Received by OCD: 1/27/2023 7:40:01 AM

Form C-141 Page 6 State of New Mexico Oil Conservation Division

Incident ID	nAPP2230437260
District RP	
Facility ID	fAPP2135654952
Application ID	

Closure

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

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

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

Description of remediation activities

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

Printed Name:	Bob Hall	Title:	Environmental Manager
Signature:	Blitall	Date: 01	27/2023
email: <u>bhall@</u>	@btaoil.com	Telephone:	432-682-3753
OCD Only			
Received by:	Jocelyn Harimon	Date:	01/31/2023
remediate contaminat		vater, human hea	d their operations have failed to adequately investigate and lth, or the environment nor does not relieve the responsible
Closure Approved by	:Robert Hamlet	Date:	5/24/2023

Title: Environmental Specialist - Advanced

E N S O L U M

January 26, 2023

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

Re: Closure Request Ochoa Tank Battery - Dump Valve Washout Incident Number nAPP2230437260 Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of BTA Oil Producers, LLC (BTA), has prepared this *Closure Request* to document assessment and soil sampling activities performed at the Ochoa Tank Battery - Dump Valve Washout (Site). The purpose of the Site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following a release of produced water within a lined containment at the Site. Based on field observations, field screening activities, and soil sample laboratory analytical results, BTA is submitting this *Closure Request*, describing Site assessment and delineation activities that have occurred and requesting no further action and closure for Incident Number nAPP2230437260

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit D, Section 7, Township 23 South, Range 29 East, in Eddy County, New Mexico (32.32565°, -104.03094°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On October 28, 2022, a water dump valve washed out, resulting in the release of approximately 105 barrels (bbls) of produced water into the lined tank battery containment. A vacuum truck was dispatched to the Site to recover free-standing fluids; approximately 100 bbls of produced water were recovered. BTA reported the release immediately to the New Mexico Oil Conservation Division (NMOCD) via email on October 28, 2022 and submitted a *Release Notification Form C-141* (Form C-141) on October 31, 2022. The release was assigned Incident Number nAPP2230437260.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicablity 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 50 feet and 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is a soil boring permitted by the New Mexico Office of the State Engineer (NMOSE)

BTA Oil Producers, LLC Closure Request Ochoa Tank Battery - Dump Valve Washout

as file number C-4470- POD1, located approximately 0.5 miles south of the Site. The soil boring was drilled September 3, 2020 to a maximum depth of 55 feet bgs, during which groundwater was not encountered. The soil boring was subsequently plugged following approved NMOSE methods. All wells used for depth to water determination are depicted on Figure 1 and the referenced well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is an emergent wetland, located approximately 1,180 feet north 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 diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 10,000 mg/kg

SITE ASSESSMENT ACTIVITIES

On November 7, 2022, Ensolum personnel visited the Site to evaluate the release extent and conduct Site assessment activities. Four delineation soil samples, SS01 through SS04, were collected around the lined containment at 0.5 feet bgs to confirm the lateral extent of the release.

A 48-hour advance notice of the liner inspection was provided via email on November 10, 2022, to the NMOCD. A liner integrity inspection was conducted by Ensolum personnel on November 11, 2022. Upon inspection, the liner was determined to be insufficient. One borehole (BH01) was advanced via hand auger near the location of the tear in the liner to assess the vertical extent of potentially impacted soil. Three discrete delineation soil samples were collected from the borehole (BH01/BH01A/BH01B) at depths ranging from 0.5 feet to 2 feet bgs.

Soil from the borehole and lateral delineation soil samples was field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach[®] chloride QuanTab[®] test strips. Field screening results and observations from the borehole were documented on a lithologic/soil sampling log, which is included as Appendix B. The borehole was backfilled with the soil removed and BTA repaired the tear in the liner. The delineation soil sample locations are depicted on Figure 2. Photographic documentation was conducted at the Site. A photographic log is included in Appendix C.

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



BTA Oil Producers, LLC Closure Request Ochoa Tank Battery - Dump Valve Washout

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for all delineation soil samples, SS01 through SS04 and BH01, BH01A, and BH01B, collected at depths ranging from 0.5 feet to 2 feet bgs, including directly below the tear in the liner, indicated all COC concentrations were compliant with the Closure Criteria and successfully define the lateral and vertical extent of the release. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix D.

CLOSURE REQUEST

Following the failed liner integrity inspection at the Site, Ensolum personnel advanced one borehole (BH01) at the location of the tear in the liner to assess for the presence or absence of impacted soil resulting from the October 28, 2022, produced water release within lined containment. Three delineation soil samples were collected from borehole BH01, at depths ranging from 0.5 feet to 2 feet bgs. Laboratory analytical results for the delineation soil samples indicated all COC concentrations were compliant with Site Closure Criteria. Additionally, laboratory analytical results for soil samples SS01 through SS04, collected around the containment, were compliant with the most stringent Table I Closure Criteria. The release was contained laterally by the lined containment. The tear in the liner was subsequently repaired.

Based on initial response efforts, depth to groundwater between 50 feet and 100 feet bgs, and soil sample laboratory analytical results indicating the absence of impacted soil directly beneath the tear in the liner, BTA respectfully requests closure for Incident Number nAPP2230437260.

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

tmorrissey@ensolum.com.

