

October 19, 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 14-17 Tank Battery

**Incident Number NAPP2106927983** 

Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of BTA Oil Producers, LLC (BTA), has prepared this *Closure Request* to document assessment, delineation, and soil sampling activities performed at the Rojo 14-17 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 resulting from a historical produced water release at the Site. Based on field observations, field screening activities, and soil sample laboratory analytical results, BTA is submitting this *Closure Request*, describing Site assessment and delineation activities that have occurred and requesting closure for Incident Number NAPP2106927983.

### SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit P, Section 22, Township 25 South, Range 33 East, in Lea County, New Mexico (32.11126°, -103.55611°) and is associated with oil and gas exploration and production operations on private land.

On March 3, 2021, a fire tube was pulled from the heater treater for repairs. A check valve failure allowed produced water to flow back into the dismantled treater, resulting in the release of 277 barrels (bbls) of produced water into the unlined containment. A vacuum truck was immediately dispatched to the site and recovered approximately 240 bbls of produced water. BTA reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on March 9, 2021. The release was assigned Incident Number NAPP2106927983.

### SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

Depth to groundwater at the Site is estimated to be between 51 and 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well C-04698, located approximately 2,300 feet southwest of the Site. The groundwater well was drilled during January 2023 to a total depth of 60 feet bgs, and no groundwater was encountered. All wells used for depth to

BTA Oil Producers, LLC Closure Request Rojo 14-17 Tank Battery

groundwater determination are presented on Figure 1. The associated well records are included in Appendix A.

The closest continuously flowing or significant watercourse is greater than 300 feet from the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (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

TPH: 2,500 mg/kg

Chloride: 10,000 mg/kg

### SITE ASSESSMENT ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On August 29, 2023, Ensolum personnel were at the Site to evaluate the historical release area 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. Eight assessment soil samples (SS01 through SS08) were collected within and around the inferred release area, at a depth of approximately 0.5 feet bgs, to assess for the presence or absence of impacted soil resulting from the historical release. The soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. The soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included as Appendix B.

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

Laboratory analytical results for assessment soil samples SS01 through SS04, collected within the inferred release area, indicated all COC concentrations were compliant with the Site Closure Criteria. Laboratory analytical results for assessment samples SS04 through SS08, collected around the inferred release area, were compliant with the most stringent Table I Closure Criteria and successfully defined the lateral extent of the release. Vertical delineation activities were warranted to further confirm the absence of impacted soil within the historical release area.



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

On September 29, 2023, Ensolum personnel returned to the Site to complete vertical delineation activities to confirm the absence of impacted soil within the historical release area. Boreholes were advanced via hydrovac at the location of assessment samples SS01 through SS04. The boreholes were advanced to depths ranging from 2 feet to 4 feet bgs. Soil from the boreholes was field screened at 1-foot intervals for VOCs and chloride. Final depth of the boreholes was determined by field screening results indicating compliance with the most stringent Table I Closure Criteria or refusal (SS01). Field screening results and observations were logged on lithologic/soil sampling logs, which are included in Appendix C. Discrete delineation soil samples SS01A through SS04A were collected from the boreholes at depths ranging from 2 feet to 4 feet bgs. The delineation soil samples were collected, handled, and analyzed following the same procedures previously described. The delineation soil sample locations were mapped utilizing a handheld GPS unit and are depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included in Appendix B.

Laboratory analytical results for delineation soil samples SS01A through SS04A indicated all COC concentrations were compliant with the Site Closure Criteria and provided vertical delineation to below the most stringent Table I Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete analytical reports are included as Appendix D.

### **CLOSURE REQUEST**

Site assessment activities were conducted at the Site to assess for the presence or absence of impacted soil resulting from the March 3, 2021, produced water release. Laboratory analytical results for the assessment soil samples indicated all COC concentrations were compliant with the Site Closure Criteria and provided lateral and vertical delineation to the most stringent Table I Closure Criteria. Based on the laboratory analytical results, no impacted soil was identified, and no further remediation is required.

Initial response efforts and natural attenuation have mitigated impacts at this Site. Depth to groundwater was determined to be greater than 51 feet bgs and no other sensitive receptors were identified near the release extent. BTA believes the remedial actions completed are protective of human health, the environment, and groundwater. As such, BTA respectfully requests closure for Incident Number NAPP2106927983. NMOCD Notifications are included in Appendix E and the final Form C-141 is included in Appendix F.

If you have any questions or comments, please contact Ms. Tacoma Morrissey at (720) 384-7365 or tmorrissey@ensolum.com.

