/2024	ND	197	98.3	200	3.37	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	205	102	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					
Surrogate: 1-Chlorooctane	98.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.5	% 49.1-14	8						

### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	01/09/2024	Sampling Date:	01/08/2024
Reported:	01/12/2024	Sampling Type:	Soil
Project Name:	MESA 8105 - JV-P 004H	Sampling Condition:	Cool & Intact
Project Number:	03C2012046	Sample Received By:	Tamara Oldaker
Project Location:	BTA		

### Sample ID: FS 02 4' (H240079-02)

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	01/10/2024	ND	2.20	110	2.00	0.386	
Toluene*	<0.050	0.050	01/10/2024	ND	2.16	108	2.00	0.846	
Ethylbenzene*	<0.050	0.050	01/10/2024	ND	2.14	107	2.00	0.560	
Total Xylenes*	<0.150	0.150	01/10/2024	ND	6.25	104	6.00	0.435	
Total BTEX	<0.300	0.300	01/10/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.7	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	01/10/2024	ND	448	112	400	3.51	
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	01/10/2024	ND	197	98.3	200	3.37	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	205	102	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					
Surrogate: 1-Chlorooctane	100	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.5	% 49.1-14	8						

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\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	01/09/2024	Sampling Date:	01/08/2024
Reported:	01/12/2024	Sampling Type:	Soil
Project Name:	MESA 8105 - JV-P 004H	Sampling Condition:	Cool & Intact
Project Number:	03C2012046	Sample Received By:	Tamara Oldaker
Project Location:	BTA		

### Sample ID: SW 01 0-4' (H240079-03)

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	01/10/2024	ND	2.20	110	2.00	0.386	
Toluene*	<0.050	0.050	01/10/2024	ND	2.16	108	2.00	0.846	
Ethylbenzene*	<0.050	0.050	01/10/2024	ND	2.14	107	2.00	0.560	
Total Xylenes*	<0.150	0.150	01/10/2024	ND	6.25	104	6.00	0.435	
Total BTEX	<0.300	0.300	01/10/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	01/10/2024	ND	448	112	400	3.51	
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	01/10/2024	ND	197	98.3	200	3.37	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	205	102	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					
Surrogate: 1-Chlorooctane	97.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.8	% 49.1-14	8						

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\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	01/09/2024	Sampling Date:	01/08/2024
Reported:	01/12/2024	Sampling Type:	Soil
Project Name:	MESA 8105 - JV-P 004H	Sampling Condition:	Cool & Intact
Project Number:	03C2012046	Sample Received By:	Tamara Oldaker
Project Location:	BTA		

### Sample ID: SW 02 0-4' (H240079-04)

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	01/10/2024	ND	2.20	110	2.00	0.386	
Toluene*	<0.050	0.050	01/10/2024	ND	2.16	108	2.00	0.846	
Ethylbenzene*	<0.050	0.050	01/10/2024	ND	2.14	107	2.00	0.560	
Total Xylenes*	<0.150	0.150	01/10/2024	ND	6.25	104	6.00	0.435	
Total BTEX	<0.300	0.300	01/10/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.0	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	01/10/2024	ND	448	112	400	3.51	
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	01/10/2024	ND	197	98.3	200	3.37	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	205	102	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					
Surrogate: 1-Chlorooctane	97.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.5	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

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

Received:	01/09/2024	Sampling Date:	01/08/2024
Reported:	01/12/2024	Sampling Type:	Soil
Project Name:	MESA 8105 - JV-P 004H	Sampling Condition:	Cool & Intact
Project Number:	03C2012046	Sample Received By:	Tamara Oldaker
Project Location:	BTA		

