

February 21, 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 B 22-25 Tank Battery (Mesa B East) Incident Number nAPP2209078912 Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of BTA Oil Producers, LLC (BTA), has prepared this *Closure Request* to document assessment, delineation, excavation, and soil sampling activities performed at the Mesa B 22-25 Tank Battery (Mesa B East) (Site). The purpose of the Site activities was to assess the presence or absence of impacts to soil resulting from a historical release of crude oil at the Site. Based on field observations, field screening activities, and soil sample laboratory analytical results, BTA is submitting this *Closure Report*, describing Site assessment, delineation, and excavation activities that have occurred and requesting closure for Incident Number nAPP2209078912.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit A, Section 7, Township 26 South, Range 33 East, in Lea County, New Mexico (32.05980°, -103.60435°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On March 31, 2022, a transfer pump was left on at the tank battery causing fluid to be pushed to the flare and igniting. Approximately 330 barrels (bbls) of crude oil were released within the earthen berm and overflowed onto the surrounding well pad and pasture area. A vacuum truck was dispatched to the Site to recover free-standing fluids; approximately 130 bbls of crude oil were recovered. BTA reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on April 13, 2022. The release was assigned Incident Number nAPP2209078912.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

Depth to groundwater at the Site is estimated to be between 51 feet to 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-4547 POD1 (MW-1), located approximately 0.38 miles south of the Site. The groundwater well has a reported depth to

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groundwater of 89 feet bgs and a total depth of 112 feet bgs. All wells used for depth to groundwater determination are depicted on Figure 1 and the associated well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a riverine, located approximately 702 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: 10,000 mg/kg

SITE ASSESSMENT ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On August 25, 2023, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Fourteen assessment soil samples (SS01 through SS14) were collected within and around the release area, at a depth of approximately 0.5 feet bgs, to assess for the presence or absence of impacted soil resulting from the crude oil release. The soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. The soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included as Appendix B.

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

Laboratory analytical results for assessment soil sample SS07 through SS14, collected within the release area, indicated all COC concentrations were complaint with the most stringent Table I Closure Criteria. Laboratory analytical results for assessment soil samples SS01 through SS06, collected within the release area, indicated TPH concentrations exceeded the Closure Criteria at the ground surface. Vertical delineation activities and excavation activities appeared warranted to determine the depth of impacts and to address the elevated TPH concentrations.

DELINEATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On October 5, 2023, and November 13, 2023, Ensolum personnel returned to the Site to complete vertical delineation activities to determine the depth of impacts identified during the initial Site assessment. Boreholes were advanced via hand auger to further confirm the absence of impacted soil



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in the soil sample locations of SS07 through SS10, SS15, and SS16, which were located within the presumed release extent. Delineation soil samples SS07A through SS10A, SS15A and SS16A were collected at a depth of 2 feet bgs. Additionally, soil samples SS17 through SS21 were collected within and around the release area, at a depth of approximately 0.5 feet bgs, to further assess for the presence or absence of impacted soil. Boreholes (BH01 through BH04) were advanced via hand auger within the inferred release extent to assess the vertical extent of the release. The boreholes were advanced to depths ranging from 1.5 feet to 3 feet bgs. The delineation soil samples were field screened for VOCs and chloride. Field screening results and observations were logged on lithologic/soil sampling logs, which are included in Appendix C. The delineation soil samples were collected, handled, and analyzed following the same procedures previously described. The delineation soil sample locations were mapped utilizing a handheld GPS unit and are depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included in Appendix B.

Laboratory analytical results for delineation soil samples SS07A through SS10A, SS15A, and SS16A indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria. Laboratory analytical results for soil sample SS17 indicated TPH concentrations exceeded the Site Closure Criteria. Laboratory analytical results for soil samples SS18 through SS21 indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria. Laboratory analytical results for BH01, collected at depths ranging from 1-foot to 2-feet bgs, indicated TPH concentrations exceeded the Site Closure Criteria. Laboratory analytical results for boreholes BH02 and BH03, collected at depths ranging from 1-foot to 1.5 feet bgs, indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria. Laboratory analytical results for borehole BH04, collected at 1-foot bgs, indicated TPH concentrations exceeded the Site Closure Criteria but terminal BH04A, collected at 3 feet bgs, indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria. Based on laboratory analytical results, excavation activities were warranted.

EXCAVATION ACTIVITES AND LABORATORY ANALYTICAL RESULTS

Between December 13, 2023, and February 9, 2024, Ensolum personnel were at the Site to oversee excavation activities based on laboratory analytical results for assessment and delineation activities. 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 depths ranging from 1-foot to 3 feet bgs. Photographic documentation of the excavation activities is included in Appendix B.

Following removal of impacted soil, 5-point composite soil samples were collected every 200 square feet from the floor and 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 FS20 were collected from the floor of the excavation at depths ranging from 1-foot to 3 feet bgs. Confirmation soil samples SW01 through SW10 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 3 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 FS20, SW01, SW02, and SW04 through SW10 indicated all COC concentrations were compliant with the Site Closure Criteria. Laboratory analytical results for sidewall soil sample SW03 indicated TPH concentrations exceeded the Site Closure Criteria. Additional soil was removed in the vicinity and subsequent soil sample SW11 was collected from the sidewall of the excavation at depths ranging from the ground surface to 3 feet bgs. Laboratory analytical results for SW11 indicated all COC concentrations were compliant with the Site Closure Criteria. The excavation extent and excavation soil sample locations are presented on Figure 3. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included as Appendix D.



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The excavation area measured approximately 3,813 square feet. A total of approximately 423 cubic yards of impacted soil were removed during the excavation activities. The impacted soil was transported and properly disposed of at the OWL Landfill Services, LLC in Jal, New Mexico.

CLOSURE REQUEST

Site assessment, delineation, and excavation activities were conducted at the Site to assess for the presence or absence of impacted soil resulting from the March 2022, release of crude oil. Laboratory analytical results for the delineation soil samples indicated elevated TPH concentrations were present within the top 3 feet bgs of the release and the release was laterally and vertically delineated to the most stringent Table I Closure Criteria. All excavation soil samples collected from the final excavation extent indicated all COC concentrations were compliant with the Site Closure Criteria. Based on the soil sample analytical results, no further remediation was required.

Excavation of impacted soil has mitigated impacts at this Site. BTA believes the remedial actions completed are protective of human health, the environment, and groundwater. As such, BTA respectfully requests closure for Incident Number nAPP2209078912. Notifications submitted to the NMOCD are included in Appendix E and the final Form C-141 is included in Appendix F.

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

Daniel R. Moir. PG

Senior Managing Geologist

Sincerely, **Ensolum, LLC**

Meredith Roberts Field Geologist

Appendices:

cc: Kelton Beaird, BTA

Bureau of Land Management

Figure 1 Site Receptor Map

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

Appendix B Photographic Log

Appendix C Lithologic/Soil Sampling Logs

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

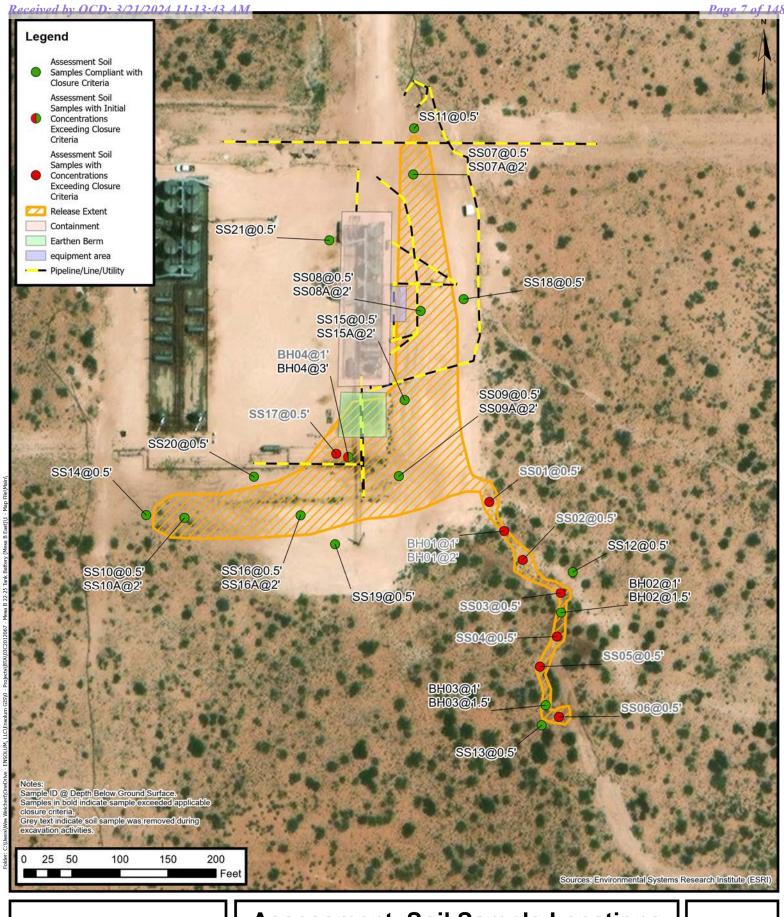
Appendix E NMOCD Notifications

Appendix F Final C-141





FIGURES



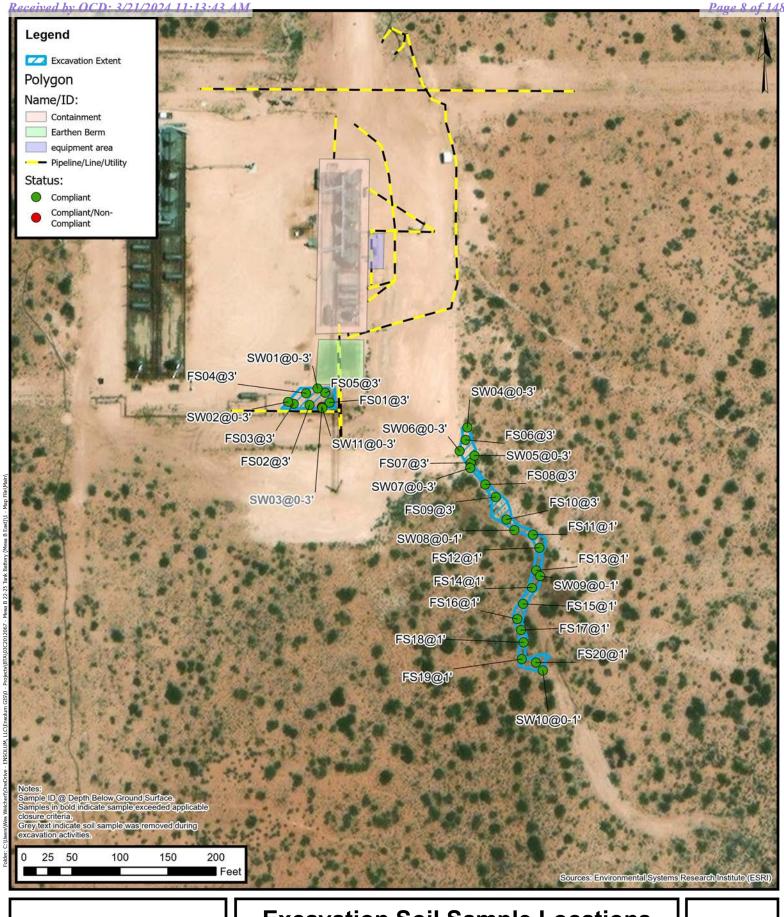


Assessment Soil Sample Locations

BTA Oil Producers, LLC

Mesa B 22-25 Tank Battery (Mesa B East)
Incident Number: nAPP2209078912
Unit A, Section 7, T26S, R33E
Eddy Co, New Mexico, United States

FIGURE 2





Excavation Soil Sample Locations

BTA Oil Producers, LLC
Mesa B 22-25 Tank Battery (Mesa B East)
Incident Number: nAPP2209078912
Unit A, Section 7, T26S, R33E
Eddy Co, New Mexico, United States

FIGURE 3



TABLES



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Mesa B 22-25 Tank Battery (Mesa B East) BTA Oil Producers, LLC Lea County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I C	Closure Criteria ((NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	10,000
				Asse	ssment Soil Sa	mples				
SS01*	08/25/2023	0.5	< 0.050	1.66	83.9	9,830	1,230	9,914	11,144	192
SS02*	08/25/2023	0.5	< 0.050	0.899	61.0	6,430	878	6,491	7,369	64.0
SS03*	08/25/2023	0.5	< 0.050	2.70	166	10,300	1,110	10,466	11,576	80.0
SS04*	08/25/2023	0.5	< 0.100	<0.600	<100	11,100	2,560	11,100	13,660	16.0
SS05*	08/25/2023	0.5	< 0.100	< 0.600	<100	10,800	2,430	10,800	13,230	32.0
SS06*	08/25/2023	0.5	< 0.050	1.07	108	9,660	1,030	9,768	10,798	32.0
SS07	08/25/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS07A	11/13/2023	2	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS08	08/25/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS08A	11/13/2023	2	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
SS09	08/25/2023	0.5	<0.050	<0.300	<10.0	31.9	<10.0	31.9	31.9	179
SS09A	11/13/2023	2	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SS10	08/25/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS10A	11/13/2023	2	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS11	08/25/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS12*	08/25/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS13*	08/25/2023	0.5	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS14*	08/25/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS15	10/05/2023	0.5	<0.050	<0.300	<10.0	27.2	<10.0	27.2	27.2	48.0
SS15A	11/13/2023	2	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS16*	10/05/2023	0.5	<0.050	<0.300	<10.0	13.9	<10	13.9	13.9	48.0
SS16A*	11/13/2023	2	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS17	10/05/2023	0.5	< 0.050	0.311	314	27,600	4,500	27,914	32,414	48.0
SS18	11/13/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SS19	11/13/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS20	11/13/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS21	11/13/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0

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TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Mesa B 22-25 Tank Battery (Mesa B East) BTA Oil Producers, LLC Lea County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I C	losure Criteria (NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	10,000
				Deli	neation Soil Sa	mples				
BH01	10/05/2023	1	< 0.050	<0.300	30.0	4,030	747	4,060	4,807	16.0
BH01A	10/05/2023	2	< 0.050	<0.300	<10.0	871	217	871	1,088	64.0
BH02	10/05/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
BH02A	10/05/2023	1.5	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
BH03	10/05/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
BH03A	10/05/2023	1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
BH04	11/13/2023	1	< 0.050	<0.300	146	2,560	345	2,905	3,051	<16.0
BH04A	11/13/2023	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
				Excava	tion Floor Soil	Samples				
FS01	12/28/2023	3	<0.050	<0.300	<10.0	392	103	392	495	<16.0
FS02	12/28/2023	3	<0.050	<0.300	<10.0	397	81.7	397	479	<16.0
FS03	12/28/2023	3	<0.050	<0.300	<10.0	521	117	521	638	<16.0
FS04	12/28/2023	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
FS05	12/28/2023	3	<0.050	<0.300	<10.0	45.6	<10.0	45.6	45.6	32.0
FS06	01/16/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS07	01/16/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS08	01/16/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS09	01/16/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS10	01/16/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS11	01/16/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS12	01/16/2024	1	<0.050	<0.300	13.0	<10.0	<10.0	13.0	13.0	112
FS13	01/16/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS14	01/16/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS15	01/16/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS16	01/16/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS17	01/16/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS18	01/16/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS19	01/16/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS20	01/16/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0

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TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Mesa B 22-25 Tank Battery (Mesa B East) BTA Oil Producers, LLC Lea County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I C	losure Criteria (l	NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	10,000
Excavation Sidewall Soil Samples										
SW01	12/28/2023	0 - 3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW02	12/28/2023	0 - 3	<0.050	<0.300	<10.0	55.2	<10.0	55.2	55.2	<16.0
SW03	12/28/2023	0 - 3	< 0.050	<0.300	28.3	1,880	487	1,908	2,395	<16.0
SW04	01/16/2024	0 - 3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
SW05	01/16/2024	0 - 3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
SW06	01/16/2024	0 - 3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
SW07	01/16/2024	0 - 3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW08	01/16/2024	0 - 1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW09	01/16/2024	0 - 1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW10	01/16/2024	0 - 1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW11	02/09/2024	0 - 3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0

Notes:

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

NMOCD: New Mexico Oil Conservation Division

NE: Not Established

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or

reclamation standard where applicable.

GRO: Gasoline Range Organics DRO: Diesel Range Organics ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

Grey texts indicates sample that has been excavated.

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APPENDIX A

Referenced Well Records



OSE DII AUG 2 2021 PM4:44

									· · · ·			
NO	OSE POD NO. POD1 (M		.)		WELL TAG ID NO n/a			OSE FILE NO(S C-4547	S).			
ОСАТІ	WELL OWNE BTA Oil Pi	٠,						PHONE (OPTIC	ONAL)			
WELL L	WELL OWNE 104 S. Peco		ADDRESS					CITY Midland		STATE TX	79701	ZIP
GENERAL AND WELL LOCATION	WELL	N LA	DE	EGREES 32	MINUTES 3	SECOI 14.		* ACCURACY	REQUIRED: ONE TENT	TH OF A	SECOND	
ERA	(FROM GP	s) Loi	NGITUDE	103	36	16.	96 W	* DATUM REC	QUIRED: WGS 84			
1. GEN	DESCRIPTION NE SE SE		NG WELL LOCATION TO 26S R33E	STREET ADD	RESS AND COMMO	N LANDM	ARKS – PLS	S (SECTION, TO	WNSHJIP, RANGE) WH	ERE AV	AILABLE	
	LICENSE NO 124		NAME OF LICENSED		Jackie D. Atkins	.			NAME OF WELL DRI Atkins Eng		COMPANY g Associates, I	nc.
	DRILLING ST 07/15/2		DRILLING ENDED 07/15/2021		MPLETED WELL (F			LE DEPTH (FT) 112	DEPTH WATER FIRS	T ENCC		
z	COMPLETED	WELL IS:	ARTESIAN	DRY HO	LE 📝 SHALLO	W (UNCC	NFINED)		STATIC WATER LEV	EL IN 0 89.		LL (FT)
Į Į	DRILLING FI	LUID:	✓ AIR	☐ MUD	ADDITIV	/ES – SPE	CIFY:		<u> </u>			
RMA	DRILLING M	ETHOD:	ROTARY	НАММЕ	R CABLE	rool	OTHE	R – SPECIFY:	Hollo	w Ster	n Auger	
2. DRILLING & CASING INFORMATION	DEPTH ((feet bgl) TO	BORE HOLE DIAM		MATERIAL ANI GRADE			ASING NECTION	CASING INSIDE DIAM.		ING WALL	SLOT SIZE
ASIIN			(inches)		each casing string sections of screen		Т	YPE ling diameter)	(inches)		(inches)	(inches)
& C	0	21	±8.5		Boring- HSA	-						-
ING	21	112	±3.5	Bo	oring- Air Rotary							-
SILL												
2. DJ												
				ļ							<u>.</u>	
	<u> </u>			<u> </u>					<u> </u>	<u> </u>		<u> </u>
ر ا	DEPTH		BORE HOLE DIAM. (inches)		IST ANNULAR S VEL PACK SIZE				AMOUNT (cubic feet)		METHO PLACEN	
ANNULAR MATERIAL	FROM	ТО	DIAN. (menes)	UKA-	VEL FACK SIZE	-KANG	S D I IIVIE	EKVAL	(cubic feet)		TEACEN	
ATE				<u> </u>						-+		
<u>X</u>	 			.						\dashv		
Y				<u> </u>								
				<u> </u>							*	
3. A												
FOR	OSE INTER	NAL USE					#(#)	WR-2	0 WELL RECORD	& LOG	(Version 06/3	0/17)
⊢—	E NO. (451	1		POD NO	D. \		TRN	NO. 698	52	91	
LOC	CATION 1	105-	33F-0	7 (ナーローコ		- 1	WELL TAG II	DNO. AJA		PAGE	1 OF 2