Sincerely, **Ensolum, LLC** 

Run Huse

Ronni Hayes Assistant Geologist

cc: Kelton Beaird, BTA

Aimee Cole

Linée Cole

Senior Managing Scientist



BTA Oil Producers, LLC Closure Request Rojo 14-17 Tank Battery

## Appendices:

Figure 1 Site Receptor Map

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

Appendix B Photographic Log

Appendix C Lithologic/Soil Sampling Logs

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

Appendix E NMOCD Correspondence

Appendix F Form C-141



**FIGURES** 

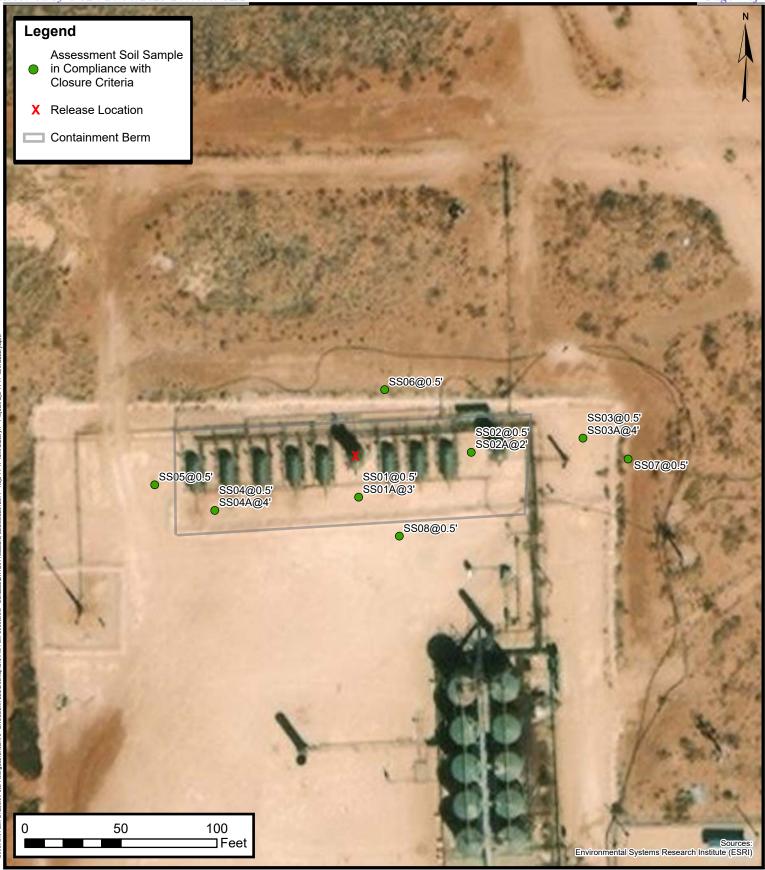


**BTA Oil Producers** Rojo 14-17 Tank Battery

Incident Number: NAPP2106927983

Unit P, Sec 22, T25S R33E Lea County, New Mexico

**FIGURE** 





# **Assessment Soil Sample Locations**

BTA Oil Producers Rojo 14-17 Tank Battery

Incident Number: NAPP2106927983

Unit P, Sec 22, T25S R33E Lea County, New Mexico FIGURE 2



**TABLES** 



### **TABLE I SOIL SAMPLE ANALYTICAL RESULTS** Rojo 14-17 Tank Battery **BTA Oil Producers, LLC** Lea County, New Mexico

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Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I C	losure Criteria (	NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	10,000
				Asse	ssment Soil Sa	mples				
SS01	08/29/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,320
SS01A	09/29/2023	3	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	896
SS02	08/29/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
SS02A	09/29/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SS03	08/29/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS03A	09/29/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SS04	08/29/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SS04A	09/29/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS05	08/29/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SS06	08/29/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS07	08/29/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS08	08/29/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0

### 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

**Ensolum** 1 of 1



**APPENDIX A** 

Referenced Well Records



N	OSE POD NO. (V		.)		WELL TAG ID NO			OSE FILE NO(	S).			54
OCATIC	WELL OWNER BTA OIL PR	Section 18						PHONE (OPTIO 432-682-375				
VELL LO	WELL OWNER 104 S PECOS							CITY MIDLAND		STATE TX	79701	ZIP
GENERAL AND WELL LOCATION	WELL LOCATION (FROM GPS)	1	TITUDE	32 -103	MINUTES 6	SECO1 28 44	.0 N		REQUIRED: ONE TEN	TH OF A S	EECOND	
1. GEN	DESCRIPTION ROJO B 7844		NG WELL LOCATION TO	STREET ADD	PRESS AND COMMO	N LANDM	ARKS – PL	SS (SECTION, TO	WNSHJIP, RANGE) WH	ERE AVA	ILABLE	
	LICENSE NO. WD-112	84	NAME OF LICENSED		ELL SOUTHER	LAND			NAME OF WELL DR WEST TEXAS			RVICE
	DRILLING STA 1/18/202		DRILLING ENDED 1/18/2023	DEPTH OF C	OMPLETED WELL (F 80	T)	BORE HO	LE DEPTH (FT)	DEPTH WATER FIR	ST ENCOU	JNTERED (FT)	
Z	COMPLETED V	VELL IS:	ARTESIAN	DRY HO	DLE SHALLO	OW (UNCO	ONFINED)		STATIC WATER LEV	VEL IN CO N/A		ELL (FT)
OE)	DRILLING FLU	ID:	✓ AIR	☐ MUD	ADDITIV	VES – SPE	CIFY:					
RM	DRILLING MET	THOD:	▼ ROTARY	П НАММЕ	ER CABLE	TOOL	□ отні	ER – SPECIFY:				
DRILLING & CASING INFORMATION	DEPTH (fe	TO	BORE HOLE DIAM (inches)	(include	GMATERIAL AND GRADE e each casing string e sections of screen	, and	CON	ASING NECTION IYPE oling diameter)	CASING INSIDE DIAM. (inches)	THI	NG WALL CKNESS inches)	SLOT SIZE (inches
LING & C				NO	CASING IN HOL	E						
2. DRIL												
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ANNULAR MATERIAL						N/A						
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LOC			SE. 27. 210	4				WELL TAG I	D NO.		PAGE	1 OF 2

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1   8		FROM	то	The second secon	95.000 90				8		BEARING
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METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:    DOTAL ESTIMATE   DOTAL ESTIMATED   WELL YIELD (gpm): 0.00										Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:    DATE   DATE   DATE   DATE   TOTAL ESTIMATED   WELL YIELD (gpm): 0.00										Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:    PUMP										Y N	
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FOR OSE INTERNAL USE WR-20 WELL RECORD & LOG (Version 04/30/2019)	.6	pull	SIGNAT	TURE OF DRILLE	R / PRINT SIGNEE	NAME		D: 5		DATE	
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LOCATION 255. 33E. 27. 2 4 WELL TAG ID NO. PAGE 2 OF 2	LO	cation 2	55.3	3E. 27.	214			WELL TAG ID NO.			PAGE 2 OF 2