### Sample ID: SW 03 0-4' (H240079-05)

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	01/10/2024	ND	2.20	110	2.00	0.386	
Toluene*	<0.050	0.050	01/10/2024	ND	2.16	108	2.00	0.846	
Ethylbenzene*	<0.050	0.050	01/10/2024	ND	2.14	107	2.00	0.560	
Total Xylenes*	<0.150	0.150	01/10/2024	ND	6.25	104	6.00	0.435	
Total BTEX	<0.300	0.300	01/10/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.3	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	01/10/2024	ND	448	112	400	3.51	
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	01/10/2024	ND	197	98.3	200	3.37	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	205	102	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					
Surrogate: 1-Chlorooctane	91.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.0	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

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

Received:	01/09/2024	Sampling Date:	01/08/2024
Reported:	01/12/2024	Sampling Type:	Soil
Project Name:	MESA 8105 - JV-P 004H	Sampling Condition:	Cool & Intact
Project Number:	03C2012046	Sample Received By:	Tamara Oldaker
Project Location:	BTA		

### Sample ID: FS 03 4' (H240079-06)

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	01/10/2024	ND	2.20	110	2.00	0.386	
Toluene*	<0.050	0.050	01/10/2024	ND	2.16	108	2.00	0.846	
Ethylbenzene*	<0.050	0.050	01/10/2024	ND	2.14	107	2.00	0.560	
Total Xylenes*	<0.150	0.150	01/10/2024	ND	6.25	104	6.00	0.435	
Total BTEX	<0.300	0.300	01/10/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.4	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	01/10/2024	ND	448	112	400	3.51	
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	01/10/2024	ND	197	98.3	200	3.37	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	205	102	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					
Surrogate: 1-Chlorooctane	91.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.1	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



03C2012046

BTA

Sample Received By:

Tamara Oldaker

### Analytical Results For:

ENSOLUM	1	
HADLIE G	GREEN	
3122 NAT	FIONAL PARKS HWY	
CARLSBA	D NM, 88220	
Fax To:		
01/09/2024	Sampling Date:	01/08/2024
01/12/2024	Sampling Type:	Soil
MESA 8105 - JV-P 004H	Sampling Condition:	Cool & Intact

### Sample ID: FS 04 4' (H240079-07)

Received:

Reported:

Project Name:

Project Number:

Project Location:

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	01/10/2024	ND	2.20	110	2.00	0.386	
Toluene*	<0.050	0.050	01/10/2024	ND	2.16	108	2.00	0.846	
Ethylbenzene*	<0.050	0.050	01/10/2024	ND	2.14	107	2.00	0.560	
Total Xylenes*	<0.150	0.150	01/10/2024	ND	6.25	104	6.00	0.435	
Total BTEX	<0.300	0.300	01/10/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.6	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	01/10/2024	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	01/10/2024	ND	197	98.3	200	3.37	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	205	102	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					
Surrogate: 1-Chlorooctane	97.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.6	% 49.1-14	8						

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\*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



01/08/2024

### Analytical Results For:

	ENSOLUM		
	HADLIE GREEN		
	3122 NATIONAL PARKS HWY	,	
	CARLSBAD NM, 88220		
	Fax To:		
01/09/2024		Sampling Date:	
01/12/2024		Sampling Type:	:

Reported:	01/12/2024	Sampling Type:	Soil
Project Name:	MESA 8105 - JV-P 004H	Sampling Condition:	Cool & Intact
Project Number:	03C2012046	Sample Received By:	Tamara Oldaker
Project Location:	BTA		

### Sample ID: FS 05 4' (H240079-08)

Received:

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	01/10/2024	ND	2.20	110	2.00	0.386	
Toluene*	<0.050	0.050	01/10/2024	ND	2.16	108	2.00	0.846	
Ethylbenzene*	<0.050	0.050	01/10/2024	ND	2.14	107	2.00	0.560	
Total Xylenes*	<0.150	0.150	01/10/2024	ND	6.25	104	6.00	0.435	
Total BTEX	<0.300	0.300	01/10/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.6	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	01/10/2024	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	01/10/2024	ND	197	98.3	200	3.37	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	205	102	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					
Surrogate: 1-Chlorooctane	95.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.4	% 49.1-14	8						

