

December 6, 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

Rojo 10-13 Tank Battery

Incident Number NRM2022745673

Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of BTA Oil Producers, LLC (BTA), has prepared this *Closure Request* to document delineation and soil sampling activities performed at the Rojo 10-13 Tank Battery (Site). The purpose of the Site assessment, delineation, and soil sampling activities was to assess for the presence or absence of impacts to soil following a release of produced water. Based on field observations, delineation 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 NRM2022745673.

#### SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit A, Section 27, Township 25 South, Range 33 East, in Lea County, New Mexico (32.10846°, -103.55289°) and is associated with oil and gas exploration and production operations on private land owned by KAML Limited.

On August 12, 2020, a hammer union on the water transfer line failed, resulting in the release of approximately 40 barrels (bbls) of produced water; no fluids were recovered. BTA reported the release to the New Mexico Oil Conservation Division (NMOCD) via a Release Notification Form C-141 (Form C-141) on August 13, 2020. The release was assigned Incident Number NRM2022745673.

#### 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 a 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 closest groundwater well data. The closest groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NM OSE) well number C-04698-POD 1, located approximately 0.5 miles west of the Site. On January 3, 2023, a field geologist logged and described soils continuously to a total depth of 60 feet bgs. The borehole was left open for over 72 hours to allow for potential slow infill of groundwater. After the 72-hour waiting period without observing

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 3122 National Parks Highway | Carlsbad, NM 88220 | ensolum.com

BTA Oil Producers, LLC Closure Request Rojo 10-13 Tank Battery

groundwater, it was confirmed that groundwater beneath the Site is greater than 60 feet bgs. The borehole was properly abandoned using drill cuttings and hydrated bentonite chips. Based on the soil boring, depth to groundwater at the Site is confirmed to be between 51 feet and 100 feet bgs. All wells used for depth to groundwater determination are depicted on Figure 1 and the referenced well record is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is an irrigation canal, located approximately 4,246 feet southeast 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 (low 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

Total TPH: 2,500 mg/kgChloride: 10,000 mg/kg

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

On August 1 and August 2, 2023, Ensolum personnel were at the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. No visible indications of the historical release were observed during the Site visit. Seven delineation soil samples (SS01 through SS07) were collected around the release extent at a depth of 0.5 feet below ground surface (bgs) to confirm the lateral extent of the release. Five boreholes (BH01 through BH05) were advanced via hand auger within the release extent to assess for the presence or absence of impacted soil resulting from the release. The boreholes were advanced to depths ranging from 1-foot to 4 feet bgs. Discrete delineation soil samples were collected from the boreholes at depths ranging from 0.5 feet to 4 feet bgs. Field screening results and observations were logged on lithologic/soil sampling logs, which are included in Appendix B. The delineation 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 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 constituents of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standard Method SM4500.

Laboratory analytical results for delineation soil samples SS01 through SS07, collected around the release extent, and the delineation samples from boreholes BH01 through BH05, collected within the release extent, indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria and confirmed the absence of impacted soil within and around the release area. Laboratory

BTA Oil Producers, LLC Closure Request Rojo 10-13 Tank Battery

analytical results are summarized in Table 1 and the complete analytical reports are included as Appendix D.

#### **CLOSURE REQUEST**

Site assessment and delineation activities were conducted at the Site to assess for the presence or absence of impacted soil resulting from the August 12, 2020, release of produced water. Laboratory analytical results for the delineation soil samples, collected within and around the release extent, indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria. Based on laboratory analytical results, no impacted soil was identified, and no further remediation is required.

No visible indications of the release were observed. Initial response efforts and natural attenuation have 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 NRM2022745673. Notifications submitted to the NMOCD are included in Appendix E and the final Form C-141 is included as Appendix F.

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

Sincerely, **Ensolum, LLC** 

Hadlie Green

**Project Geologist** 

Aimee Cole

Senior Managing Scientist

cc: Kelton Beaird, BTA

**KAML Limited** 

#### Appendices:

Figure 1 Site Receptor Map

Figure 2 Delineation Soil Sample Locations
Table 1 Soil Sample Analytical Results
Appendix A Appendix B Lithologic Soil Sampling Logs

Appendix C Photographic Log

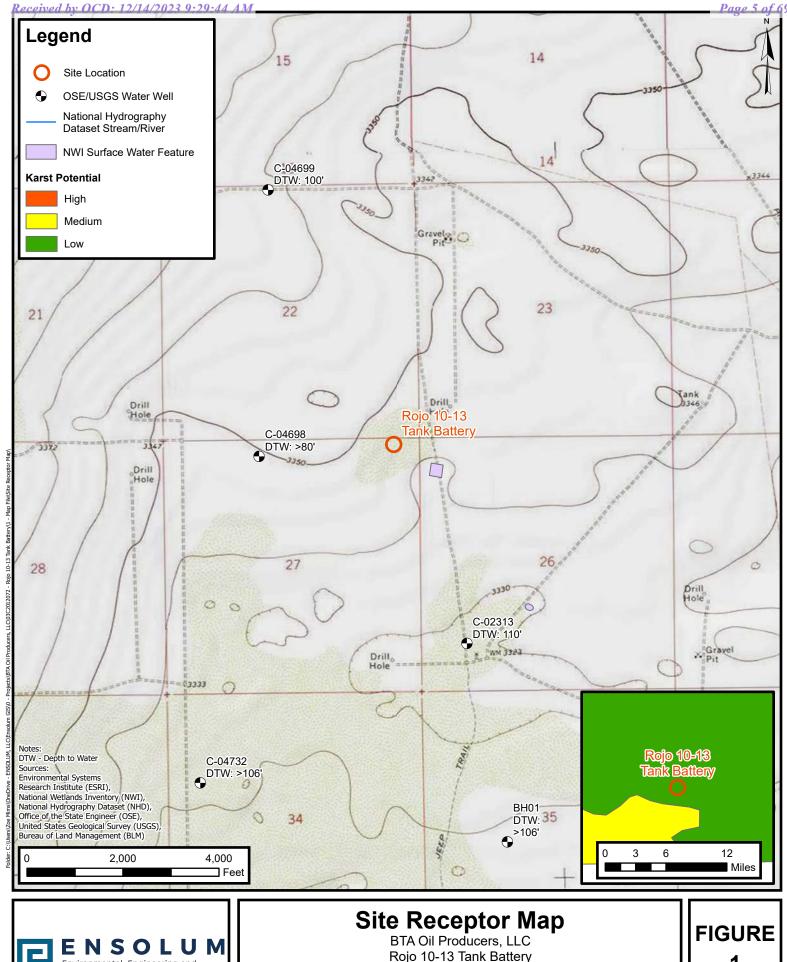
Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation

Appendix E NMOCD Notifications

Appendix F Final C-141



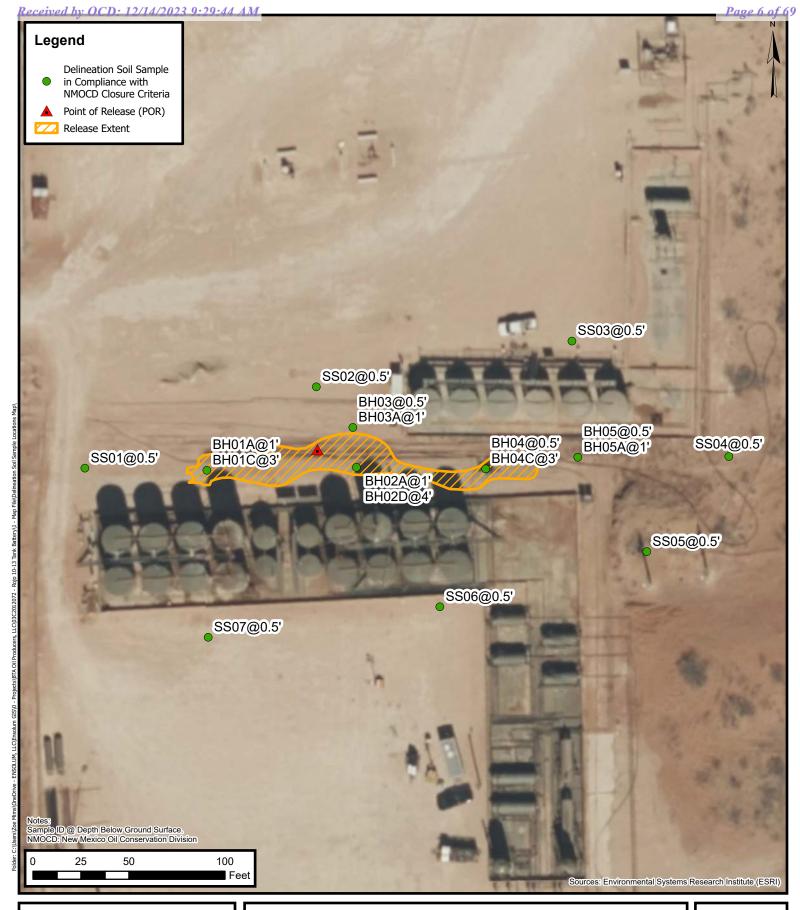
**FIGURES** 





Rojo 10-13 Tank Battery Incident Number: NRM2022745673 Unit A, Sec 27, T25S, R33E Lea County, New Mexico

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## **Delineation Soil Sample Locations**

BTA Oil Producers, LLC Rojo 10-13 Tank Battery Incident Number: NRM2022745673 Unit A, Sec 27, T25S, R33E Lea County, New Mexico FIGURE 2