Sincerely, Ensolum, LLC

Hadlie Green Staff Geologist

cc: Bob Hall, BTA BLM

Appendices:

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



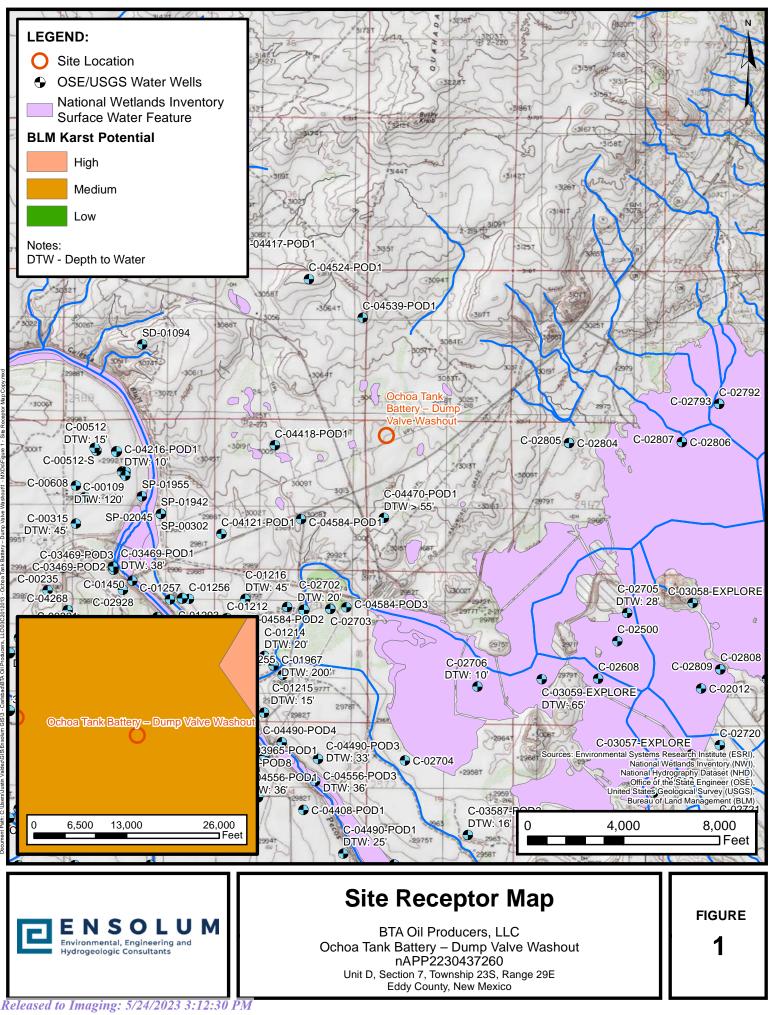
Mouissey

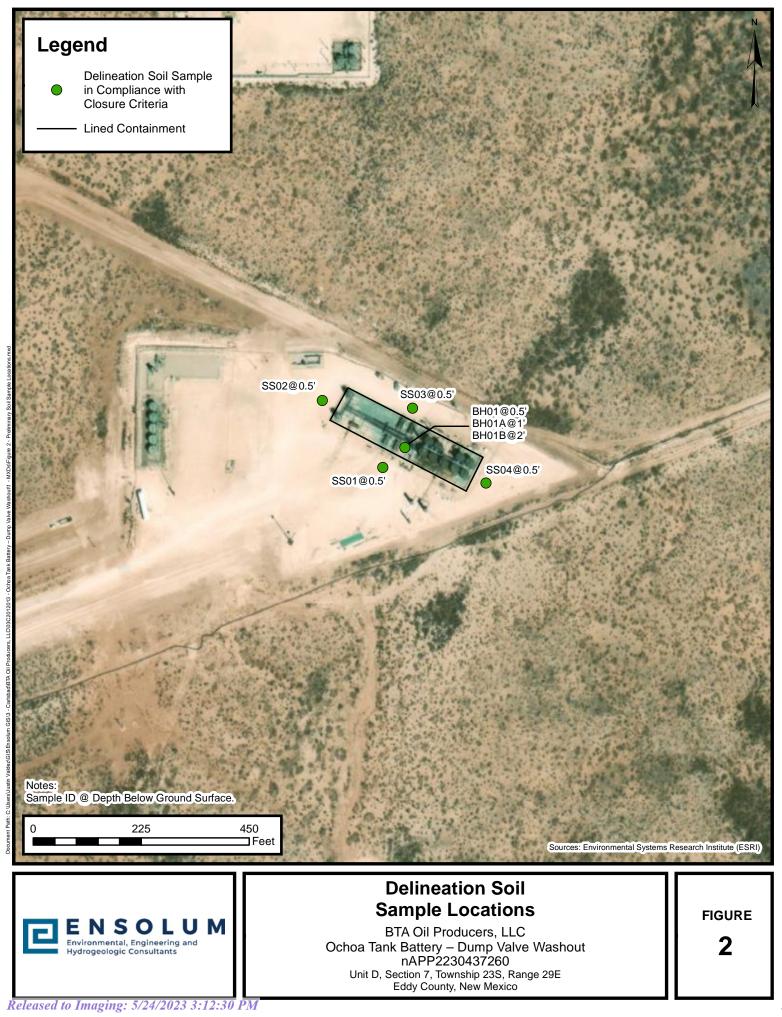
Tacoma Morrissey Senior Geologist



FIGURES

Received by OCD: 1/27/2023 7:40:01 AM







TABLES

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ENSOLUM

	TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Ochoa Tank Battery - Dump Valve Washout BTA Oil Producers, LLC Eddy County, New Mexico											
Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)		
NMOCD Table 1 C	losure Criteria (l	NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	10,000		
				Delir	neation Soil Sar	nples	!		<u>!</u>	•		
SS01	11/07/2022	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160		
SS02	11/07/2022	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	368		
SS03	11/07/2022	0.5	<0.050	<0.300	<10.0	38.1	<10.0	38.1	38.1	224		
SS04	11/07/2022	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0		
BH01	11/11/2022	0.5	<0.050	<0.300	<10.0	21.1	<10.0	21.1	21.1	1,550		
BH01A	11/11/2022	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	832		
BH01B	11/11/2022	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112		

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in **bold** exceed the NMOCD Table 1 Closure Criteria or reclamation

standard where applicable.