**APPENDIX B** 

Photographic Log



### **Photographic Log**

BTA Oil Producers, LLC Rojo 14-17 Tank Battery NAPP2106927983





Photograph: 1 Date: 8/29/2023

Description: Release area during initial assessment

View: East

Photograph: 2 Date: 8/29/2023

Description: Release area during initial assessment

View: West





Photograph: 3 Date: 9/29/2023

Description: Delineation activities

View: South

Photograph: 4 Date: 9/29/2023

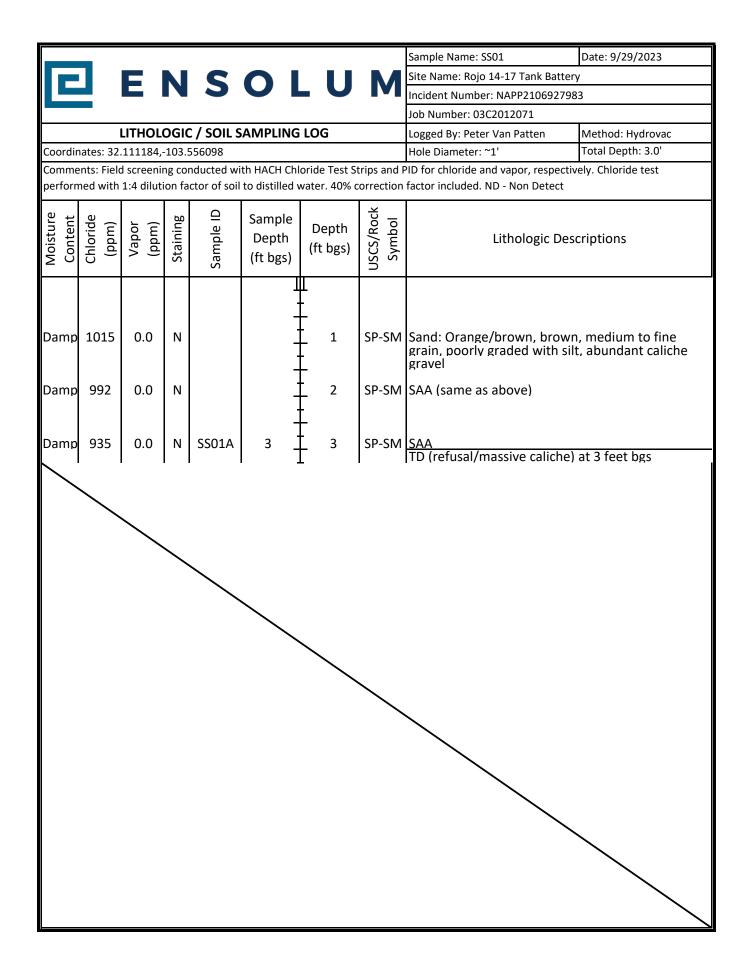
Description: Delineation activities

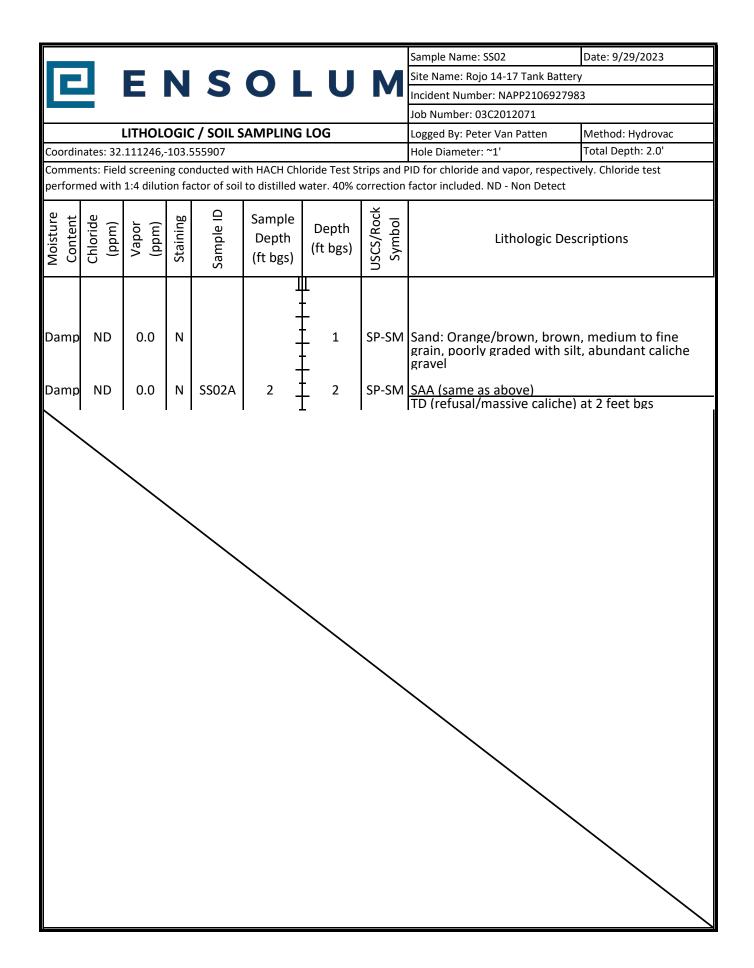
View: North

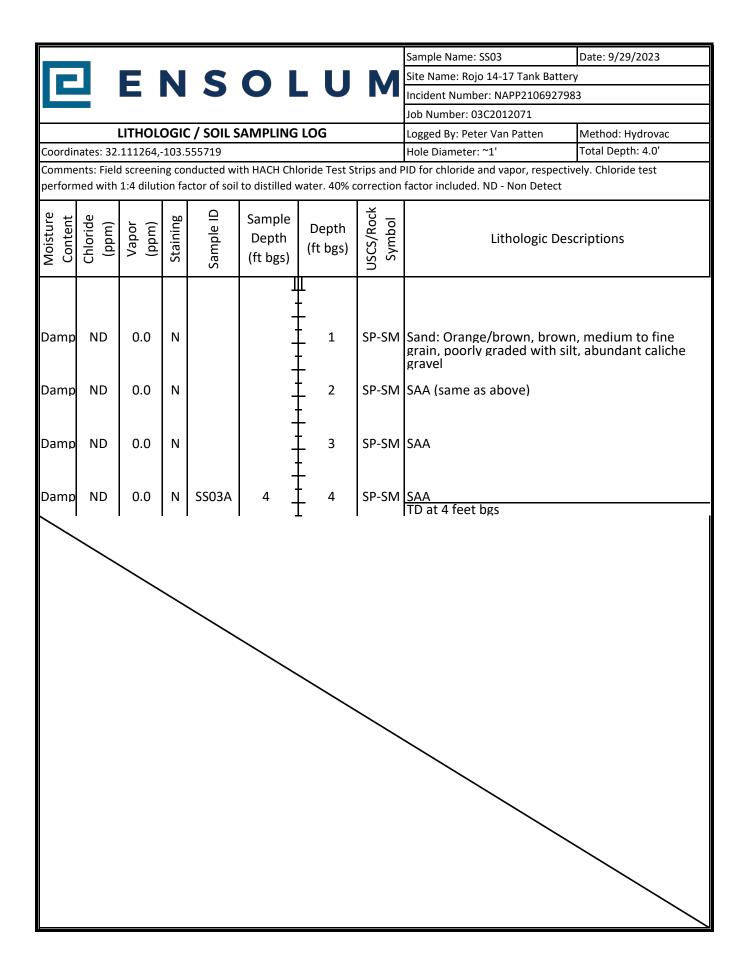


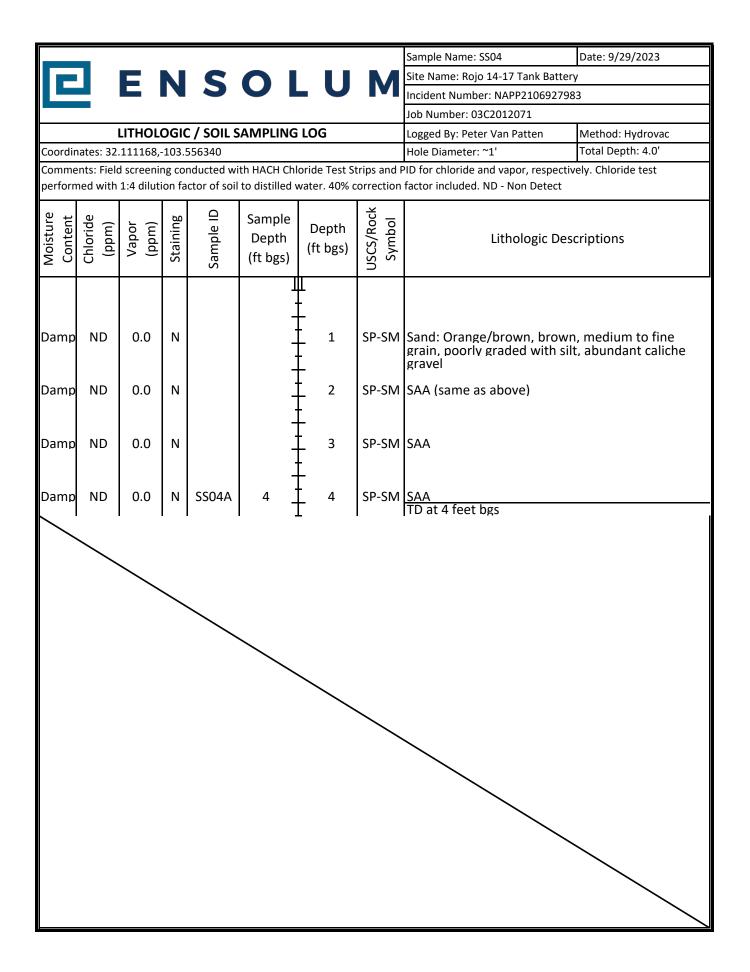
APPENDIX C

Lithologic Soil Sampling Logs











APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



September 05, 2023

HADLIE GREEN
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: ROJO 14-17 TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 08/31/23 12:50.

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

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

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

Received: 08/31/2023 Sampling Date: 08/29/2023
Reported: 09/05/2023 Sampling Type: Soil

Project Name: ROJO 14-17 TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 03C2012071 Sample Received By: Tamara Oldaker

Project Location: BTA (32.11126 - 103.55611)

### Sample ID: SS 01 @ 0.5' (H234734-01)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/01/2023	ND	1.82	90.9	2.00	2.11	
Toluene*	<0.050	0.050	09/01/2023	ND	1.77	88.7	2.00	1.70	
Ethylbenzene*	<0.050	0.050	09/01/2023	ND	1.84	92.0	2.00	2.52	
Total Xylenes*	<0.150	0.150	09/01/2023	ND	5.50	91.7	6.00	2.97	
Total BTEX	<0.300	0.300	09/01/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 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	2320	16.0	08/31/2023	ND	368	92.0	400	16.0	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/01/2023	ND	181	90.7	200	22.2	