**TABLES** 

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# TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Rojo 10-13 Tank Battery BTA Oil Producers, LLC Lea County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I C	NMOCD Table I Closure Criteria (NMAC 19.15.29)			50	NE	NE	NE	1,000	2,500	10,000
				Delir	neation Soil Sa	mples				
SS01	08/02/2023	0.5	<0.025	<0.275	<25.0	<25.0	<25.0	<25.0	<25.0	16.0
SS02	08/02/2023	0.5	<0.025	<0.275	<25.0	<25.0	<25.0	<25.0	<25.0	16.0
SS03	08/02/2023	0.5	<0.025	<0.275	<25.0	<25.0	<25.0	<25.0	<25.0	16.0
SS04	08/02/2023	0.5	<0.025	<0.275	<25.0	<25.0	<25.0	<25.0	<25.0	16.0
SS05	08/02/2023	0.5	<0.025	<0.275	<25.0	<25.0	<25.0	<25.0	<25.0	16.0
SS06	08/02/2023	0.5	<0.025	<0.275	<25.0	<25.0	<25.0	<25.0	<25.0	<16.0
SS07	08/02/2023	0.5	<0.025	<0.275	<25.0	<25.0	<25.0	<25.0	<25.0	<16.0
BH01A	08/01/2023	1	<0.025	<0.275	<25.0	<25.0	<25.0	<25.0	<25.0	16.0
BH01C	08/01/2023	3	<0.025	<0.275	<25.0	<25.0	<25.0	<25.0	<25.0	48.0
BH02A	08/01/2023	1	<0.025	<0.275	<25.0	<25.0	<25.0	<25.0	<25.0	128
BH02D	08/01/2023	4	<0.025	<0.275	<25.0	<25.0	<25.0	<25.0	<25.0	320
BH03	08/02/2023	0.5	<0.025	<0.275	<25.0	<25.0	<25.0	<25.0	<25.0	32.0
BH03A	08/02/2023	1	<0.025	<0.275	<25.0	<25.0	<25.0	<25.0	<25.0	48.0
BH04	08/02/2023	0.5	<0.025	<0.275	<25.0	<25.0	<25.0	<25.0	<25.0	96.0
BH04C	08/02/2023	3	<0.025	<0.275	<25.0	<25.0	<25.0	<25.0	<25.0	48.0
BH05	08/02/2023	0.5	<0.025	<0.275	<25.0	<25.0	<25.0	<25.0	<25.0	16.0
BH05A	08/02/2023	1	<0.025	<0.275	<25.0	<25.0	<25.0	<25.0	<25.0	16.0

#### Notes:

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

NMOCD: New Mexico Oil Conservation Division NMAC: New Mexico Administrative Code

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

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

reclamation standard where applicable.

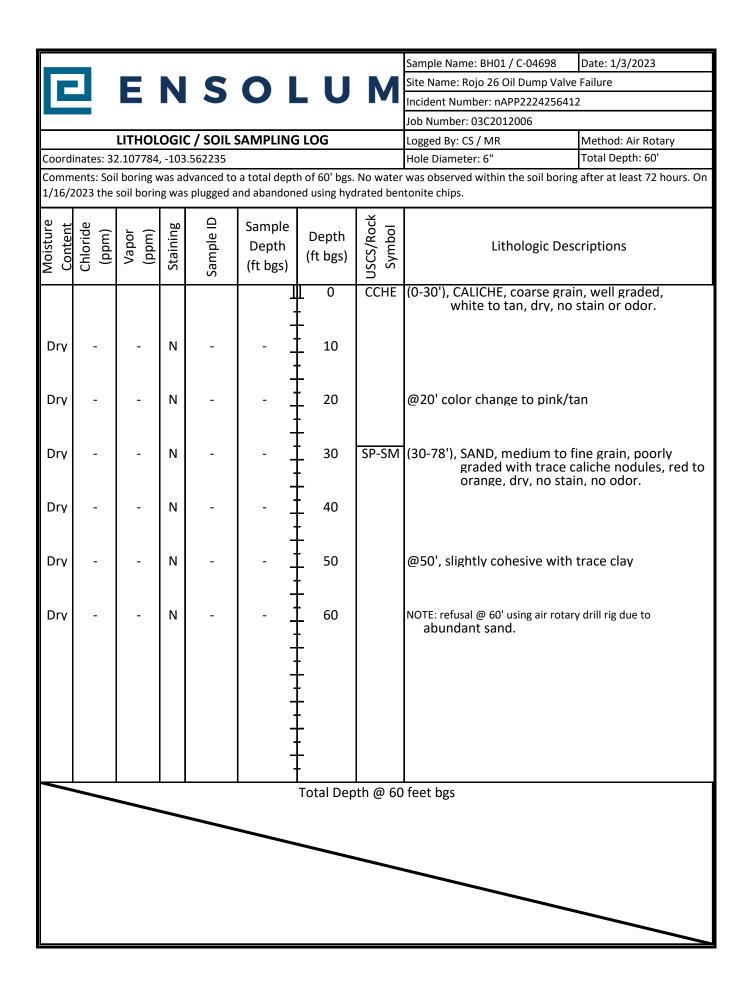
GRO: Gasoline Range Organics DRO: Diesel Range Organics ORO: Oil Range Organics TPH: Total Petroleum Hydrocarbon

1 of 1



**APPENDIX A** 

Referenced Well Records





## WELL PLUGGING PLAN OF OPERATIONS



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NOTE: A Well Plugging Plan of Operations shall be filed with and accepted by the Office of the State Engineer prior to plugging. This form may be used to plug a single well, or if you are plugging multiple monitoring wells on the same site using the same plugging methodology.

Alert! Your well may be eligible to participate in the Aquifer Mapping Program (AMP)-NM Bureau of Geology geoinfo.nmt.edu/resources/water/cgmn/ if within an area of interest and meets the minimum construction requirements, such as there is still water in your well, and the well construction reflected in a well record and log is not compromised, contact AMP at 575-835-5038 or -6951, or by email nmbg-waterlevels@nmt.edu, prior to completing this prior form. Showing proof to the OSE that your well was accepted in this program, may delay the plugging of your well until a later date.

I. FILI	NG FEE: There is no	filing fee for th									
	NERAL / WELL OV			if proposing or							
Existin Name of	g Office of the State of well owner: BTA	Engineer POD Oil Producers, LI	Number (Wel	ll Number)	for we	ll to be j	plugged:	BH01	_C-	46	98-
	address: 104 S. Pe					Co	unty:				
City:				tate:		TX			Zip code 79701		
	number: 432-682-375	3		E-mail	: bhall	@btaoil.c	om				
	ELL DRILLER INFO										
Well D	riller contracted to pro	vide plugging se	rvices: West	Texas Drill	ing Sen	vices					
	exico Well Driller Lic		<b>#1184</b>			Expira	ation Date	10/31	/2023		
									41		and attack
IV. W	ELL INFORMATIO	N: Check her	e if this plan des stal form WD-08	cribes metho m and skip t	d for plug o #2 in th	gging multi is section.	ple monito	ring wells	on the sa	me site a	nd attach
Note:	A copy of the existing	Well Record for	the well(s) to	be plugged	should	be attach	ed to this	plan.			
0.020	outlines and the		20	100			28.0224				
1)	GPS Well Location:	Latitude: Longitude	32	deg,	33	min, . min, _	44.046	_sec, N	AD 83		
				1.5							
2)	Reason(s) for pluggi	ng well(s):									
	Sail boring										
3)	Was well used for an what hydrogeologic water, authorization	parameters wer	re monitored.	If the we	ell was	used to	monitor c	contamin	ated or	orm to	detail quality
4)	Does the well tap br					NA	If	yes, prov	vide add	itional	detail,
	including analytical	results and/or lal	oratory repor	t(s):							
5)	Static water level: _	>100f	feet below land	d surface /	feet abo	ve land st	urface (	circle on	e) 7 20	23 PM3	:50
6)	Depth of the well: _		feet								
								WI	D-08 Wel	Plugging	g Plan

7)	Inside diameter of innermost casing:inches.
8)	Casing material: Temporary PVC SCF 40
9)	The well was constructed with:  an open-hole production interval, state the open interval:  a well screen or perforated pipe, state the screened interval(s):  NA
10)	What annular interval surrounding the artesian casing of this well is cement-grouted?
11)	Was the well built with surface casing?NoIf yes, is the annulus surrounding the surface casing grouted or
	otherwise sealed? If yes, please describe:
12)	Has all pumping equipment and associated piping been removed from the well?If not, describe remaining equipment and intentions to remove prior to plugging in Section VII of this form.
V. DE	SCRIPTION OF PLANNED WELL PLUGGING: If plugging method differs between multiple wells on same site, a separate form must be completed for each method.
diagram as geoph	this plan proposes to plug an artesian well in a way other than with cement grout, placed bottom to top with a tremie pipe, a detailed of the well showing proposed final plugged configuration shall be attached, as well as any additional technical information, such ysical logs, that are necessary to adequately describe the proposal. Attach a copy of any signed OSE variance to this plugging plan. bis planned plugging plan requires a variance to 19.27.4 NMAC, attach a detailed variance request signed by the applicant.
1)	Describe the method by which cement grout shall be placed in the well, or describe requested plugging methodology
	proposed for the well:
	The temporary 2" we;; material will be removed. If no water is encountered, drill cuttings will be used to ten feet below ground surface (bgs) and plugged using hydrated bentonite. If groundwater is encountered the boring will be plugged, tremie from bottom to a slurry of Portland Type I/II Neat cement in lifts.
2)	Will well head be cut-off below land surface after plugging? NA
VI. PI	JUGGING AND SEALING MATERIALS:
Note: T	he plugging of a well that taps poor quality water may require the use of a specialty cement or specialty scalant. Attach a copy of the batch mix reciping the cement company and/or product description for specialty cement mixes or any scalant that deviates from the list of OSE approved scalants.
1)	For plugging intervals that employ cement grout, complete and attach Table A.
2)	For plugging intervals that will employ approved non-cement based sealant(s), complete and attach Table B.
3)	Theoretical volume of grout required to plug the well to land surface: 287
4)	Type of Cement proposed: Type I/II
5)	Proposed cement grout mix: <a>6.0</a> gallons of water per 94 pound sack of Portland cement.
6)	Will the grout be:batch-mixed and delivered to the siteXmixed on site USE DII JAN 17 2023 PKS/50

WD-08 Well Plugging Plan Version: July 31, 2019 Page 2 of 5

7)	Grout additives requested, and percent b	by dry weight relative to cement:	
	NA		
8)	Additional notes and calculations:		
0)	NA		
VII	ADDITIONAL INFORMATION: List ac	dditional information below, or on separate sheet(	's):
NA		autional mornation below, or on separate shoot	
IVA			
			1
I, Opera Engin	eer pertaining to the plugging of wells and	, say that I have carefully read the foregoing thereof; that I am familiar with the rules and regular will comply with them, and that each and all of the true to the best of my knowledge and belief.	e statements in the Well
		Be hall	01/08/2023
		Signature of Applicant	Date
IX. A	CTION OF THE STATE ENGINEER:		
This V	Well Plugging Plan of Operations is:		
	Approved subject to the attach Not approved for the reasons p	ned conditions.	TI JAN 17 2023 PM3/50
	Witness my hand and official seal this _	20th day of January	,_2023
		Mike A. Manghap.E., New M	exico State Engineer
	THE STAP	By: K. Parekh	
	18 00 CM	KASHYAP F	AREKH
	ZI MARIA I		T.M
		<b>V</b> - 10	WD-08 Well Plugging Plan Version: July 31, 2019

TABLE A - For plugging intervals that employ cement grout. Start with deepest interval.