GRO: Gasoline Range Organics DRO: Diesel Range Organics ORO: Oil Range Organics TPH: Total Petroleum Hydrocarbon

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APPENDIX A

Referenced Well Records

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09200669142020×103



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

7	OSE POD NO. (W POD1(SB-1)		.)		WELL TAG ID N	0.		OSE FILE NO(C-4470	S).		
	WELL OWNER 1				11/ 4			PHONE (OPTI	0141)		
GENERAL AND WELL LOCATION	Marathon Oil							PHONE (OP II	UNAL)		
חדד	WELL OWNER		ADDRESS					СТТҮ		STATE	ZIP
WE	4111 S. Tidw	¢ 11						Carlsbad		NM 88220	
AND	WELL		DE	GREES 32°	MINUTES 19"	SECON 4.43	21				_
RAL	LOCATION (FROM GPS)		ITUDE	-104°	1"	48.9	N		' REQUIRED: ONE TEN QUIRED: WGS 84	IN OF A SECOND	
ENE			NGITUDE								
1. G			IG WELL LOCATION TO S R29E, NMPM	SIREEI ADDR	ESS AND COMM	UN LANDMA	KK3 - PLS	S (SECTION, TO	WNSHJIP, KANGE) WH	EKE AVAILABLE	
	LICENSE NO.		NAME OF LICENSED	DRILLER					NAME OF WELL DR	ILLING COMPANY	
	1249]	lackie D. Atkin	15			Atkins Eng	gineering Associates, I	nc.
		LLING STARTED DRILLING ENDED DEPTH OF COMPLETED WELL (FT) BOR 09/03/2020 09/03/2020 Temporary-Removed BOR						LE DEPTH (FT) ±55	DEPTH WATER FIR	ST ENCOUNTERED (FT) none	
X	COMPLETED WELL IS: ARTESIAN TO DRY HOLE SHALLOW (UNCONFINED)							STATIC WATER LEV	VEL IN COMPLETED WE none	LL (FT)	
OL	DRILLING FLUI	D:		MUD	ADDIT	IVES - SPEC	IFY:		1 <u></u>		
& CASING INFORMATION	DRILLING MET	HOD:	ROTARY	HAMMER		TOOL	🗸 отне	R – SPECIFY:	Hollo	w Stem Auger	
INFO	DEPTH (fee	et bgl)	BORE HOLE	CASING	MATERIAL AN	D/OR	CA	ASING	CASING	CASING WALL	SLOT
DNI	FROM	то	DIAM (inches)		GRADE each casing string			NECTION TYPE	INSIDE DIAM.	THICKNESS (inches)	SIZE (inches)
CAS	0	35	±8.5		sections of screen ch. 40 PVC Rise	<i>,</i>	(add coup)	ling diameter) hread 2 TPI	(inches) 2.067	0.154	(
5 8	35	55	±8.5		h. 40 PVC Scree			hread 2 TPI	2.067	0.154	.020
DRILLING		•									
DRI											
5					<u> </u>						
				<u> </u>							
			-	<u> </u>	· · ••••	<u> </u> .					
					· ····						
	DEPTH (fee	rt bgl)	BORE HOLE	LIS	ST ANNULAR S	SEAL MAT	ERIAL A	ND	AMOUNT	METHO	
ANNULAR MATERIAL	FROM	то	DIAM. (inches)	GRA	VEL PACK SIZ	E-RANGE	BY INTE	RVAL	(cubic feet)	PLACEN	IENT
TTE											
Z MA				<u> </u>							
JLAI											
NN				<u> </u>						<u> </u>	
3. A											
	OSE INTERNA	LUSE						WR-2	WELL RECORD	LOG (Version 06/3	0/17)
FILE		111) /				1	TDM	(17)/(17)/(17)	1	