DRO >C10-C28*	<10.0	10.0	09/01/2023	ND	184	92.2	200	20.5	
EXT DRO >C28-C36	<10.0	10.0	09/01/2023	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113 9	% 49.1-14	8						

A ... - L ... - - - I D. .. MC

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



### Analytical Results For:

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

Received: 08/31/2023 Sampling Date: 08/29/2023

Reported: 09/05/2023 Sampling Type: Soil

Project Name: ROJO 14-17 TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 03C2012071 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: BTA (32.11126 - 103.55611)

### Sample ID: SS 02 @ 0.5' (H234734-02)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/01/2023	ND	1.98	98.8	2.00	0.316	
Toluene*	<0.050	0.050	09/01/2023	ND	2.34	117	2.00	0.840	
Ethylbenzene*	<0.050	0.050	09/01/2023	ND	2.38	119	2.00	0.724	
Total Xylenes*	<0.150	0.150	09/01/2023	ND	7.12	119	6.00	0.577	
Total BTEX	<0.300	0.300	09/01/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	08/31/2023	ND	368	92.0	400	16.0	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/01/2023	ND	181	90.7	200	22.2	
DRO >C10-C28*	<10.0	10.0	09/01/2023	ND	184	92.2	200	20.5	
EXT DRO >C28-C36	<10.0	10.0	09/01/2023	ND					
Surrogate: 1-Chlorooctane	97.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

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Celey D. Keene



### Analytical Results For:

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

Received: 08/31/2023 Sampling Date: 08/29/2023

Reported: 09/05/2023 Sampling Type: Soil

Project Name: **ROJO 14-17 TANK BATTERY** Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C2012071 Tamara Oldaker