Surface Styles (CVIII)	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of grout placement (ft bgl)	NA	NA	0
Bottom of proposed interval of grout placement (ft bgl)	NA	NA	100
Theoretical volume of grout required per interval (gallons)	NA	NA	287
Proposed cement grout mix gallons of water per 94-lb. sack of Portland cement	NA	NA	<6.0
Mixed on-site or batch- mixed and delivered?	NA	NA	onsite
Grout additive 1 requested	NA	NA	NA
Additive 1 percent by dry weight relative to cement	NA	NA	NA
Grout additive 2 requested	NA	NA	<b>NA</b> DEE DIT JAN 17 2023 №3:5
Additive 2 percent by dry weight relative to cement	NA	NA	NA

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TABLE B - For plugging intervals that will employ approved non-cement based sealant(s). Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of sealant placement (ft bgl)	NA	NA	0
Bottom of proposed sealant of grout placement (ft bgl)	NA	NA	10
Theoretical volume of sealant required per interval (gallons)	NA	NA	26
Proposed abandonment sealant (manufacturer and trade name)	NA	NA	Bariod Hole Plug

OSE DTI JAN 1.7 2023 MS:51

WD-08 Well Plugging Plan Version: July 31, 2019 Page 5 of 5



#### STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

#### ROSWELL

1900 West Second St. Roswell, New Mexico 88201 Phone: (575) 622-6521 Fax: (575) 623-8559

Applicant has identified wells, listed below, to be plugged. West Texas Drilling Services (WD-1184) will perform the plugging.

Permittee: BTA Oil Producers, LLC NMOSE Permit Number: C-4698-POD1

NMOSE File	Casing diameter (inches)	Well depth (feet bgl)	Approximate static water level (feet bgl)	Latitude	Longitude	
C-4698-POD1	2.0 (Soil Boring)	110	100	32° 6' 28.0224"	103° 33' 44.046''	

#### Specific Plugging Conditions of Approval for Well located in Lea County, New Mexico.

- 1. Water well drilling and well drilling activities, including well plugging, are regulated under 19.27.4 NMAC, which requires any person engaged in the business of well drilling within New Mexico to obtain a Well Driller License issued by the New Mexico Office of the State Engineer (NMOSE). Therefore, the firm of a New Mexico licensed Well Driller shall perform the well plugging.
- **2. Ground Water encountered:** The total Theoretical volume of sealant required for abandonment of soil boring well is approximately 17.94 gallons. Total minimum volume of necessary sealant shall be calculated upon sounding the actual pluggable depth of well, which is estimated at 110 feet.
- 3. Dry Hole: The total Theoretical volume of sealant required for abandonment of soil boring well is approximately 1.63 gallons. Total minimum volume of necessary sealant shall be calculated upon sounding the actual pluggable depth of well, which is estimated at 10 feet.
- **4. Ground Water encountered:** Type I/II Portland cement mixed with 5.2 to 6.0 gallons of fresh water per 94-lb sack of cement is approved for the plugging the well.
- <u>5. Dry Hole:</u> (a) Drill cuttings up to ten feet of land surface. (b) 10 feet to 0 feet Hydrated bentonite. The bentonite shall be hydrated separately with its required increments of water prior to being mixed into the cement slurry.

- 6. Sealant shall be placed by pumping through a tremie pipe extended to near well bottom and kept below top of the slurry column as the well is plugged from bottom-upwards in a manner that displaces the standing water column upwards from below. Tremie pipe may be pulled as necessary to retain minimal submergence in the advancing column of sealant.
- 7. Should cement "shrinks-back" occur in the well, use of a tremie for topping off is required for cement placement deeper than 20 feet below land surface or if water is present in the casing. The approved sealant for topping off is identified in condition 3. and 4. of these Specific Conditions of Approval.
- 8. Any open annulus encountered surrounding the casing shall also be sealed by the placement of the approved sealant. When plugging shallow wells with no construction or environmental concerns, and if the well record on a well to be plugged shows a proper 20-foot annular seal, a plugging plan can propose the use of clean fill material to a nominal 30 feet bgs, then placing an OSE approved sealant to surface. Lacking that information, we would require an excavation of at least 2-feet which shall then be filled in its entirety with sealant to surface.
- 9. Should the NMED, or another regulatory agency sharing jurisdiction of the project authorize, or by regulation require a more stringent well plugging procedure than herein acknowledged, the more-stringent procedure should be followed. This, in part, includes provisions regarding pre-authorization to proceed, contaminant remediation, inspection, pulling/perforating of casing, or prohibition of free discharge of any fluid from the borehole during or related to the plugging process.
- 10. NMOSE witnessing of the plugging of the soil boring will not be required.
- 11. Any deviation from this plan must obtain an approved variance from this office prior to implementation.
- 12. A Well Plugging Record itemizing actual abandonment process and materials used shall be filed with the State Engineer within 30 days after completion of well plugging. For the plugging record, please resurvey coordinate location for well and note coordinate system for GPS unit. Please attach a copy of these plugging conditions.

The NMOSE Well Plugging Plan of Operations is hereby approved with the aforesaid conditions applied.

Witness my hand and seal this 20th day of January 2023

Mike A. Hamman, P.E. State Engineer

By: K. Parekl

Kashyap Parekh Water Resources Manager I





## STATE OF NEW MEXICO

OFFICE OF THE STATE ENGINEER ROSWELL

Mike A. Hamman, P.E.

State Engineer

DISTRICT II

1900 West Second St. Roswell, New Mexico 88201 Phone: (575) 622-6521

Fax: (575) 623-8559

January 20, 2023

BTA Oil Producers, LLC 104 S. Pecos Street Midland, TX 79701

RE: Well Plugging Plan of Operations for well no. C-4698-POD1

#### Greetings:

Enclosed is your copy of the Well Plugging Plan of Operations for the above referenced well subject to the attached Conditions of Approval. The proposed method of operation is found to be acceptable and in accordance with the Rules and Regulations Governing Well Driller Licensing; Construction, Repair and Plugging of Wells 19.27.4 NMAC adopted June 30, 2017 by the State Engineer. subject to the attached Conditions of Approval.

Well Plugging Plan of Operations form (WD-08) has been updated. Current form can be found on the OSE website at the following link https://www.ose.state.nm.us/Statewide/wdForms.php.

Within 30 days after the well is plugged, the well driller is required to file a complete plugging record with the OSE and the permit holder.

Sincerely.

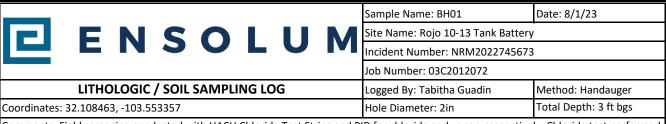
Kiparehl

Water Resources Manager I



**APPENDIX B** 

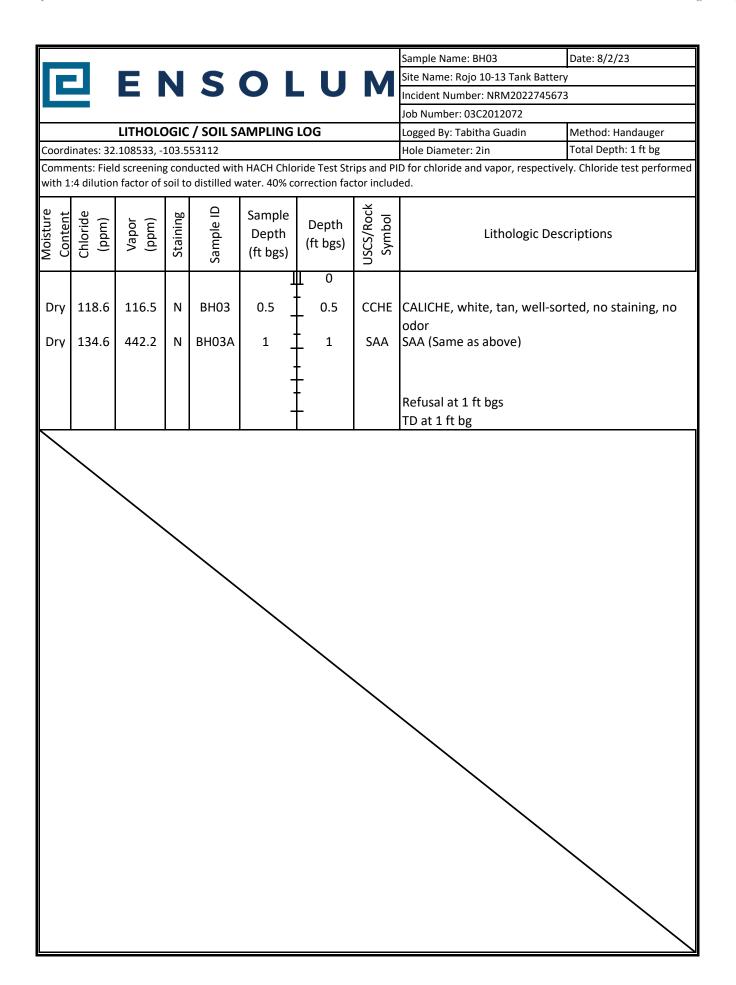
Lithologic Soil Sampling Logs



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

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
					1	0		
Dry	257	0.9	N	BH01	_	0.5	SP	SAND, brown, poorly sorted, no odor, no staining
Dry	132.6	244.7	N	BH01A	1 _	1	SP	SAND, red, brown, poorly sorted, no odor, no staining
Dry	102.5	347.8	N	BH01B	- - -	- - 2	SP	SAA
Dry	207.7	417.3	N	BH01C	3 - -	- - 3 -	SP	SAA
					- -	- -		Refusal @ 3 feet bgs TD at 3 ft bgs