			Verbion 00/30/17
FILE NO. C - 4470	POD NO.	TRN NO. 1077182	
LOCATION 235.29	E, 7.313	WELL TAG ID NO.	PAGE 1 OF 2

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	DEPTH (: FROM	feet bgl) TO	THICKNESS (feet)	INCLUDE WATE	D TYPE OF MATERIAL R-BEARING CAVITIES plemental sheets to fully	OR FRA	CTURE ZONES	5	WA' BEAR (YES	ING?	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	0	4	4	Calich	with fine-grained sand, P	ink (7.5 y	r 7/5)		Y	√ N	
	4	14	10	Sand, fine-grained	, poorly graded with calich	,	Y	√ N			
1	14	19	5	Sand, fine-gr		Y	√ N	·····			
	19	34	15	Sand, fine-grained,	/8)	Y	√ N				
	34	49	15								· · ·
-	49	55	6	Sand, Fine grai	ned, poorly graded, cemen	ted , Brow	vn (7.5 yr 5/6)		Y	√ N	
4. HYDROGEOLOGIC LOG OF WELL									Y	N	
10									Y	N	
ğ									Y	N	
									Y	N	
ğ									Y	N	
B							<u></u>		Y	N	
RO I									Y	N	
H									Y	N	
4									Y	N	
									Y	N	
									Y	N	
1									Y	N	
									Y	N	· · · · ·
1									Y	N	
									Y	N	
	METHOD U	SED TO ES	TIMATE YIELD	OF WATER-BEARIN	G STRATA:			TOTAL	. ESTIN	IATED	
	PUM		IR LIFT	BAILER 01	HER - SPECIFY:			WELL	YIELD	(gpm):	0.00
NOISI	WELL TES		T TIME, END TH	ME, AND A TABLE SP	A COLLECTED DURING	ND DRA	WDOWN OVE	RTHET	TESTIN	IG PERIO	D.
TEST; RIG SUPERV			slu		s,abandoned boring by 1 E I/II Neat cement 5.2 g						
LESI	PRINT NAM	E(S) OF DI	RILL RIG SUPER	VISOR(S) THAT PRO	VIDED ONSITE SUPER	ISION O	F WELL CONS	STRUCT	ION O	THER TH	AN LICENSEE:
	Shane Eldrid			.,							
SIGNATURE	CORRECT F	ECORD O	F THE ABOVE D	ESCRIBED HOLE AN	EST OF HIS OR HER KN D THAT HE OR SHE WI PLETION OF WELL DRI	LL FILE					
6. SIGN	Jack.	Atkins		Jac	kie D. Atkins				09/11	/2020	
		SIGNAT	URE OF DRILLE	R / PRINT SIGNEE	NAME					DATE	
								L DEGO			-i 06/20/2015
	R OSE INTERI E NO.		4410	· · · · · ·	POD NO.		TRN NO.			<u>LOG (Ver</u>	sion 06/30/2017)
- H	CATION				•	WELI	, TAG ID NO.	<u>u</u> 1	· /·		PAGE 2 OF 2

2904 W 2nd St. Roswell, NM 88201 voice: 575.624.2420 fax: 575.624.2421 www.atkinseng.com



09/14/2020

DII-NMOSE 1900 W 2nd Street Roswell, NM 88201

Hand Delivered to the DII Office of the State Engineer

Re: Well Record C-4470 Pod1 and Plugging Record

To whom it may concern:

Attached please find a Well Record and Plugging Record, in duplicate, for C-4470 POD1, a boring that did not encountered water, was not converted permanently and plugged.

If you have any questions, please contact me at 575.499.9244 or lucas@atkinseng.com.

Sincerely,

Gran Middle

Lucas Middleton

Enclosures: as noted above

05802758271.4202074138



APPENDIX B

Lithologic /Soil Sampling Logs

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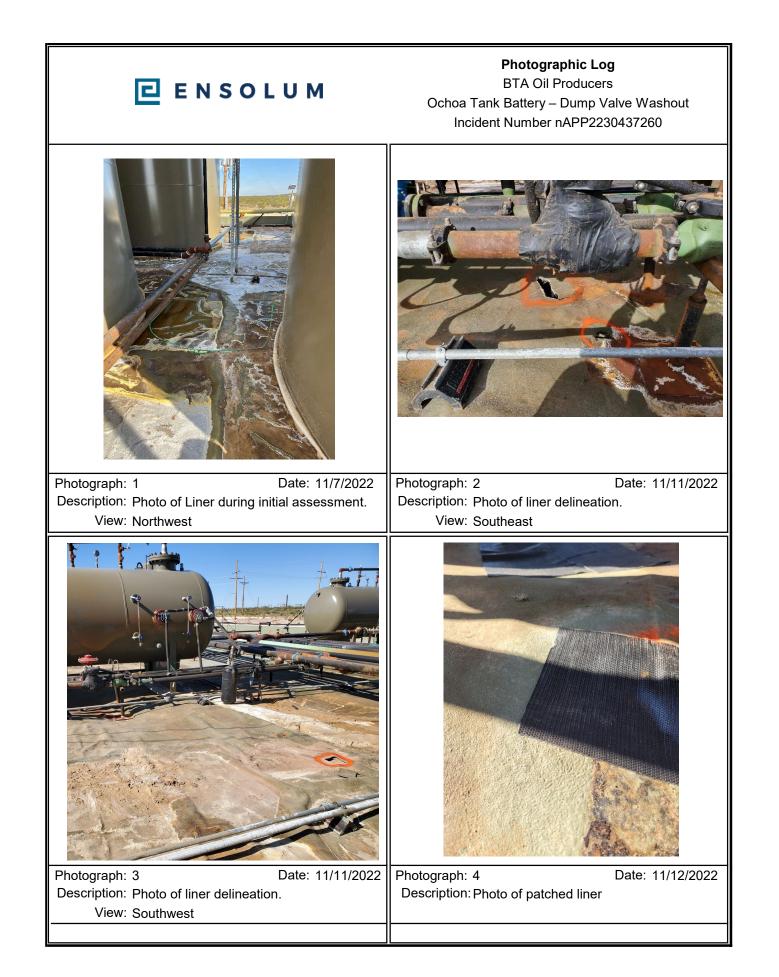
				6				Sample Name:BH01	Date: 11/11/22			
				3	O L	U		Site Name: Ochoa Tank Batt	ery Dump Valve Washout			
					ngineerir			Incident Number: nAPP2230437260				
			-	-	onsultant			Job Number:03C2012013				
					AMPLING	LOG		Logged By: Peter Van	Method: Hand Auger			
	inates: 32.							Hole Diameter: ~4"	Total Depth: 2'			
			-				é error fac	PID for chloride and vapor, re tor is included.	spectively. Chloride test			
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologi	c Descriptions			
Y	7,884	84	Y	BH01	0.5'	0.5'	CCHE	Stained Caliche, light b	rown, no odor, moist			
Y	1,394	19	Y	BH01A	1'	1'	CCHE /SP	SILTY SAND mixed with brown, some staining	CALICHE, tan to light but no odor present.			
Y	604	17	Ν	BH01B	2'	2'	CCHE /SP	SAA				
				TD				Total de	pth at 2' bgs.			