OSE DIT AUG 2 2021 pm4:44

	DEPTH (feet bgl)		COLOR	AND TYPE OF	MATERIAL E	NCOLIN	TEDEN		77/45		ESTIMATED
			THICKNESS	INCLUDE WA					S	WAT BEAR		YIELD FOR WATER-
	FROM	то	(feet)	(attach s	upplemental sl	eets to fully d	lescribe :	ıll units)		(YES	NO)	BEARING ZONES (gpm)
	0	4	4		Caliche, Co	nsolidated , W	/hite			Y	√ N	
	4	44	40	Sand, Fine-grai	ned, poorly grad	led, with calicl	ne gravel	Redish Brow	n	Y	√ N	
	44	51	7		Clay, Sti	ff, Dark Brow	n,			Y	√ N	
]	51	103	52	Sandst	tone, Fine-grain	d, poorly grad	led, Tan l	Brown		✓ Y	N	
			-							Y	N	
=										Y	N	
HYDROGEOLOGIC LOG OF WELL										Y	N	
jo j										Y	N	
Š								-		Y	N	
Cic										Y	N	
200										Y	N	
GE				V	-					Y	N	
DRC										Y	N	
H.										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-BEARI	NG STRATA:					AL ESTIM		
	PUMF	AI	R LIFT	BAILER	OTHER - SPEC	IFY:			WEL	L YIELD	(gpm):	0.00
NO	WELL TEST	TEST I	RESULTS - ATT. TIME, END TI	ACH A COPY OF DA	ATA COLLECT SHOWING DIS	ED DURING CHARGE AN	WELL T	ESTING, INC	CLUDII ER THI	NG DISCH	IARGE N G PERIO	METHOD, D.
VISION	MISCELLAN	VEOUS INF	ORMATION: Te	mporary well mater	rials removed	and the soil b	orina ni	vocad voina	.			th and landad
TEST; RIG SUPER			-	ment bluit j or 40.0	gallons of wa	er per 94 lbs	sack of	Portland TY	PE I/I	I Neat Ce	ment. S	ee attached
cst			Pli	agging Record								
2												
TEST	PRINT NAM	E(S) OF DR	ILL RIG SUPER	VISOR(S) THAT PR	OVIDED ONSI	TE SUPERVI	SION OF	WELL CON	STRUC	CTION OT	HER TH	AN LICENSEE:
'n			on Pruitt, Carmo									
E	THE UNDER	SIGNED H	EREBY CERTIF	IES THAT, TO THE ESCRIBED HOLE A	BEST OF HIS	OR HER KNO)WLEDO	E AND BEL	IEF, TI	HE FOREC	OING I	S A TRUE AND
6. SIGNATURE	AND THE PI	ERMIT HOL	DER WITHIN 3	O DAYS AFTER CO	MPLETION OF	WELL DRILL	LING:	.ms well i	CUK	ייי אוואי ענ	110 SIA	LIC ENGINEER
CNA	Jack Ar	tkina		,	ackie D. Atkir	_				07/00	/2021	
e. SI	7				ackie D. Atkii	ıs 	_			07/29/	2021	
		SIGNATU	JRE OF DRILLE	R / PRINT SIGNEI	E NAME]	DATE	
FOP	OSE INTERN	IZI LIZE						MD 20 MD	11 004	TODD 4.	00.07	nion 06/20/2017
	NO. C-	ไ ร้ับ	7		POD NO.		I	TRN NO.	· KEC	JUKD & L	OG (Ver	sion 06/30/2017)
LOC	ATION 7	05 -	3'35-1	7 4	4-7		WELL	TACIDNO	N (1	$\overline{\Delta}$		PAGE 2 OF 2

2021-07-28_C-4547_POD1_OSE_Well Record and Log_mesa1-for sign

Final Audit Report

2021-07-29

Created:

2021-07-29

DSE DJT AUG 2 2021 pm4:44

By:

Lucas Middleton (lucas@atkinseng.com)

Status:

Signed

Transaction ID:

CBJCHBCAABAA3aQOFUKeCXoHbozKpK1XeoMdI53lwclm

"2021-07-28_C-4547_POD1_OSE_Well Record and Log_mesa1 -for sign" History

- Document created by Lucas Middleton (lucas@atkinseng.com) 2021-07-29 8:40:54 PM GMT- IP address: 69.21.248.123
- Document emailed to Jack Atkins (jack@atkinseng.com) for signature 2021-07-29 8:41:43 PM GMT
- Email viewed by Jack Atkins (jack@atkinseng.com) 2021-07-29 8:43:29 PM GMT- IP address: 64.90.153,232
- Document e-signed by Jack Atkins (jack@atkinseng.com)
 Signature Date: 2021-07-29 8:44:00 PM GMT Time Source: server- IP address: 64.90.153.232
- Agreement completed.
 2021-07-29 8:44:00 PM GMT



62611

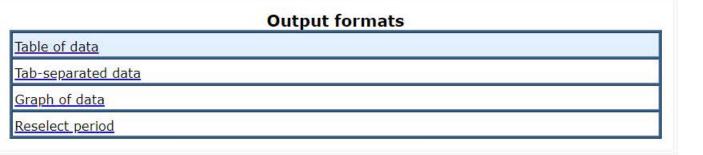
72019

124.44

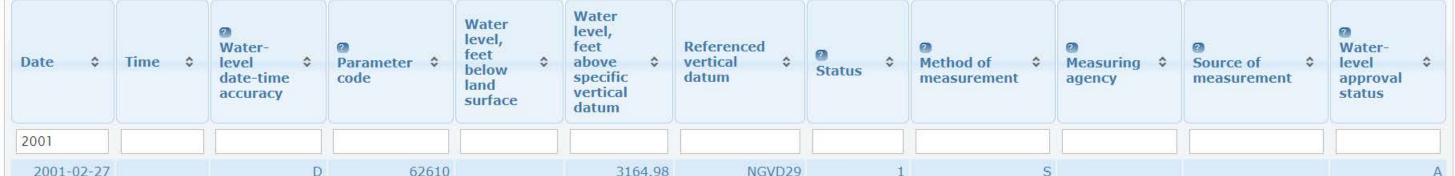
Lea County, New Mexico
Latitude 32°02'45", Longitude 103°33'59" NAD27
Land-surface elevation 3,291 feet above NAVD88
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

2001-02-27

Released to Imaging: 4/23/2024 11:18:14 AM



S



NAVD88

3166.56



APPENDIX B

Photographic Log



Photographic Log

BTA Oil Producers, LLC

Mesa B 22-25 Tank Battery (Mesa B East)