#### Date: 8/1/23 Sample Name: BH02 ENSOLUM Site Name: Rojo 10-13 Tank Battery Incident Number: NRM2022745673 Job Number: 03C2012072 LITHOLOGIC / SOIL SAMPLING LOG Logged By: Tabitha Guadin Method: Handauger Total Depth: 4 ft bgs Coordinates: 32.108472, -103.553105 Hole Diameter: 2in Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included. Sample ID USCS/Rock Chloride Staining Content Sample Symbol Vapor (ppm) Depth Depth Lithologic Descriptions (ft bgs) (ft bgs) 0 429.5 0.4 **BH02** Dry Ν 0.5 CCHE Caliche, sand, gray, brown, no staining, no odor Moist 461.5 201.3 BH02A 1 SW SAND, reddish brown, well sorted, no staining, no odor 2 Moist 428.2 273.8 BH02B SP SAND, reddish brown, poorly sorted, no staining, Ν no odor SP Moist 572.4 142.2 Ν BH02C 3 SAA Moist 875 108.7 BH02D 4 SW Caliche, sand, white, gray, brown, well sorted, Ν no staining, no odor TD at 4 ft bgs



								Sample Name: BH04	Date: 8/2/23
		= N		S	O L	IJ	M	Site Name: Rojo 10-13 Tank Batt	
	•							Incident Number: NRM20227456	573
				105:: -				Job Number: 03C2012072	Γ.
					MPLING L	.OG		Logged By: Tabitha Guadin	Method: Handauger
		8467, -10			14611611	I T 1611	LDID	Hole Diameter: 2in	Total Depth: 4 ft bgs
					er. 40% corr			for chloride and vapor, respective	iy. Chloride test performed
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic De	escriptions
					1	0			
Moist	312.8	272.3	N	BH04	0.5	0.5	SW	SAND, brown, well sorted,	no staining, no odor
Moist	298.1	241	Ν	BH04A	- - -	1	SAA	SAA no staining	
Moist	232	285.2	N	вно4в	- - -	2	SW	SAND, reddish-brown, whi staining, no odor	te, well-sorted, no
Moist	322.5	432.4	N	вно4С	3 _	3	SW	SAND, caliche, well sorted, brown, white	no staining, no odor,
					- - -	<del>-</del> -		Refusal at 3 ft bgs TD at 3 ft bgs	
			_						

### Date: 8/2/23 Sample Name: BH05 ENSOLUM Site Name: Rojo 10-13 Tank Battery Incident Number: NRM2022745673 Job Number: 03C2012072 LITHOLOGIC / SOIL SAMPLING LOG Logged By: Tabitha Guadin Method: Handauger Coordinates: 32.108493, -103.552700 Total Depth: 1 ft bg Hole Diameter: 2in Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included. USCS/Rock Sample ID Chloride Content Sample Symbol Vapor (ppm) (mdd) Depth Depth **Lithologic Descriptions** (ft bgs) (ft bgs) 0 Dry 79.5 19.4 Ν **BH05** 0.5 0.5 SP SAND, light brown, poorly sorted, no staining, no Dry 109 35.3 Ν BH05A 1 1 SW SAND, light brown, rocky, well sorted, no staining, no odor Refusal @ 1 ft bgs TD at 1 ft bg



APPENDIX C

Photographic Log



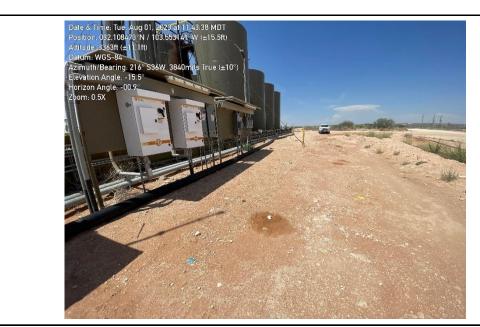
#### **Photographic Log**

BTA Oil Producers Rojo 10-13 Tank Battery Incident Number NRM2022745673



Photograph 1 Date: August 1, 2023

Description: View of release extent during delineation activities, facing east.



Photograph 1 Date: August 1, 2023

Description: View of release extent during delineation activities, facing west.



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



August 09, 2023

HADLIE GREEN

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: ROJO 7811 27 FEDERAL COM 13H

Enclosed are the results of analyses for samples received by the laboratory on 08/02/23 15:25.

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

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

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

Celey D. Keene

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



#### Analytical Results For:

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

Received: 08/02/2023 Reported: 08/09/2023

ROJO 7811 27 FEDERAL COM 13H

Project Name: Project Number: 03C2012045

Project Location: BTA Sampling Date: 08/01/2023

Sampling Type: Soil

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

Sample ID: BH 01 A 1' (H234093-01)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	08/08/2023	ND	2.08	104	2.00	2.45	
Toluene*	<0.050	0.050	08/08/2023	ND	1.99	99.7	2.00	2.50	
Ethylbenzene*	<0.050	0.050	08/08/2023	ND	2.02	101	2.00	1.57	
Total Xylenes*	<0.150	0.150	08/08/2023	ND	6.06	101	6.00	1.70	
Total BTEX	<0.275	0.275	08/08/2023	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	08/07/2023	ND	432	108	400	0.00	
TPH TX1005	mg/	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C12	<25.0	25.0	08/07/2023	ND	165	82.4	200	5.29	
DRO >C12-C28	<25.0	25.0	08/07/2023	ND	151	75.5	200	6.43	
DRO >C28-C35	<25.0	25.0	08/07/2023	ND					
Total TPH C6-C35*	<25.0	25.0	08/07/2023	ND	317	79.2	400	5.80	
Surrogate: 1-Chlorooctane	83.8	% 44.9-13	4						
Surrogate: 1-Chlorooctadecane	84.8	% 41.4-16	1						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



#### Analytical Results For:

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

Received: 08/02/2023 Sampling Date: 08/01/2023

Reported: 08/09/2023 Sampling Type: Soil

Project Name: ROJO 7811 27 FEDERAL COM 13H Sampling Condition: Cool & Intact 03C2012045 Sample Received By: Tamara Oldaker Project Number:

Project Location: BTA

#### Sample ID: BH 01 C 3' (H234093-02)

BTEX 8021B	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	08/08/2023	ND	2.08	104	2.00	2.45	
Toluene*	<0.050	0.050	08/08/2023	ND	1.99	99.7	2.00	2.50	
Ethylbenzene*	< 0.050	0.050	08/08/2023	ND	2.02	101	2.00	1.57	
Total Xylenes*	<0.150	0.150	08/08/2023	ND	6.06	101	6.00	1.70	
Total BTEX	<0.275	0.275	08/08/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104% 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	08/07/2023	ND	432	108	400	0.00	
TPH TX1005	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C12	<25.0	25.0	08/07/2023	ND	154	77.2	200	1.31	
DRO >C12-C28	<25.0	25.0	08/07/2023	ND	174	87.1	200	2.17	
DRO >C28-C35	<25.0	25.0	08/07/2023	ND					
Total TPH C6-C35*	<25.0	25.0	08/07/2023	ND	331	82.8	400	1.74	
Surrogate: 1-Chlorooctane	95.0 9	% 44.9-13	4						
Surrogate: 1-Chlorooctadecane	104 %	6 41.4-16	1						

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Celey D. Keine



#### Analytical Results For:

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

Received: 08/02/2023 Sampling Date: 08/01/2023

Reported: 08/09/2023 Sampling Type: Soil

Project Name: ROJO 7811 27 FEDERAL COM 13H Sampling Condition: Cool & Intact
Project Number: 03C2012045 Sample Received By: Tamara Oldaker

Project Location: BTA

#### Sample ID: BH 02 A 1' (H234093-03)

BTEX 8021B	mg/kg		Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	08/08/2023	ND	2.08	104	2.00	2.45	
Toluene*	<0.050	0.050	08/08/2023	ND	1.99	99.7	2.00	2.50	
Ethylbenzene*	<0.050	0.050	08/08/2023	ND	2.02	101	2.00	1.57	
Total Xylenes*	<0.150	0.150	08/08/2023	ND	6.06	101	6.00	1.70	
Total BTEX	<0.275	0.275	08/08/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 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	08/07/2023	ND	432	108	400	0.00	
TPH TX1005	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C12	<25.0	25.0	08/07/2023	ND	154	77.2	200	1.31	
DRO >C12-C28	<25.0	25.0	08/07/2023	ND	174	87.1	200	2.17	
DRO >C28-C35	<25.0	25.0	08/07/2023	ND					
Total TPH C6-C35*	<25.0	25.0	08/07/2023	ND	331	82.8	400	1.74	
Surrogate: 1-Chlorooctane	101	% 44.9-13	4						
Surrogate: 1-Chlorooctadecane	110	% 41.4-16	1						

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Celey D. Keine



#### Analytical Results For:

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

Received: 08/02/2023 Sampling Date: 08/01/2023

Reported: 08/09/2023 Sampling Type: Soil

Project Name: ROJO 7811 27 FEDERAL COM 13H Sampling Condition: Cool & Intact
Project Number: 03C2012045 Sample Received By: Tamara Oldaker

Project Location: BTA

#### Sample ID: BH 02 D 4' (H234093-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	08/08/2023	ND	2.08	104	2.00	2.45	
Toluene*	<0.050	0.050	08/08/2023	ND	1.99	99.7	2.00	2.50	
Ethylbenzene*	<0.050	0.050	08/08/2023	ND	2.02	101	2.00	1.57	
Total Xylenes*	<0.150	0.150	08/08/2023	ND	6.06	101	6.00	1.70	
Total BTEX	<0.275	0.275	08/08/2023	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	320	16.0	08/07/2023	ND	432	108	400	0.00	
TPH TX1005	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C12	<25.0	25.0	08/07/2023	ND	154	77.2	200	1.31	
DRO >C12-C28	<25.0	25.0	08/07/2023	ND	174	87.1	200	2.17	
DRO >C28-C35	<25.0	25.0	08/07/2023	ND					
Total TPH C6-C35*	<25.0	25.0	08/07/2023	ND	331	82.8	400	1.74	
Surrogate: 1-Chlorooctane	94.1	% 44.9-13	4						
Surrogate: 1-Chlorooctadecane	99.9	% 41.4-16	1						