Project Location: BTA (32.11126 - 103.55611)

### Sample ID: SS 03 @ 0.5' (H234734-03)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/01/2023	ND	1.98	98.8	2.00	0.316	
Toluene*	<0.050	0.050	09/01/2023	ND	2.34	117	2.00	0.840	
Ethylbenzene*	< 0.050	0.050	09/01/2023	ND	2.38	119	2.00	0.724	
Total Xylenes*	<0.150	0.150	09/01/2023	ND	7.12	119	6.00	0.577	
Total BTEX	<0.300	0.300	09/01/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 %	71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/31/2023	ND	368	92.0	400	16.0	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/01/2023	ND	181	90.7	200	22.2	
DRO >C10-C28*	<10.0	10.0	09/01/2023	ND	184	92.2	200	20.5	
EXT DRO >C28-C36	<10.0	10.0	09/01/2023	ND					
Surrogate: 1-Chlorooctane	119 %	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	134 9	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



### Analytical Results For:

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

Received: 08/31/2023 Sampling Date: 08/29/2023

Reported: 09/05/2023 Sampling Type: Soil

Project Name: ROJO 14-17 TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 03C2012071 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: BTA (32.11126 - 103.55611)

### Sample ID: SS 04 @ 0.5' (H234734-04)

RTFY 8021R

BIEX 8021B	mg,	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/01/2023	ND	1.79	89.5	2.00	0.827	
Toluene*	<0.050	0.050	09/01/2023	ND	2.10	105	2.00	3.63	
Ethylbenzene*	<0.050	0.050	09/01/2023	ND	2.18	109	2.00	3.17	
Total Xylenes*	<0.150	0.150	09/01/2023	ND	6.56	109	6.00	1.60	
Total BTEX	<0.300	0.300	09/01/2023	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	96.0	16.0	08/31/2023	ND	368	92.0	400	16.0	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/01/2023	ND	181	90.7	200	22.2	
DRO >C10-C28*	<10.0	10.0	09/01/2023	ND	184	92.2	200	20.5	
EXT DRO >C28-C36	<10.0	10.0	09/01/2023	ND					
Surrogate: 1-Chlorooctane	109	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	121	% 49.1-14	8						

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Celey D. Keene



### Analytical Results For:

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

Received: 08/31/2023 Sampling Date: 08/29/2023

Reported: 09/05/2023 Sampling Type: Soil

Project Name: ROJO 14-17 TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 03C2012071 Sample Received By: Tamara Oldaker

Project Location: BTA (32.11126 - 103.55611)

### Sample ID: SS 05 @ 0.5' (H234734-05)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/01/2023	ND	1.79	89.5	2.00	0.827	
Toluene*	<0.050	0.050	09/01/2023	ND	2.10	105	2.00	3.63	
Ethylbenzene*	<0.050	0.050	09/01/2023	ND	2.18	109	2.00	3.17	
Total Xylenes*	<0.150	0.150	09/01/2023	ND	6.56	109	6.00	1.60	
Total BTEX	<0.300	0.300	09/01/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/31/2023	ND	368	92.0	400	16.0	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/01/2023	ND	181	90.7	200	22.2	
DRO >C10-C28*	<10.0	10.0	09/01/2023	ND	184	92.2	200	20.5	
EXT DRO >C28-C36	<10.0	10.0	09/01/2023	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112	% 49.1-14	8						

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### Analytical Results For:

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

Received: 08/31/2023 Sampling Date: 08/29/2023

Reported: 09/05/2023 Sampling Type: Soil

Project Name: **ROJO 14-17 TANK BATTERY** Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 03C2012071

Project Location: BTA (32.11126 - 103.55611)

### Sample ID: SS 06 @ 0.5' (H234734-06)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/01/2023	ND	1.79	89.5	2.00	0.827	
Toluene*	<0.050	0.050	09/01/2023	ND	2.10	105	2.00	3.63	
Ethylbenzene*	<0.050	0.050	09/01/2023	ND	2.18	109	2.00	3.17	
Total Xylenes*	<0.150	0.150	09/01/2023	ND	6.56	109	6.00	1.60	
Total BTEX	<0.300	0.300	09/01/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/31/2023	ND	368	92.0	400	16.0	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/01/2023	ND	181	90.7	200	22.2	
DRO >C10-C28*	<10.0	10.0	09/01/2023	ND	184	92.2	200	20.5	
EXT DRO >C28-C36	<10.0	10.0	09/01/2023	ND					
Surrogate: 1-Chlorooctane	109 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	120 9	% 49.1-14	8						

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### Analytical Results For:

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

Received: 08/31/2023 Sampling Date: 08/29/2023

Reported: 09/05/2023 Sampling Type: Soil

Project Name: ROJO 14-17 TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 03C2012071 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: BTA (32.11126 - 103.55611)

### Sample ID: SS 07 @ 0.5' (H234734-07)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/01/2023	ND	1.79	89.5	2.00	0.827	
Toluene*	<0.050	0.050	09/01/2023	ND	2.10	105	2.00	3.63	
Ethylbenzene*	<0.050	0.050	09/01/2023	ND	2.18	109	2.00	3.17	
Total Xylenes*	<0.150	0.150	09/01/2023	ND	6.56	109	6.00	1.60	
Total BTEX	<0.300	0.300	09/01/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 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	08/31/2023	ND	368	92.0	400	16.0	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/01/2023	ND	181	90.7	200	22.2	
DRO >C10-C28*	<10.0	10.0	09/01/2023	ND	184	92.2	200	20.5	
EXT DRO >C28-C36	<10.0	10.0	09/01/2023	ND					
Surrogate: 1-Chlorooctane	110	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	121	% 49.1-14	8						

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### Analytical Results For:

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

Received: 08/31/2023 Sampling Date: 08/29/2023

Reported: 09/05/2023 Sampling Type: Soil

Project Name: **ROJO 14-17 TANK BATTERY** Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 03C2012071

Project Location: BTA (32.11126 - 103.55611)