APPENDIX C

Photographic Log

Released to Imaging: 5/24/2023 3:12:30 PM





APPENDIX D

Laboratory Analytical Reports



November 11, 2022

HADLIE GREEN ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD, NM 88220

RE: OCHOA TANK BATTERY DUMP VALVE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 11/09/22 14:30.

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/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	11/09/2022	Sampling Date:	11/07/2022
Reported:	11/11/2022	Sampling Type:	Soil
Project Name:	OCHOA TANK BATTERY DUMP VALVE RI	Sampling Condition:	Cool & Intact
Project Number:	03C2012013	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA - LEA CO NM 32.32572,-104.02903		

Sample ID: SS01 @ 0.5' (H225288-01)

BTEX 8021B	mg/kg		Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	11/11/2022	ND	1.94	96.9	2.00	9.64	
Toluene*	<0.050	0.050	11/11/2022	ND	2.14	107	2.00	8.94	
Ethylbenzene*	<0.050	0.050	11/11/2022	ND	2.02	101	2.00	8.10	
Total Xylenes*	<0.150	0.150	11/11/2022	ND	6.04	101	6.00	9.16	
Total BTEX	<0.300	0.300	11/11/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	11/10/2022	ND	416	104	400	3.92	
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	11/09/2022	ND	233	117	200	24.7	
DRO >C10-C28*	<10.0	10.0	11/09/2022	ND	254	127	200	21.4	
EXT DRO >C28-C36	<10.0	10.0	11/09/2022	ND					
Surrogate: 1-Chlorooctane	109	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	103	% 46.3-17							

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/09/2022	Sampling Date:	11/07/2022
Reported:	11/11/2022	Sampling Type:	Soil
Project Name:	OCHOA TANK BATTERY DUMP VALVE RI	Sampling Condition:	Cool & Intact
Project Number:	03C2012013	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA - LEA CO NM 32.32572,-104.02903		

Sample ID: SS02 @ 0.5' (H225288-02)

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	11/11/2022	ND	1.94	96.9	2.00	9.64	
Toluene*	<0.050	0.050	11/11/2022	ND	2.14	107	2.00	8.94	
Ethylbenzene*	<0.050	0.050	11/11/2022	ND	2.02	101	2.00	8.10	
Total Xylenes*	<0.150	0.150	11/11/2022	ND	6.04	101	6.00	9.16	
Total BTEX	<0.300	0.300	11/11/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.7	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	11/10/2022	ND	416	104	400	3.92	
TPH 8015M	mg/	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/09/2022	ND	233	117	200	24.7	
DRO >C10-C28*	<10.0	10.0	11/09/2022	ND	254	127	200	21.4	
EXT DRO >C28-C36	<10.0	10.0	11/09/2022	ND					
Surrogate: 1-Chlorooctane	122	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	118 9	% 46.3-17	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/09/2022	Sampling Date:	11/07/2022
Reported:	11/11/2022	Sampling Type:	Soil
Project Name:	OCHOA TANK BATTERY DUMP VALVE RI	Sampling Condition:	Cool & Intact
Project Number:	03C2012013	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA - LEA CO NM 32.32572,-104.02903		

Sample ID: SS03 @ 0.5' (H225288-03)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/11/2022	ND	1.94	96.9	2.00	9.64	
Toluene*	<0.050	0.050	11/11/2022	ND	2.14	107	2.00	8.94	
Ethylbenzene*	<0.050	0.050	11/11/2022	ND	2.02	101	2.00	8.10	
Total Xylenes*	<0.150	0.150	11/11/2022	ND	6.04	101	6.00	9.16	
Total BTEX	<0.300	0.300	11/11/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.6	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	11/10/2022	ND	416	104	400	3.92	
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	11/09/2022	ND	233	117	200	24.7	
DRO >C10-C28*	38.1	10.0	11/09/2022	ND	254	127	200	21.4	
EXT DRO >C28-C36	<10.0	10.0	11/09/2022	ND					
Surrogate: 1-Chlorooctane	94.1	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	94.1	% 46.3-17	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/09/2022	Sampling Date:	11/07/2022
Reported:	11/11/2022	Sampling Type:	Soil
Project Name:	OCHOA TANK BATTERY DUMP VALVE RI	Sampling Condition:	Cool & Intact
Project Number:	03C2012013	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA - LEA CO NM 32.32572,-104.02903		

Sample ID: SS04 @ 0.5' (H225288-04)