### Cardinal Laboratories

### \*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

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

Received:	01/09/2024	Sampling Date:	01/08/2024
Reported:	01/12/2024	Sampling Type:	Soil
Project Name:	MESA 8105 - JV-P 004H	Sampling Condition:	Cool & Intact
Project Number:	03C2012046	Sample Received By:	Tamara Oldaker
Project Location:	BTA		

### Sample ID: FS 06 4' (H240079-09)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	01/10/2024	ND	2.20	110	2.00	0.386	
Toluene*	<0.050	0.050	01/10/2024	ND	2.16	108	2.00	0.846	
Ethylbenzene*	<0.050	0.050	01/10/2024	ND	2.14	107	2.00	0.560	
Total Xylenes*	<0.150	0.150	01/10/2024	ND	6.25	104	6.00	0.435	
Total BTEX	<0.300	0.300	01/10/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	01/10/2024	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	01/10/2024	ND	197	98.3	200	3.37	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	205	102	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					
Surrogate: 1-Chlorooctane	93.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.1	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



### **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Relinquished By:	CH-	Relinquished By:	analyses. All claims including those for negligent service. In no event shall Cardinal be liable for in	PLEASE NOTE: Liability and Da		-	2	7	6	5	t	U	2	1	6200HRH	Lab I.D.		FOR LAB USE ONLY	Sampler Name:	Project Location:	Project Name: Mesa	Project #:03C2012046	Phone #: 432	0	Address: 3122	Project Manage	Company Name:		
				the p	including those for negligence and any other shall Cardinal be liable for incidental or conse	amages. Cardinal's liability and cli		FSOC	Sor	FSAL	2103	SLAD	Svoz	1025	FS@2	FS01		Sample I.D.			Sampier Name: Connor Whitman	2 5	lesa 8105-JV-P 004H	012046	6688-/cc 7c4	10	Address: 3122 National Parks Hwy	Project Manager: Hadlie Green	Ensolum, LLC	101 East Marland (575) 393-2326	
Observed Temp. °C 3.6 Corrected Temp. °C	Time:	Date:	1	0	ce and any other cause whatsoever shall be deemed w cidential or consequential demages, including without lier	ent's exclusive remarks for any o		E -	5	E.	E	0-11		0-4	4	Ч		Sample Depth (feet)					004H	Project Owner: BTA	Fax #:	State: NM	1.1			101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476	CONTRACTOR OF STREET
Cool Intact	economical by.	10110ha	ACCENCIANT AND	<b>. M</b>	2 2 3												# CC GRO WAS SOIL	AB OR (C DNTAINEF UNDWAT TEWATE	RS TER	MATRIX				: BTA		Zip: 88220				240 476	
ion CHECKED BY: (Initials)	J.	Crown	MI IN	loss of use, or loss of profile incurred by client, its subsidiaries in based upon any of the above stated reasons or otherwise.	ung whether based in contract or tort, shall be limited to the amount paid by the client for the wed unless made in writing and received by Cardinal within 30 days after completion of the app tation beetness intervention.		-										CE /	ER : /BASE: COOL	5	PRESERV.	Fax #:	*	State: TX Zip:	city: Midland	Address: 104 S Pecos	Attn: Kelton Beaird	Company: BTA Oil	P.O. #:	RII		
: Turnaround Time:	REMARKS:	HGreen@ensolum	All Results are	red by client, its subsidiaries, ated reasons or otherwise.	sunt paid by the client for the ays after completion of the app		V 1310	V 1255	1250	Chi!	130	1125	070	1/24 11:00		-				SAMPLING			:79701		Pecos St	eaird	Oil	DILL IU	TO		
me: Standard Rush		solum.com	emailed. Please pro		dicable			-									TI	EX PH Ioride	2												
Dà			Verbal Result:														_			2								ANALYSIS F			
Bacteria (only) Sample Condition Cool Intact Observed Temp. °C																												REQUEST			
S																															