### Sample ID: SS 08 @ 0.5' (H234734-08)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/01/2023	ND	1.79	89.5	2.00	0.827	
Toluene*	<0.050	0.050	09/01/2023	ND	2.10	105	2.00	3.63	
Ethylbenzene*	<0.050	0.050	09/01/2023	ND	2.18	109	2.00	3.17	
Total Xylenes*	<0.150	0.150	09/01/2023	ND	6.56	109	6.00	1.60	
Total BTEX	<0.300	0.300	09/01/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/31/2023	ND	368	92.0	400	16.0	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/01/2023	ND	181	90.7	200	22.2	
DRO >C10-C28*	<10.0	10.0	09/01/2023	ND	184	92.2	200	20.5	
EXT DRO >C28-C36	<10.0	10.0	09/01/2023	ND					
Surrogate: 1-Chlorooctane	98.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

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### **Notes and Definitions**

QR-04 The RPD for the BS/BSD was outside of historical limits.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

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

- Chloride by SM4500Cl-B does not require samples be received at or below  $6^{\circ}\text{C}$ 

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

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# CHAIN-OF CUSTODY AND ANALYSIS REQUEST



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

Company Name:	Ensolum.	ורכ		BILL TO		ANALYSIS REQUEST	REQUEST	
roject Manager:	Hadlic Green	S	P	P.O. #:				
Address: 3122		TKS HWY	0	Company: 8TA Oil				
city: Cartsbad		State: MM	Zip: 88220 A	Attn: Kelton Beaird	aird			
#:	432-557-8895	Fax #:		Address: 104 S Pecos St.	ios St.			
roject #: 03C	0302012071	Project Owner		city: Midland				
roject Name: Rojo	DJO 14-17	TANK BATTERY		State: TX Zip: 기위기이	101			,
roject Location:	32.11126,	703.55611		Phone #: 432 · 312 · 2203	2.2263			
Sampler Name:	Meredith	Roberts	71	Fax #:				
			MATRIX	PRESERV. SAMPLING				
Lab I.D. 4234734	Sample I.D.	e I.D.	(G)RAB OR (C) # CONTAINER: GROUNDWATI WASTEWATER SOIL OIL SLUDGE OTHER:	ACID/BASE: ICE / COOL OTHER :	BTEX Chloride	TPH		
_	1055	@ 0.5	- ×	X	A X X	X		
2	5502				0920   1.			M
CI	8803				0925	•		
4	SS04				0930			
5	\$505				0935			
re	9055				0940			
27	1.050				0945			
~	2808	+	+	¢	0950 4 4	4		
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felinquished By:	120		Received By:	Mathematical	Verbal Result: 1 Yes 18 All Results are emailed. Places hgreen@ensolum.com hgreen@ensolum.exty@e	Verbal Result: □ Yes ☑ No Add'I Phone #: All Results are emailed. Piazze provide Email address: hgreen@ensclum.com mpherty@ensclum.com		Ш
elinquished By:	o		Raceived By:		REMARKS: Incident #: N	: NAPPZIO 6927983		
Delivered By: (Circle One)	One)		Cool Intact	CHECKED BY: (Initials)		Standard Bacteria (onl	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C	
sampler - OPS - Bus - Other	- Other.	Corrected temp. "C	S Yes G Yes	40	Correction Factor 0°C	Tes Tres	Yes	



October 04, 2023

HADLIE GREEN
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: ROJO 14-17 TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 09/29/23 12:10.

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

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

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

Received: 09/29/2023 Sampling Date: 09/29/2023
Reported: 10/04/2023 Sampling Type: Soil

Project Name: ROJO 14-17 TANK BATTERY Sampling Condition: \*\* (See Notes)
Project Number: 03C2012071 Sample Received By: Tamara Oldaker

A ... - L ... - - - I D. .. MC

Project Location: BTA (32.11126 - 103.55611)

### Sample ID: SS 01 A 3' (H235327-01)

Analyte	mg/kg		Analyzed By: MS						
	Result	Reporting Limit	Analyzed	Method Blank	BS % Recovery	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2023	ND	2.01	101	2.00	1.37	
Toluene*	<0.050	0.050	10/02/2023	ND	2.16	108	2.00	2.98	
Ethylbenzene*	<0.050	0.050	10/02/2023	ND	2.17	108	2.00	1.35	
Total Xylenes*	<0.150	0.150	10/02/2023	ND	6.54	109	6.00	1.11	
Total BTEX	<0.300	0.300	10/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	10/02/2023	ND	432	108	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2023	ND	189	94.4	200	2.47	
DRO >C10-C28*	<10.0	10.0	10/02/2023	ND	193	96.5	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	10/02/2023	ND					
Surrogate: 1-Chlorooctane	99.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110 9	% 49.1-14	8						

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### Analytical Results For:

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

Received: 09/29/2023 Sampling Date: 09/29/2023 Reported: 10/04/2023 Sampling Type: Soil

Project Name: **ROJO 14-17 TANK BATTERY** Sampling Condition: \*\* (See Notes) Sample Received By: Tamara Oldaker Project Number: 03C2012071

Project Location: BTA (32.11126 - 103.55611)

### Sample ID: SS 02 A 2' (H235327-02)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2023	ND	2.01	101	2.00	1.37	
Toluene*	<0.050	0.050	10/02/2023	ND	2.16	108	2.00	2.98	
Ethylbenzene*	<0.050	0.050	10/02/2023	ND	2.17	108	2.00	1.35	
Total Xylenes*	<0.150	0.150	10/02/2023	ND	6.54	109	6.00	1.11	
Total BTEX	<0.300	0.300	10/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	10/02/2023	ND	432	108	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2023	ND	189	94.4	200	2.47	
DRO >C10-C28*	<10.0	10.0	10/02/2023	ND	193	96.5	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	10/02/2023	ND					
Surrogate: 1-Chlorooctane	104 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112 9	% 49.1-14	8						

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### Analytical Results For:

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

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

 Reported:
 10/04/2023
 Sampling Type:
 Soil

Project Name: ROJO 14-17 TANK BATTERY Sampling Condition: \*\* (See Notes)
Project Number: 03C2012071 Sample Received By: Tamara Oldaker