Incident Number nAPP2209078912





Photograph: 1 Date: 8/25/2023

Description: Initial assessment activities

View: West

Photograph: 2 Date: 8/25/2023

Description: Initial assessment activities

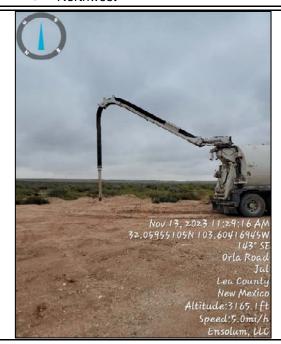
View: Northwest



Photograph: 3 Date: 10/5/2023

Description: Delineation activities

View: Northwest



Photograph: 4 Date: 11/13/2023

Description: Delineation activities

View: Southeast



Photographic Log

BTA Oil Producers, LLC

Mesa B 22-25 Tank Battery (Mesa B East)
Incident Number nAPP2209078912





Photograph: 5 Date: 11/13/2023

Description: Delineation activities

View: Southwest

Photograph: 6 Date: 12/28/2023

Description: Excavation activities

View: Southwest





Photograph: 7 Date: 1/16/2024

Description: Excavation activities

View: Northwest

Photograph: 8 Date: 1/16/2024

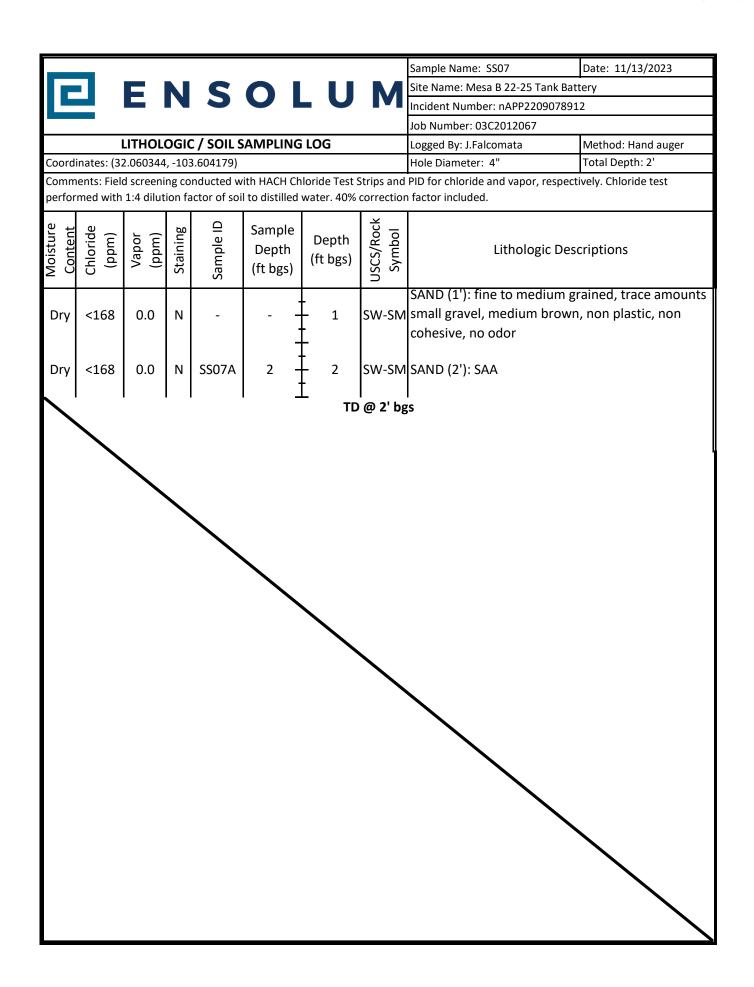
Description: Excavation activities

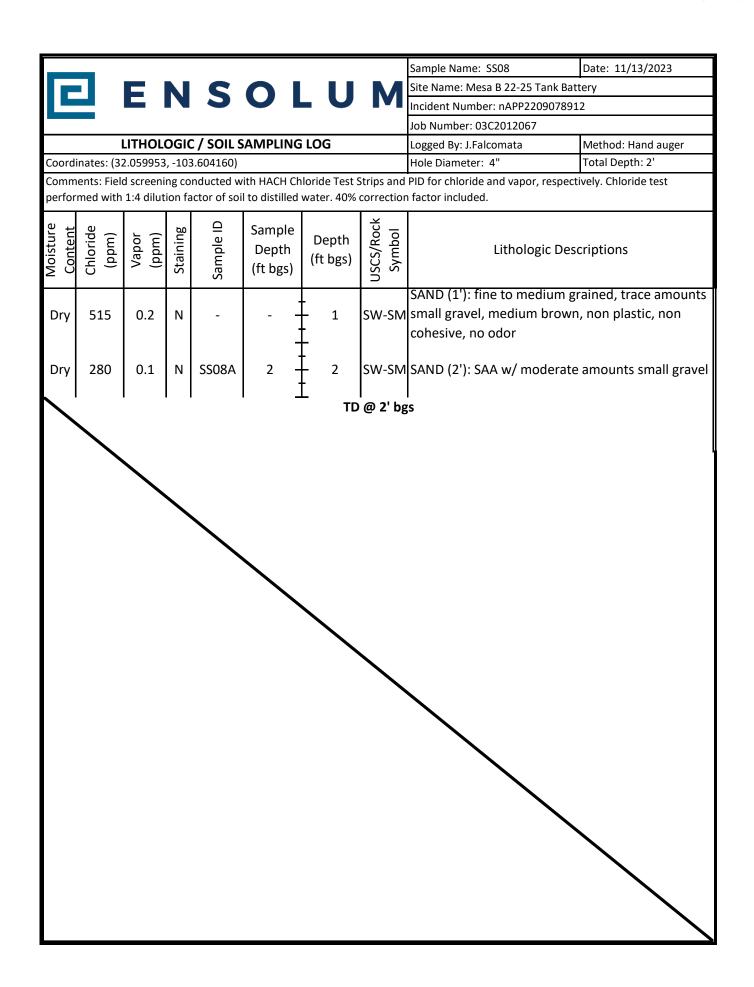
View: Southwest

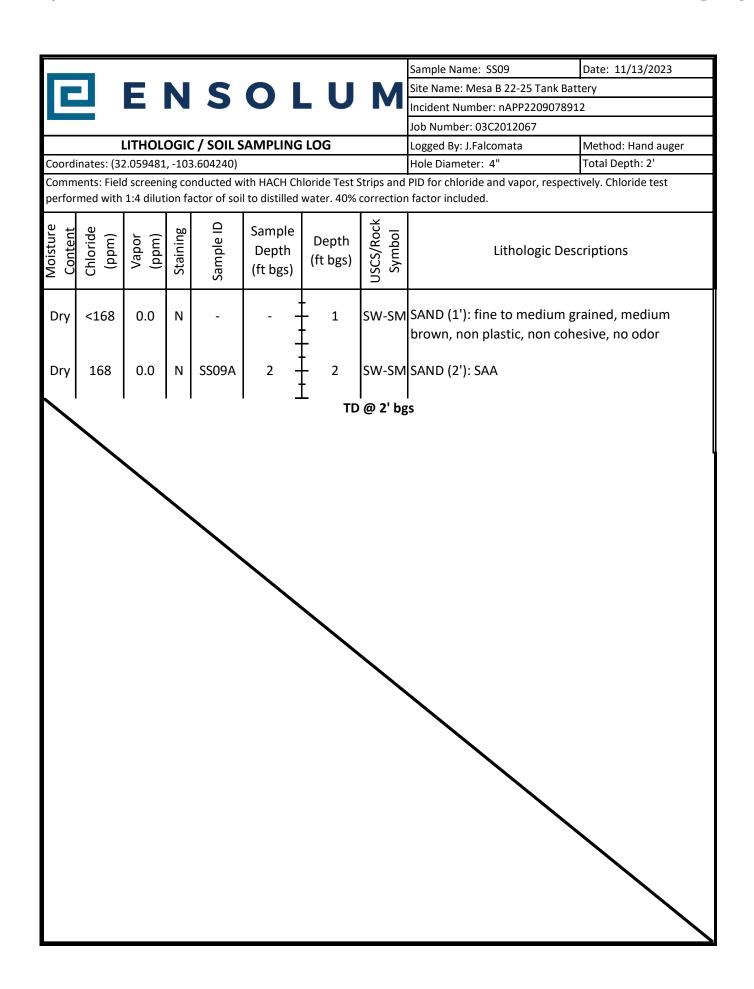


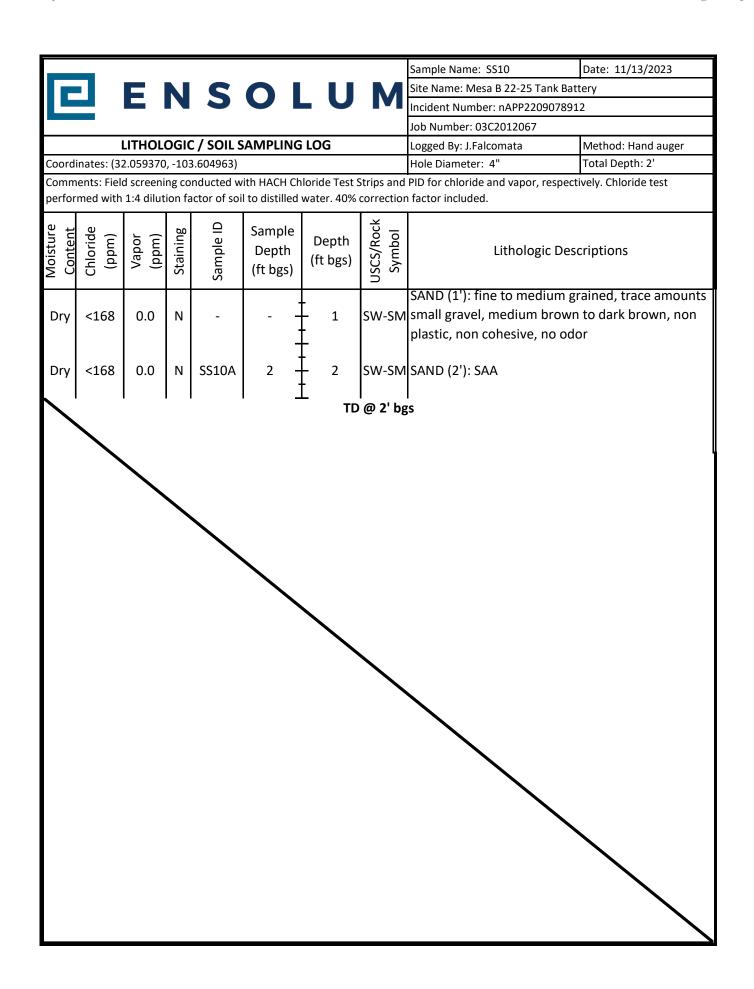
APPENDIX C

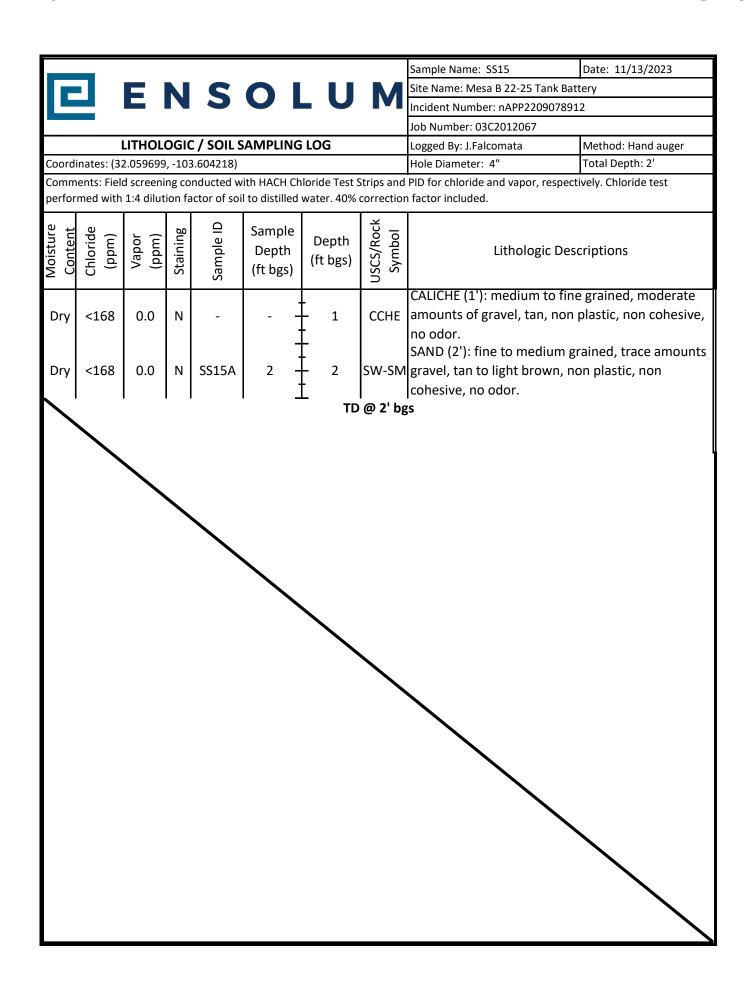
Lithologic Soil Sampling Logs

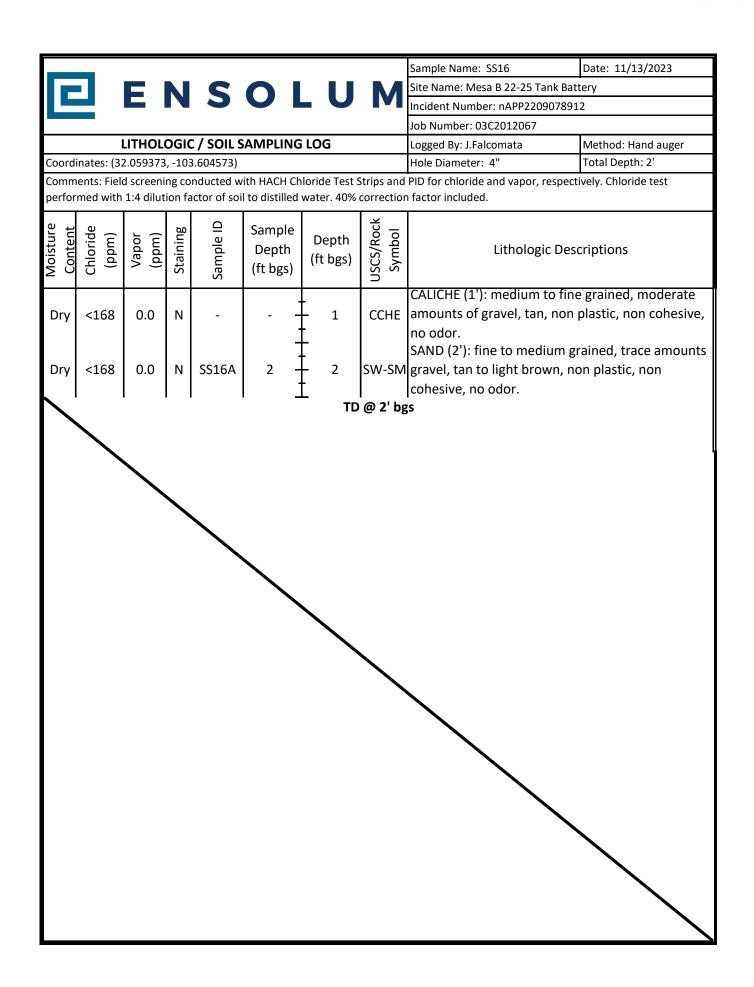








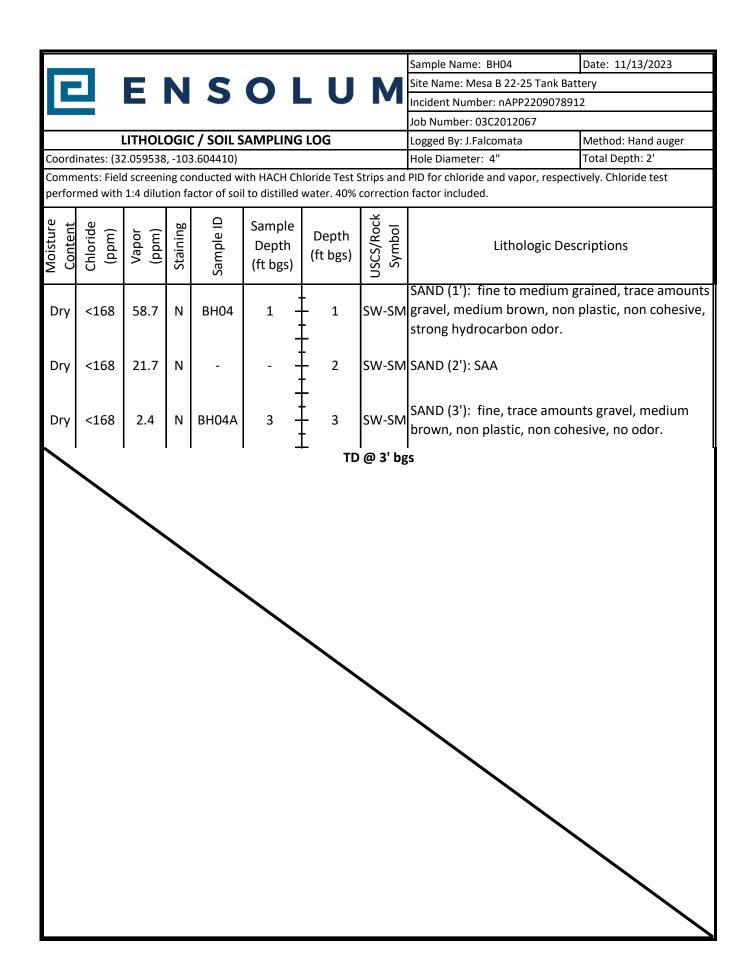




							Comple Name: DUO1	Data: 10/5/2022
							Sample Name: BH01	Date: 10/5/2023
		N	5	O L	. U	M	Site Name: Mesa B 22-25 Tank Bat Incident Number: nAPP220907891	
							Job Number: 03C2012067	12
	LITHOL	OGIO	. /	AMPLING	106			Mathead Hand Arres
Coordinates:				AIVIPLING	LUG		Logged By: Peter Van Patten Hole Diameter: 4"	Method: Hand Auger Total Depth: 2"
				+h 114 C11 Ch	arida Tast C	t-rine and	PID for chloride and vapor, respect	· ·
							factors included. ND - Non Detect	ivery. Cilionae test
Moisture Content Chloride	(ppm) Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Des	criptions
Wet NE		N N	BH01A	2 -	I		Sand: brown, medium to fingraded with silt, hydrocarbo SAA (same as above) some of the same as above) at 2 and 2	on odor

								Sample Name: BH02	Date: 10/5/2023	
		ΕI	N	S	O L	_ U	M	Site Name: Mesa B 22-25 Tank Ba		
								Incident Number: nAPP22090789	12	
		1711014	2010	1 6011 6	44511110	100		Job Number: 03C2012067	T	
C 1'					AMPLING	LOG		Logged By: Peter Van Patten	Method: Hand Auger Total Depth: 1.5"	
	nates: 32.				th LIACU Chi	Landella Tarak C	State and	Hole Diameter: 4"	· ·	
			-				•	PID for chloride and vapor, respec factors included. ND - Non Detect	tively. Chloride test	
Moisture Content	Moisture Content Content Content Content Content Chloride									
Dry Dry	ND ND	0.1	Z Z	BH02 BH02A	1 1 1.5	I - - - 1 - 1.5		Sand: brown, medium to fingraded with silt SAA (same as above) some TD (refusal, caliche bed) at		

								Sample Name: BH03	Date: 10/5/2023
				6	~ I		8.4	Site Name: Mesa B 22-25 Tank Ba	
			N	3	O L	. U	IVI	Incident Number: nAPP22090789	
								Job Number: 03C2012067	
	1	ITHOLO	ogic	· / SOIL S	AMPLING	LOG		Logged By: Peter Van Patten	Method: Hand Auger
Coordir	nates: 32.				AIVII LIIVO			Hole Diameter: 4"	Total Depth: 1.5"
					th HACH Ch	loride Test S	Strins and	PID for chloride and vapor, respec	· ·
								factors included. ND - Non Detect	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Des	scriptions
Damp Damp		0.0	N N	BH03 BH03A	1 1 _ 1.5 _	I - - 1 - 1.5		Sand: brown, medium to fir graded with silt <u>SAA (same as above) some</u> TD (refusal, caliche bed) at	





APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



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

September 01, 2023

HADLIE GREEN
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: MESA B 22-25 TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 08/29/23 13:00.

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

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/29/2023 Reported: 09/01/2023

MESA B 22-25 TANK BATTERY

Project Number: 03C2012067

Project Location: BTA 32.0597,-103.60435

Sampling Date: 08/25/2023

Sampling Type: Soil

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

Sample ID: SS01 0.5' (H234682-01)

Project Name:

DTEV 0021D

BTEX 8021B	mg,	/kg	Analyze	d By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2023	ND	1.84	92.0	2.00	0.469	
Toluene*	0.062	0.050	08/31/2023	ND	2.15	108	2.00	0.139	GC-NC1
Ethylbenzene*	0.177	0.050	08/31/2023	ND	2.23	112	2.00	0.589	GC-NC1
Total Xylenes*	1.43	0.150	08/31/2023	ND	6.73	112	6.00	0.707	GC-NC1
Total BTEX	1.66	0.300	08/31/2023	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	223	% 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	08/30/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	83.9	10.0	08/30/2023	ND	195	97.4	200	3.38	
DRO >C10-C28*	9830	10.0	08/30/2023	ND	197	98.4	200	7.63	
EXT DRO >C28-C36	1230	10.0	08/30/2023	ND					
Surrogate: 1-Chlorooctane	117 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	226	% 49.1-14	8						

Applyand By 14

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/29/2023 Reported: 09/01/2023

Project Name: MESA B 22-25 TANK BATTERY

ma/ka

Project Number: 03C2012067

Project Location: BTA 32.0597,-103.60435

Sampling Date: 08/25/2023

Sampling Type: Soil

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

Sample ID: SS02 0.5' (H234682-02)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2023	ND	1.83	91.3	2.00	1.62	
Toluene*	<0.050	0.050	08/30/2023	ND	1.85	92.4	2.00	2.01	
Ethylbenzene*	0.062	0.050	08/30/2023	ND	1.87	93.7	2.00	1.40	GC-NC1
Total Xylenes*	0.827	0.150	08/30/2023	ND	5.68	94.7	6.00	1.13	GC-NC1
Total BTEX	0.889	0.300	08/30/2023	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	131	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/30/2023	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	61.0	10.0	08/30/2023	ND	195	97.4	200	3.38	
DRO >C10-C28*	6430	10.0	08/30/2023	ND	197	98.4	200	7.63	
EXT DRO >C28-C36	878	10.0	08/30/2023	ND					
Surrogate: 1-Chlorooctane	111	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	172	% 49.1-14	8						

Applyzod By: MC

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

C-04



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

Analytical Results For:

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

Received: 08/29/2023 Reported: 09/01/2023

09/01/2023 MESA B 22-25 TANK BATTERY

ma/ka

Project Name: MESA B 22-25 Project Number: 03C2012067

Project Location: BTA 32.0597,-103.60435

Sampling Date: 08/25/2023

Sampling Type: Soil

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

Sample ID: SS03 0.5' (H234682-03)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2023	ND	1.83	91.3	2.00	1.62	
Toluene*	<0.050	0.050	08/30/2023	ND	1.85	92.4	2.00	2.01	
Ethylbenzene*	0.163	0.050	08/30/2023	ND	1.87	93.7	2.00	1.40	GC-NC1
Total Xylenes*	2.53	0.150	08/30/2023	ND	5.68	94.7	6.00	1.13	GC-NC1
Total BTEX	2.70	0.300	08/30/2023	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	181	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/30/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	166	100	08/30/2023	ND	195	97.4	200	3.38	
DRO >C10-C28*	10300	100	08/30/2023	ND	197	98.4	200	7.63	
EXT DRO >C28-C36	1110	100	08/30/2023	ND					
Surrogate: 1-Chlorooctane	120	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	217	% 49.1-14	8						

Applyzod By: MC

Cardinal Laboratories *=Accredited Analyte

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Celey 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: 08/29/2023 Reported:

09/01/2023 MESA B 22-25 TANK BATTERY

Project Name: Project Number: 03C2012067

Project Location: BTA 32.0597,-103.60435 Sampling Date: 08/25/2023

Sampling Type: Soil

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

Sample ID: SS04 0.5' (H234682-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	08/31/2023	ND	1.83	91.3	2.00	1.62	
Toluene*	<0.100	0.100	08/31/2023	ND	1.85	92.4	2.00	2.01	
Ethylbenzene*	<0.100	0.100	08/31/2023	ND	1.87	93.7	2.00	1.40	
Total Xylenes*	<0.300	0.300	08/31/2023	ND	5.68	94.7	6.00	1.13	
Total BTEX	<0.600	0.600	08/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	6 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/30/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<100	100	08/30/2023	ND	195	97.4	200	3.38	
DRO >C10-C28*	11100	100	08/30/2023	ND	197	98.4	200	7.63	
EXT DRO >C28-C36	2560	100	08/30/2023	ND					
Surrogate: 1-Chlorooctane	103 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	246 9	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Received: 08/29/2023 Reported: 09/01/2023

MESA B 22-25 TANK BATTERY

Project Name: Project Number: 03C2012067

Project Location: BTA 32.0597,-103.60435 Sampling Date: 08/25/2023

Sampling Type: Soil

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

Sample ID: SS05 0.5' (H234682-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	08/31/2023	ND	1.83	91.3	2.00	1.62	
Toluene*	<0.100	0.100	08/31/2023	ND	1.85	92.4	2.00	2.01	
Ethylbenzene*	0.143	0.100	08/31/2023	ND	1.87	93.7	2.00	1.40	GC-NC1
Total Xylenes*	<0.300	0.300	08/31/2023	ND	5.68	94.7	6.00	1.13	
Total BTEX	<0.600	0.600	08/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	6 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/30/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<100	100	08/30/2023	ND	195	97.4	200	3.38	
DRO >C10-C28*	10800	100	08/30/2023	ND	197	98.4	200	7.63	
EXT DRO >C28-C36	2430	100	08/30/2023	ND					
Surrogate: 1-Chlorooctane	104 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	268 9	% 49.1-14	8						

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Analytical Results For:

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

Received: 08/29/2023 Reported: 09/01/2023

MESA B 22-25 TANK BATTERY

Project Name: MESA B 22-2 Project Number: 03C2012067

Project Location: BTA 32.0597,-103.60435

Sampling Date: 08/25/2023

Sampling Type: Soil

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

Sample ID: SS06 0.5' (H234682-06)

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	08/30/2023	ND	1.83	91.3	2.00	1.62	
Toluene*	<0.050	0.050	08/30/2023	ND	1.85	92.4	2.00	2.01	
Ethylbenzene*	0.057	0.050	08/30/2023	ND	1.87	93.7	2.00	1.40	GC-NC1
Total Xylenes*	1.01	0.150	08/30/2023	ND	5.68	94.7	6.00	1.13	GC-NC1
Total BTEX	1.07	0.300	08/30/2023	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	152	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/30/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	108	10.0	08/30/2023	ND	195	97.4	200	3.38	
DRO >C10-C28*	9660	10.0	08/30/2023	ND	197	98.4	200	7.63	
EXT DRO >C28-C36	1030	10.0	08/30/2023	ND					
Surrogate: 1-Chlorooctane	157	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	206	% 49.1-14	8						

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Analytical Results For:

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

Received: 08/29/2023 Reported: 09/01/2023

Project Name: MESA B 22-25 TANK BATTERY

ma/ka

Project Number: 03C2012067

Project Location: BTA 32.0597,-103.60435

Sampling Date: 08/25/2023

Sampling Type: Soil

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

Sample ID: SS07 0.5' (H234682-07)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2023	ND	1.83	91.3	2.00	1.62	
Toluene*	<0.050	0.050	08/30/2023	ND	1.85	92.4	2.00	2.01	
Ethylbenzene*	<0.050	0.050	08/30/2023	ND	1.87	93.7	2.00	1.40	
Total Xylenes*	<0.150	0.150	08/30/2023	ND	5.68	94.7	6.00	1.13	
Total BTEX	<0.300	0.300	08/30/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/30/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2023	ND	223	112	200	2.90	
DRO >C10-C28*	<10.0	10.0	08/29/2023	ND	222	111	200	0.250	
EXT DRO >C28-C36	<10.0	10.0	08/29/2023	ND					
Surrogate: 1-Chlorooctane	113	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	134	% 49.1-14	8						

Applyzod By: MC

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Analytical Results For:

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

Received: 08/29/2023 Reported:

09/01/2023 MESA B 22-25 TANK BATTERY

Project Name: Project Number: 03C2012067

Project Location: BTA 32.0597,-103.60435 Sampling Date: 08/25/2023

Sampling Type: Soil

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

Sample ID: SS08 0.5' (H234682-08)

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	08/31/2023	ND	1.83	91.3	2.00	1.62	
Toluene*	<0.050	0.050	08/31/2023	ND	1.85	92.4	2.00	2.01	
Ethylbenzene*	<0.050	0.050	08/31/2023	ND	1.87	93.7	2.00	1.40	
Total Xylenes*	<0.150	0.150	08/31/2023	ND	5.68	94.7	6.00	1.13	
Total BTEX	<0.300	0.300	08/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 5	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/30/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2023	ND	223	112	200	2.90	
DRO >C10-C28*	<10.0	10.0	08/29/2023	ND	222	111	200	0.250	
EXT DRO >C28-C36	<10.0	10.0	08/29/2023	ND					
Surrogate: 1-Chlorooctane	114 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	136	% 49.1-14	8						

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Analytical Results For:

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

Received: 08/29/2023 Reported:

09/01/2023 MESA B 22-25 TANK BATTERY

Project Name: Project Number: 03C2012067

Project Location: BTA 32.0597,-103.60435 Sampling Date: 08/25/2023

Sampling Type: Soil

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

Sample ID: SS09 0.5' (H234682-09)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2023	ND	1.83	91.3	2.00	1.62	
Toluene*	<0.050	0.050	08/31/2023	ND	1.85	92.4	2.00	2.01	
Ethylbenzene*	<0.050	0.050	08/31/2023	ND	1.87	93.7	2.00	1.40	
Total Xylenes*	<0.150	0.150	08/31/2023	ND	5.68	94.7	6.00	1.13	
Total BTEX	<0.300	0.300	08/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 5	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	08/30/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2023	ND	223	112	200	2.90	
DRO >C10-C28*	31.9	10.0	08/29/2023	ND	222	111	200	0.250	
EXT DRO >C28-C36	<10.0	10.0	08/29/2023	ND					
Surrogate: 1-Chlorooctane	118 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	142 9	% 49.1-14	8						

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Analytical Results For:

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

Received: 08/29/2023 Reported: 09/01/2023

MESA B 22-25 TANK BATTERY

Project Number: 03C2012067

Project Location: BTA 32.0597,-103.60435 Sampling Date: 08/25/2023

Sampling Type: Soil

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

Sample ID: SS10 0.5' (H234682-10)

Project Name:

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2023	ND	1.83	91.3	2.00	1.62	
Toluene*	<0.050	0.050	08/31/2023	ND	1.85	92.4	2.00	2.01	
Ethylbenzene*	<0.050	0.050	08/31/2023	ND	1.87	93.7	2.00	1.40	
Total Xylenes*	<0.150	0.150	08/31/2023	ND	5.68	94.7	6.00	1.13	
Total BTEX	<0.300	0.300	08/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 5	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/30/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2023	ND	223	112	200	2.90	
DRO >C10-C28*	<10.0	10.0	08/29/2023	ND	222	111	200	0.250	
EXT DRO >C28-C36	<10.0	10.0	08/29/2023	ND					
Surrogate: 1-Chlorooctane	116 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	137 9	% 49.1-14	8						

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08/25/2023

Cool & Intact

Shalyn Rodriguez

Soil

Analytical Results For:

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

Received: 08/29/2023 Reported: 09/01/2023

09/01/2023 Sampling Type:
MESA B 22-25 TANK BATTERY Sampling Condition:

Analyzed By: MS

Sampling Date:

Sample Received By:

Project Name: MESA B 22-25 TANK BATTERY
Project Number: 03C2012067

Project Location: BTA 32.0597,-103.60435

mg/kg

117 %

49.1-148

Sample ID: SS11 0.5' (H234682-11)

BTEX 8021B

				<u> </u>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2023	ND	1.83	91.3	2.00	1.62	
Toluene*	<0.050	0.050	08/31/2023	ND	1.85	92.4	2.00	2.01	
Ethylbenzene*	<0.050	0.050	08/31/2023	ND	1.87	93.7	2.00	1.40	
Total Xylenes*	<0.150	0.150	08/31/2023	ND	5.68	94.7	6.00	1.13	
Total BTEX	<0.300	0.300	08/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/30/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2023	ND	223	112	200	2.90	
DRO >C10-C28*	<10.0	10.0	08/29/2023	ND	222	111	200	0.250	
EXT DRO >C28-C36	<10.0	10.0	08/29/2023	ND					
Surrogate: 1-Chlorooctane	96.7	% 48.2-13							

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Surrogate: 1-Chlorooctadecane

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received: 08/29/2023 Reported: 09/01/2023

Project Name: MESA B 22-25 TANK BATTERY

Project Number: 03C2012067

Project Location: BTA 32.0597,-103.60435

Sampling Date: 08/25/2023

Sampling Type: Soil

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

Sample ID: SS12 0.5' (H234682-12)

BTEX 8021B	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2023	ND	1.83	91.3	2.00	1.62	
Toluene*	<0.050	0.050	08/31/2023	ND	1.85	92.4	2.00	2.01	
Ethylbenzene*	<0.050	0.050	08/31/2023	ND	1.87	93.7	2.00	1.40	
Total Xylenes*	<0.150	0.150	08/31/2023	ND	5.68	94.7	6.00	1.13	
Total BTEX	<0.300	0.300	08/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/30/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2023	ND	223	112	200	2.90	
DRO >C10-C28*	<10.0	10.0	08/29/2023	ND	222	111	200	0.250	
EXT DRO >C28-C36	<10.0	10.0	08/29/2023	ND					
Surrogate: 1-Chlorooctane	98.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	117	% 49.1-14	18						

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Analytical Results For:

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

Received: 08/29/2023 Reported: 09/01/2023

MESA B 22-25 TANK BATTERY

Project Number: 03C2012067

Project Location: BTA 32.0597,-103.60435 Sampling Date: 08/25/2023

Sampling Type: Soil

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

Sample ID: SS13 0.5' (H234682-13)

Project Name:

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2023	ND	1.83	91.3	2.00	1.62	
Toluene*	<0.050	0.050	08/31/2023	ND	1.85	92.4	2.00	2.01	
Ethylbenzene*	<0.050	0.050	08/31/2023	ND	1.87	93.7	2.00	1.40	
Total Xylenes*	<0.150	0.150	08/31/2023	ND	5.68	94.7	6.00	1.13	
Total BTEX	<0.300	0.300	08/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/30/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2023	ND	223	112	200	2.90	
DRO >C10-C28*	<10.0	10.0	08/30/2023	ND	222	111	200	0.250	
EXT DRO >C28-C36	<10.0	10.0	08/30/2023	ND					
Surrogate: 1-Chlorooctane	100 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	118 9	6 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Received: 08/29/2023 Reported: 09/01/2023