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Celey D. Keine



#### Analytical Results For:

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

Received: 08/02/2023 Sampling Date: 08/02/2023

Reported: 08/09/2023 Sampling Type: Soil

Project Name: ROJO 7811 27 FEDERAL COM 13H Sampling Condition: Cool & Intact
Project Number: 03C2012045 Sample Received By: Tamara Oldaker

Project Location: BTA

#### Sample ID: BH 03 .5' (H234093-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	08/08/2023	ND	2.08	104	2.00	2.45	
Toluene*	<0.050	0.050	08/08/2023	ND	1.99	99.7	2.00	2.50	
Ethylbenzene*	<0.050	0.050	08/08/2023	ND	2.02	101	2.00	1.57	
Total Xylenes*	<0.150	0.150	08/08/2023	ND	6.06	101	6.00	1.70	
Total BTEX	<0.275	0.275	08/08/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.5	% 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	08/07/2023	ND	432	108	400	0.00	
TPH TX1005	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C12	<25.0	25.0	08/07/2023	ND	154	77.2	200	1.31	
DRO >C12-C28	<25.0	25.0	08/07/2023	ND	174	87.1	200	2.17	
DRO >C28-C35	<25.0	25.0	08/07/2023	ND					
Total TPH C6-C35*	<25.0	25.0	08/07/2023	ND	331	82.8	400	1.74	
Surrogate: 1-Chlorooctane	96.8	% 44.9-13	4						
Surrogate: 1-Chlorooctadecane	105 9	% 41.4-16	1						

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Celey D. Keine



08/02/2023

#### Analytical Results For:

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

Received: 08/02/2023 Sampling Date:

Reported: 08/09/2023 Sampling Type: Soil

Project Name: ROJO 7811 27 FEDERAL COM 13H Sampling Condition: Cool & Intact
Project Number: 03C2012045 Sample Received By: Tamara Oldaker

Project Location: BTA

#### Sample ID: BH 03 A 1' (H234093-06)

BTEX 8021B	mg,	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	08/08/2023	ND	2.08	104	2.00	2.45	
Toluene*	<0.050	0.050	08/08/2023	ND	1.99	99.7	2.00	2.50	
Ethylbenzene*	<0.050	0.050	08/08/2023	ND	2.02	101	2.00	1.57	
Total Xylenes*	<0.150	0.150	08/08/2023	ND	6.06	101	6.00	1.70	
Total BTEX	<0.275	0.275	08/08/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 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	08/07/2023	ND	432	108	400	0.00	
TPH TX1005	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C12	<25.0	25.0	08/07/2023	ND	154	77.2	200	1.31	
DRO >C12-C28	<25.0	25.0	08/07/2023	ND	174	87.1	200	2.17	
DRO >C28-C35	<25.0	25.0	08/07/2023	ND					
Total TPH C6-C35*	<25.0	25.0	08/07/2023	ND	331	82.8	400	1.74	
Surrogate: 1-Chlorooctane	91.1	% 44.9-13	4						
Surrogate: 1-Chlorooctadecane	101	% 41.4-16	1						

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Celey D. Keine



#### Analytical Results For:

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

Received: 08/02/2023 Reported: 08/09/2023

Project Name: ROJO 7811 27 FEDERAL COM 13H

Project Number: 03C2012045

Project Location: BTA Sampling Date: 08/02/2023

Sampling Type: Soil

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

#### Sample ID: BH 04 .5' (H234093-07)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	08/08/2023	ND	2.08	104	2.00	2.45	
Toluene*	<0.050	0.050	08/08/2023	ND	1.99	99.7	2.00	2.50	
Ethylbenzene*	<0.050	0.050	08/08/2023	ND	2.02	101	2.00	1.57	
Total Xylenes*	<0.150	0.150	08/08/2023	ND	6.06	101	6.00	1.70	
Total BTEX	<0.275	0.275	08/08/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	6 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	96.0	16.0	08/07/2023	ND	432	108	400	0.00	
TPH TX1005	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C12	<25.0	25.0	08/07/2023	ND	154	77.2	200	1.31	
DRO >C12-C28	<25.0	25.0	08/07/2023	ND	174	87.1	200	2.17	
DRO >C28-C35	<25.0	25.0	08/07/2023	ND					
Total TPH C6-C35*	<25.0	25.0	08/07/2023	ND	331	82.8	400	1.74	
Surrogate: 1-Chlorooctane	89.3	% 44.9-13	4						
Surrogate: 1-Chlorooctadecane	95.5	% 41.4-16	1						

#### Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



#### Analytical Results For:

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

Received: 08/02/2023 Sampling Date: 08/02/2023

Reported: 08/09/2023 Sampling Type: Soil

Project Name: ROJO 7811 27 FEDERAL COM 13H Sampling Condition: Cool & Intact 03C2012045 Sample Received By: Tamara Oldaker Project Number:

Project Location: BTA

#### Sample ID: BH 04 C 3' (H234093-08)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	08/08/2023	ND	2.08	104	2.00	2.45	
Toluene*	<0.050	0.050	08/08/2023	ND	1.99	99.7	2.00	2.50	
Ethylbenzene*	<0.050	0.050	08/08/2023	ND	2.02	101	2.00	1.57	
Total Xylenes*	<0.150	0.150	08/08/2023	ND	6.06	101	6.00	1.70	
Total BTEX	<0.275	0.275	08/08/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 %	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	48.0	16.0	08/07/2023	ND	432	108	400	0.00	
TPH TX1005	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C12	<25.0	25.0	08/07/2023	ND	154	77.2	200	1.31	
DRO >C12-C28	<25.0	25.0	08/07/2023	ND	174	87.1	200	2.17	
DRO >C28-C35	<25.0	25.0	08/07/2023	ND					
Total TPH C6-C35*	<25.0	25.0	08/07/2023	ND	331	82.8	400	1.74	
Surrogate: 1-Chlorooctane	98.6	6 44.9-13	4						
Surrogate: 1-Chlorooctadecane	106 %	6 41.4-16	1						

\*=Accredited Analyte

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# Analytical Results For:

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

Received: 08/02/2023 Reported:

08/09/2023

Project Name: ROJO 7811 27 FEDERAL COM 13H 03C2012045 Project Number:

Project Location: BTA Sampling Date: 08/02/2023

Sampling Type: Soil

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

# Sample ID: BH 05 .5' (H234093-09)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	08/08/2023	ND	2.08	104	2.00	2.45	
Toluene*	<0.050	0.050	08/08/2023	ND	1.99	99.7	2.00	2.50	
Ethylbenzene*	< 0.050	0.050	08/08/2023	ND	2.02	101	2.00	1.57	
Total Xylenes*	<0.150	0.150	08/08/2023	ND	6.06	101	6.00	1.70	
Total BTEX	<0.275	0.275	08/08/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 %	6 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	08/07/2023	ND	432	108	400	0.00	
TPH TX1005	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C12	<25.0	25.0	08/07/2023	ND	154	77.2	200	1.31	
DRO >C12-C28	<25.0	25.0	08/07/2023	ND	174	87.1	200	2.17	
DRO >C28-C35	<25.0	25.0	08/07/2023	ND					
Total TPH C6-C35*	<25.0	25.0	08/07/2023	ND	331	82.8	400	1.74	
Surrogate: 1-Chlorooctane	93.3 9	% 44.9-13	4						
Surrogate: 1-Chlorooctadecane	99.4 9	% 41.4-16	1						

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Celey D. Keene



# Analytical Results For:

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

Received: 08/02/2023 Sampling Date: 08/02/2023

Reported: 08/09/2023 Sampling Type: Soil

Project Name: ROJO 7811 27 FEDERAL COM 13H Sampling Condition: Cool & Intact
Project Number: 03C2012045 Sample Received By: Tamara Oldaker

Project Location: BTA

# Sample ID: BH 05 A 1' (H234093-10)

BTEX 8021B	mg	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	08/08/2023	ND	2.08	104	2.00	2.45	
Toluene*	<0.050	0.050	08/08/2023	ND	1.99	99.7	2.00	2.50	
Ethylbenzene*	<0.050	0.050	08/08/2023	ND	2.02	101	2.00	1.57	
Total Xylenes*	<0.150	0.150	08/08/2023	ND	6.06	101	6.00	1.70	
Total BTEX	<0.275	0.275	08/08/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/07/2023	ND	432	108	400	0.00	
TPH TX1005	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C12	<25.0	25.0	08/07/2023	ND	154	77.2	200	1.31	
DRO >C12-C28	<25.0	25.0	08/07/2023	ND	174	87.1	200	2.17	
DRO >C28-C35	<25.0	25.0	08/07/2023	ND					
Total TPH C6-C35*	<25.0	25.0	08/07/2023	ND	331	82.8	400	1.74	
Surrogate: 1-Chlorooctane	101	% 44.9-13	4						
Surrogate: 1-Chlorooctadecane	108	% 41.4-16	1						

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### **Notes and Definitions**

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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Celey D. Keene