Project Location: BTA (32.11126 - 103.55611)

### Sample ID: SS 03 A 4' (H235327-03)

Analyte	mg/kg		Analyzed By: MS						
	Result	Reporting Limit	Analyzed	Method Blank	BS % Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/02/2023	ND	2.01	101	2.00	1.37	
Toluene*	<0.050	0.050	10/02/2023	ND	2.16	108	2.00	2.98	
Ethylbenzene*	<0.050	0.050	10/02/2023	ND	2.17	108	2.00	1.35	
Total Xylenes*	<0.150	0.150	10/02/2023	ND	6.54	109	6.00	1.11	
Total BTEX	<0.300	0.300	10/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	117	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/02/2023	ND	432	108	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2023	ND	189	94.4	200	2.47	
DRO >C10-C28*	<10.0	10.0	10/02/2023	ND	193	96.5	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	10/02/2023	ND					
Surrogate: 1-Chlorooctane	100	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### Analytical Results For:

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

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

 Reported:
 10/04/2023
 Sampling Type:
 Soil

Project Name: ROJO 14-17 TANK BATTERY Sampling Condition: \*\* (See Notes)

Project Number: 03C2012071 Sample Received By: Tamara Oldaker

Applyzod By: MC

Project Location: BTA ( 32.11126 - 103.55611 )

ma/ka

### Sample ID: SS 04 A 4' (H235327-04)

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2023	ND	2.01	101	2.00	1.37	
Toluene*	<0.050	0.050	10/02/2023	ND	2.16	108	2.00	2.98	
Ethylbenzene*	<0.050	0.050	10/02/2023	ND	2.17	108	2.00	1.35	
Total Xylenes*	<0.150	0.150	10/02/2023	ND	6.54	109	6.00	1.11	
Total BTEX	<0.300	0.300	10/02/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/02/2023	ND	432	108	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2023	ND	189	94.4	200	2.47	
DRO >C10-C28*	<10.0	10.0	10/02/2023	ND	193	96.5	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	10/02/2023	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



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

### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

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

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

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

Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Freene

Celey D. Keene, Lab Director/Quality Manager

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



FORM-000 R 3.4 077	Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Relinquished By: Relinquished By:	PLEASE NOTE: Liability and Damages. Cardinal's liability analyses. All claims including those for negligence and an service. In no event shall Cardinal be liable for incidental o affiliation or successors arising out of or related to the perfu-			2 5502A 3 5502A	Lab I.D.	FOR LAB USE ONLY	Project Location: 32,	Project Name: Rojo 14-17	Phone #: 432 %7	city: Carlshood	ddress: 3177 Na	**	Company Name: (5/5) 33
thizs + Cardinal c	Observed Temp. °C C <sub>I,O</sub>		refinal's liability and client's exclusive remedy for any o iligence and any other cause whitiscover shall be dee for incidental or consequential damages, including wit led to the performance of services hereunder by Card			4.00	ple I.D.	DMP.	32,11126, -103.55611	DI	8896 Fax #:	State: NM Zip: 88220		Hadlie Fran	En 24mm 1-1-C
Condinal cannot account verhal changes Please email changes to celev keene@cardinallabsnm.com	Sample Condition CHECKED BY: Cool Intact (Initials)  Lyes BYes  Cool Intact (Initials)	Received By:  Received By:	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whother based in contract or loft, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waiwod unless made in writing and received by Cardinal within 30 days after completion of the applica service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of pools incurred by client, its subsidiaties, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reason. It is subsidiated to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reason.	VES		< < < <	# CONTAINERS GROUNDWATE WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	MATRIX	Phone #: 432 312 2203	State: TX Zip: 79701	City: Mid and	Attn: 大t		P.O. #:	BILL TO
email changes to celev keene@ca	Turnaround Time: Thermometer ID #140 Correction Factor 0°C	All Results are et la green (C) REMARKS:	ble ble		×	9.29.23 725 X X X X X X X X X X X X X X X X X X X	TPH BTE	SAMPLING	2072 218	10701	thank	beard	A		70
	Standard Bacteria (only) Sample Condition Rush Cool Intact Observed Temp. °C    Yes   Yes   Yes   No   No   Corrected Temp. °C	aniled. Please provide Email address: Ch50 www.com ooly Temp blank 0,50	DVNo Addi Bhone #:			***	Chlor	aes							ANALYSIS REQUEST



APPENDIX E

NMOCD Correspondence

From: Wells, Shelly, EMNRD

To: Hadlie Green

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

Subject: RE: [EXTERNAL] BTA - Sampling Notification - Week of 09/04/2023

Date: Wednesday, August 30, 2023 3:52:13 PM

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

image002.png image003.png image004.png

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

Good afternoon Hadlie,

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

Thank you,

Shelly

Shelly Wells \* Environmental Specialist-Advanced Environmental Bureau EMNRD-Oil Conservation Division 1220 S. St. Francis Drive | Santa Fe, NM 87505 (505)469-7520 | Shelly Wells@emnrd.nm.gov http://www.emnrd.state.nm.us/OCD/

From: Hadlie Green <hgreen@ensolum.com> Sent: Wednesday, August 30, 2023 3:21 PM

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

Cc: Kelton Beaird <KBeaird@btaoil.com>; Peter Van Patten <pvanpatten@ensolum.com>

Subject: [EXTERNAL] BTA - Sampling Notification - Week of 09/04/2023

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

All,

BTA anticipates collecting confirmation samples at the following locations the week of September 4, 2023.