# APPENDIX E

**NMOCD** Notifications

Released to Imaging: 3/22/2024 8:43:05 AM

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 11:11:07 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 <hgreen@ensolum.com>
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,



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

From:	Maxwell, Ashley, EMNRD
To:	Wells, Shelly, EMNRD; Hadlie Green; kbeaird@btoil.com; Tacoma Morrissey; Aimee Cole
Cc:	Bratcher, Michael, EMNRD
Subject:	RE: [EXTERNAL] BTA - Extension Request - Mesa 8105-JV-P 004H (Incident Number NOY1831160155)
Date:	Monday, November 13, 2023 11:30:05 AM
Attachments:	image001.png
	image002.png
	image003.png
	image004.png

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

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

Good morning,

Your extension request of February 14, 2024 has been approved.

Thanks. Ashley

Ashley Maxwell • Environmental Specialist **Environmental Bureau Projects Group EMNRD - Oil Conservation Division** 1000 Rio Brazos Road | Aztec, NM 87110 505.635.5000 | Ashley.Maxwell@emnrd.nm.gov http://www.emnrd.state.nm.us/OCD/

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov> Sent: Monday, November 13, 2023 9:16 AM To: Maxwell, Ashley, EMNRD <Ashley.Maxwell@emnrd.nm.gov> Cc: Bratcher, Michael, EMNRD < mike.bratcher@emnrd.nm.gov> Subject: FW: [EXTERNAL] BTA - Extension Request - Mesa 8105-JV-P 004H (Incident Number NOY1831160155)

From: Hadlie Green <<u>hgreen@ensolum.com</u>>

Sent: Friday, November 10, 2023 8:10 AM

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

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

Subject: [EXTERNAL] BTA - Extension Request - Mesa 8105-JV-P 004H (Incident Number NOY1831160155)

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

All,

BTA is requesting an extension for the current deadline of November 16, 2023, for submitting a remediation work plan or closure request required in 19.15.29.12.B.(1) NMAC at the Mesa 8105-JV-P 004H (Incident Number NOY1831160155). The historical release occurred on October 23, 2018. Initial assessment of the release has been completed; however, fracing operations at the facility have delayed remediation activities. Once operations have been completed at the Site, remediation activities will proceed. In order to complete the remediation activities and submit a remediation work plan or closure request, BTA is requesting a 90-day extension until February 14, 2024.

Thank you,



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



# 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

Page 86 of 100

Revised August 24, 2018 Submit to appropriate OCD District office

)

Incident ID	pOY1831158528
District RP	1RP-5261
Facility ID	
Application ID	NOY1831160155

# **Release Notification**

### **Responsible Party**

Contact mailing address 104 South Pecos St. Midland, TX 79701				51105110	0133
Contact email bgrimes@btaoil.com	Incider	nt # (assigned by OCD)		DY183116	0155
Contact Name Ben Grimes	Contac	t Telephone 432-68	32-3753	3	
Responsible Party BTA Oil Producers	OGRII	D NM1195/NMB00	0849	260297	

### Location of Release Source

Latitude 32.065054

Longitude 103.64362 (NAD 83 in decimal degrees to 5 decimal places)

Sitc Name Mcsa 8105-JV-P 004H (Closest well related)	Site Type flowline/transfer
Date Release Discovered Oct 23 <sup>rd</sup> , 2018	API# (if applicable) 30-025-42842

Unit Letter	Section	Township	Range	County	Federal minerals
С	11	268	32E	Lea	Medium cave karst

Surface Owner: State Federal Tribal Private (Name:

### Nature and Volume of Release

Crude Oil	15 bbl. released	Volume Recovered 8 bbl.
Produced Water	Volume Released- 60 bbl,	Volume Recovered 50 bbl
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No not known at this time
Condensate	Volume Released (bbl.)	Volume Recovered (bbl.)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
transfer line was cut in on the same road. The l of water. The spill area	ine was isolated and repaired. A vacuum truck was cal	nost likely used during the pipeline construction currently led and recovered approx 8 bbl of oil and approx. 50 bb ist 1 ft, BGS due to rain and sandy soil in spill area. The

Environmental consultants will be retained to remediate spill and submit documentation.

t 2:59 pm on October 2	3 <sup>rd</sup> notice was sent in an email to Maxey G with the	NMOCD
YES, was immediate r	otice given to the OCD? By whom? To whom? W	/hen and by what means (phone, email, etc.)?
Vas this a major elease as defined by 9.15.29.7(A) NMAC? ☑ Yes □ No	If YES, for what reason(s) does the responsible pa Spill falls under 19.15.29.7 (A) (1) an un authoriz	
		Application ID
		Facility ID
2	Oil Conservation Division	District RP
	4 7:46:17 AM State of New Mexico	Incident ID

0

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

 $\boxtimes$  The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

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

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

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

Printed Name: BenGrimes	Title: <u>Production Manager</u>
Signature: BenJunes	Date: <u>111712018</u>
email: Bgrimes@BTAO.T. Com	Telephone: <u>432-682-3753</u>
OCD Only Received by: RECEIVED By Olivia Yu at 8:18 am, Nov 08, 2018	Date:

	7:46:17 AM State of New Mexico		Page 88 of 10
form C-141			
Page 4	Oil Conservation Division	on District RP	
		Facility ID	
		Application	n ID
regulations all operators are re public health or the environmed failed to adequately investigat	equired to report and/or file certain release ent. The acceptance of a C-141 report by t e and remediate contamination that pose a	the best of my knowledge and understand the notifications and perform corrective actions the OCD does not relieve the operator of lial threat to groundwater, surface water, human or of responsibility for compliance with any 	for releases which may endanger pility should their operations have a health or the environment. In other federal, state, or local laws Manager
OCD Only			

Received by OCD: 3/21/2024 7:46:17 AM Form C-141 State of New Mexico

Oil Conservation Division

	Page 89 of 10	00
Incident ID	nOY1831160155	
District RP	1RP-5261	
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?	<u>&gt;100 (ft bgs)</u>
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.

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data

Page 3

- Data table of soil contaminant concentration data
- $\boxtimes$  Depth to water determination
- Determination of water sources and significant watercourses within <sup>1</sup>/<sub>2</sub>-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

<b>Received by OCD: 3/21/2024 7:46</b> Form C-141 Page 4	State of New Mexico Oil Conservation Division		Incident ID District RP Facility ID	Page 90 of 100           nOY1831160155           1RP-5261
regulations all operators are required public health or the environment. The failed to adequately investigate and re-	given above is true and complete to the best to report and/or file certain release notificat he acceptance of a C-141 report by the OCD remediate contamination that pose a threat to 1 report does not relieve the operator of resp	ions and perform co does not relieve the groundwater, surface	rrective actions for rele operator of liability sho ce water, human health	ases which may endanger ould their operations have or the environment. In
Printed Name:Kelton Beaird_ Signature:	Title: Date:		lanager	
email:KBeaird@btaoil.com	Telephor	ne:432-312-22	203	
OCD Only Received by:		Date:		

Page 6

Oil Conservation Division

Incident ID	nOY1831160155
District RP	1RP-5261
Facility ID	
Application ID	

# Closure

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

Closure Report Attachment Checklist: Each of the following items must be included in the closure report. A scaled site and sampling diagram as described in 19.15.29.11 NMAC Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection) Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling) Description of remediation activities I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Title: Environmental Manager\_\_\_\_\_ Printed Name: Kelton Beaird Signature: \_\_\_\_\_ \_\_\_\_\_ Date: 2/14/2024 email: \_\_KBeaird@btaoil.com\_\_\_\_ Telephone: \_\_\_\_432-312-2203\_\_\_\_\_ **OCD Only** Received by: Date: Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations. Closure Approved by: \_\_\_\_\_ Date: \_\_\_\_\_ Title: Printed Name:

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

QUESTIONS

Action 325392

QUESTIONS		
Operator:	OGRID:	
BTA OIL PRODUCERS, LLC	260297	
104 S Pecos	Action Number:	
Midland, TX 79701	325392	
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

### QUESTIONS

Prerequisites	
Incident ID (n#)	nOY1831160155
Incident Name	NOY1831160155 MESA 8105 JV P #004H @ 30-025-42842
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-42842] MESA 8105 JV P #004H

### Location of Release Source

Please answer all the questions in this group.	
Site Name	MESA 8105 JV P #004H
Date Release Discovered	10/23/2018
Surface Owner	Federal

### Incident Details

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

#### Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.		
Crude Oil Released (bbls) Details	Cause: Human Error   Flow Line - Production   Crude Oil   Released: 15 BBL   Recovered: 8 BBL   Lost: 7 BBL.	
Produced Water Released (bbls) Details	Cause: Equipment Failure   Flow Line - Production   Produced Water   Released: 60 BBL   Recovered: 50 BBL   Lost: 10 BBL.	
Is the concentration of chloride in the produced water >10,000 mg/l	No	
Condensate Released (bbls) Details	Not answered.	
Natural Gas Vented (Mcf) Details	Not answered.	
Natural Gas Flared (Mcf) Details	Not answered.	
Other Released Details	Not answered.	
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.	

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

QUESTIONS, Page 2

Action 325392

**QUESTIONS** (continued)

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	325392
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

Initial I	Response
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The responsible party must undertake the following actions immediately unless they could create a	safety hazard that would result in injury.
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	Тгие
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	False
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	off pad release
	liation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of ited or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of evaluation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for rele- the OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: BTA ENSOLUM Title: Environmental Manager Email: kbeaird@btaoil.com Date: 03/21/2024

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

QUESTIONS, Page 3

Action 325392

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**QUESTIONS** (continued)

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	325392
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Site Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release ar	id the following surface areas:
A continuously flowing watercourse or any other significant watercourse	Between 500 and 1000 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

#### Remediation Plan

	at apply or are indicated. This information must be provided t	
•	plan approval with this submission	Yes
Attach a comprehensive report der	nonstrating the lateral and vertical extents of soil contamination	on associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Have the lateral and vertical	l extents of contamination been fully delineated	Yes
Was this release entirely co	ontained within a lined containment area	No
Soil Contamination Sampling	: (Provide the highest observable value for each, in n	nilligrams per kilograms.)
Chloride	(EPA 300.0 or SM4500 CI B)	240
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	3262
GRO+DRO	(EPA SW-846 Method 8015M)	2433
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0
		5
	MAC unless the site characterization report includes completelines for beginning and completing the remediation.	ed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA
which includes the anticipated time		
which includes the anticipated time On what estimated date wil	elines for beginning and completing the remediation.	ed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA
which includes the anticipated time On what estimated date wil	elines for beginning and completing the remediation. I the remediation commence he final sampling or liner inspection occur	ed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA
which includes the anticipated time On what estimated date will On what date will (or did) th On what date will (or was) t	elines for beginning and completing the remediation. I the remediation commence he final sampling or liner inspection occur	ed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA 09/12/2023 01/15/2024
which includes the anticipated time On what estimated date will On what date will (or did) th On what date will (or was) t What is the estimated surfa	elines for beginning and completing the remediation. I the remediation commence le final sampling or liner inspection occur he remediation complete(d)	ed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA 09/12/2023 01/15/2024 01/15/2024
which includes the anticipated time On what estimated date will On what date will (or did) th On what date will (or was) t What is the estimated surfa What is the estimated volum	elines for beginning and completing the remediation. I the remediation commence le final sampling or liner inspection occur he remediation complete(d) ce area (in square feet) that will be reclaimed	ed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA 09/12/2023 01/15/2024 01/15/2024 1520
which includes the anticipated time On what estimated date will On what date will (or did) th On what date will (or was) t What is the estimated surfa What is the estimated volun What is the estimated surfa	elines for beginning and completing the remediation. I the remediation commence the final sampling or liner inspection occur the remediation complete(d) ce area (in square feet) that will be reclaimed ne (in cubic yards) that will be reclaimed	ed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA 09/12/2023 01/15/2024 01/15/2024 1520 225