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	11/11/2022	ND	1.94	96.9	2.00	9.64	
Toluene*	<0.050	0.050	11/11/2022	ND	2.14	107	2.00	8.94	
Ethylbenzene*	<0.050	0.050	11/11/2022	ND	2.02	101	2.00	8.10	
Total Xylenes*	<0.150	0.150	11/11/2022	ND	6.04	101	6.00	9.16	
Total BTEX	<0.300	0.300	11/11/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.8	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/10/2022	ND	416	104	400	3.92	
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	11/09/2022	ND	233	117	200	24.7	
DRO >C10-C28*	<10.0	10.0	11/09/2022	ND	254	127	200	21.4	
EXT DRO >C28-C36	<10.0	10.0	11/09/2022	ND					
Surrogate: 1-Chlorooctane	87.9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	83.5	% 46.3-17	8						

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*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Received by OCD: 1/27/2023 7:40:01 AM

(575) 393-23	(575) 393-2326 FAX (575) 393-2476						
Company Name: GNSUUM LLL.	L.		BILL TO			ANALYSIS REQUESI	
Project Manager: HADUE GECEN	LEEN		P.O. #:				
Address: (101 N- MARDONFELD ST	PST. SUTEYOO		Company: BTA 01L				
0		iotet	Attn: Ros HAUL				
Phone # 437 557 -8895	Fax #:		Address: 104 S. Pecos S	St.			
5	Project Owner:		City: MI DUAND				
me: Ochoa	TAME BATTERY DUMP VALUE NAKHOUT		State: TN Zip: 7970)	0)			
(A)	-104.62993		Phone #: 432-3127203	50			
Sampler Name: Conner Short	ć		Fax #:				· · ·
		MATRIX	PRESERV. SAMPLING	ING			
	Sample I.D. G)RAB OR (C)OMP.	# CONTAINERS GROUNDWATER NASTEWATER SOIL DIL SLUDGE	ACID/BASE: ICE / COOL OTHER :	BTEX	Chlondes	ТРН	
Sol G	20.51 X	×	×	1000 ×	*		
0 toss &	0.51 X	1 ×	× 11.732	1005 X	2 7		
e 2055 E	0.51 X	X	22. F. II ×	_	1		
4 5004 @	0.5' X	X	× 11.7.34	X 5101	*	*	
PLEASE NOTE: Liability and Damagas. Cardinar'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 applicable analyses. At 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 damagos, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, service. In no event shall Cardinal be liable for incidental or consequential damagos, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, service. In no event shall Cardinal be liable for incidental or consequential damagos, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, service. In no event shall cardinal be liable for incidental or consequential damagos, including without limitation, business interruptions, loss of use, the above stated reasons or otherwise.	iability and client's exclusive remedy for any clai and any other cause whatsoever shall be deeme ental or consequental damages, including witho	im arising whether based in contract (ed waived unless made in writing and ut limitation, business interruptions, ic	r tort, shall be limited to the amount paid received by Cardinal within 30 days after i ss of use, or loss of profits incurred by clit becaut when any of the above stated mea	by the client for the completion of the app ant, its subsidiaries, anns or otherwise.	licable		
Cinture Since Sinc	Time: 1420	Received By:	Received By:	Verbal Result: All Results are	emailed.	Verbal Result: Ves No Add'I Phone #: All Results are emailed. Please provide Email address:	
Relinquished By:		Réceived By:	(SDAK TAT	7		1 A A A A A A A A A A A A A A A A A A A
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. "C3, 8"	Sample Condition	CHECKED BY: (Initials)	Turnaround Time: Thermometer ID #113 Correction Factor -0.5*C	13 5°C	Standard A Baccenta (only) complex conversion Rush Cool Intact Observed Temp. °C O.U No Ves Yes No Corrected Temp. °C	femp. °C femp. °C
	† Cardinal cann	not accept verbal chai	Cardinal cannot accept verbal changes. Please email changes to celey keene@cardinallabsnm.com	iges to celey	.keene@c	ardinallabsnm.com	

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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ratories



November 18, 2022

HADLIE GREEN ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD, NM 88220

RE: OCHOA TANK BATTERY DUMP VALVE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 11/14/22 13:35.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	11/14/2022	Sampling Date:	11/11/2022
Reported:	11/18/2022	Sampling Type:	Soil
Project Name:	OCHOA TANK BATTERY DUMP VALVE RI	Sampling Condition:	Cool & Intact
Project Number:	03C2012013	Sample Received By:	Tamara Oldaker
Project Location:	BTA - LEA CO NM 32.32572,-104.02993		

Sample ID: BH01 0.5' (H225375-01)

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	11/15/2022	ND	2.14	107	2.00	1.88	
Toluene*	<0.050	0.050	11/15/2022	ND	2.21	111	2.00	1.87	
Ethylbenzene*	<0.050	0.050	11/15/2022	ND	2.10	105	2.00	1.48	
Total Xylenes*	<0.150	0.150	11/15/2022	ND	6.32	105	6.00	0.422	
Total BTEX	<0.300	0.300	11/15/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	88.7	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1550	16.0	11/16/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/16/2022	ND	206	103	200	2.73	
DRO >C10-C28*	21.1	10.0	11/16/2022	ND	185	92.3	200	3.06	
EXT DRO >C28-C36	<10.0	10.0	11/16/2022	ND					
Surrogate: 1-Chlorooctane	86.5	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	95.2	% 46.3-17	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/14/2022	Sampling Date:	11/11/2022
Reported:	11/18/2022	Sampling Type:	Soil
Project Name:	OCHOA TANK BATTERY DUMP VALVE RI	Sampling Condition:	Cool & Intact
Project Number:	03C2012013	Sample Received By:	Tamara Oldaker
Project Location:	BTA - LEA CO NM 32.32572,-104.02993		