- Rojo 14-17 Tank Battery / NAPP2106927983
  - Sampling Date: 9/7/2023 @ 9:00 AM MST
- Ogden 20509 1-3H Tank Battery / NAB1905943420
  - Sampling Date: 9/8/2023 @ 9:00 AM MST

Thank you,

# Hadlie Green



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



APPENDIX F

Form 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	NAPP2106927983
District RP	
Facility ID	
Application ID	

# **Release Notification**

# **Responsible Party**

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

# **Location of Release Source**

Latitude: 32.11126 Longitude: -103.55611

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Rojo 14-17 Tank battery	Site Type: Tank Battery/Production Facility
	API# (if applicable) Nearest well: Rojo 7811 22 Fed Com #014Y API #30-025-45446

Unit Letter	Section	Township	Range	County
Р	22	25S	33E	Lea

Surface Owner: State Federal Tribal Private (Name: CAM Ltd., P.O. Box 3157, San Angelo, TX 76902)

# Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)					
Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)			
☐ Produced Water	Volume Released (bbls) 277 BBL	Volume Recovered (bbls) 240 BBL			
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	⊠ Yes □ No			
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)			
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)			
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)			
Cause of Release					
Piping Failure and Overflow Secondary Containment.					
A fire tube was pulled from the heater treater for repairs. A check valve failure had allowed produced water to flow back into the dismantled treater and spill inside the unlined containment area.  (See attached spill calculation spreadsheet.)					

Page 2

Oil Conservation Division

	- 1.8 418 0 22 JU
Incident ID	NAPP2106927983
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	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
1511012517(11) 111111101	,
⊠ Yes □ No	release.
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
	rided by an email sent 3/3/2021 to NMOCD.
	Initial Response
The responsible p	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.
The impacted area ha	s been secured to protect human health and the environment.
Released materials ha	we been contained via the use of berms or dikes, absorbent pads, or other containment devices.
All free liquids and re	coverable materials have been removed and managed appropriately.
If all the actions described	i above have not been undertaken, explain why:
D 10 15 00 0 D (4) 3 B	
has begun, please attach a	AC 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 t area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
	mation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and
	required to report and/or file certain release notifications and perform corrective actions for releases which may endanger nent. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have
failed to adequately investiga	ate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In
addition, OCD acceptance of and/or regulations.	a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
and/or regulations.	
Printed Name: Bob Hall	Title: Environmental Manager
Signature:	Utal Date: 3/9/2021
email: bhall@btaoil.co	om Telephone: 432-682-3753
OCD Only	
Pagained but	Dota
Received by:	Date:

**Location** Rojo 14-17 Tank Battery

API#

**Spill Date** 3/3/2021

## **Spill Dimensions**

**ENTER** - Length of Spill 83.2 **feet ENTER** - Width of Spill 83.2 **feet ENTER** - Saturation Depth of Spill 12 inches

**ENTER** - Porosity Factor 0.03 decimal

# Oil Cut - Well Test / Vessel Throughput or Contents

Oil 0.01 Water 99.99 Calculated Oil Cut 0.0001

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

**ENTER** - Recovered Oil **BBL ENTER** - Recovered Water

# **Calculated Values**

Release of Oil in Soil - Unrecovered 0 **BBL** 37 *BBL* Release of Water in Soil - Unrecovered 37 **BBL Unrecovered Total Release** 

### **Calculated Values**

Total Release of Oil 277 BBL Total Release of Water **Total Release** 277

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

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

Oil Cut X (or Water Cut)

calculated

calculated

0 **BBL** 

BBL

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

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

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

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

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

CONDITIONS

Action 27346

### **CONDITIONS OF APPROVAL**

Operator:			OGRID:	Action Number:	Action Type:
BTA OIL PRODUCERS, LLC	104 S Pecos	Midland, TX79701	260297	27346	C-141

OCD	Condition
Reviewer	
rmarcus	The submitted C-141 is accepted with the following condition(s): The lateral and longitudinal information does not match the ULSTR regarding the release location. Please correct the conflicting
	information and report back to OCD. The lat./long. is revealing the ULSTR as O-22-25S-33E. Please revise and submit either corrected Latitude/Longitude or ULSTR.

Received by OCD: 10/30/2023 10:45:49 AM Form C-141 State of New Mexico Page 3 Oil Conservation Division

	ruge 47 Oj
Incident ID	NAPP2106927983
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>51-100</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 well</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> </ul>	ls.		
M Determination of water sources and significant watercourses within 72-nine of the lateral extents of the felease			

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.

Boring or excavation logs

Topographic/Aerial maps

Photographs including date and GIS information

□ Laboratory data including chain of custody

Received by OCD: 10/30/2023 10:45:49 AM State of New Mexico
Page 4 Oil Conservation Division

	Page 48 of 3
Incident ID	NAPP2106927983
District RP	
Facility ID	

Application ID

I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release not public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a threaddition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	ifications and per OCD does not relicated to groundwate	form corrective actions for releases which may endanger eve the operator of liability should their operations have r, surface water, human health or the environment. In
Printed Name: Kelton Beaird	_ Title:	Environmental Manager
Signature: /// /	Date:	10/19/2023
email: KBeaird@btaoil	Telephone:	432-312-2203
OCD Only		
Received by:	Date:	

Page 49 of 50

Incident ID	NAPP2106927983
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.

☐ A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC	
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integr	ity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODC	District office m	ust be notified 2 days prior to final sampling)
Description of remediation activities		
I hereby certify that the information given above is true and comple and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and renhuman health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regular restore, reclaim, and re-vegetate the impacted surface area to the conformation accordance with 19.15.29.13 NMAC including notification to the O	n release notificati a C-141 report by nediate contamina a C-141 report doc tions. The respon nditions that existe	ons and perform corrective actions for releases which the OCD does not relieve the operator of liability tion that pose a threat to groundwater, surface water, as not relieve the operator of responsibility for sible party acknowledges they must substantially ed prior to the release or their final land use in
Printed Name: Kelton Beaird		
Signature:	Date:	10/19/2023
email: KBeaird@btaoil		432-312-2203
OCD Only		
Received by:	Date:	
Closure approval by the OCD does not relieve the responsible party remediate contamination that poses a threat to groundwater, surface v party of compliance with any other federal, state, or local laws and/o	water, human healt	
Closure Approved by:	Date: _	
Printed Name:	_ Title: _	

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

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

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

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

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

CONDITIONS

Action 280847

### **CONDITIONS**

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	280847
	Action Type:
	[C-141] Release Corrective Action (C-141)

### CONDITIONS

Cre	ated By		Condition Date	
sc	wells	None	2/14/2024	