Project Name: MESA B 22-25 TANK BATTERY

Project Number: 03C2012067

Project Location: BTA 32.0597,-103.60435 Sampling Date: 08/25/2023

Sampling Type: Soil

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

Sample ID: SS14 0.5' (H234682-14)

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	08/31/2023	ND	1.83	91.3	2.00	1.62	
Toluene*	<0.050	0.050	08/31/2023	ND	1.85	92.4	2.00	2.01	
Ethylbenzene*	<0.050	0.050	08/31/2023	ND	1.87	93.7	2.00	1.40	
Total Xylenes*	<0.150	0.150	08/31/2023	ND	5.68	94.7	6.00	1.13	
Total BTEX	<0.300	0.300	08/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/30/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2023	ND	223	112	200	2.90	
DRO >C10-C28*	<10.0	10.0	08/30/2023	ND	222	111	200	0.250	
EXT DRO >C28-C36	<10.0	10.0	08/30/2023	ND					
Surrogate: 1-Chlorooctane	99.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	117 9	% 49.1-14	8						

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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Freene

Laboratories 101 East Marland, Hobbs, NM 88240 6575 333-3325 EAX 1575 333-3326

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Relinquished By Relinquished By Sampler - UPS - Bus - Other: Delivered By: (Circle One) Phone #: 432-557-8895 Company Name: Ensolum, LLC 18° THEETH roject #: ampier Name: roject Location: roject Name: \ddress: Lab I.D. 0302012067 Q 100 3122 Nat'1 Mesa B Meredith Sample I.D. 32.0598, Hadlie (575) 393-2326 FAX (575) 393-2476 1088 SS02 SS03 5504 8809 9008 8805 Loss 2055 22-25 Green Parks Hwy -103. 60435 Observed Temp. Roberts Time: Time: Fax 供 Project Owner: State: Depth Tank Batter 0 (feet) TO J 3 ô 0.3 Zip: Received By Received By (G)RAB OR (C)OMP # CONTAINERS 02288 GROUNDWATER Cool Intact
Ves 13 Yes Sample Condition WASTEWATER SOIL MATRIX OIL SLUDGE OTHER Phone #: 432-312-2203 City: Fax #: Attn: Company: BTA Oi P.O. # Address: ACID/BASE: PRESERV CHECKED BY: ICE / COOL (entition) Midland Kerton Beared OTHER BILL Zip: 1045 Recos 8125123 DATE 70 SAMPLING 7970 All Results are emailed. Please provide Email address:
hgreene ensound.com
mobertseensound.com Turnaround Time: Verbal Result: 1040 REMARKS: 1045 1035 1000 1030 0601 1025 Sioi 1010 1005 TIME ation of the applicable Incident #: NAPP2209078912 meter ID #143 BTEX Chlorides Standard Rush TPH E No Add'l Phone #: ANALYSIS REQUEST Corrected Temp. °C Observed Temp. °C

Laboratories 101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Relinquished By Relinquished By: Sampler - UPS - Bus - Other: Delivered By: (Circle One) ervice. In no event shall Cardinal be Sable Company Name: Ensolum, LLC Project Location: Project Name: Mesa B Project #: FOR LAB USE ONLY hone #: Address: Project Manager: Lab I.D. ampler Name: FOR 0302012067 See 101 East Marland, Hobbs, NM 88240 Sample I.D. Meredith (575) 393-2326 FAX (575) 393-2476 32.0598 Hadlie SS12 SS13 SS14 SSII BO 22-25 Tank Batton Green Observed Tamp. °C Roberts -103. 60435 Time:300 Date C Time: Date: † Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com Project Owner: Fax #: State: Depth (feet) 0.5 4 0,3 Received By: Received By (G)RAB OR (C)OMP. Zip: # CONTAINERS GROUNDWATER unless made in writing and received by Cardinal within 30 days after compl Cool Intact
Tes D-Yes Sample Condition WASTEWATER × SOIL MATRIX OIL SLUDGE OTHER Fax 非 State: City: Phone #: Attn: Address: Company: P.O. #: ACID/BASE PRESERV. CHECKED BY: ICE / COOL Keiton Beaind (Initials) OTHER : See 2111E BTA OI Zip: 125/23 DATE 70 Pa SAMPLING by client, its subs All Results are emailed. Please provide Email address: Thermometer ID 1113 Turnaround Time: 10 50 Verbal Result: 1100 1055 1105 TIME tion of the applicable Incident #: NAPP2209078912 BTEX □ Yes Chlorides Standard TPH No No Add'! Phone #: ANALYSIS Bacteria (only) Sample Condition
Cool Infact Observed Temp.
Yes Yes
No No Corrected Temp. REQUEST Pazof Observed Temp. °C Corrected Temp, °C



October 17, 2023

HADLIE GREEN

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: MESA B 22-25 TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 10/05/23 13:30.

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

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2 Regulated VOCs and Total Trihalomethanes (TTHM)

Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Celey D. Keene

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

3122 NATIONAL PARKS HWY



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

Analytical Results For:

Project: MESA B 22-25 TANK BATTERY **ENSOLUM** Project Number: 03C2012067

Project Manager: HADLIE GREEN CARLSBAD NM, 88220

Fax To:

Reported: 17-Oct-23 09:03

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH 01 1	H235432-01	Soil	05-Oct-23 09:15	05-Oct-23 13:30
BH 01A 2	H235432-02	Soil	05-Oct-23 09:20	05-Oct-23 13:30
BH 02 1	H235432-03	Soil	05-Oct-23 09:50	05-Oct-23 13:30
BH 02 A 1.5	H235432-04	Soil	05-Oct-23 09:55	05-Oct-23 13:30
BH 03 1	H235432-05	Soil	05-Oct-23 10:20	05-Oct-23 13:30
BH 03 A 1.5	H235432-06	Soil	05-Oct-23 10:25	05-Oct-23 13:30
SS 15 0.5	H235432-07	Soil	05-Oct-23 10:35	05-Oct-23 13:30
SS 16 0.5	H235432-08	Soil	05-Oct-23 10:45	05-Oct-23 13:30
SS 17 0.5	H235432-09	Soil	05-Oct-23 10:55	05-Oct-23 13:30

10/17/23 - Client changed the sample IDs for -07, -08 and -09 (see COC). This is the revised report and will replace the one sent on 10/11/23.

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Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: MESA B 22-25 TANK BATTERY

Project Number: 03C2012067

Project Manager: HADLIE GREEN

Fax To:

Reported: 17-Oct-23 09:03

BH 01 1 H235432-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	16.0		16.0	mg/kg	4	3100635	AC	06-Oct-23	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								S-04
Benzene*	< 0.050		0.050	mg/kg	50	3100606	JН	08-Oct-23	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	3100606	JH	08-Oct-23	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	3100606	JH	08-Oct-23	8021B	GC-NC
Total Xylenes*	< 0.150		0.150	mg/kg	50	3100606	ЈН	08-Oct-23	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	3100606	JH	08-Oct-23	8021B	
Surrogate: 4-Bromofluorobenzene (PIL	D)		139 %	71.5	-134	3100606	JH	08-Oct-23	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	30.0		10.0	mg/kg	1	3100537	MS	06-Oct-23	8015B	
DRO >C10-C28*	4030		10.0	mg/kg	1	3100537	MS	06-Oct-23	8015B	
EXT DRO >C28-C36	747		10.0	mg/kg	1	3100537	MS	06-Oct-23	8015B	
Surrogate: 1-Chlorooctane			131 %	48.2	-134	3100537	MS	06-Oct-23	8015B	
Surrogate: 1-Chlorooctadecane			140 %	49.1	-148	3100537	MS	06-Oct-23	8015B	

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Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: MESA B 22-25 TANK BATTERY

Project Number: 03C2012067 Project Manager: HADLIE GREEN

Fax To:

Reported: 17-Oct-23 09:03

BH 01A 2 H235432-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	64.0		16.0	mg/kg	4	3100635	AC	06-Oct-23	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	3100606	JH	08-Oct-23	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	3100606	JH	08-Oct-23	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	3100606	JH	08-Oct-23	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	3100606	JH	08-Oct-23	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	3100606	JH	08-Oct-23	8021B	
Surrogate: 4-Bromofluorobenzene (PI.	D)		117 %	71.5	-134	3100606	ЈН	08-Oct-23	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	3100537	MS	06-Oct-23	8015B	
DRO >C10-C28*	871		10.0	mg/kg	1	3100537	MS	06-Oct-23	8015B	
EXT DRO >C28-C36	217		10.0	mg/kg	1	3100537	MS	06-Oct-23	8015B	
Surrogate: 1-Chlorooctane			118 %	48.2	-134	3100537	MS	06-Oct-23	8015B	
Surrogate: 1-Chlorooctadecane			119 %	49.1	-148	3100537	MS	06-Oct-23	8015B	

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Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: MESA B 22-25 TANK BATTERY

Project Number: 03C2012067 Project Manager: HADLIE GREEN

Fax To:

Reported: 17-Oct-23 09:03

BH 02 1 H235432-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	tories					
Inorganic Compounds										
Chloride	16.0		16.0	mg/kg	4	3100635	AC	06-Oct-23	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	3100606	JH	08-Oct-23	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	3100606	JH	08-Oct-23	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	3100606	JH	08-Oct-23	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	3100606	JH	08-Oct-23	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	3100606	JH	08-Oct-23	8021B	
Surrogate: 4-Bromofluorobenzene (P	ID)		101 %	71.5	-134	3100606	ЈН	08-Oct-23	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	3100537	MS	06-Oct-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3100537	MS	06-Oct-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3100537	MS	06-Oct-23	8015B	
Surrogate: 1-Chlorooctane			81.8 %	48.2	-134	3100537	MS	06-Oct-23	8015B	
Surrogate: 1-Chlorooctadecane			102 %	49.1	-148	3100537	MS	06-Oct-23	8015B	

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: MESA B 22-25 TANK BATTERY

Project Number: 03C2012067

Project Manager: HADLIE GREEN

Fax To:

Reported: 17-Oct-23 09:03

BH 02 A 1.5 H235432-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	tories					
Inorganic Compounds										
Chloride	<16.0		16.0	mg/kg	4	3100642	AC	06-Oct-23	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	3100606	JH	08-Oct-23	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	3100606	JH	08-Oct-23	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	3100606	JH	08-Oct-23	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	3100606	JH	08-Oct-23	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	3100606	JH	08-Oct-23	8021B	
Surrogate: 4-Bromofluorobenzene (PIL))		103 %	71.5	-134	3100606	ЈН	08-Oct-23	8021B	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	3100603	MS	06-Oct-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3100603	MS	06-Oct-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3100603	MS	06-Oct-23	8015B	
Surrogate: 1-Chlorooctane			80.6 %	48.2	-134	3100603	MS	06-Oct-23	8015B	
Surrogate: 1-Chlorooctadecane			90.8 %	49.1	-148	3100603	MS	06-Oct-23	8015B	

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Celey D. Keene



Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: MESA B 22-25 TANK BATTERY

Project Number: 03C2012067

Project Manager: HADLIE GREEN

Fax To:

Reported: 17-Oct-23 09:03

BH 03 1 H235432-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	<16.0		16.0	mg/kg	4	3100642	AC	06-Oct-23	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	3100606	JH	08-Oct-23	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	3100606	JH	08-Oct-23	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	3100606	JH	08-Oct-23	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	3100606	JH	08-Oct-23	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	3100606	JH	08-Oct-23	8021B	
Surrogate: 4-Bromofluorobenzene (P.	ID)		100 %	71.5	-134	3100606	JH	08-Oct-23	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	3100603	MS	06-Oct-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3100603	MS	06-Oct-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3100603	MS	06-Oct-23	8015B	
Surrogate: 1-Chlorooctane			93.7 %	48.2	-134	3100603	MS	06-Oct-23	8015B	
Surrogate: 1-Chlorooctadecane			108 %	49.1	-148	3100603	MS	06-Oct-23	8015B	

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Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: MESA B 22-25 TANK BATTERY

Project Number: 03C2012067

Project Manager: HADLIE GREEN

Fax To:

Reported: 17-Oct-23 09:03

BH 03 A 1.5 H235432-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	<16.0		16.0	mg/kg	4	3100642	AC	06-Oct-23	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	3100606	JH	08-Oct-23	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	3100606	JH	08-Oct-23	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	3100606	JH	08-Oct-23	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	3100606	JH	08-Oct-23	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	3100606	JH	08-Oct-23	8021B	
Surrogate: 4-Bromofluorobenzene (PIL	D)		99.3 %	71.5	-134	3100606	ЈН	08-Oct-23	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	3100603	MS	06-Oct-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3100603	MS	06-Oct-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3100603	MS	06-Oct-23	8015B	
Surrogate: 1-Chlorooctane			97.6 %	48.2	-134	3100603	MS	06-Oct-23	8015B	
Surrogate: 1-Chlorooctadecane			114 %	49.1	-148	3100603	MS	06-Oct-23	8015B	

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Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: MESA B 22-25 TANK BATTERY

Project Number: 03C2012067

Project Manager: HADLIE GREEN

Fax To:

Reported: 17-Oct-23 09:03

SS 15 0.5 H235432-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	tories					
Inorganic Compounds										
Chloride	48.0		16.0	mg/kg	4	3100642	AC	06-Oct-23	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	3100606	JH	08-Oct-23	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	3100606	JH	08-Oct-23	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	3100606	JH	08-Oct-23	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	3100606	JH	08-Oct-23	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	3100606	JH	08-Oct-23	8021B	
Surrogate: 4-Bromofluorobenzene (P.	ID)		100 %	71.5	-134	3100606	JH	08-Oct-23	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	3100603	MS	06-Oct-23	8015B	
DRO >C10-C28*	27.2		10.0	mg/kg	1	3100603	MS	06-Oct-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3100603	MS	06-Oct-23	8015B	
Surrogate: 1-Chlorooctane			92.4 %	48.2	-134	3100603	MS	06-Oct-23	8015B	
Surrogate: 1-Chlorooctadecane			109 %	49.1	-148	3100603	MS	06-Oct-23	8015B	

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Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: MESA B 22-25 TANK BATTERY

Project Number: 03C2012067

Project Manager: HADLIE GREEN

Fax To:

Reported: 17-Oct-23 09:03

SS 16 0.5 H235432-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	48.0		16.0	mg/kg	4	3100642	AC	06-Oct-23	4500-Cl-B	
Volatile Organic Compounds b	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	3100606	JH	08-Oct-23	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	3100606	JH	08-Oct-23	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	3100606	JН	08-Oct-23	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	3100606	JH	08-Oct-23	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	3100606	JH	08-Oct-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			101 %	71.5	-134	3100606	ЈН	08-Oct-23	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	3100603	MS	06-Oct-23	8015B	
DRO >C10-C28*	13.9		10.0	mg/kg	1	3100603	MS	06-Oct-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3100603	MS	06-Oct-23	8015B	
Surrogate: 1-Chlorooctane			96.6 %	48.2	-134	3100603	MS	06-Oct-23	8015B	
Surrogate: 1-Chlorooctadecane			115 %	49.1	-148	3100603	MS	06-Oct-23	8015B	

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Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: MESA B 22-25 TANK BATTERY

Project Number: 03C2012067

Project Manager: HADLIE GREEN

Fax To:

Reported: 17-Oct-23 09:03

SS 17 0.5 H235432-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	tories					
Inorganic Compounds										
Chloride	48.0		16.0	mg/kg	4	3100642	AC	06-Oct-23	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								S-04
Benzene*	< 0.050		0.050	mg/kg	50	3100606	JН	08-Oct-23	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	3100606	JH	08-Oct-23	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	3100606	JH	08-Oct-23	8021B	GC-NC
Total Xylenes*	0.311		0.150	mg/kg	50	3100606	JH	08-Oct-23	8021B	GC-NC1
Total BTEX	0.311		0.300	mg/kg	50	3100606	ЈН	08-Oct-23	8021B	GC-NC1
Surrogate: 4-Bromofluorobenzene (PID))		189 %	71.5	-134	3100606	ЈН	08-Oct-23	8021B	
Petroleum Hydrocarbons by C	GC FID									S-06
GRO C6-C10*	314		100	mg/kg	10	3100603	MS	09-Oct-23	8015B	
DRO >C10-C28*	27600		100	mg/kg	10	3100603	MS	09-Oct-23	8015B	
EXT DRO >C28-C36	4500		100	mg/kg	10	3100603	MS	09-Oct-23	8015B	
Surrogate: 1-Chlorooctane			226 %	48.2	-134	3100603	MS	09-Oct-23	8015B	
Surrogate: 1-Chlorooctadecane			514 %	49.1	-148	3100603	MS	09-Oct-23	8015B	

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Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: MESA B 22-25 TANK BATTERY

Project Number: 03C2012067

Project Manager: HADLIE GREEN

Fax To:

Reported: 17-Oct-23 09:03

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3100635 - 1:4 DI Water										
Blank (3100635-BLK1)				Prepared &	: Analyzed:	06-Oct-23				
Chloride	ND	16.0	mg/kg							
LCS (3100635-BS1)				Prepared &	Analyzed:	06-Oct-23				
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (3100635-BSD1)				Prepared &	Analyzed:	06-Oct-23				
Chloride	432	16.0	mg/kg	400		108	80-120	3.77	20	
Batch 3100642 - 1:4 DI Water										
Blank (3100642-BLK1)				Prepared &	: Analyzed:	06-Oct-23				
Chloride	ND	16.0	mg/kg							
LCS (3100642-BS1)				Prepared &	: Analyzed:	06-Oct-23				
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (3100642-BSD1)				Prepared &	: Analyzed:	06-Oct-23				
Chloride	448	16.0	mg/kg	400	·	112	80-120	7.41	20	

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%REC

102

71 5-134

Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: MESA B 22-25 TANK BATTERY

Project Number: 03C2012067

Spike

Source

Project Manager: HADLIE GREEN

Fax To:

Reported: 17-Oct-23 09:03

RPD

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Reporting

0.0512

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 3100606 - Volatiles										
Blank (3100606-BLK1)				Prepared: 0	6-Oct-23 A	nalyzed: 0	7-Oct-23			
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0505		mg/kg	0.0500		101	71.5-134			
LCS (3100606-BS1)				Prepared: 0	6-Oct-23 A	nalyzed: 0	7-Oct-23			
Benzene	2.01	0.050	mg/kg	2.00		101	82.8-130			
Toluene	2.04	0.050	mg/kg	2.00		102	86-128			
Ethylbenzene	2.13	0.050	mg/kg	2.00		107	85.9-128			
m,p-Xylene	4.31	0.100	mg/kg	4.00		108	89-129			
o-Xylene	2.17	0.050	mg/kg	2.00		108	86.1-125			
Total Xylenes	6.47	0.150	mg/kg	6.00		108	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0534		mg/kg	0.0500		107	71.5-134			
LCS Dup (3100606-BSD1)				Prepared: 0	6-Oct-23 A	nalyzed: 0	7-Oct-23			
Benzene	2.05	0.050	mg/kg	2.00		102	82.8-130	1.83	15.8	
Toluene	1.93	0.050	mg/kg	2.00		96.7	86-128	5.17	15.9	
Ethylbenzene	2.01	0.050	mg/kg	2.00		100	85.9-128	6.07	16	
m,p-Xylene	4.03	0.100	mg/kg	4.00		101	89-129	6.71	16.2	
o-Xylene	2.03	0.050	mg/kg	2.00		102	86.1-125	6.27	16.7	
Total Xylenes	6.06	0.150	mg/kg	6.00		101	88.2-128	6.56	16.3	

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mg/kg

0.0500

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Surrogate: 4-Bromofluorobenzene (PID)



%REC

Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: MESA B 22-25 TANK BATTERY

Project Number: 03C2012067

Spike

Source

Project Manager: HADLIE GREEN

Fax To:

Reported: 17-Oct-23 09:03

RPD

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Reporting

		recporting		Spine	Bource		/orthe		ICI D	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 3100537 - General Prep - Organics										
Blank (3100537-BLK1)				Prepared:	05-Oct-23 A	Analyzed: 0	06-Oct-23			
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	52.0		mg/kg	50.0		104	48.2-134			
Surrogate: 1-Chlorooctadecane	64.0		mg/kg	50.0		128	49.1-148			
LCS (3100537-BS1)				Prepared:	05-Oct-23 A	Analyzed: (06-Oct-23			
GRO C6-C10	213	10.0	mg/kg	200		106	66.4-123			
DRO >C10-C28	246	10.0	mg/kg	200		123	66.5-118			BS-3
Total TPH C6-C28	459	10.0	mg/kg	400		115	77.6-123			
Surrogate: 1-Chlorooctane	55.5		mg/kg	50.0		111	48.2-134			
Surrogate: 1-Chlorooctadecane	63.4		mg/kg	50.0		127	49.1-148			
LCS Dup (3100537-BSD1)				Prepared: (05-Oct-23 A	Analyzed: (06-Oct-23			
GRO C6-C10	216	10.0	mg/kg	200		108	66.4-123	1.73	17.7	
DRO >C10-C28	251	10.0	mg/kg	200		126	66.5-118	2.02	21	BS-3
Total TPH C6-C28	468	10.0	mg/kg	400		117	77.6-123	1.89	18.5	
Surrogate: 1-Chlorooctane	56.6		mg/kg	50.0		113	48.2-134			
Surrogate: 1-Chlorooctadecane	64.7		mg/kg	50.0		129	49.1-148			
Batch 3100603 - General Prep - Organics										
Blank (3100603-BLK1)				Prepared &	& Analyzed:	06-Oct-23	;			
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	45.5		mg/kg	50.0		91.0	48.2-134			

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Surrogate: 1-Chlorooctadecane

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mg/kg

50.0

107

49.1-148

53.4

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



%REC

Analytical Results For:

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Project: MESA B 22-25 TANK BATTERY

Project Number: 03C2012067

Project Manager: HADLIE GREEN

Spike

Source

Fax To:

Reported: 17-Oct-23 09:03

RPD

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 3100603 - General Prep - Organics										
LCS (3100603-BS1)				Prepared &	k Analyzed:	06-Oct-23				
GRO C6-C10	201	10.0	mg/kg	200	·	100	66.4-123		·	
DRO >C10-C28	220	10.0	mg/kg	200		110	66.5-118			
Total TPH C6-C28	420	10.0	mg/kg	400		105	77.6-123			
Surrogate: 1-Chlorooctane	50.2		mg/kg	50.0		100	48.2-134			
Surrogate: 1-Chlorooctadecane	55.4		mg/kg	50.0		111	49.1-148			
LCS Dup (3100603-BSD1)				Prepared &	analyzed:	06-Oct-23				
GRO C6-C10	203	10.0	mg/kg	200		102	66.4-123	1.38	17.7	
DRO >C10-C28	221	10.0	mg/kg	200		110	66.5-118	0.397	21	
Total TPH C6-C28	424	10.0	mg/kg	400		106	77.6-123	0.867	18.5	
Surrogate: 1-Chlorooctane	50.6		mg/kg	50.0		101	48.2-134			
Surrogate: 1-Chlorooctadecane	55.9		mg/kg	50.0		112	49.1-148			

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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Keine

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

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

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November 17, 2023

HADLIE GREEN
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: MESA B 22-25 TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 11/14/23 11:40.