† 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

Company Name:	11.000 (0.0)						
Broight Manager Ensolum, LLC	LLC		BILL TO			ANALYSIS REQUEST	
1	Green		P.O. #:		12/		-
S			Company: BTA OI		2 5		
	State: TX	Zip: 79701	Attn: Kelton Be	Beaird	00		_
Fnone #: 456-55 1-8	1-8015 Fax #:	P	Address: 104 S Pecos	05 54	15		_
Project #: 03 < 20 \ 20 4 S	Project Owner:	0			4		
Project Name: Rojo 7611	27 Federal Com	1311	State: +¥ Zip: 1970	701	<del>, ()</del>	7	
Project Location:		70	#:		0	- All	
Sampler Name: Tabitha	Guadian	n	Fax #:	2	36	(	
FOR LAB USE ONLY		MATRIX	SERV.	SAMPLING			
Lab I.D. Sample I.D.	I.D. Sample Depth (feet)	CONTAINERS ROUNDWATER VASTEWATER OIL IL LUDGE THER:	CID/BASE: E / COOL THER :	BTEX	Chloride		
/ ISHOIA	1 6	_ ;	10	1213 X X	X	1	
2 BHOIC	3 6	- ×	8/1/23	1217 X X	*		
	1 6	- ×	8/1/23	1345 X X	×		
A SHOLD	4	- ×	8/1/23	X X 0011	×		1
O 75HO 3	. 5	- ×	8/4/13	NSO XX	X		Y
TOHO TO	G	X	81713	X X S311	×		1
	.5	~	8/2/13	1700 X X	*		V
O POHO &	3		8773	X X 512	×		
DIX	15 6	- ×	81713	1270 × X	X		
PLEASE NOTE: Liability and Damages, Cardinal's lia	billy and client's evolution remarks for the	×	8/7/73	XX XX	×		
analyses. All claims including those for negligance and any other causes interrupt for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, policients or successor arising out of or related to the non-formation.	id any other cause whatsoever shall be deemed take or consequental damages, including without sectors are a sector sectors.	m assang whether based in contract or tort, shall be limited to the amount paid by the client of whited unless make in writing and received by Cardinal within 30 days after completed of limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidier	shall be limited to the amount paid a wed by Cardinal within 30 days after o use, or loss of profits incurred by clies	y the client for the ompletion of the applicable nt, its subsidiaries,			
Relinquished By:	Date: 723 Re	Received By:	ed upon any of the above stated reason	Verbal Result:  Yes	s □ No Add'l	Add'l Phone #:	
Relinquished By:	Date: Re	Received By:	Marky	BJennings@ensolum.com / h green @ ensol	com / h greer	horeen le ensolum, com	
Delivered By: Circle Cont	Time:		9	5 day TAT			
Sampler - UPS - Bus - Other:	Corrected Temp. °C	Mag Co	CHECKED BY: T	ime:	Standard Rush	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C	റ്
FURM-008 R 3.2 10/07/21	+ Cardinal canno	Cardinal cannot accept worked change	7 - 0	Correction Factor 46°C	10. 8/2/23	No No Corrected Temp. °C	ငိ

Page 13 of 13



August 09, 2023

HADLIE GREEN

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: ROJO 7811 27 FEDERAL COM 13H

Enclosed are the results of analyses for samples received by the laboratory on 08/02/23 15:25.

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

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

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

Celey D. Keene

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



# Analytical Results For:

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

Received: 08/02/2023 Reported: 08/09/2023

Project Name: ROJO 7811 27 FEDERAL COM 13H

Project Number: 03C2012045

Project Location: BTA

Sampling Date: 08/02/2023

Sampling Type: Soil

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

Sample ID: SS 01 .5' (H234094-01)

DTEV 0021D

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	08/08/2023	ND	2.08	104	2.00	2.45	
Toluene*	<0.050	0.050	08/08/2023	ND	1.99	99.7	2.00	2.50	
Ethylbenzene*	<0.050	0.050	08/08/2023	ND	2.02	101	2.00	1.57	
Total Xylenes*	<0.150	0.150	08/08/2023	ND	6.06	101	6.00	1.70	
Total BTEX	<0.275	0.275	08/08/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	14						
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	08/07/2023	ND	432	108	400	0.00	
TPH TX1005	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C12	<25.0	25.0	08/08/2023	ND	154	77.2	200	1.31	
DRO >C12-C28	<25.0	25.0	08/08/2023	ND	174	87.1	200	2.17	
DRO >C28-C35	<25.0	25.0	08/08/2023	ND					
Total TPH C6-C35*	<25.0	25.0	08/08/2023	ND	331	82.8	400	1.74	
Surrogate: 1-Chlorooctane	109	% 44.9-13	34						
Surrogate: 1-Chlorooctadecane	117	% 41.4-16	51						

Analyzed By MC

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Celey D. Keine



# Analytical Results For:

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

Received: 08/02/2023 Sampling Date: 08/02/2023

Reported: 08/09/2023 Sampling Type: Soil

Project Name: ROJO 7811 27 FEDERAL COM 13H Sampling Condition: Cool & Intact 03C2012045 Sample Received By: Project Number: Tamara Oldaker

Project Location: BTA

# Sample ID: SS 02 .5' (H234094-02)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	08/08/2023	ND	2.08	104	2.00	2.45	
Toluene*	<0.050	0.050	08/08/2023	ND	1.99	99.7	2.00	2.50	
Ethylbenzene*	<0.050	0.050	08/08/2023	ND	2.02	101	2.00	1.57	
Total Xylenes*	<0.150	0.150	08/08/2023	ND	6.06	101	6.00	1.70	
Total BTEX	<0.275	0.275	08/08/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/07/2023	ND	432	108	400	0.00	
TPH TX1005	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C12	<25.0	25.0	08/08/2023	ND	154	77.2	200	1.31	
DRO >C12-C28	<25.0	25.0	08/08/2023	ND	174	87.1	200	2.17	
DRO >C28-C35	<25.0	25.0	08/08/2023	ND					
Total TPH C6-C35*	<25.0	25.0	08/08/2023	ND	331	82.8	400	1.74	
Surrogate: 1-Chlorooctane	99.2	% 44.9-13	4						
Surrogate: 1-Chlorooctadecane	105	% 41.4-16	1						

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# Analytical Results For:

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

Received: 08/02/2023 Reported: 08/09/2023

Project Name: ROJO 7811 27 FEDERAL COM 13H

03C2012045 Project Number:

Project Location: BTA Sampling Date: 08/02/2023

Sampling Type: Soil

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

## Sample ID: SS 03 .5' (H234094-03)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	08/08/2023	ND	2.08	104	2.00	2.45	
Toluene*	<0.050	0.050	08/08/2023	ND	1.99	99.7	2.00	2.50	
Ethylbenzene*	<0.050	0.050	08/08/2023	ND	2.02	101	2.00	1.57	
Total Xylenes*	<0.150	0.150	08/08/2023	ND	6.06	101	6.00	1.70	
Total BTEX	<0.275	0.275	08/08/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/07/2023	ND	432	108	400	0.00	
TPH TX1005	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C12	<25.0	25.0	08/08/2023	ND	154	77.2	200	1.31	
DRO >C12-C28	<25.0	25.0	08/08/2023	ND	174	87.1	200	2.17	
DRO >C28-C35	<25.0	25.0	08/08/2023	ND					
Total TPH C6-C35*	<25.0	25.0	08/08/2023	ND	331	82.8	400	1.74	
Surrogate: 1-Chlorooctane	97.9	% 44.9-13	4						
Surrogate: 1-Chlorooctadecane	106	% 41.4-16	1						

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# Analytical Results For:

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

Received: 08/02/2023 Reported: 08/09/2023

Project Name: ROJO 7811 27 FEDERAL COM 13H

03C2012045 Project Number:

Project Location: BTA Sampling Date: 08/02/2023

Sampling Type:

Sampling Condition: Cool & Intact

Sample Received By: Tamara Oldaker

Soil

# Sample ID: SS 04 .5' (H234094-04)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	08/08/2023	ND	2.08	104	2.00	2.45	
Toluene*	<0.050	0.050	08/08/2023	ND	1.99	99.7	2.00	2.50	
Ethylbenzene*	<0.050	0.050	08/08/2023	ND	2.02	101	2.00	1.57	
Total Xylenes*	<0.150	0.150	08/08/2023	ND	6.06	101	6.00	1.70	
Total BTEX	<0.275	0.275	08/08/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 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	08/08/2023	ND	432	108	400	0.00	
TPH TX1005	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C12	<25.0	25.0	08/08/2023	ND	154	77.2	200	1.31	
DRO >C12-C28	<25.0	25.0	08/08/2023	ND	174	87.1	200	2.17	
DRO >C28-C35	<25.0	25.0	08/08/2023	ND					
Total TPH C6-C35*	<25.0	25.0	08/08/2023	ND	331	82.8	400	1.74	
Surrogate: 1-Chlorooctane	103	% 44.9-13	4						
Surrogate: 1-Chlorooctadecane	112 9	% 41.4-16	1						

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\*=Accredited Analyte

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Celey D. Keene



# Analytical Results For:

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

Received: 08/02/2023 Sampling Date: 08/02/2023

Reported: 08/09/2023 Sampling Type: Soil

Project Name: ROJO 7811 27 FEDERAL COM 13H Sampling Condition: Cool & Intact Project Number: 03C2012045 Sample Received By: Tamara Oldaker

Project Location: BTA

# Sample ID: SS 05 .5' (H234094-05)

BTEX 8021B	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	08/08/2023	ND	2.20	110	2.00	1.05	
Toluene*	<0.050	0.050	08/08/2023	ND	2.10	105	2.00	1.54	
Ethylbenzene*	<0.050	0.050	08/08/2023	ND	1.98	99.2	2.00	1.76	
Total Xylenes*	<0.150	0.150	08/08/2023	ND	5.94	99.0	6.00	2.36	
Total BTEX	<0.275	0.275	08/08/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.0	% 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	08/08/2023	ND	432	108	400	0.00	
TPH TX1005	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C12	<25.0	25.0	08/08/2023	ND	154	77.2	200	1.31	
DRO >C12-C28	<25.0	25.0	08/08/2023	ND	174	87.1	200	2.17	
DRO >C28-C35	<25.0	25.0	08/08/2023	ND					
Total TPH C6-C35*	<25.0	25.0	08/08/2023	ND	331	82.8	400	1.74	
Surrogate: 1-Chlorooctane	101	% 44.9-13	4						
Surrogate: 1-Chlorooctadecane	109	% 41.4-16	1						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Received: 08/02/2023 Reported: 08/09/2023

Project Name: ROJO 7811 27 FEDERAL COM 13H

03C2012045 Project Number:

Project Location: BTA Sampling Date: 08/02/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By:

Tamara Oldaker

# Sample ID: SS 06 .5' (H234094-06)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	08/08/2023	ND	2.20	110	2.00	1.05	
Toluene*	<0.050	0.050	08/08/2023	ND	2.10	105	2.00	1.54	
Ethylbenzene*	<0.050	0.050	08/08/2023	ND	1.98	99.2	2.00	1.76	
Total Xylenes*	<0.150	0.150	08/08/2023	ND	5.94	99.0	6.00	2.36	
Total BTEX	<0.275	0.275	08/08/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.4	% 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	08/08/2023	ND	432	108	400	0.00	
TPH TX1005	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C12	<25.0	25.0	08/08/2023	ND	154	77.2	200	1.31	
DRO >C12-C28	<25.0	25.0	08/08/2023	ND	174	87.1	200	2.17	
DRO >C28-C35	<25.0	25.0	08/08/2023	ND					
Total TPH C6-C35*	<25.0	25.0	08/08/2023	ND	331	82.8	400	1.74	
Surrogate: 1-Chlorooctane	107	% 44.9-13	4						
Surrogate: 1-Chlorooctadecane	115	% 41.4-16	1						