Sample ID: BH01 1.0' (H225375-02)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2022	ND	2.14	107	2.00	1.88	
Toluene*	<0.050	0.050	11/15/2022	ND	2.21	111	2.00	1.87	
Ethylbenzene*	<0.050	0.050	11/15/2022	ND	2.10	105	2.00	1.48	
Total Xylenes*	<0.150	0.150	11/15/2022	ND	6.32	105	6.00	0.422	
Total BTEX	<0.300	0.300	11/15/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	86.8	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	832	16.0	11/16/2022	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/16/2022	ND	206	103	200	2.73	
DRO >C10-C28*	<10.0	10.0	11/16/2022	ND	185	92.3	200	3.06	
EXT DRO >C28-C36	<10.0	10.0	11/16/2022	ND					
Surrogate: 1-Chlorooctane	89.9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	99.3	% 46.3-17	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/14/2022	Sampling Date:	11/11/2022
Reported:	11/18/2022	Sampling Type:	Soil
Project Name:	OCHOA TANK BATTERY DUMP VALVE RI	Sampling Condition:	Cool & Intact
Project Number:	03C2012013	Sample Received By:	Tamara Oldaker
Project Location:	BTA - LEA CO NM 32.32572,-104.02993		

Sample ID: BH01 2.0' (H225375-03)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2022	ND	2.14	107	2.00	1.88	
Toluene*	<0.050	0.050	11/15/2022	ND	2.21	111	2.00	1.87	
Ethylbenzene*	<0.050	0.050	11/15/2022	ND	2.10	105	2.00	1.48	
Total Xylenes*	<0.150	0.150	11/15/2022	ND	6.32	105	6.00	0.422	
Total BTEX	<0.300	0.300	11/15/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	86.9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	11/16/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/16/2022	ND	206	103	200	2.73	
DRO >C10-C28*	<10.0	10.0	11/16/2022	ND	185	92.3	200	3.06	
EXT DRO >C28-C36	<10.0	10.0	11/16/2022	ND					
Surrogate: 1-Chlorooctane	87.9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	95.8	% 46.3-17	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

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

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

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

101 East Marland, Hobbs, NM 88240 (575) 303-2326 FAY (575) 303-2476 aboratories

Laboratories				
101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476	NM 88240 5) 393-2476			
Company Name: BTA		BILL TO	ANALVSIS DECI	
Project Manager: Hadlie Green		P.O. #:		
National Parks	Her Y	Company: BTA 0:1	<u>+</u>]2,	(a) Shini
	State: NM Zip: 87220	to Hal	۶ <u>.</u>	in a second
Phone #: 432-557-8895 Fax #:	a	20	+ +2	-
	Project Owner:	city: Midland		
FO	4	State: TX Zip: 79701		- 63
Project Location: 32,32572,-104,	2993	Phone #: 432-312-2203	-	
Sampler Name: Yeter Van Parten	2	Fax #:	PA	-
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING	15)	
Lab I.D. Sample I.D.	RAB OR (C)OMP ONTAINERS OUNDWATER STEWATER IL	HER : D/BASE: / COOL HER :	hlorides PH (801 TEX (801	
-	×	×	××	
UBH01	1.0' @ 1 X	X 11-11-22 11 10	×	
10 H 3 C	2.0' G X	X 11-11-22 1120	XX	
Damages those for r final be lia	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 regigence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the at ble for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profils incurred by client, its subsidiaries, elabed to the performance of service because because the order of contract.	or tort, shall be limited to the amount paid by the clie I received by Cardinal within 30 days after completion oss of use, or loss of profits incurred by client, its sub	It for the coplicable contract of the c	
Relinquished By: Date: 11-1	ceive	d By: Verbal	Sons or otherwise. Verbal Result: □ Yes ☑ No Add'I Phone #: All Results are emailed. Please provide Email address:	

Received by OCD: 1/27/2023 7:40:01 AM

Relinquished By:

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Tetter~

Time: 0800 Date: 11-14-22

hgreen (e) en solum. com

Received By:

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

Observed Temp. °C 3 Corrected Temp. °C 2.8

X

Cool

CHECKED BY: 2 (Initials)

Turnaround Time:

Standard Rush

Bacteria (only) Sample Condition Cool Intact Observed Temp. Yes Yes No No Corrected Temp.

Observed Temp. °C Corrected Temp. °C

REMARKS:

Cool Intact Sample Condition

Time; 33(

Correction Factor -0.5°C

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Page 6 of 6

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



APPENDIX E

NMOCD Notifications

Released to Imaging: 5/24/2023 3:12:30 PM

From:	Hadlie Green
То:	OCD.Enviro@state.nm.us
Cc:	Tacoma Morrissey
Subject:	Containment Inspection - BTA - Ochoa Tank Battery Dump Valve Washout (Incident Number nAPP2230437260)
Date:	Thursday, November 10, 2022 5:34:00 PM
Attachments:	image001.png
	image002.png
	image003.png
	image004.png

To Whom It May Concern,

Below is an email notification for liner inspection at BTA Oil Producers, LLC (BTA) Ochoa Tank Battery Dump Valve Washout (Incident Number nAPP2230437260) / Spill Date 10/28/2022. This is a notification that Ensolum is scheduled to inspect this lined containment on behalf of BTA on Friday November 11, 2022. Please call with any questions or concerns.