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

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

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

Celey D. Keene

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received: 11/14/2023 Reported: 11/17/2023

11/17/2023 Sampling Type: MESA B 22-25 TANK BATTERY Sampling Condit

Project Name: MESA B 22-2 Project Number: 03C2012067

Project Location: BTA (32.05980,-103.60435)

Sampling Date: 11/13/2023

g Type: Soil

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

Sample ID: SS 07 A @ 2' (H236219-01)

BTEX 8021B	mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2023	ND	1.81	90.3	2.00	0.0557	
Toluene*	<0.050	0.050	11/15/2023	ND	1.94	96.8	2.00	0.265	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	1.95	97.6	2.00	0.694	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	5.91	98.4	6.00	0.565	
Total BTEX	<0.300	0.300	11/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/15/2023	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/15/2023	ND	200	99.8	200	3.63	
DRO >C10-C28*	<10.0	10.0	11/15/2023	ND	203	101	200	2.06	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					
Surrogate: 1-Chlorooctane	88.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.1	% 49.1-14	8						

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Analytical Results For:

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

Received: 11/14/2023 Reported: 11/17/2023

MESA B 22-25 TANK BATTERY

Project Name: Project Number: 03C2012067

Project Location: BTA (32.05980,-103.60435) Sampling Date: 11/13/2023

Sampling Type: Soil

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

Sample ID: SS 08 A @ 2' (H236219-02)

BTEX 8021B	mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2023	ND	1.81	90.3	2.00	0.0557	
Toluene*	<0.050	0.050	11/15/2023	ND	1.94	96.8	2.00	0.265	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	1.95	97.6	2.00	0.694	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	5.91	98.4	6.00	0.565	
Total BTEX	<0.300	0.300	11/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	11/15/2023	ND	432	108	400	3.64	
TPH 8015M	mg/	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/15/2023	ND	198	98.8	200	0.820	
DRO >C10-C28*	<10.0	10.0	11/15/2023	ND	200	100	200	2.72	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					
Surrogate: 1-Chlorooctane	88.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.6	% 49.1-14	8						

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Analytical Results For:

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

Received: 11/14/2023 Sampling Date: 11/13/2023

Reported: 11/17/2023 Sampling Type: Soil

Project Name: MESA B 22-25 TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 03C2012067 Sample Received By: Tamara Oldaker

Analyzed By: JH/

Project Location: BTA (32.05980,-103.60435)

Sample ID: SS 09 A @ 2' (H236219-03)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2023	ND	1.81	90.3	2.00	0.0557	
Toluene*	<0.050	0.050	11/15/2023	ND	1.94	96.8	2.00	0.265	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	1.95	97.6	2.00	0.694	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	5.91	98.4	6.00	0.565	
Total BTEX	<0.300	0.300	11/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/15/2023	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	11/15/2023	ND	198	98.8	200	0.820	
DRO >C10-C28*	<10.0	10.0	11/15/2023	ND	200	100	200	2.72	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					
Surrogate: 1-Chlorooctane	82.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.3	% 49.1-14	8						

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Tamara Oldaker

Analytical Results For:

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

Received: 11/14/2023 Reported: 11/17/2023

 11/14/2023
 Sampling Date:
 11/13/2023

 11/17/2023
 Sampling Type:
 Soil

 MESA B 22-25 TANK BATTERY
 Sampling Condition:
 Cool & Intact

Sample Received By:

Project Name: MESA B 22-2 Project Number: 03C2012067

Project Location: BTA (32.05980,-103.60435)

Sample ID: SS 10 A @ 2' (H236219-04)

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	11/15/2023	ND	1.81	90.3	2.00	0.0557	
Toluene*	<0.050	0.050	11/15/2023	ND	1.94	96.8	2.00	0.265	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	1.95	97.6	2.00	0.694	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	5.91	98.4	6.00	0.565	
Total BTEX	<0.300	0.300	11/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/15/2023	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/15/2023	ND	198	98.8	200	0.820	
DRO >C10-C28*	<10.0	10.0	11/15/2023	ND	200	100	200	2.72	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					
Surrogate: 1-Chlorooctane	86.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.4	% 49.1-14	8						

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Analytical Results For:

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

Received: 11/14/2023 Reported: 11/17/2023

MESA B 22-25 TANK BATTERY

Project Name: Project Number: 03C2012067

Project Location: BTA (32.05980,-103.60435) Sampling Date: 11/13/2023

Sampling Type: Soil

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

Sample ID: SS 15 A @ 2' (H236219-05)

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	11/15/2023	ND	1.81	90.3	2.00	0.0557	
Toluene*	<0.050	0.050	11/15/2023	ND	1.94	96.8	2.00	0.265	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	1.95	97.6	2.00	0.694	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	5.91	98.4	6.00	0.565	
Total BTEX	<0.300	0.300	11/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/15/2023	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	11/15/2023	ND	198	98.8	200	0.820	
DRO >C10-C28*	<10.0	10.0	11/15/2023	ND	200	100	200	2.72	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					
Surrogate: 1-Chlorooctane	84.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.0	% 49.1-14	8						

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Analytical Results For:

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

Received: 11/14/2023 Sampling Date: 11/13/2023

Reported: 11/17/2023 Sampling Type: Soil

Project Name: MESA B 22-25 TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 03C2012067 Sample Received By: Tamara Oldaker

Project Location: BTA (32.05980,-103.60435)

Sample ID: SS 16 A @ 2' (H236219-06)

BTEX 8021B	mg/kg		Analyze	Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2023	ND	1.81	90.3	2.00	0.0557	
Toluene*	<0.050	0.050	11/15/2023	ND	1.94	96.8	2.00	0.265	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	1.95	97.6	2.00	0.694	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	5.91	98.4	6.00	0.565	
Total BTEX	<0.300	0.300	11/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/15/2023	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/15/2023	ND	198	98.8	200	0.820	
DRO >C10-C28*	<10.0	10.0	11/15/2023	ND	200	100	200	2.72	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					
Surrogate: 1-Chlorooctane	84.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.4	% 49.1-14	8						

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Analytical Results For:

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

Received: 11/14/2023 Sampling Date: 11/13/2023

Reported: 11/17/2023 Sampling Type: Soil

Project Name: MESA B 22-25 TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 03C2012067 Sample Received By: Tamara Oldaker

Project Location: BTA (32.05980,-103.60435)

Sample ID: BH 04 @ 1' (H236219-07)

BTEX 8021B	mg/kg		Analyze	Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2023	ND	1.81	90.3	2.00	0.0557	
Toluene*	<0.050	0.050	11/15/2023	ND	1.94	96.8	2.00	0.265	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	1.95	97.6	2.00	0.694	
Total Xylenes*	0.263	0.150	11/15/2023	ND	5.91	98.4	6.00	0.565	GC-NC1
Total BTEX	<0.300	0.300	11/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	125	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/15/2023	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*	146	10.0	11/15/2023	ND	198	98.8	200	0.820	
DRO >C10-C28*	2560	10.0	11/15/2023	ND	200	100	200	2.72	
EXT DRO >C28-C36	345	10.0	11/15/2023	ND					
Surrogate: 1-Chlorooctane	111 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	77.8	% 49.1-14	8						

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Analytical Results For:

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

Received: 11/14/2023 Sampling Date: 11/13/2023

Reported: 11/17/2023 Sampling Type: Soil

Project Name: MESA B 22-25 TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 03C2012067 Sample Received By: Tamara Oldaker

Project Location: BTA (32.05980,-103.60435)

Sample ID: BH 04 A @ 3' (H236219-08)

BTEX 8021B	mg/kg		Analyze	Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2023	ND	1.81	90.3	2.00	0.0557	
Toluene*	<0.050	0.050	11/15/2023	ND	1.94	96.8	2.00	0.265	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	1.95	97.6	2.00	0.694	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	5.91	98.4	6.00	0.565	
Total BTEX	<0.300	0.300	11/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/15/2023	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/15/2023	ND	198	98.8	200	0.820	
DRO >C10-C28*	<10.0	10.0	11/15/2023	ND	200	100	200	2.72	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					
Surrogate: 1-Chlorooctane	89.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.9	% 49.1-14	18						

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Analytical Results For:

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

Received: 11/14/2023 Sampling Date: 11/13/2023

Reported: 11/17/2023 Sampling Type: Soil

Project Name: MESA B 22-25 TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 03C2012067 Sample Received By: Tamara Oldaker

Applyzod By: 1H /

Project Location: BTA (32.05980,-103.60435)

Sample ID: SS 18 @ .5' (H236219-09)

RTFY 8021R

Result	Reporting Limit	Analyzed						
		Allalyzeu	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	11/15/2023	ND	1.81	90.3	2.00	0.0557	
<0.050	0.050	11/15/2023	ND	1.94	96.8	2.00	0.265	
<0.050	0.050	11/15/2023	ND	1.95	97.6	2.00	0.694	
<0.150	0.150	11/15/2023	ND	5.91	98.4	6.00	0.565	
<0.300	0.300	11/15/2023	ND					
114 9	% 71.5-13	4						
mg/kg		Analyzed By: AC						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
48.0	16.0	11/15/2023	ND	432	108	400	3.64	
mg/	/kg	Analyzed By: MS						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	11/15/2023	ND	198	98.8	200	0.820	
<10.0	10.0	11/15/2023	ND	200	100	200	2.72	
<10.0	10.0	11/15/2023	ND					
117 9	% 48.2-13	4						
129	% 49.1-14	8						
	<0.050 <0.150 <0.300 114 9 mg/ Result 48.0 mg/ Result <10.0 <10.0 <10.0	<0.050 0.050 <0.050 0.050 <0.150 0.150 <0.300 0.300 114	County County	<0.050	<0.050	<0.050	<0.050	<0.050

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Tamara Oldaker

Sample Received By:

Analytical Results For:

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

Received: 11/14/2023 Sampling Date: 11/13/2023 Soil

Reported: 11/17/2023 Sampling Type: Project Name: MESA B 22-25 TANK BATTERY Sampling Condition: Cool & Intact

Project Number: 03C2012067

Project Location: BTA (32.05980,-103.60435)

Sample ID: SS 19 @ .5' (H236219-10)

BTEX 8021B	mg/	'kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2023	ND	1.81	90.3	2.00	0.0557	
Toluene*	<0.050	0.050	11/15/2023	ND	1.94	96.8	2.00	0.265	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	1.95	97.6	2.00	0.694	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	5.91	98.4	6.00	0.565	
Total BTEX	<0.300	0.300	11/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/15/2023	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	11/15/2023	ND	198	98.8	200	0.820	
DRO >C10-C28*	<10.0	10.0	11/15/2023	ND	200	100	200	2.72	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					
Surrogate: 1-Chlorooctane	85.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.9	% 49.1-14	8						

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Analytical Results For:

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

Received: 11/14/2023 Sampling Date: 11/13/2023

Reported: Sampling Type: Soil 11/17/2023

Project Name: MESA B 22-25 TANK BATTERY Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C2012067 Tamara Oldaker

Project Location: BTA (32.05980,-103.60435)

Sample ID: SS 20 @ .5' (H236219-11)

BTEX 8021B	mg/kg		Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2023	ND	1.81	90.3	2.00	0.0557	
Toluene*	<0.050	0.050	11/15/2023	ND	1.94	96.8	2.00	0.265	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	1.95	97.6	2.00	0.694	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	5.91	98.4	6.00	0.565	
Total BTEX	<0.300	0.300	11/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 %	71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/15/2023	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	11/15/2023	ND	198	98.8	200	0.820	
DRO >C10-C28*	<10.0	10.0	11/15/2023	ND	200	100	200	2.72	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					
Surrogate: 1-Chlorooctane	83.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.5	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Received: 11/14/2023 Sampling Date: 11/13/2023

Reported: 11/17/2023 Sampling Type: Soil

Project Name: MESA B 22-25 TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 03C2012067 Sample Received By: Tamara Oldaker

Project Location: BTA (32.05980,-103.60435)

Sample ID: SS 21 @ .5' (H236219-12)

BTEX 8021B	mg/kg		Analyze	Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2023	ND	1.81	90.3	2.00	0.0557	
Toluene*	<0.050	0.050	11/15/2023	ND	1.94	96.8	2.00	0.265	
Ethylbenzene*	<0.050	0.050	11/15/2023	ND	1.95	97.6	2.00	0.694	
Total Xylenes*	<0.150	0.150	11/15/2023	ND	5.91	98.4	6.00	0.565	
Total BTEX	<0.300	0.300	11/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/15/2023	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/15/2023	ND	198	98.8	200	0.820	
DRO >C10-C28*	<10.0	10.0	11/15/2023	ND	200	100	200	2.72	
EXT DRO >C28-C36	<10.0	10.0	11/15/2023	ND					
Surrogate: 1-Chlorooctane	86.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.3	% 49.1-14	8						

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Notes and Definitions

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

recovery.

GC-NC1 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with

interfering compounds.

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

PLEASE NOTE: Lia analyses. All claims Relinguished By Relinquished By: City: **Project Location** Project Manager: Sampler Name: Project Name: Project #: Address: Company Name: Sampler - UPS - Bus - Other: FOR LAB USE ONLY Lab I.D. ice. In no event shall Cardi (Circle One Sample I.D. Corrected Temp. °C Observed Temp. °C Fax #: Project Owner: Time: Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com 40 423 w (G)RAB OR (C)OMP Received By # CONTAINERS GROUNDWATER Cool Intact

A Yes A Yes

No No Sample Condition WASTEWATER MATRIX SOIL OIL SLUDGE State: P.O. #: OTHER Fax #: Phone #: City: Attn: Company Address ACID/BASE PRESERV CHECKED BY: ICE / COOL (Initials) BILL TO OTHER Zip: DATE SAMPLING paid by the client for the Thermometer ID #140 Correction Factor 0°C Turnaround Time All Results are emailed. Please provide Email address: REMARKS Verbal Result: 1105 TIME spletion of the applicable O Yas No No Add'l Phone #: ANALYSIS Cool Intact
| Yes | Yes | No | No Bacteria (only) Sample Condition REQUEST Observed Temp. Corrected Temp. °C ô

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

101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	Company Name: (575) 393
State: Zip: State: Zip: Company: City: Address: Fax #: ACID/BASE: PRESERV. OTHER: OT	(575) 393-2326 FAX (575) 393-2476 (575) 393-2326 FAX (575) 393-2476
SAMPLING SAM	ANALYSIS REQUEST
	Sample I.D. State: M Zip: Sample I.D. Sample I.D. Sample I.D. State: M Zip: Sample I.D. Company: Address: Matrix Preservy Sample I.D. State: M Zip: Matrix Preservy Sample I.D. Date: Acid/Base: Ice / Cool. OTHER: Acid/Base: Ice / Cool. OTHER: Date



January 02, 2024

HADLIE GREEN
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: MESA B 22-25 TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 12/29/23 8:59.