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Celey D. Keene



# Analytical Results For:

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

Received: 08/02/2023 Sampling Date: 08/02/2023

Reported: 08/09/2023 Sampling Type: Soil

Project Name: ROJO 7811 27 FEDERAL COM 13H Sampling Condition: Cool & Intact
Project Number: 03C2012045 Sample Received By: Tamara Oldaker

Project Location: BTA

# Sample ID: SS 07 .5' (H234094-07)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	08/08/2023	ND	2.20	110	2.00	1.05	
Toluene*	<0.050	0.050	08/08/2023	ND	2.10	105	2.00	1.54	
Ethylbenzene*	<0.050	0.050	08/08/2023	ND	1.98	99.2	2.00	1.76	
Total Xylenes*	<0.150	0.150	08/08/2023	ND	5.94	99.0	6.00	2.36	
Total BTEX	<0.275	0.275	08/08/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.5	% 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	<16.0	16.0	08/08/2023	ND	432	108	400	0.00	
TPH TX1005	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C12	<25.0	25.0	08/08/2023	ND	154	77.2	200	1.31	
DRO >C12-C28	<25.0	25.0	08/08/2023	ND	174	87.1	200	2.17	
DRO >C28-C35	<25.0	25.0	08/08/2023	ND					
Total TPH C6-C35*	<25.0	25.0	08/08/2023	ND	331	82.8	400	1.74	
Surrogate: 1-Chlorooctane	105	% 44.9-13	4						
Surrogate: 1-Chlorooctadecane	113 9	% 41.4-16	1						

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Celey D. Keine



### **Notes and Definitions**

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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Celey D. Keine

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

Company Name:	(212)	1 200 (010) 000 -	410					
Company many	Ensolum, LLC			BILL TO	,	23	ANALYSIS REQUEST	
Project Manager:	Hadlie Gween	5		P.O. #:		19:		
Address: 601 N	601 N. Marienfeld St. STE 400	E 400		Company: BTA 0		0		
City: Midland		State: TX	Zip: 79701	Attn: Kelton Bear	BIVA	50		_
Phone #: 432-	557-889	Fax #:		s: 104 S	15 50)	43		
Project #: 03C 201204	2012045	Project Owner:	ā	city: Midland		٥.		
Project Name: (Co)	jo 7811 27	Produced Co	HE1 ma	12 7.T.:	770	0 (		_
Project Location:				*		20		
Sampler Name:	Tabitha Gu	radian		Fax #:	21			
FOR LAB USE ONLY			MATRIX	PRESERV. SAI	SAMPLING	05		
Lab I.D.	Sample I.D.	Sample Depth (feet)	G)RAB OR (C)OM CONTAINERS ROUNDWATER 'ASTEWATER DIL IL LUDGE	THER: CID/BASE: E / COOL THER:		TPH 10 Chlorid		
	3861	5.	- ×	89	0	K		
رف	8502	in	6 1 ×	8/2/23	0456 ×	X		
CU	5503	. 5	6 1 X	8/1/13		×		
74	2055	N.	× ×	81713	1006 X	××		
e	SSOLO	. 5	6. ( ×	84113	1016 X	7		
7	5507	in	X 1 9	81113	1072 K	X		
	NE			8/2/23				5
ALEASE NOTE: Labilly and Damages, Cardina's labilly and cis analyses. All claims including those for negligence and any other service. In no event shall Cardina be liable for incidental or conses affiliates or successors arising out of or related to the performance	images. Cardinal's liability and ose for negligence and any offi at be liable for incidental or cor t of or related to the performan	client's exclusive remedy for any er cause whatsoever shall be de sequental damages, including w see of services hereunder by Car	claim arsing emed waived athout limited dinat, regard	y whether based in contract or tort, shall be limited to the amount po- variess made in writing and received by Cardinal within 30 days aft onc, business interruptions, loss of use, or loss of profits incurred by less of whether such claim is based upon any of the above stated in	aid by the client for the er completion of the applicat client, its subsidiaries, easons or otherwise.	ie		
Relinquished By:	1.	Time: 75215	Received By:	Milde	Verbal Result:   All Results are emailed. Ple  BJennings@ensolum.com	☐ Yes ☐ No nailed. Please prov solum.com / No	Verbal Result:	
Relinquished By:		Date: Time:	Received By:		REMARKS:	+	C. Service Co.	
Delivered By: (Circle One)		Observed Tamp, °C	3.7 Sample Condition	CH	Turnaround Time:	Standard	ly) s	ndition
Sampler - UPS - Bus - Other:	1 200	Corrected Temp. °C		Sometiment of the second	Thermometer ID #113 -	R	□ Yes □ Yes	Observed Temp. °C



APPENDIX E

**NMOCD Notifications** 

From: <u>Velez, Nelson, EMNRD</u>

To: <u>Hadlie Green</u>

Cc: <u>Tacoma Morrissey</u>; <u>Aimee Cole</u>; <u>Maxwell</u>, <u>Ashley</u>, <u>EMNRD</u>

Subject: Re: [EXTERNAL] BTA - Sampling Notification Variance - Rojo 10-13 Tank Battery (Incident Number

NRM2022745673)

**Date:** Friday, December 1, 2023 10:02:42 AM

Attachments: <u>image002.png</u>

image003.png image004.png image005.png image006.png image007.png Outlook-z4szomdc.png

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

Hadlie,

After reviewing, I now comprehend and approve your variance request.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

Thanks again and have a safe day!

Regards,

Nelson Velez • Environmental Specialist - Adv Environmental Bureau | EMNRD - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87410 (505) 469-6146 | nelson.velez@emnrd.nm.gov http://www.emnrd.state.nm.us/OCD/



From: Hadlie Green <a href="mailto:hgreen@ensolum.com">hgreen@ensolum.com</a>

Sent: Friday, December 1, 2023 8:49 AM

To: Velez, Nelson, EMNRD < Nelson. Velez@emnrd.nm.gov>

**Cc:** Tacoma Morrissey <tmorrissey@ensolum.com>; Aimee Cole <acole@ensolum.com>; Maxwell, Ashley, EMNRD <Ashley.Maxwell@emnrd.nm.gov>

**Subject:** RE: [EXTERNAL] BTA - Sampling Notification Variance - Rojo 10-13 Tank Battery (Incident

Number NRM2022745673)

Good morning Nelson,

Please see the attached table including the three delineation points within the NRM2022745673 release that occurred in August 2020. Boreholes BH01, BH02, and BH04 are within the release.

Please let me know if you have any questions or need any additional information.

Thank you,



# **Hadlie Green**

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

From: Velez, Nelson, EMNRD < Nelson. Velez@emnrd.nm.gov>

**Sent:** Friday, December 1, 2023 9:44 AM **To:** Hadlie Green <a href="mailto:hgreen@ensolum.com">hgreen@ensolum.com</a>

**Cc:** Tacoma Morrissey <tmorrissey@ensolum.com>; Aimee Cole <acole@ensolum.com>; Maxwell, Ashley, EMNRD <Ashley.Maxwell@emnrd.nm.gov>

**Subject:** Re: [EXTERNAL] BTA - Sampling Notification Variance - Rojo 10-13 Tank Battery (Incident Number NRM2022745673)

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

Good morning Hadlie,

Thank you for your request. Please provide the lab analysis for the three (3) samples collected from the most recent release (NRM2022745673). Once verified, OCD will pronounce its determination toward the variance.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

The OCD requires a copy of all correspondence relative to remedial activities be included in all proposals and/or final closure reports. Correspondence required to be included in reports may include, but not limited to, notifications for liner inspections, sample events, spill/release/fire, and request for time extensions or variances.

Regards,

Nelson Velez • Environmental Specialist - Adv Environmental Bureau | EMNRD - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87410 (505) 469-6146 | nelson.velez@emnrd.nm.gov http://www.emnrd.state.nm.us/OCD/



From: Hadlie Green < <a href="mailto:hgreen@ensolum.com">hgreen@ensolum.com</a>>
Sent: Thursday, November 30, 2023 4:29 PM

**To:** Velez, Nelson, EMNRD < <u>Nelson.Velez@emnrd.nm.gov</u>>

**Cc:** Tacoma Morrissey < tmorrissey@ensolum.com >; Aimee Cole < acole@ensolum.com > **Subject:** [EXTERNAL] BTA - Sampling Notification Variance - Rojo 10-13 Tank Battery (Incident

Number NRM2022745673)

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

Good afternoon Nelson,

I'd like to request a Sampling Notification Variance for a historical incident that occurred on August 12, 2020 at the BTA Oil Producers, LLC (BTA) Rojo 10-13 Tank Battery (Incident Number NRM2022745673: 32.10846, -103.55289). A hammer union on the water transfer line failed, resulting in the release of approximately 40 barrels (bbls) or produced water off pad. There were no free-standing fluids recovered.

Ensolum, on behalf of BTA, completed delineation activities for a separate historical incident that occurred on November 13, 2018 at the BTA Rojo 7811 27 Federal Com 13H (Incident Number NCH1834763224: 32.108100, -103.552960). A diesel transfer pump failed, resulting in the release of approximately 30 bbls of produced water off pad. There were no free-standing fluids recovered. Delineation activities confirmed the absence of impacted soil within the release extent and a Closure Request was submitted to the NMOCD on September 18, 2023 and was approved on September 19, 2023.

Upon further investigation of the Rojo 10-13 Tank Battery (Incident Number NRM2022745673; marked in blue in the below snip) release, we determined that the release extent overlays the NCH1834763224 release extent previously approved and closed. I'd like to submit a Closure Request for the NRM2022745673 release using the same data collected for Incident NCH1834763224. The NMOCD notifications submitted were for the NCH1834763224 release and I would like to request a variance to use these same confirmation samples and notifications for the NRM2022745673 release.

Please let me know if you have any questions or need any additional information.



