

July 24, 2024

### **New Mexico Oil Conservation Division**

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

Re: Closure Request

Carrasco 14-1

Incident Numbers nRM2024742676 and nAPP2313656375

**Eddy County, New Mexico** 

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of BTA Oil Producers, LLC (BTA), has prepared this *Closure Request* to document excavation and soil sampling activities performed at the Carrasco 14-1 (Site), in response to the denial of the original *Deferral Request*, dated August 1, 2023.

On January 12, 2024, the New Mexico Oil Conservation Division (NMOCD) denied the original *Deferral Request* for the following reasons:

The Deferral Request is Denied. Contamination must not pose an imminent risk to human health, the environment, or groundwater. Please remove as much of the contaminated soil with alternative methods. The only remediation that should remain are the sample points that are being requested for deferral. Only sample points that could cause a major facility deconstruction will be deferred. Collect confirmation samples representing no more than 200 ft2. Specify exactly which sample points you are asking for a deferral on and the reason the contaminants can't be removed. All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. All sidewall samples should be taken from the sidewall of the excavation. The "step-out" samples on pad to verify the edge of the release should only be a maximum of 1-2 feet from the observed edge of the release. Stepping out away from the release area to conduct horizontal delineation samples may tell us whether or not the release left the active well pad, but it does not tell us where the actual edge of the release is located. Please make sure that the edge of the release extent is accurately defined. Additionally, when equipment is located in and around the release area, samples must come from the sidewalls of the release area excavation. The OCD needs to know if the release went in, around, or under equipment/tanks/pipelines. Not having sidewall samples from the actual excavation won't give us those sampling data points that we need. "Step-out" samples should never be conducted if equipment is in the vicinity of the release area.

Based on soil sample laboratory analytical results, BTA is submitting this *Closure Request*, describing excavation activities that have occurred and requesting closure for Incident Numbers nRM2024742676 and nAPP2313656375.

BTA Oil Producers, LLC Closure Request Carrasco 14-1



### **BACKGROUND**

The Site is located in Unit F, Section 14, Township 23 South, Range 28 East, in Eddy County, New Mexico (32.3076687°, -104.0606657°) and is associated with oil and gas exploration and production operations on private land owned by Mr. Lionel Onsurez.

### Incident Number nRM2024742676

On August 28, 2020, a hole in an oil tank developed while a load of crude oil was being removed from the tank by a hot oiler, resulting in the release of approximately 67 barrels (bbls) of crude oil into the earthen containment. No free-standing fluids were recovered. BTA reported the release immediately to the NMOCD via email and submitted a Release Notification Form C-141 (Form C-141) on September 1, 2020. The release was assigned Incident Number nRM2024742676.

### Incident Number nAPP2313656375

On May 5, 2023, internal corrosion of a 2-inch metal recirculating line resulted in the release of approximately 35 bbls of crude oil into the earthen containment. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; approximately 25 bbls of crude oil were recovered. BTA reported the release to the NMOCD immediately via email and submitted a Form C-141 on May 5, 2023. The release was assigned Incident Number nAPP2313656375.

The Site was characterized for applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Based on the results of the Site Characterization, as described in the August 1, 2023, *Deferral Request*, 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): 100 mg/kg
- Chloride: 600 mg/kg

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

Between February 9 and July 9, 2024, Ensolum personnel were at the Site to oversee excavation activities based on laboratory analytical results for delineation borehole BH01. The release extent and delineation soil sample locations are presented on Figure 2. Excavation activities were performed utilizing hydrovac, hand shovels, and transport vehicles. To direct excavation activities, soil was screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. The excavation was completed to depths ranging from 1-foot to 2 feet below ground surface (bgs). Photographic documentation of the excavation activities is included in Appendix A.

Following removal of impacted soil, 5-point composite soil samples were collected every 200 square feet from the floor and sidewall of the excavation extent. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Confirmation soil samples FS01 and FS02 were collected from the floor of the excavation at depths ranging from 1-foot to 2 feet bgs. Confirmation soil samples SW01 through SW04 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 2 feet bgs.

BTA Oil Producers, LLC Closure Request Carrasco 14-1



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-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method SM4500.

Laboratory analytical results for excavation soil samples FS01, FS02, SW01, and SW02 indicated TPH and/or chloride concentrations exceeded the Site Closure Criteria. Additional soil was removed in the vicinity of floor samples FS01 and FS02 and subsequent soil samples FS01A and FS02A were collected from the floor of the excavation at an approximate depth of 2 feet bgs. Additional soil was removed in the vicinity of sidewall samples SW01 and SW02 and subsequent soil samples SW03 and SW04 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 2 feet bgs. Laboratory analytical results for excavation soil sample FS01A, FS02A, SW03, and SW04 indicated all concentrations were compliant with the Site Closure Criteria. The excavation extent and excavation soil sample locations are presented on Figure 3. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included as Appendix B.

The excavation area measured approximately 331 square feet. A total of approximately 25 cubic yards of impacted soil were removed during the excavation activities and transported and properly disposed of at the Lea Land, LLC in New Mexico.

### **CLOSURE REQUEST**

Excavation activities were conducted at the Site to address the January 2024 denial of the original *Deferral Request*, (Appendix C). Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated all COCs were compliant with the Site Closure Criteria. Based on soil sample analytical results, no further remediation was required.

Excavation of impacted soil has mitigated impacts at this Site. BTA believes these remedial actions are protective of human health, the environment, and groundwater. As such, BTA respectfully requests closure for Incident Numbers nRM2024742676 and nAPP2313656375.