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 www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received: 12/29/2023 Reported: 01/02/2024

Project Name: MESA B 22-25 TANK BATTERY

Project Number: 03C2012067

Project Location: BTA (32.05980,-103.60435)

Sampling Date: 12/28/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: FS01 3 (H236862-01)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/29/2023	ND	2.26	113	2.00	0.401	
Toluene*	<0.050	0.050	12/29/2023	ND	2.21	110	2.00	0.707	
Ethylbenzene*	<0.050	0.050	12/29/2023	ND	2.22	111	2.00	0.486	
Total Xylenes*	<0.150	0.150	12/29/2023	ND	6.49	108	6.00	0.496	
Total BTEX	<0.300	0.300	12/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.9	% 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	<16.0	16.0	12/29/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2023	ND	229	114	200	2.58	
DRO >C10-C28*	392	10.0	12/29/2023	ND	206	103	200	7.37	
EXT DRO >C28-C36	103	10.0	12/29/2023	ND					
Surrogate: 1-Chlorooctane	99.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	134	% 49.1-14	8						

A I J D. ... 711

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12/28/2023

Analytical Results For:

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

Received: 12/29/2023 Sampling Date:

Reported: 01/02/2024 Sampling Type: Soil

Project Name: MESA B 22-25 TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 03C2012067 Sample Received By: Dionica Hinojos

Project Location: BTA (32.05980,-103.60435)

Sample ID: FS02 3 (H236862-02)

EX 8021B	mg	mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/29/2023	ND	2.26	113	2.00	0.401	
Toluene*	<0.050	0.050	12/29/2023	ND	2.21	110	2.00	0.707	
Ethylbenzene*	<0.050	0.050	12/29/2023	ND	2.22	111	2.00	0.486	
Total Xylenes*	<0.150	0.150	12/29/2023	ND	6.49	108	6.00	0.496	
Total BTEX	<0.300	0.300	12/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.8	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/29/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2023	ND	229	114	200	2.58	
DRO >C10-C28*	397	10.0	12/29/2023	ND	206	103	200	7.37	
EXT DRO >C28-C36	81.7	10.0	12/29/2023	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112	% 49.1-14	18						

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Analytical Results For:

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

 Received:
 12/29/2023
 Samp

 Reported:
 01/02/2024
 Samp

Reported: 01/02/2024 Sampling Type: Project Name: MESA B 22-25 TANK BATTERY Sampling Condition

Project Number: 03C2012067

Project Location: BTA (32.05980,-103.60435)

Sampling Date: 12/28/2023
Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: FS03 3 (H236862-03)

EX 8021B	mg/kg		Analyze	Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/29/2023	ND	2.26	113	2.00	0.401	
Toluene*	<0.050	0.050	12/29/2023	ND	2.21	110	2.00	0.707	
Ethylbenzene*	<0.050	0.050	12/29/2023	ND	2.22	111	2.00	0.486	
Total Xylenes*	<0.150	0.150	12/29/2023	ND	6.49	108	6.00	0.496	
Total BTEX	<0.300	0.300	12/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/29/2023	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2023	ND	229	114	200	2.58	
DRO >C10-C28*	521	10.0	12/29/2023	ND	206	103	200	7.37	
EXT DRO >C28-C36	117	10.0	12/29/2023	ND					
Surrogate: 1-Chlorooctane	113	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	139	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

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

Received: 12/29/2023 Reported: 01/02/2024

Project Name: MESA B 22-25 TANK BATTERY

Project Number: 03C2012067

Project Location: BTA (32.05980,-103.60435) Sampling Date: 12/28/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Dionica Hinojos

Sample ID: FS04 3 (H236862-04)

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	12/29/2023	ND	2.26	113	2.00	0.401	
Toluene*	<0.050	0.050	12/29/2023	ND	2.21	110	2.00	0.707	
Ethylbenzene*	<0.050	0.050	12/29/2023	ND	2.22	111	2.00	0.486	
Total Xylenes*	<0.150	0.150	12/29/2023	ND	6.49	108	6.00	0.496	
Total BTEX	<0.300	0.300	12/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.0	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/29/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2023	ND	229	114	200	2.58	
DRO >C10-C28*	<10.0	10.0	12/29/2023	ND	206	103	200	7.37	
EXT DRO >C28-C36	<10.0	10.0	12/29/2023	ND					
Surrogate: 1-Chlorooctane	109 5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	123 9	% 49.1-14	8						

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Analytical Results For:

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

Received: 12/29/2023 Sampling Date: 12/28/2023 Reported: 01/02/2024 Sampling Type: Soil

Project Name: MESA B 22-25 TANK BATTERY Sampling Condition: Cool & Intact

Project Number: 03C2012067 Sample Received By: Dionica Hinojos Project Location: BTA (32.05980,-103.60435)

Sample ID: FS05 3 (H236862-05)

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	12/29/2023	ND	2.26	113	2.00	0.401	
Toluene*	<0.050	0.050	12/29/2023	ND	2.21	110	2.00	0.707	
Ethylbenzene*	<0.050	0.050	12/29/2023	ND	2.22	111	2.00	0.486	
Total Xylenes*	<0.150	0.150	12/29/2023	ND	6.49	108	6.00	0.496	
Total BTEX	<0.300	0.300	12/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.3	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/29/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2023	ND	229	114	200	2.58	
DRO >C10-C28*	45.6	10.0	12/29/2023	ND	206	103	200	7.37	
EXT DRO >C28-C36	<10.0	10.0	12/29/2023	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	117 9	% 49.1-14	8						

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Analytical Results For:

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

Received: 12/29/2023 Sampling Date: 12/28/2023

Reported: 01/02/2024 Sampling Type: Soil

Project Name: MESA B 22-25 TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 03C2012067 Sample Received By: Dionica Hinojos

Applyzod By: 14

Project Location: BTA (32.05980,-103.60435)

ma/ka

Sample ID: SW01 0-3 (H236862-06)

RTFY 8021R

B1EX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/29/2023	ND	2.25	113	2.00	1.15	
Toluene*	<0.050	0.050	12/29/2023	ND	2.20	110	2.00	0.857	
Ethylbenzene*	<0.050	0.050	12/29/2023	ND	2.19	109	2.00	1.44	
Total Xylenes*	<0.150	0.150	12/29/2023	ND	6.37	106	6.00	1.51	
Total BTEX	<0.300	0.300	12/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.4	% 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	48.0	16.0	12/29/2023	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2023	ND	220	110	200	2.33	
DRO >C10-C28*	<10.0	10.0	12/29/2023	ND	196	98.2	200	2.21	
EXT DRO >C28-C36	<10.0	10.0	12/29/2023	ND					
Surrogate: 1-Chlorooctane	99.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110	% 49.1-14	8						

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Analytical Results For:

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

Received: 12/29/2023 Sampling Date: 12/28/2023

Reported: 01/02/2024 Sampling Type: Soil

Project Name: MESA B 22-25 TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 03C2012067 Sample Received By: Dionica Hinojos

Applyzod By: 14

Project Location: BTA (32.05980,-103.60435)

ma/ka

Sample ID: SW02 0-3 (H236862-07)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/29/2023	ND	2.25	113	2.00	1.15	
Toluene*	<0.050	0.050	12/29/2023	ND	2.20	110	2.00	0.857	
Ethylbenzene*	<0.050	0.050	12/29/2023	ND	2.19	109	2.00	1.44	
Total Xylenes*	<0.150	0.150	12/29/2023	ND	6.37	106	6.00	1.51	
Total BTEX	<0.300	0.300	12/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.3	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/29/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2023	ND	220	110	200	2.33	
DRO >C10-C28*	55.2	10.0	12/29/2023	ND	196	98.2	200	2.21	
EXT DRO >C28-C36	<10.0	10.0	12/29/2023	ND					
Surrogate: 1-Chlorooctane	105	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	125	% 49.1-14	8						

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Analytical Results For:

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

Received: 12/29/2023 Sampling Date: 12/28/2023

Reported: 01/02/2024 Sampling Type: Soil

Project Name: MESA B 22-25 TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 03C2012067 Sample Received By: Dionica Hinojos

Project Location: BTA (32.05980,-103.60435)

Sample ID: SW03 0-3 (H236862-08)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/29/2023	ND	2.25	113	2.00	1.15	
Toluene*	<0.050	0.050	12/29/2023	ND	2.20	110	2.00	0.857	
Ethylbenzene*	<0.050	0.050	12/29/2023	ND	2.19	109	2.00	1.44	GC-NC
Total Xylenes*	<0.150	0.150	12/29/2023	ND	6.37	106	6.00	1.51	GC-NC
Total BTEX	<0.300	0.300	12/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	132	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/29/2023	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	28.3	10.0	12/29/2023	ND	220	110	200	2.33	
DRO >C10-C28*	1880	10.0	12/29/2023	ND	196	98.2	200	2.21	
EXT DRO >C28-C36	487	10.0	12/29/2023	ND					
Surrogate: 1-Chlorooctane	99.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.5	% 49.1-14	8						

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Notes and Definitions

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

recovery.

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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

CARDINA Laboratorie 101 East Marland, Hobbs, NM 88

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

□ Yes □ Yes □ No □ No	Thermometer ID #113 Correction Factor -0.5°C	TOPA -	Attive Dives No No	Corrected Temp. *C	Bus - Other:	Sampler - UPS -
Standard Bacteria (only) Sample Condition Cool Intact Observed Temp. °C	Turnaround Time:	CHECKED BY: (Initials)	Sample Co Cool Inta	Observed Temp. °C 3, 900	Sircle One)	Delivered By: (Circle One)
#=nAPP2209078912 temp blank 01100	5			Time:	C	
HANDLE Have provide Email address: HANDLE Have provide Email address: HANDLE Have provide Email address: HANDLE HAVE PROVIDE PROVIDE TO TWO STORES PROVIDED TO T	REMARKS:		Received By:	Time: 59	N.	Relinguished By:
	Verbal Result: ☐ Ye		Received By:	Date:	3у:	Relinquished By:
	r completion of the applicable lent, its subsidiaries, asons or otherwise.	ived by Cardinal within 30 days after use, or loss of profits incurred by clied upon any of the above stated rea	analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by claim, its substitatives, affiliates or successors attisting out of or related to the performance of services hereunder by Cardinal, regardless or Whether such claim is based upon any of the above stated reasons or otherwise.	her cause whatsoever shall be de insequental damages, including wince of services hereunder by Car	ding those for negligence and any ot Cardinal be liable for incidental or co sing out of or related to the performa	analyses. All claims inclus service. In no event shall a affliates or successors aris
	by the client for the	t, shall be limited to the amount paid	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the	client's exclusive remedy for any	and Damages. Cardinal's liability and	PLEASE NOTE: Liability :
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	N .: C			0-3	SW02	7
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+	= 8 X	x 12/28/23 11:	X	تي	PSOI	
TPH	CI- BTEX	ACID/BASE: ICE / COOL OTHER :	(G)RAB OR (C)OM # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:	Depth (feet)	Sample I.D.	HBISSON, Lab I.D.
	SAMPLING	PRESERV. SAME	P. MATRIX	Č		FOR LAB USE ONLY
		Fax #:		wolvione.	b (Sampler Name: SONCO
		Phone #:	35	0, - 103.604	D8480 -72 :u	Project Location:
	70	State: TX Zip: 79	Battery	22-25 tank	The Sa B	Project Name:
		city: Midland	Ci	-067 Project Owner:	2012	Project #: ○ 3 C
	105 ST	Address: 104 S Pec	Ac	-8895Fax#:	4	Phone #: 43
	Beaild	Lames .	2220	State: TX NM Zip: 6	Stead	city: Carls
		Company: BTAO	HWY CO	ral Parks	12 Notice	Address: 312
		P.O. #:	P	らてゆめこ	Hadle	Project Manager:
ANALYSIS REQUEST		BILL TO			Company Name: Ensolum, LLC	Company Nam
				(0.0) 000 =	(0.0) 000 2020	



January 30, 2024

HADLIE GREEN
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: MESA B 22-25 TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 01/26/24 14:02.

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 www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received: 01/26/2024 Sampling Date: 01/16/2024
Reported: 01/30/2024 Sampling Type: Soil

Project Name: MESA B 22-25 TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 03C2012067 (MESA B EAST) Sample Received By: Shalyn Rodriguez

Project Location: BTA (32.05980,-103.60435)

Sample ID: FS 06 3' (H240369-01)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					HDSP-1
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/29/2024	ND	2.06	103	2.00	5.88	
Toluene*	<0.050	0.050	01/29/2024	ND	2.05	103	2.00	5.68	
Ethylbenzene*	<0.050	0.050	01/29/2024	ND	2.05	102	2.00	5.68	
Total Xylenes*	<0.150	0.150	01/29/2024	ND	5.99	99.9	6.00	5.60	
Total BTEX	<0.300	0.300	01/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.8	% 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	96.0	16.0	01/29/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					HDSP-1
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/29/2024	ND	226	113	200	3.90	
DRO >C10-C28*	<10.0	10.0	01/29/2024	ND	220	110	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	01/29/2024	ND					
Surrogate: 1-Chlorooctane	83.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.0	% 49.1-14	8						

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Analytical Results For:

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

Received: 01/26/2024 Sampling Date: 01/16/2024

Reported: 01/30/2024 Sampling Type: Soil

Project Name: MESA B 22-25 TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 03C2012067 (MESA B EAST) Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: BTA (32.05980,-103.60435)

mg/kg

Sample ID: FS 07 3' (H240369-02)

BTEX 8021B

	9/	9	7 7 = 0	w = y : 5 : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/29/2024	ND	2.06	103	2.00	5.88	
Toluene*	<0.050	0.050	01/29/2024	ND	2.05	103	2.00	5.68	
Ethylbenzene*	<0.050	0.050	01/29/2024	ND	2.05	102	2.00	5.68	
Total Xylenes*	<0.150	0.150	01/29/2024	ND	5.99	99.9	6.00	5.60	
Total BTEX	<0.300	0.300	01/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.3	% 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	128	16.0	01/29/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					HDSP-1
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/29/2024	ND	226	113	200	3.90	
DRO >C10-C28*	<10.0	10.0	01/29/2024	ND	220	110	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	01/29/2024	ND					
Surrogate: 1-Chlorooctane	107	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	119	% 49.1-14	8						

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Analytical Results For:

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

Received: 01/26/2024 Sampling Date: 01/16/2024

Reported: 01/30/2024 Sampling Type: Soil

Project Name: MESA B 22-25 TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 03C2012067 (MESA B EAST) Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: BTA (32.05980,-103.60435)

mg/kg

Sample ID: FS 08 3' (H240369-03)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/29/2024	ND	2.06	103	2.00	5.88	
Toluene*	< 0.050	0.050	01/29/2024	ND	2.05	103	2.00	5.68	
Ethylbenzene*	< 0.050	0.050	01/29/2024	ND	2.05	102	2.00	5.68	
Total Xylenes*	<0.150	0.150	01/29/2024	ND	5.99	99.9	6.00	5.60	
Total BTEX	<0.300	0.300	01/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.7	% 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	128	16.0	01/29/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					HDSP-1
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/29/2024	ND	226	113	200	3.90	
DRO >C10-C28*	<10.0	10.0	01/29/2024	ND	220	110	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	01/29/2024	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114 9	% 49.1-14	8						

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Analytical Results For:

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

Received: 01/26/2024 Sampling Date: 01/16/2024

Reported: 01/30/2024 Sampling Type: Soil

Project Name: MESA B 22-25 TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 03C2012067 (MESA B EAST) Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: BTA (32.05980,-103.60435)

mg/kg

Sample ID: FS 09 3' (H240369-04)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/29/2024	ND	2.06	103	2.00	5.88	
Toluene*	<0.050	0.050	01/29/2024	ND	2.05	103	2.00	5.68	
Ethylbenzene*	<0.050	0.050	01/29/2024	ND	2.05	102	2.00	5.68	
Total Xylenes*	<0.150	0.150	01/29/2024	ND	5.99	99.9	6.00	5.60	
Total BTEX	<0.300	0.300	01/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.2	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	01/29/2024	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					HDSP-1
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/29/2024	ND	226	113	200	3.90	
DRO >C10-C28*	<10.0	10.0	01/29/2024	ND	220	110	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	01/29/2024	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114	% 49.1-14	8						

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Analytical Results For:

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

Received: 01/26/2024 Sampling Date: 01/16/2024

Reported: 01/30/2024 Sampling Type: Soil

Project Name: MESA B 22-25 TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 03C2012067 (MESA B EAST) Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: BTA (32.05980,-103.60435)

mg/kg

Sample ID: FS 10 3' (H240369-05)

BTEX 8021B

	9/	9	7 7 = 0	w = y : 5 : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/29/2024	ND	2.06	103	2.00	5.88	
Toluene*	<0.050	0.050	01/29/2024	ND	2.05	103	2.00	5.68	
Ethylbenzene*	<0.050	0.050	01/29/2024	ND	2.05	102	2.00	5.68	
Total Xylenes*	<0.150	0.150	01/29/2024	ND	5.99	99.9	6.00	5.60	
Total BTEX	<0.300	0.300	01/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.9	% 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	128	16.0	01/29/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					HDSP-1
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/29/2024	ND	226	113	200	3.90	
DRO >C10-C28*	<10.0	10.0	01/29/2024	ND	220	110	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	01/29/2024	ND					
Surrogate: 1-Chlorooctane	98.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116	% 49.1-14	8						

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Analytical Results For:

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

Received: 01/26/2024 Sampling Date: 01/16/2024

Reported: 01/30/2024 Sampling Type: Soil

Project Name: MESA B 22-25 TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 03C2012067 (MESA B EAST) Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: BTA (32.05980,-103.60435)

mg/kg

Sample ID: FS 11 1' (H240369-06)

BTEX 8021B

	9/	9	7 7 = 0	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/29/2024	ND	2.06	103	2.00	5.88	
Toluene*	<0.050	0.050	01/29/2024	ND	2.05	103	2.00	5.68	
Ethylbenzene*	<0.050	0.050	01/29/2024	ND	2.05	102	2.00	5.68	
Total Xylenes*	<0.150	0.150	01/29/2024	ND	5.99	99.9	6.00	5.60	
Total BTEX	<0.300	0.300	01/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5	% 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	112	16.0	01/29/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					HDSP-1
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/29/2024	ND	226	113	200	3.90	
DRO >C10-C28*	<10.0	10.0	01/29/2024	ND	220	110	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	01/29/2024	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110	% 49.1-14	8						

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Analytical Results For:

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

Received: 01/26/2024 Sampling Date: 01/16/2024

Reported: 01/30/2024 Sampling Type: Soil

Project Name: MESA B 22-25 TANK BATTERY Sampling Condition: Cool & Intact 03C2012067 (MESA B EAST) Project Number: Sample Received By: Shalyn Rodriguez

Project Location: BTA (32.05980,-103.60435)

Sample ID: FS 12 1' (H240369-07)

BTEX 8021B	mg/kg		Analyzed By: JH						HDSP-1	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/29/2024	ND	2.06	103	2.00	5.88		
Toluene*	< 0.050	0.050	01/29/2024	ND	2.05	103	2.00	5.68		
Ethylbenzene*	<0.050	0.050	01/29/2024	ND	2.05	102	2.00	5.68		
Total Xylenes*	<0.150	0.150	01/29/2024	ND	5.99	99.9	6.00	5.60		
Total BTEX	<0.300	0.300	01/29/2024	ND						
Surrogate: 4-Bromofluorobenzene (PID	97.9	% 71.5-13	4							
Chloride, SM4500Cl-B	mg/kg		Analyzed By: CT							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	01/29/2024	ND	432	108	400	0.00		
TPH 8015M	mg/	kg	Analyzed By: MS						HDSP-1	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	13.0	10.0	01/29/2024	ND	226	113	200	3.90		
DRO >C10-C28*	<10.0	10.0	01/29/2024	ND	220	110	200	4.06		
EXT DRO >C28-C36	<10.0	10.0	01/29/2024	ND						
Surrogate: 1-Chlorooctane	98.2	% 48.2-13	4							
Surrogate: 1-Chlorooctadecane	116 %	% 49.1-14	8							

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Analytical Results For:

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

Received: 01/26/2024 Sampling Date: 01/16/2024

Reported: 01/30/2024 Sampling Type: Soil

Project Name: MESA B 22-25 TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 03C2012067 (MESA B EAST) Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: BTA (32.05980,-103.60435)

mg/kg

Sample ID: FS 13 1' (H240369-08)

BTEX 8021B

	9/	9	7 7 = 0	w = y : 5 : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/29/2024	ND	2.06	103	2.00	5.88	
Toluene*	<0.050	0.050	01/29/2024	ND	2.05	103	2.00	5.68	
Ethylbenzene*	<0.050	0.050	01/29/2024	ND	2.05	102	2.00	5.68	
Total Xylenes*	<0.150	0.150	01/29/2024	ND	5.99	99.9	6.00	5.60	
Total BTEX	<0.300	0.300	01/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.2	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	01/29/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						HDSP-1
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/29/2024	ND	226	113	200	3.90	
DRO >C10-C28*	<10.0	10.0	01/29/2024	ND	220	110	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	01/29/2024	ND					
Surrogate: 1-Chlorooctane	79.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.6	% 49.1-14	8						

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Analytical Results For:

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

Received: 01/26/2024 Sampling Date: 01/16/2024

Reported: 01/30/2024 Sampling Type: Soil

Project Name: MESA B 22-25 TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 03C2012067 (MESA B EAST) Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: BTA (32.05980,-103.60435)

mg/kg

Sample ID: FS 14 1' (H240369-09)

BTEX 8021B

DILX GOZID	mg/	, kg	Alluly20	a by. 511					11001 1
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/29/2024	ND	2.06	103	2.00	5.88	
Toluene*	<0.050	0.050	01/29/2024	ND	2.05	103	2.00	5.68	
Ethylbenzene*	<0.050	0.050	01/29/2024	ND	2.05	102	2.00	5.68	
Total Xylenes*	<0.150	0.150	01/29/2024	ND	5.99	99.9	6.00	5.60	
Total BTEX	<0.300	0.300	01/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.7	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/29/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						HDSP-1
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/29/2024	ND	226	113	200	3.90	
DRO >C10-C28*	<10.0	10.0	01/29/2024	ND	220	110	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	01/29/2024	ND					
Surrogate: 1-Chlorooctane	80.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.5	% 49.1-14	8						

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Analytical Results For:

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

Received: 01/26/2024 Sampling Date: 01/16/2024

Reported: 01/30/2024 Sampling Type: Soil

Project Name: MESA B 22-25 TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 03C2012067 (MESA B EAST) Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: BTA (32.05980,-103.60435)

mg/kg

Sample ID: FS 15 1' (H240369-10)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/29/2024	ND	2.06	103	2.00	5.88	
Toluene*	<0.050	0.050	01/29/2024	ND	2.05	103	2.00	5.68	
Ethylbenzene*	<0.050	0.050	01/29/2024	ND	2.05	102	2.00	5.68	
Total Xylenes*	<0.150	0.150	01/29/2024	ND	5.99	99.9	6.00	5.60	
Total BTEX	<0.300	0.300	01/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.7	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/29/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						HDSP-1
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/29/2024	ND	226	113	200	3.90	
DRO >C10-C28*	<10.0	10.0	01/29/2024	ND	220	110	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	01/29/2024	ND					
Surrogate: 1-Chlorooctane	82.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.7	% 49.1-14	8						

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Celey D. Keens



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Analytical Results For:

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

Received: 01/26/2024 Sampling Date: 01/16/2024

Reported: 01/30/2024 Sampling Type: Soil

Project Name: MESA B 22-25 TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 03C2012067 (MESA B EAST) Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: BTA (32.05980,-103.60435)

mg/kg

Sample ID: FS 16 1' (H240369-11)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/29/2024	ND	2.06	103	2.00	5.88	
Toluene*	<0.050	0.050	01/29/2024	ND	2.05	103	2.00	5.68	
Ethylbenzene*	<0.050	0.050	01/29/2024	ND	2.05	102	2.00	5.68	
Total Xylenes*	<0.150	0.150	01/29/2024	ND	5.99	99.9	6.00	5.60	
Total BTEX	<0.300	0.300	01/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/29/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						HDSP-1
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/29/2024	ND	226	113	200	3.90	
DRO >C10-C28*	<10.0	10.0	01/29/2024	ND	220	110	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	01/29/2024	ND					
Surrogate: 1-Chlorooctane	72.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.9	% 49.1-14	8						

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Celey D. Keene



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Analytical Results For:

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

Received: 01/26/2024 Sampling Date: 01/16/2024

Reported: 01/30/2024 Sampling Type: Soil

Project Name: MESA B 22-25 TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 03C2012067 (MESA B EAST) Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: BTA (32.05980,-103.60435)

mg/kg

Sample ID: FS 17 1' (H240369-12)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/29/2024	ND	2.06	103	2.00	5.88	
Toluene*	<0.050	0.050	01/29/2024	ND	2.05	103	2.00	5.68	
Ethylbenzene*	<0.050	0.050	01/29/2024	ND	2.05	102	2.00	5.68	
Total Xylenes*	<0.150	0.150	01/29/2024	ND	5.99	99.9	6.00	5.60	
Total BTEX	<0.300	0.300	01/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.7	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/29/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyzed By: MS						HDSP-1
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/29/2024	ND	226	113	200	3.90	
DRO >C10-C28*	<10.0	10.0	01/29/2024	ND	220	110	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	01/29/2024	ND					
Surrogate: 1-Chlorooctane	87.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.4	% 49.1-14	8						

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Celey D. Kreine



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Analytical Results For:

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

Received: 01/26/2024 Sampling Date: 01/16/2024

Reported: 01/30/2024 Sampling Type: Soil

Project Name: MESA B 22-25 TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 03C2012067 (MESA B EAST) Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: BTA (32.05980,-103.60435)

mg/kg

Sample ID: FS 18 1' (H240369-13)

BTEX 8021B

		<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/29/2024	ND	2.06	103	2.00	5.88		
Toluene*	<0.050	0.050	01/29/2024	ND	2.05	103	2.00	5.68		
Ethylbenzene*	<0.050	0.050	01/29/2024	ND	2.05	102	2.00	5.68		
Total Xylenes*	<0.150	0.150	01/29/2024	ND	5.99	99.9	6.00	5.60		
Total BTEX	<0.300	0.300	01/29/2024	ND						
Surrogate: 4-Bromofluorobenzene (PID	97.9	% 71.5-13	4							
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/29/2024	ND	432	108	400	3.64		
TPH 8015M	mg,	/kg	Analyzed By: MS						HDSP-1	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/29/2024	ND	226	113	200	3.90		
DRO >C10-C28*	<10.0	10.0	01/29/2024	ND	220	110	200	4.06		
EXT DRO >C28-C36	<10.0	10.0	01/29/2024	ND						
Surrogate: 1-Chlorooctane	89.3	% 48.2-13	4							
Surrogate: 1-Chlorooctadecane	98.3	% 49.1-14	8							

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Analytical Results For:

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

Received: 01/26/2024 Sampling Date: 01/16/2024

Reported: 01/30/2024 Sampling Type: Soil

Project Name: MESA B 22-25 TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 03C2012067 (MESA B EAST) Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: BTA (32.05980,-103.60435)

mg/kg

Sample ID: FS 19 1' (H240369-14)

BTEX 8021B

DILX GOZID	mg/	Ng .	Allulyzo	a by. 511					11001 1
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/29/2024	ND	2.06	103	2.00	5.88	
Toluene*	<0.050	0.050	01/29/2024	ND	2.05	103	2.00	5.68	
Ethylbenzene*	<0.050	0.050	01/29/2024	ND	2.05	102	2.00	5.68	
Total Xylenes*	<0.150	0.150	01/29/2024	ND	5.99	99.9	6.00	5.60	
Total BTEX	<0.300	0.300	01/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.1	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/29/2024	ND	432	108	400	3.64	
TPH 8015M	mg/	/kg	Analyze	ed By: MS					HDSP-1
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/29/2024	ND	226	113	200	3.90	
DRO >C10-C28*	<10.0	10.0	01/29/2024	ND	220	110	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	01/29/2024	ND					
Surrogate: 1-Chlorooctane	89.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.0	% 49.1-14	8						

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Analytical Results For:

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

Received: 01/26/2024 Sampling Date: 01/16/2024

Reported: 01/30/2024 Sampling Type: Soil

Project Name: MESA B 22-25 TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 03C2012067 (MESA B EAST) Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: BTA (32.05980,-103.60435)

mg/kg

Sample ID: FS 20 1' (H240369-15)

BTEX 8021B

DILX GOZID	mg/	ng .	Alluly20	u Dy. 311					11001 1
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/29/2024	ND	2.06	103	2.00	5.88	
Toluene*	<0.050	0.050	01/29/2024	ND	2.05	103	2.00	5.68	
Ethylbenzene*	<0.050	0.050	01/29/2024	ND	2.05	102	2.00	5.68	
Total Xylenes*	<0.150	0.150	01/29/2024	ND	5.99	99.9	6.00	5.60	
Total BTEX	<0.300	0.300	01/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.3	% 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	01/29/2024	ND	432	108	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					HDSP-1
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/29/2024	ND	226	113	200	3.90	
DRO >C10-C28*	<10.0	10.0	01/29/2024	ND	220	110	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	01/29/2024	ND					
Surrogate: 1-Chlorooctane	82.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.0	% 49.1-14	8						

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Analytical Results For:

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

Received: 01/26/2024 Sampling Date: 01/16/2024

Reported: 01/30/2024 Sampling Type: Soil

Project Name: MESA B 22-25 TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 03C2012067 (MESA B EAST) Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: BTA (32.05980,-103.60435)

mg/kg

Sample ID: SW 04 0-3' (H240369-16)

BTEX 8021B

				-					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/29/2024	ND	2.06	103	2.00	5.88	
Toluene*	< 0.050	0.050	01/29/2024	ND	2.05	103	2.00	5.68	
Ethylbenzene*	< 0.050	0.050	01/29/2024	ND	2.05	102	2.00	5.68	
Total Xylenes*	<0.150	0.150	01/29/2024	ND	5.99	99.9	6.00	5.60	
Total BTEX	<0.300	0.300	01/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	01/29/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					HDSP-1
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/29/2024	ND	226	113	200	3.90	
DRO >C10-C28*	<10.0	10.0	01/29/2024	ND	220	110	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	01/29/2024	ND					
Surrogate: 1-Chlorooctane	94.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

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Analytical Results For:

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

Received: 01/26/2024 Sampling Date: 01/16/2024

Reported: 01/30/2024 Sampling Type: Soil

Project Name: MESA B 22-25 TANK BATTERY Sampling Condition: Cool & Intact Project Number: 03C2012067 (MESA B EAST) Sample Received By: Shalyn Rodriguez

Project Location: BTA (32.05980,-103.60435)

Sample ID: SW 05 0-3' (H240369-17)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					HDSP-1
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/29/2024	ND	2.06	103	2.00	5.88	
Toluene*	<0.050	0.050	01/29/2024	ND	2.05	103	2.00	5.68	
Ethylbenzene*	<0.050	0.050	01/29/2024	ND	2.05	102	2.00	5.68	
Total Xylenes*	<0.150	0.150	01/29/2024	ND	5.99	99.9	6.00	5.60	
Total BTEX	<0.300	0.300	01/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.6	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	01/29/2024	ND	432	108	400	3.64	
TPH 8015M	mg/	'kg	Analyze	d By: MS					HDSP-1
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/29/2024	ND	226	113	200	3.90	
DRO >C10-C28*	<10.0	10.0	01/29/2024	ND	220	110	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	01/29/2024	ND					
Surrogate: 1-Chlorooctane	93.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104 9	% 49.1-14	8						

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Analytical Results For:

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

Received: 01/26/2024 Sampling Date: 01/16/2024

Reported: 01/30/2024 Sampling Type: Soil

Project Name: MESA B 22-25 TANK BATTERY Sampling Condition: Cool & Intact Project Number: Sample Received By: Shalyn Rodriguez 03C2012067 (MESA B EAST)

Analyzed By: JH

Project Location: BTA (32.05980,-103.60435)

mg/kg

Sample ID: SW 06 0-3' (H240369-18)

BTEX 8021B

				<u> </u>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/29/2024	ND	2.06	103	2.00	5.88	
Toluene*	<0.050	0.050	01/29/2024	ND	2.05	103	2.00	5.68	
Ethylbenzene*	<0.050	0.050	01/29/2024	ND	2.05	102	2.00	5.68	
Total Xylenes*	<0.150	0.150	01/29/2024	ND	5.99	99.9	6.00	5.60	
Total BTEX	<0.300	0.300	01/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.6	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	01/29/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					HDSP-1
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/29/2024	ND	226	113	200	3.90	
DRO >C10-C28*	<10.0	10.0	01/29/2024	ND	220	110	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	01/29/2024	ND					
Surrogate: 1-Chlorooctane	95.9	% 48.2-13	4						
			_						

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celeg D. Keine



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

Analytical Results For:

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

Received: 01/26/2024 Sampling Date: 01/16/2024

Reported: 01/30/2024 Sampling Type: Soil

Project Name: MESA B 22-25 TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 03C2012067 (MESA B EAST) Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: BTA (32.05980,-103.60435)

mg/kg

Sample ID: SW 07 0-3' (H240369-19)

BTEX 8021B

	9/	9	7 7 = 0	w = y : 5 : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/29/2024	ND	2.06	103	2.00	5.88	
Toluene*	<0.050	0.050	01/29/2024	ND	2.05	103	2.00	5.68	
Ethylbenzene*	<0.050	0.050	01/29/2024	ND	2.05	102	2.00	5.68	
Total Xylenes*	<0.150	0.150	01/29/2024	ND	5.99	99.9	6.00	5.60	
Total BTEX	<0.300	0.300	01/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.3	% 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	01/29/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					HDSP-1
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/29/2024	ND	226	113	200	3.90	
DRO >C10-C28*	<10.0	10.0	01/29/2024	ND	220	110	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	01/29/2024	ND					
Surrogate: 1-Chlorooctane	85.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.8	% 49.1-14	8						

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Celey D. Keens



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

Analytical Results For:

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

Received: 01/26/2024 Sampling Date: 01/16/2024

Reported: 01/30/2024 Sampling Type: Soil

Project Name: MESA B 22-25 TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 03C2012067 (MESA B EAST) Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: BTA (32.05980,-103.60435)

mg/kg

Sample ID: SW 08 0-1' (H240369-20)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/29/2024	ND	2.06	103	2.00	5.88	
Toluene*	<0.050	0.050	01/29/2024	ND	2.05	103	2.00	5.68	
Ethylbenzene*	<0.050	0.050	01/29/2024	ND	2.05	102	2.00	5.68	
Total Xylenes*	<0.150	0.150	01/29/2024	ND	5.99	99.9	6.00	5.60	
Total BTEX	<0.300	0.300	01/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.7	% 71.5-13-	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/29/2024	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					HDSP-1
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/29/2024	ND	226	113	200	3.90	
DRO >C10-C28*	<10.0	10.0	01/29/2024	ND	220	110	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	01/29/2024	ND					
Surrogate: 1-Chlorooctane	89.2	% 48.2-13-	4						
Surrogate: 1-Chlorooctadecane	102 9	% 49.1 - 14	8						

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Celey D. Keine



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

Analytical Results For:

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

Received: 01/26/2024 Sampling Date: 01/16/2024

Reported: 01/30/2024 Sampling Type: Soil

Project Name: MESA B 22-25 TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 03C2012067 (MESA B EAST) Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: BTA (32.05980,-103.60435)

mg/kg

Sample ID: SW 09 0-1' (H240369-21)

BTEX 8021B

DILX GOZID	mg/	Ng .	Alluly20	u Dy. 311					11001 1
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/29/2024	ND	1.96	97.8	2.00	5.71	
Toluene*	<0.050	0.050	01/29/2024	ND	1.97	98.4	2.00	5.02	
Ethylbenzene*	<0.050	0.050	01/29/2024	ND	1.97	98.5	2.00	5.39	
Total Xylenes*	<0.150	0.150	01/29/2024	ND	5.83	97.2	6.00	5.47	
Total BTEX	<0.300	0.300	01/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/29/2024	ND	432	108	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					HDSP-1
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/29/2024	ND	201	100	200	3.21	
DRO >C10-C28*	<10.0	10.0	01/29/2024	ND	187	93.3	200	4.27	
EXT DRO >C28-C36	<10.0	10.0	01/29/2024	ND					
Surrogate: 1-Chlorooctane	87.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.0	% 49.1-14	8						

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

Analytical Results For:

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

Received: 01/26/2024 Sampling Date: 01/16/2024

Reported: 01/30/2024 Sampling Type: Soil

Project Name: MESA B 22-25 TANK BATTERY Sampling Condition: Cool & Intact Project Number: 03C2012067 (MESA B EAST) Sample Received By: Shalyn Rodriguez

Project Location: BTA (32.05980,-103.60435)

Sample ID: SW 10 0-1' (H240369-22)

BTEX 8021B	mg/	kg	Analyze	d By: JH					HDSP-1
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/29/2024	ND	1.96	97.8	2.00	5.71	
Toluene*	<0.050	0.050	01/29/2024	ND	1.97	98.4	2.00	5.02	
Ethylbenzene*	<0.050	0.050	01/29/2024	ND	1.97	98.5	2.00	5.39	
Total Xylenes*	<0.150	0.150	01/29/2024	ND	5.83	97.2	6.00	5.47	
Total BTEX	<0.300	0.300	01/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 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	01/29/2024	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					HDSP-1
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/29/2024	ND	201	100	200	3.21	
DRO >C10-C28*	<10.0	10.0	01/29/2024	ND	187	93.3	200	4.27	
EXT DRO >C28-C36	<10.0	10.0	01/29/2024	ND					
Surrogate: 1-Chlorooctane	99.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108 9	% 49.1-14	8						

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Notes and Definitions

HDSP-1 Sample container had headspace. Results may be biased low.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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Celeg D. Freene



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

Company Name:							
Project Manage	Project Manager: Hadlie Green			BILL TO	0		
Address: 3122	Address: 3122 National Parks Hwy	łwv		P.O. #:		AND THE COEST	
city: Carlsbad	id	State: NM	4	Company: BTA Oil			
Phone #: 432	432 557-8895	Fax #:	rip: 0022U	Attn: Kelton Beaird	d		
Project #: 03C2012067	012067	Project Owner:	r: BTA	Ch. Midland	3008 01		_
Project Name: M	Project Name: Mesa B 22-25 Tank Battery (Mesa	k Battery (Mes	D R Facti	IIdian			
Project Location:		mood (moo	a D East)	State: TX Zip: 79701	9701		
Sampler Name: Connor Whitman	connor Whitman			Phone #:			_
FOR LAB USE ONLY	A distance of the second			Fax 非:			
				SERV.	SAMPLING		
Lab I.D. <i>H31</i> 6369	Sample I.D.	Sample Depth (feet)	B)RAB OR (C)O CONTAINERS ROUNDWATER ASTEWATER DIL L UDGE	HER: ID/BASE: E/COOL HER:	STEX PH	hloride	
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e	1052	w ·	- 1-	1/10/24	4 948 1		
U	8083				986		
4	F507	١٥٠			935		
5	FSIO	w			1000		
6	FSII				500		
	ES12				0101		
-	FS13				015		
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10	F315		_		loho		
PLEASE NOTE: Liability and Dam analyses, All claims including thos	nages. Cardina's fiability and client se for negligence and any other con-	offs exclusive remady for any claim	aim srising whether based in contract o	-	1100		
Service. In no event shall Cardinal affiliates or auccessors arising out. Relinquished By:	be liable for incidental or consequence of or related to the performance of	acrital damages, including with enrital damages, including with enrices hereunder by Cardin	service. In no sent shall outlead be liable for incidental or consequently demanded by the second limited by white divides make in writing and received by Cardinal which 30 days a dart completed of the other attentions or successors arising out of or related to the performance of sentices hereunder by Cardinal, regardess or whether successors arising out of or related to the performance of sentices hereunder by Cardinal, regardess or whether successors arising out of or related to the performance of sentices hereunder by Cardinal, regardess or whether successors arising out of or related to the performance of sentices hereunder by Cardinal, regardess or whether successors arising out of or related to the performance of sentices hereunder by Cardinal, regardess or whether successors arising out of or related to the performance of sentices hereunder by Cardinal, regardess or whether successors arising out of or related to the performance of sentices hereunder by Cardinal for the senting and received by Cardinal and the performance of senting the complete of the related to the performance of senting the complete of the related to the performance of senting the complete of the related to the performance of senting the complete of the related to the r	received by Cardinal within 30 days after se of use, or loss of profits incurred by a	d by the client for the r completion of the applicable tient, its subsidiaries,		
SE SE		01/26/24 R	Received By:	as Delete shows are no fire	Verbal Result: Yes	□ No Add'I Phone #:	
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Sampler - UPS - Bus - Other		Observed Temp. C		CHECKED BY:	Turnaround Time: Star	awa	Sec.
FURM-000 R 3.2		octed Temp, °C	No No	Simpais)	Ŧ	Cool Infact Observed Temp. °C	0
		† Cardinal canno	ot accept verbal chang	es. Please email chan	Cardinal cannot accept verbal changes. Please email changes to release to rel	O No	10
				The state of the s	ges to celey.keene@cardi	0-1/24/2g	
						1	



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

Company Name:

Project Manager: Hadiio Grand		
Address 3122 National Deal	P.O. #:	ANALYSIS REQUEST
City: Carlshad		AOil
Phone #: 432 557-8805	State: NM Zip: 88220 Attn: Kelton Beaird	Beaird
Bright 1000000000000000000000000000000000000	Fax#: Address: 104 S Pecos	S Pegos St
Fi0Ject #: 0302012067	Project Owner: BTA	
esa B 22-25	B East)	7070
Project Location:		p: /3/01
Sampler Name: Connor Whitman	Phone #:	
FOR LAB USE ONLY	Fax #:	
	MATRIX	SAMPLING
Lab I.D. Sample I.D.	Sample Depth (C)OMI	no.
H240369	(TOP) RAB O CONTAI ROUNDI ASTEW	OH TEX Wor
-	GI W. SC OII SL OT AC OTI	t
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13 1518		11.10
14 1510		(11)
15 F520		1180
	0-3	1125
	0-3	Shill
90ms 81	0 3	11.50
19 5007		IISS
30 Smo8	2	1200
PLEASE NOTE: Liability and Damages, Cardinal's liability and cli- arralyses, All dains including those for negligence and any other	limits exclusive retriedy for any claim sching whether based in contract or tort, shall be limited to the	1208
affinites or successors arising out of or related to the performance Relinquished By:	g without limitation, business made in writing and received to writing and received to writing and received to gradient interruptions, loss of use.	lays after completion of the applicable red by dient), its subsidiaries,
#	O1/16/14 Received By:	Verbal Result: Yes No Add'l Phone #:
Relinquished By:		HGreen@ensolum.com
土	Time:/407 Shod Wight	REMARKS:
her:	Corrected Tamp. C Sample Condition CHECKED BY:	Turnaround Time:
	Correction Factor OSCH (Correction Factor OSCH)	Correction Factor -0.5C++++++++++++++++++++++++++++++++++++



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

COMPANY MAMO		
Project Manager: Hadlie Green	BILL TO	
Address: 3122 National Parks Hwy	P.O. #:	REQUEST
MN.ctata	Company: BTA Oil	
95 F		
Project #:U3C2U12067 Project Owner: RTA	JC SOOR OF CORNER	
Project Name: Mesa B 22-25 Tank Battery (Mesa R East)	City: Midland	
Project Location:	State: TX Zip: 79701	
Sampler Name: Connor Whitman	Phone #:	
FOR LAB USE ONLY	Fayte	
MP.	PRESERV. SAMPLING	
	P)	
(G)RAB # CONT	TE)	
23 SW10	1/11/24 1210	
	V 1215	
And the second s		
wiyeler. All claims including those for negligence and elect the columbre remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the claims for the including those for negligence and any other cause whatboever shall be destried withing strategy and to exercit shall be limited to the amount paid by the claims for the	of, shall be limited to the armount paid by the offent for the	
ellinquished by: Date: Received which be beneficiation of the approximation of the approxim	 — no receiver or Custifinal within 30 days after completion of the applicable ruption, loss of use, or loss of profits incurred by oftent, its subuldination. ch claim is based upon any of the above stated reasons or otherwise. 	
Time:	Verbal Result:	
	HGreen@ensolum.com	
1	ned REMARKS:	
mpler - UPS - Bus - Other: Corrected Temp. C Cool Intact College Ves	e: Standard Rush	Bacteria (only) Sample Condition
† Cardinal cannot accept verbal changes	Cardinal cannot accept verbal changes. Please email changes to celev, keene@cardinallab.	Corrected Temp. °C
	į	



February 14, 2024

HADLIE GREEN
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: MESA B 22-25 TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/09/24 14:39.