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	NRM2022745673
District RP	
Facility ID	
Application ID	

# **Release Notification**

# Responsible Party

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

# Location of Release Source

Latitude: 32.10846° Longitude: -103.55289°

(NAD 83 in decimal degrees to 5 decimal places)

Site Name:	Rojo 10-1	3 Tank Battery		Site Type: Tank Batte	ery
Date Release	Discovered	: 8/12/2020		API# (if applicable) Nearest API #30-025-44296	t well: Rojo 7811 27 Federal Com #13H
Unit Letter	Section	Township	Range	County	
ВА	27	25S	33E	Lea	NOT ACCEPTED
Surface Owner: State Federal Tribal X Private (Name: KAML Limited  Nature and Volume of Release					

Volume Released (bbls) 40 BBL	Volume Recovered (bbls) <b>0 BBL</b>
Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	⊠ Yes □ No
Volume Released (bbls)	Volume Recovered (bbls)
Volume Released (Mcf)	Volume Recovered (Mcf)
Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
	produced water >10,000 mg/l?  Volume Released (bbls)  Volume Released (Mcf)

A hammer union (located outside of secondary containment) on the water transfer line failed, allowing produced water to be released outside of the secondary containment of the battery. Please note – the field foreman provided an estimate of the volume released as 40 BBL of produced water, no recovery. There has been a delay in getting an aerial photo of the wetted area to use for a calculation as it approaches the end of the 24-hour required notification period. I will make that part of the subsequent report for the assessment and clean-up of the release.

Released to Imaging: 2/28/2024 3:59:42 PM

	- Page 38-01
Incident ID	NRM2022745673
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?  ☐ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release?  The spill volume was greater than 25 BBL, which the NMOCD Rules define as a major release.	
Notice is provided with	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? thin 24hours of discovery by the filing of this C-141 Report and distribution via email to like Bratcher, Robert Hamlet, Victoria Venegas, and Jim Griswold.	
	Initial Response	
The responsible	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury	
<ul><li>☑ The impacted area ha</li><li>☑ Released materials ha</li><li>☑ All free liquids and re</li></ul>	ease has been stopped.  It is been secured to protect human health and the environment.  It is been contained via the use of berms or dikes, absorbent pads, or other containment devices.  It is been contained via the use of berms or dikes, absorbent pads, or other containment devices.  It is been contained via the use of berms or dikes, absorbent pads, or other containment devices.  It is been secured to protect human health and the environment.  It is been contained via the use of berms or dikes, absorbent pads, or other containment devices.  It is been secured to protect human health and the environment.  It is been contained via the use of berms or dikes, absorbent pads, or other containment devices.  It is been contained via the use of berms or dikes, absorbent pads, or other containment devices.  It is been contained via the use of berms or dikes, absorbent pads, or other containment devices.  It is been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
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.	
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 Hal	Title: Environmental Manager	
Signature:	L1klf Date: 8/13/2020	
email: bhall@btaoil.com Telephone: 432-682-3753		
OCD Only		
Received by: Ramon	a Marcus Date: 8/14/2020 NOT ACCEPTED	

	Page 59 of 6	9
Incident ID	NRM2022745673	
District RP		
Facility ID		
Application ID		

# Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>&gt;60</u> (ft bgs)		
Did this release impact groundwater or surface water?	☐ Yes ⊠ No		
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No		
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No		
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No		
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No		
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No		
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No		
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No		
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No		
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No		
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No		
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	☐ Yes ⊠ No		
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.			
Characterization Report Checklist: Each of the following items must be included in the report.			
<ul> <li>Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.</li> <li>Field data</li> <li>Data table of soil contaminant concentration data</li> <li>Depth to water determination</li> <li>Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release</li> <li>Boring or excavation logs</li> <li>Photographs including date and GIS information</li> <li>Topographic/Aerial maps</li> </ul>			

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.

☐ Laboratory data including chain of custody

Received by OCD: 12/14/2023 9:29:44 AM Form C-141 State of New Mexico Page 4 Oil Conservation Division

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Incident ID	NRM2022745673
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.			
Printed Name:Kelton Beaird	Title:Environmental Manager		
Signature:	Date:12/6/2023		
email:KBeaird@btaoil.com	Telephone:432-312-2203		
OCD Only			
Received by:	Date:		

f New Mexico

Incident ID	NRM2022745673
District RP	
Facility ID	
Application ID	

# Closure

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

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

	11 NMAC		
Note: Appropriate OCD District office must be notified 2 days prior to liner inspection)  Note: Appropriate OCD District office must be notified 2 days prior to liner inspection)			
☐ Laboratory analyses of final sampling (Note: appropriate OD	Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)		
Description of remediation activities			
and regulations all operators are required to report and/or file certa may endanger public health or the environment. The acceptance o should their operations have failed to adequately investigate and re human 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		
Printed Name:Kelton Beaird	Title: _Environmental Manager		
Signature:	Date:12/6/2023		
email:KBeaird@btaoil.com	Telephone:432-312-2203		
OCD Only			
Received by:	Date:		
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.			
Closure Approved by:	Date:		
Printed Name:	Title:		

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 294574

# **QUESTIONS**

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	294574
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

### QUESTIONS

Prerequisites	
Incident ID (n#)	nRM2022745673
Incident Name	NRM2022745673 ROJO 10-13 TANK BATTERY @ 30-025-44296
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-44296] ROJO 7811 27 FEDERAL COM #013H

Location of Release Source	
Please answer all the questions in this group.	
Site Name	ROJO 10-13 TANK BATTERY
Date Release Discovered	08/12/2020
Surface Owner	State

Incident Details	
Please answer all the questions in this group.	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	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	Not answered.	
Produced Water Released (bbls) Details	Cause: Equipment Failure   Other (Specify)   Produced Water   Released: 40 BBL   Recovered: 0 BBL   Lost: 40 BBL.	
Is the concentration of chloride in the produced water >10,000 mg/l	Yes	
Condensate Released (bbls) Details	Not answered.	
Natural Gas Vented (Mcf) Details	Not answered.	
Natural Gas Flared (Mcf) Details	Not answered.	
Other Released Details	Not answered.	
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.	

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

QUESTIONS, Page 2

Action 294574

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462		
QUESTIONS (continued)		
Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297 Action Number: 294574 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	
QUESTIONS	, , , , , , , , , , , , , , , , , , , ,	
Nature and Volume of Release (continued)		
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.	
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes	
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.	
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.	e. gas only) are to be submitted on the C-129 form.	
Initial Response		
The responsible party must undertake the following actions immediately unless they could create a s	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.	
	idition immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of evaluation in the follow-up C-141 submission.	
to report and/or file certain release notifications and perform corrective actions for release the OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or	
	Name: BTA ENSOLUM	

Title: Environmental Manager

Email: kbeaird@btaoil.com Date: 12/14/2023

I hereby agree and sign off to the above statement

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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 294574

**QUESTIONS** (continued)

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	294574
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

### QUESTIONS

Site Characterization		
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)	
What method was used to determine the depth to ground water	NM OSE iWaters Database Search	
Did this release impact groundwater or surface water	No	
What is the minimum distance, between the closest lateral extents of the release 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)	Between ½ and 1 (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 ½ and 1 (mi.)	
Any other fresh water well or spring	Between ½ and 1 (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	Between 1 and 5 (mi.)	
Categorize the risk of this well / site being in a karst geology	Low	
A 100-year floodplain	Greater than 5 (mi.)	
Did the release impact areas not on an exploration, development, production, or storage site	No	

Remediation Plan			
Please answer all the questions that apply or are indicated. This information must be	provided to the appropriate district office no later than 90 days after the release discovery date.		
Requesting a remediation plan approval with this submission	Yes		
Attach a comprehensive report demonstrating the lateral and vertical extents of soil co	ontamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.		
Have the lateral and vertical extents of contamination been fully delineate	ed Yes		
Was this release entirely contained within a lined containment area	No		
Soil Contamination Sampling: (Provide the highest observable value for e	each, in milligrams per kilograms.)		
Chloride (EPA 300.0 or SM4500 Cl B)	320		
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0		
GRO+DRO (EPA SW-846 Method 8015M)	0		
BTEX (EPA SW-846 Method 8021B or 8260B)	0		
Benzene (EPA SW-846 Method 8021B or 8260B	0		
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.			
On what estimated date will the remediation commence	08/01/2023		
On what date will (or did) the final sampling or liner inspection occur	08/02/2023		
On what date will (or was) the remediation complete(d)	08/02/2023		
What is the estimated surface area (in square feet) that will be reclaime	d 0		
What is the estimated volume (in cubic yards) that will be reclaimed	0		
What is the estimated surface area (in square feet) that will be remediate	ted 0		
What is the estimated volume (in cubic yards) that will be remediated	0		
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.			
The OCD recognizes that proposed remediation measures may have to be minimally $arepsilon$	adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to		

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

District I

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

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 294574

**QUESTIONS** (continued)

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	294574
	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.)	No	
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No	
(In Situ) Soil Vapor Extraction	No	
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No	
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No	
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No	
Ground Water Abatement pursuant to 19.15.30 NMAC	No	
OTHER (Non-listed remedial process)	Yes	
Other Non-listed Remedial Process. Please specify	Delineation only, no impacted soil identified	

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: 12/14/2023

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

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**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 294574

### **QUESTIONS** (continued)

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	294574
	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.		the following items must be confirmed as part of any request for deferral of remediation.
	Requesting a deferral of the remediation closure due date with the approval of this submission	No

District I

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

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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 294574

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Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	294574
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

### QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	294566
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/01/2023
What was the (estimated) number of samples that were to be gathered	17
What was the sampling surface area in square feet	2389

Remediation Closure Request		
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.		
Requesting a remediation closure approval with this submission	Yes	
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	No	
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes	
What was the total surface area (in square feet) remediated	0	
What was the total volume (cubic yards) remediated	0	
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes	
What was the total surface area (in square feet) reclaimed	0	
What was the total volume (in cubic yards) reclaimed	0	
Summarize any additional remediation activities not included by answers (above)	delineation only; no impacted soil identified	

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: 12/14/2023

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

QUESTIONS, Page 7

Action 294574

**QUESTIONS** (continued)

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	294574
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

### QUESTIONS

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

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

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

CONDITIONS

Action 294574

# **CONDITIONS**

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	294574
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

### CONDITIONS

Created B	y Condition	Condition Date
scwells	None	2/28/2024