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

QUESTIONS, Page 4

Action 325392

QUESTI	ONS (continued)
Operator: BTA OIL PRODUCERS, LLC	OGRID: 260297
104 S Pecos	Action Number:
Midland, TX 79701	325392
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)
QUESTIONS	
Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the	appropriate district office no later than 90 days after the release discovery date.
This remediation will (or is expected to) utilize the following processes to remediate	/ reduce contaminants:
(Select all answers below that apply.)	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	No
OR is the off-site disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed eff which includes the anticipated timelines for beginning and completing the remediation.	forts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,
to report and/or file certain release notifications and perform corrective actions for relea the OCD does not relieve the operator of liability should their operations have failed to a	snowledge and understand that pursuant to OCD rules and regulations all operators are required uses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface i does not relieve the operator of responsibility for compliance with any other federal, state, or
	Name: BTA ENSOLUM
I hereby agree and sign off to the above statement	Title: Environmental Manager
Thoropy agree and eight on to the above statement	Email: kbeaird@btaoil.com
	Date: 03/21/2024 ordance with the physical realities encountered during remediation. If the responsible party has any need to

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

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Action 325392

QUESTIONS (continued)	
Operator: C BTA OIL PRODUCERS, LLC	OGRID: 260297
104 S Pecos Midland, TX 79701	Action Number: 325392
٩	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of	the following items must be confirmed as part of any request for deferral of remediation.
Requesting a deferral of the remediation closure due date with the approval of this submission	Νο

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

QUESTIONS, Page 6

Action 325392

**QUESTIONS** (continued)

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	325392
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	301414
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/15/2024
What was the (estimated) number of samples that were to be gathered	5
What was the sampling surface area in square feet	1520

**Remediation Closure Request** 

Only answer the questions in this group if seeking remediation closure for this release because all r	emediation steps have been completed.
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	1520
What was the total volume (cubic yards) remediated	225
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	1520
What was the total volume (in cubic yards) reclaimed	225
Summarize any additional remediation activities not included by answers (above)	n/a
	closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of
to report and/or file certain release notifications and perform corrective actions for release the OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or

local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete

	Name: BTA ENSOLUM
I hereby agree and sign off to the above statement	Title: Environmental Manager
Thereby agree and sign on to the above statement	Email: kbeaird@btaoil.com
	Date: 03/21/2024

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

QUESTIONS, Page 7

Action 325392

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**QUESTIONS** (continued) Operator: OGRID: BTA OIL PRODUCERS, LLC 260297 104 S Pecos Action Number: Midland, TX 79701 325392 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure) QUESTIONS

### **Peclamation Penort**

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

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

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COMMENTS

Action 325392

Operator: OGRID: BTA OIL PRODUCERS, LLC 260297 104 S Pecos Action Number: Midland, TX 79701 325392 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

COMMENTS

#### COMMENTS

Created By	Comment	Comment Date
csmith	Returned to Review, Typo on Approval.	3/22/2024

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

CONDITIONS

Action 325392

Operator: OGRID: BTA OIL PRODUCERS, LLC 260297 104 S Pecos Action Number: Midland, TX 79701 325392 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

#### CONDITIONS

Created By	Condition	Condition Date
amaxwell	Remediation closure approved.	3/22/2024
amaxwell	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	3/22/2024