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 www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received: 02/09/2024 Reported: 02/14/2024

MESA B 22-25 TANK BATTERY

Project Name: MESA B 22-2 Project Number: 03C2012067

Project Location: BTA (32.05980,-103.60435)

Sampling Date: 02/09/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: SW 11 0-3' (H240637-01)

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	02/10/2024	ND	2.21	111	2.00	13.2	
Toluene*	<0.050	0.050	02/10/2024	ND	2.21	110	2.00	13.3	
Ethylbenzene*	<0.050	0.050	02/10/2024	ND	2.19	109	2.00	13.3	
Total Xylenes*	<0.150	0.150	02/10/2024	ND	6.37	106	6.00	13.6	
Total BTEX	<0.300	0.300	02/10/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.6	% 71.5-13	4						
Chloride, SM4500CI-B		/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/12/2024	ND	384	96.0	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/09/2024	ND	218	109	200	1.23	
DRO >C10-C28*	<10.0	10.0	02/09/2024	ND	224	112	200	6.76	
EXT DRO >C28-C36	<10.0	10.0	02/09/2024	ND					
Surrogate: 1-Chlorooctane	85.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	77.3	% 49.1-14	8						

A I J D. ... 711

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Celey D. Keene



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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Celey D. Keene



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

		2111		
Company Name: Ensolum, LLC		DITT 10		ANALTOIS REGUES!
Project Manager: Hadlie (P.O. #:		
Address: 601 N Marienfeld St	RID ST # 400	Company: BTA OII Producer	roducery, LLC	
lan	State: TX Zip: 79701	Attn: Kelton Beaird	aird	
Phone #: 432-557-8895 Fax #:	305 Fax #:	Address: 1045. Pecos St)S St	
Project #: 0362012067	t Owner:	(NAME OF TAXABLE PARTY)		
Project Name: MESA B 22-25	2-25 Tank Battery	State: TX Zip: 70	701	
Project Location: 32 - 05980,	0,-103.60435	Phone #:		
Sampler Name: Mariaha	1 O'Dell	Fax #:		
		PRESERV. SAMPLING		
上よりのです	RS TER		ide	
Lab I.D. Sample I.D.	(feet) (G)RAB OR (C)# CONTAINE! GROUNDWA WASTEWATE SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	Chior TPH BTEX	
SW11	×	×	10:30 × × X	
)
	N			7
PLEASE NOTE: Liability and Damages. Cardinal's liability analyses. All claims including those for negligence and as service. In no event shall Cardinal be liable for including the service.	은 요 트	ct or tort, shall be limited to the amount paid nd received by Cardinal within 30 days after I, loss of use, or loss of profits incurred by ciken to be based upon any of the above stated reasons.	by the client for the completion of the applicable unit, its subsidiaries, one on otherwise.	
Relinquished By:	Date:		Verbal Result: ☐ Yes ☐ No	o Add'I Phone #:
The Show	Time: 20)	All Results are emailed. Please provide Email address: Blennings@ensolum.com MG RECNET NSOLUT	ngreeneensolum.com
Relinquished By:			REMARKS: Incident ID	REMARKS: Incident ID: nApp2209078912
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	C S	CHECKED BY:	Turnaround Time: Standard Rush Thermometer ID #413 0	
Sampler - UPS - Bus - Other:	Corrected lemp. Carlo		Correction Facility OFFICE OFFI	No No Corrected Temp of



APPENDIX E

NMOCD Notifications

From: Rodgers, Scott, EMNRD

To: <u>Hadlie Green; Velez, Nelson, EMNRD; Bratcher, Michael, EMNRD</u>

Cc: Kelton Beaird; Tacoma Morrissey

Subject: RE: [EXTERNAL] BTA - Sampling Notification - Week of 10/2/2023

Date: Thursday, September 28, 2023 2:11:18 PM

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

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

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

[**EXTERNAL EMAIL**]

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

Scott Rodgers • Environmental Specialist

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



From: Hadlie Green hgreen@ensolum.com Sent: Thursday, September 28, 2023 12:20 PM

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

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

Subject: [EXTERNAL] BTA - Sampling Notification - Week of 10/2/2023

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 2, 2023.

- Chiso 14 State Jet Pump Excavation / nAPP2205837214
 - Sampling Date: 10/2-4/2023 @ 9:00 AM MST

- Mesa B 22-25 Tank Battery (Mesa B East) / nAPP2209078912
 - Sampling Date: 10/5/2023 @ 9:00 AM MST

Thank you,



From: Wells, Shelly, EMNRD

To: Hadlie Green

Cc: Kelton Beaird; Tacoma Morrissey; Aimee Cole; Velez, Nelson, EMNRD; Bratcher, Michael, EMNRD

Subject: RE: [EXTERNAL] BTA - Sampling Notification - Mesa B 22-25 Tank Battery (Incident Number nAPP2209078912)

Date: Monday, November 13, 2023 10:52:28 AM

Attachments: <u>image001.png</u>

image002.png image003.png image004.png

[**EXTERNAL EMAIL**]

Hi Hadlie,

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

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: Friday, November 10, 2023 12:05 PM

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

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

Subject: [EXTERNAL] BTA - Sampling Notification - Mesa B 22-25 Tank Battery (Incident Number nAPP2209078912)

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

All,

BTA anticipates collecting confirmation samples at the following location on Monday and Tuesday, November 13-14, 2023.

- Mesa B 22-25 Tank Battery / nAPP2209078912
 - Sampling Date: 11/13-14/2023 @ 9:00 AM MST
 - GPS: 32.05980, -103.60435

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 Submit to appropriate OCD District office

Incident ID	nAPP2209078912
District RP	
Facility ID	fAPP2130022003
Application ID	

Release Notification

Responsible Party

Responsible Party: BTA Oil Producers, LLC	OGRID: 260297
Contact Name: Bob Hall	Contact Telephone: 432-682-3753
Contact email: bhall@btaoil.com	Incident # (assigned by OCD) nAPP2209078912
Contact mailing address: 104 S. Pecos St., Midland, TX 79701	

Location of Release Source

Latitude: 32.05980 Longitude: -103.60435

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Mes	sa B 22-2	25 Tank Batter	y (Mesa B East)	Site Type: Tank Battery	1
Date Release Dis	scovered:	3/31/2022			API# (if applicable) Nearest we	11:
Unit Letter S	Section	Township	Range		County	

Unit Letter	Section	Township	Range	County
Α	7	26S	33E	Lea

Surface Owner I Siale 1XI rederal I I final I Privale (<i>Name</i>	Surface Owner:	State 5	Federal	Tribal [Private (Name
---	----------------	---------	---------	----------	---------------

Nature and Volume of Release

Material	(s) Released (Select all that apply and attach calculations or specific	justification for the volumes provided below)
Crude Oil	Volume Released (bbls) 330 BBL	Volume Recovered (bbls) 130 BBL
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
C CD 1		

Cause of Release

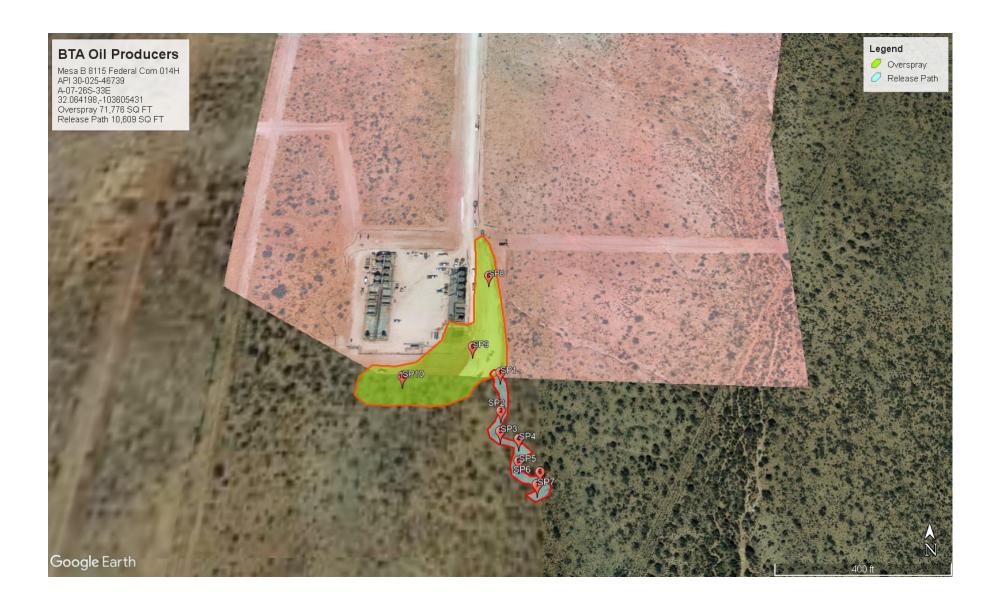
Operator Error - Transfer Pump Left ON at Tank Battery.

A transfer pump was left on and pushed at least 155 BO to the flare. Some of the oil was burned at the flare, but the fire was doused by the continuous stream of oil which accumulated at the flare inside an earthen fire wall. The earthen containment filled with oil that overflowed off of the pad and onto surrounding pasture. Additionally, some oil was sprayed from the flare and onto vegetation immediately adjacent to the tank battery pad. An aerial photo was used for the attached spill volume calculation and an increase in the volume of the release is reported in this filing.

Form C-141 Page 2 State of New Mexico
Oil Conservation Division

	r ugenisseuj un
Incident ID	nAPP2209078912
District RP	
Facility ID	fAPP2130022003
Application ID	

Was this a major	If YES, for what reason(s) does the responsible party consider this a major release?					
release as defined by 19.15.29.7(A) NMAC?	Yes – Release greater than 25 BBL and there was fire due to oil burning at the flare stack.					
⊠ Yes □ No						
TCALEGO ' 1' 4	the size of the OCD2 December 2. To subser 2. When and by substances (whom a small stay)?					
If YES, was immediate n	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?					
	Initial Response					
The responsible	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury					
☐ The source of the rele	ease has been stonned					
	as 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 describe	d above have not been undertaken, explain why:					
has begun, please attach	IAC the responsible party may commence remediation immediately after discovery of a release. If remediation a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred at area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.					
regulations all operators are public health or the environ failed to adequately investig	rmation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and required to report and/or file certain release notifications and perform corrective actions for releases which may endanger ment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have gate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In if a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws					
Printed Name: Bob Hal	Title: Environmental Manager					
Signature:/s/ Bob	Hall Bullfall Date: 4/13/2022					
email: bhall@btaoil.c	om Telephone: 432-682-3753					
OCD Only						
	Harimon Date: 04/13/2022					
Received by. Occoryii	Date: OH 10/2022					



Location Mesa B 22-25 / Mesa B East Oil Transfer Pump (Overspray Area) API# **Spill Date** 3/31/2022 **Spill Dimensions ENTER** - Length of Spill 268 feet **ENTER** - Width of Spill 268 feet **ENTER** - Saturation Depth of Spill 0.05 inches **ENTER** - Porosity Factor 0.2 decimal Oil Cut - Well Test / Vessel Throughput or Contents Oil 99.999 Water 0.001 Calculated Oil Cut 0.99999 **Volume Recovered in Truck / Containment ENTER** - Recovered Oil **BBL ENTER** - Recovered Water **Calculated Values** calculated Release of Oil in Soil - Unrecovered 11 BBL Release of Water in Soil - Unrecovered 0 **BBL Unrecovered Total Release** 11 BBL **Calculated Values** calculated Total Release of Oil 11 *BBL* 0 **BBL**

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

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

Oil Cut X (or Water Cut)

11 BBL

Total Release of Water

Total Release

Location Mesa B 22-25 / Mesa B East Oil Transfer Pump (Release Path)

API#

Spill Date 3/31/2022

Spill Dimensions

ENTER - Length of Spill	103 feet
ENTER - Width of Spill	103 feet
ENTER - Saturation Depth of Spill	6 inches

ENTER - Porosity Factor 0.2 decimal

Oil Cut - Well Test / Vessel Throughput or Contents

 Oil
 99.999

 Water
 0.001

 Calculated Oil Cut
 0.99999

Volume Recovered in Truck / Containment

ENTER - Recovered Oil 130 BBL
ENTER - Recovered Water 0 BBL

Calculated Values calculated

Release of Oil in Soil - Unrecovered 189 BBL
Release of Water in Soil - Unrecovered 0 BBL
Unrecovered Total Release 189 BBL

Calculated Values calculated

Total Release of Oil 319 BBL
Total Release of Water 0 BBL
Total Release 319 BBL

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

(Length X Width X Depth X 1 ft/12 in) X Porosity 5.615 ft³ / BBL X Oil Cut (or Water Cut)

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

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

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

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

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

CONDITIONS

Action 98343

CONDITIONS

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	98343
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created	Condition	Condition Date
jharir	None	4/13/2022

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Incident ID	nAPP2209078912
District RP	
Facility ID	fAPP2130022003
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
What is the shallowest depth to groundwater beneath the area affected by the release?	51-100 (ft bgs)	
Did this release impact groundwater or surface water?	☐ Yes ⊠ No	
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No	
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No	
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No	
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No	
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No	
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No	
Are the lateral extents of the release within 300 feet of a wetland? ☐ Yes ☒ No		
Are the lateral extents of the release overlying a subsurface mine? ☐ Yes ☒ No		
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No	
Are the lateral extents of the release within a 100-year floodplain? ☐ Yes ☒ No		
Did the release impact areas not on an exploration, development, production, or storage site?		
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 		

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

Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release

19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Depth to water determination

Photographs including date and GIS information

Laboratory data including chain of custody

Boring or excavation logs

Topographic/Aerial maps

Received by OCD: 3/21/2024 11:13:43 AM Form C-141 State of New Mexico Page 4 Oil Conservation Division

	Page	<u>139 o</u>	f 148
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Incident ID	nAPP2209078912
District RP	
Facility ID	fAPP2130022003
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Printed Name:Kelton Beaird	Title:Environmental Manager	
Signature:	Date:2/21/2024	
email:KBeaird@btaoil.com	Telephone:432-312-2203	
OCD Only		
Received by:	Date:	

Page 140 of 148

	1 1180 110 0 1 1
Incident ID	nAPP2209078912
District RP	
Facility ID	fAPP2130022003
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 must be notified 2 days prior to liner inspection)	s of the liner integrity if applicable (Note: appropriate OCD District office	
☐ Laboratory analyses of final sampling (Note: appropriate OD	C District office must be notified 2 days prior to final sampling)	
□ Description of remediation activities		
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rehuman health or the environment. In addition, OCD acceptance of	ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in	
OCD Only		
Received by:	Date:	
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible for regulations.	
Closure Approved by:	Date:	
Printed Name:	Title:	

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

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

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

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

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

QUESTIONS

Action 325467

QUESTIONS

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	325467
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2209078912
Incident Name	NAPP2209078912 MESA B 22-25 TANK BATTERY @ 0
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received
Incident Facility	[fAPP2130022003] Mesa B 22-25

Location of Release Source		
Please answer all the questions in this group.		
Site Name	MESA B 22-25 TANK BATTERY	
Date Release Discovered	03/31/2022	
Surface Owner	Private	

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	Yes
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release		
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 Pump Crude Oil Released: 155 BBL Recovered: 130 BBL Lost: 25 BBL.	
Produced Water Released (bbls) Details	Not answered.	
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.	
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)	A transfer pump was left on and pushed at least 155 BO to the flare. Some of the oil was burned at the flare, but the fire was doused by the continuous stream of oil which accumulated at the flare inside an earthen fire wall. The earthen containment filled with oil that overflowed off of the pad and onto surrounding pasture. Additionally, some oil was sprayed from the flare and onto vegetation immediately adjacent to the tank battery pad. Aerial photos have been taken and will be used to update the volume of the oil release.	

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Phone: (575) 393-6161 Fax: (575) 393-0720 District II

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

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 325467

Phone: (505) 476-3470 Fax: (505) 476-3462	•	
QUESTI	IONS (continued)	
Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297 Action Number: 325467 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; (2) an unauthorized release of a volume that: (a) results in a fire or is the result of a fire.	
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	e. gas only) are to be submitted on the C-129 form.	
Initial Response		
The responsible party must undertake the following actions immediately unless they could create a s	safety hazard that would result in injury.	
The source of the release has been stopped	True	
The impacted area has been secured to protect human health and the environment	True	
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True	
All free liquids and recoverable materials have been removed and managed appropriately	True	
If all the actions described above have not been undertaken, explain why	Not answered.	
	inition immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of avaluation in the follow-up C-141 submission.	
to report and/or file certain release notifications and perform corrective actions for releate 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 it 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

I hereby agree and sign off to the above statement

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720 District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

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

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

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

QUESTIONS, Page 3

Action 325467

QUESTIONS (continued)

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	325467
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization		
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 75 and 100 (ft.)	
What method was used to determine the depth to ground water	NM OSE iWaters Database Search	
Did this release impact groundwater or surface water	No	
What is the minimum distance, between the closest lateral extents of the release and 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 ½ and 1 (mi.)	
A subsurface mine	Greater than 5 (mi.)	
An (non-karst) unstable area	Greater than 5 (mi.)	
Categorize the risk of this well / site being in a karst geology	Medium	
A 100-year floodplain	Greater than 5 (mi.)	
Did the release impact areas not on an exploration, development, production, or storage site	Yes	

rided to the appropriate district office no later than 90 days after the release discovery date.		
Yes		
mination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.		
Yes		
No		
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)		
179		
32414		
27914		
0		
0		
empleted efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,		
08/25/2023		
02/09/2024		
02/09/2024		
3813		
423		
3813		
423		
on at the time of submission and may (be) change(d) over time as more remediation efforts are completed.		
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significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

District I

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

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**

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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 325467

QUESTIONS (continued)

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	325467
	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	OWL LANDFILL JAL [fJEG1635837366]	
OR which OCD approved well (API) will be used for off-site disposal	Not answered.	
OR is the off-site disposal site, to be used, out-of-state	Not answered.	
OR is the off-site disposal site, to be used, an NMED facility	Not answered.	
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.	
(In Situ) Soil Vapor Extraction	Not answered.	
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.	
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.	
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.	
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.	
OTHER (Non-listed remedial process)	Not answered.	

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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

I hereby agree and sign off to the above statement

Name: BTA ENSOLUM Title: Environmental Manager Email: kbeaird@btaoil.com Date: 03/21/2024

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

QUESTIONS, Page 5

Action 325467

QUESTIONS (continued)

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	325467
	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 No submission

District I

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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 325467

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Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	325467
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information		
Last sampling notification (C-141N) recorded	312132	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/09/2024	
What was the (estimated) number of samples that were to be gathered	1	
What was the sampling surface area in square feet	15300	

Remediation Closure Request				
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.				
Requesting a remediation closure approval with this submission	Yes			
Have the lateral and vertical extents of contamination been fully delineated	Yes			
Was this release entirely contained within a lined containment area	No			
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes			
What was the total surface area (in square feet) remediated	3813			
What was the total volume (cubic yards) remediated	423			
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	3813			
What was the total volume (in cubic yards) reclaimed	423			
Summarize any additional remediation activities not included by answers (above)	n/a			

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

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

Name: BTA ENSOLUM
Title: Environmental Manager
Email: kbeaird@btaoil.com
Date: 03/21/2024

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QUESTIONS, Page 7

Action 325467

QUESTIONS (continued)

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104 S Pecos	Action Number:
Midland, TX 79701	325467
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	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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CONDITIONS

Action 325467

CONDITIONS

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CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	This Remediation Closure Report is approved. A report for reclamation and revegetation will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete".	4/23/2024
re w re sh m	• 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.	4/23/2024