GPS: 32.32572, -104.02993

Thank you,



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



APPENDIX F

FINAL C-141

Released to Imaging: 5/24/2023 3:12:30 PM

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	nAPP2230437260
District RP	
Facility ID	fAPP2135654952
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) nAPP2230437260
Contact mailing address: 104 S. Pecos St., Midland, TX 79701	

Location of Release Source

Latitude: 32.32565 Longitude: -104.03094

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Ochoa Tank Battery – Dump Valve Washout	Site Type: Tank Battery
Date Release Discovered: 10/28/2022	API# (<i>if applicable</i>) Nearest well:

Unit Letter	Section	Township	Range	County
1-1- D	7	235	29E	Eddy

Surface Owner: State Federal Tribal Private (Name:)

Nature and Volume of Release

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

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)	
Produced Water	Volume Released (bbls) 105 BBL	Volume Recovered (bbls) 100 BBL	
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No	
Condensate	Volume Released (bbls)	Volume Recovered (bbls)	
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)	
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)	
Cause of Release			

Cause of Release

Dump Valve Washout. A Kimray water dump valve washed out, releasing over 100 BW into the containment. The force of the fluid from the bottom of the washed-out valve created a hole in the liner, allowing produced water to get under the liner. A vacuum truck was used to recover 100 BW from the containment. Spill Volume Calculation is attached.

Page 2

Oil Conservation Division

Incident ID	nAPP2230437260
District RP	
Facility ID	fAPP2135654952
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?	The release volume exceeded 25 BBL fluid.			
🛛 Yes 🗌 No				
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?				
NOR assigned the pre	NOR assigned the present Incident ID nAPP2230437260 was filed on 10/31/2022.			

Initial Response

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

 \boxtimes The source of the release has been stopped.

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

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

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

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

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

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

Printed Name: Bob Hall Title: Environmental Manager

Signature: /s/ Bob Hall Date: 11/14/2022

email: bhall@btaoil.com Telephone: 432-682-3753

OCD Only

Received by: Jocelyn Harimon Date: 11/15/2022

Location Ochoa Tank Battery - Dump Valve Washout API # Spill Date 10/28/2022

Spill Dimensions

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

ENTER -	Porosity	Factor
---------	----------	--------

51	feet
51	feet
4	inches



0.01 99.99 0.0001

BBL

BBL

Oil Cut - Well Test / Vessel Throughput or Contents
Oil
Water
Calculated Oil Cut

Volume Recovered in Truck / Containment ENTER - Recovered Oil

ENTER - Recovered Water

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

calculated	-
0	BBL
5	BBL
5	BBL

100

Calculated Values
Total Release of Oil

Total Release of Water Total Release

calculated
0 BBL
105 BBL
105 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

Х

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

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

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

CONDITIONS

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	158721
	Action Type:
	[C-141] Release Corrective Action (C-141)
CONDITIONS	

Created By Condition Condition Date 11/15/2022 jharimon None

Page 38 66 42

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Action 158721

	Page 39 of 4 .
Incident ID	nAPP2230437260
District RP	
Facility ID	fAPP2135654952
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.

	4
What is the shallowest depth to groundwater beneath the area affected by the release?	<u>50 - 100</u> (ft bgs)
Did this release impact groundwater or surface water?	
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No ☐ 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?	
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No ☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a wetland?	
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🔀 No
Did the release impact areas not on an exploration, development, production, or storage site?	🗌 Yes 🛛 No
Die the release impact areas not on an exploration, development, production, of storage site?	🗌 Yes 🛛 No

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

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

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

Field data

Data table of soil contaminant concentration data

- \boxtimes Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

Released to Imaging: 5/24/2023 3:12:30 PM

Received by OCD: 1/27/2023 7:40:01 AM

Form C-141 Page 4	State of New Mexico Oil Conservation Division			Incident ID District RP	nAPP2230437260
				Facility ID Application ID	fAPP2135654952
regulations all operators ar public health or the enviro failed to adequately invest addition, OCD acceptance and/or regulations. Printed Name: <u>Bob H</u> Signature: <u>Bob H</u> email: <u>bhall@btaoil</u>	Hall	fications an OCD does r at to groun responsibil Title: Date:	nd perform co not relieve the idwater, surfact lity for compl	rrective actions for re operator of liability size water, human healt iance with any other for ental Manager	leases which may endanger hould their operations have h or the environment. In
OCD Only Received by: Joce	lyn Harimon	Γ	Date: 01/3	31/2023	

Received by OCD: 1/27/2023 7:40:01 AM

Form C-141	State of New Mexico	Incident ID	nAPP2230437260
Page 6	Oil Conservation Division	District RP	
		Facility ID	fAPP2135654952
		Application ID	

Closure

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

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

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

Description of remediation activities

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

Printed Name:Bob Hall	Title:Environmental Manager	
Signature:	Date: 01/27/2023	
email:bhall@btaoil.com	Telephone:432-682-3753	
OCD Only		
Received by: Jocelyn Harimon	Date: 01/31/2023	
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.		
Closure Approved by:	Date:	
Printed Name:		

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

CONDITIONS

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	180217
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By Condition Condition Date We have received your closure report and final C-141 for Incident #NAPP2230437260 OCHOA TANK BATTERY DUMP VALVE WASHOUT, thank you. This 5/24/2023 rhamlet closure is approved. Please be aware that any contaminants left on pad above reclamation standards will need to be addressed at the time the site/facility is plugged and abandoned.

CONDITIONS

Action 180217