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

cc: Ray Ramos, BTA Mr. Lionel Onsurez Daniel R. Moir, PG (Licensed in TX & WY) Senior Managing Geologist

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BTA Oil Producers, LLC Closure Request Carrasco 14-1



Appendices:

Figure 1 Site Receptor Map

Figure 2 Delineation Soil Sample Locations Figure 3 Excavation Soil Sample Locations Table 1 Soil Sample Analytical Results

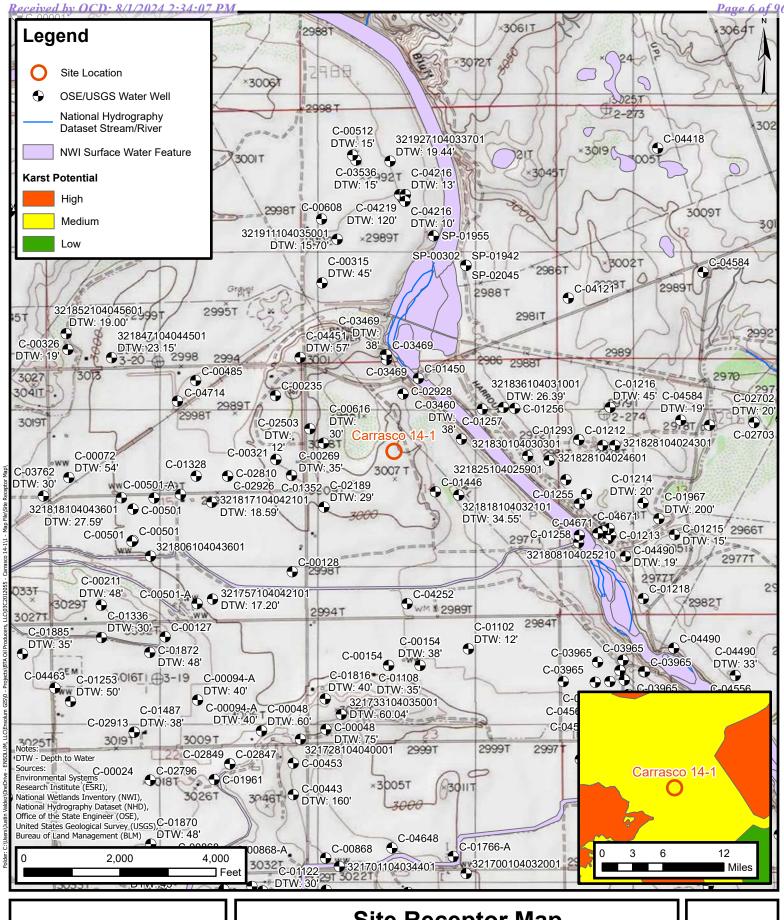
Appendix A Photographic Log

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

Appendix C Deferral Request, dated August 1, 2023



**FIGURES** 





# **Site Receptor Map**

BTA Oil Producers, LLC
Carrasco 14-1
Incident Numbers: nRM2024742676 & nAPP2313656375
Unit F, Sec 14, T23S, R28E
Eddy County, New Mexico

FIGURE 1





## **Delineation Soil Sample Locations**

BTA Oil Producers
Carrasco 14-1
Incident Number: nAPP2313656375
Unit F, Sec 14, T23S, R28E
Eddy County, New Mexico

FIGURE 2



BTA Oil Producers, LLC Carrasco 14-1 Incident Number: nRM2024742676 and nAPP2313656375 Unit F, Section 14, T23S, R28E Eddy County, New Mexico

2



**TABLES** 



# TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Carrasco 14-1 BTA Oil Producers, LLC Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I C	Closure Criteria (	NMAC 19.15.29)	10	50	NE	NE	NE	NE	100	600
				Deli	neation Soil Sa	mples				
BH01	06/06/2023	0.5	<0.050	1.33	57.5	1,110	198	1,168	1,366	64.0
BH01A	06/06/2023	1	< 0.050	7.60	469	33,500	8,070	33,969	42,039	352
BH01B	06/06/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
BH01C	06/06/2023	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
BH01D	06/06/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
SS01	07/12/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS01A	07/12/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS02	07/12/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS02A	07/12/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS03	07/12/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS03A	07/12/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
SS04	07/12/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS04A	07/12/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
				Exca	avation Soil Sa	nples				
FS01	02/19/2024	1	<0.050	<0.300	<10.0	208	71.9	208	280	2,080
FS01A	07/09/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS02	02/19/2024	2	<0.050	<0.300	<10.0	1,500	534	1,500	2,034	336
FS02A	07/09/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW01	02/19/2024	0 - 2	<0.050	<0.300	<10.0	88.6	65.0	88.6	154	1,230
SW02	02/19/2024	0 - 2	<0.050	<0.300	<10.0	87.2	44.8	87.2	132	1,440
SW03	07/09/2024	0 - 2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW04	07/09/2024	0 - 2	<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

Grey text indicates sample that has been excavated.



APPENDIX A

Photographic Log



### **Photographic Log**

BTA Oil Producers, LLC Carrasco 14-1

Incident Numbers nRM2024742676 & nAPP2313656375





Photograph: 1

Date: 2/9/2024

Description: Excavation activities

View: West

Photograph: 2

Date:

2/9/2024

Description: Excavation activities

View: West





Photograph: 3

Date: 7/9/2024

Description: Excavation activities

View: Northwest

Photograph: 4

7/9/2024 Date:

Description: Excavation activities

View: West



**APPENDIX B** 

Laboratory Analytical Reports & Chain of Custody Documentation



February 22, 2024

HADLIE GREEN
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: CARRASCO 14-1H

Enclosed are the results of analyses for samples received by the laboratory on 02/19/24 14:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

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

Received: 02/19/2024 Sampling Date: 02/19/2024
Reported: 02/22/2024 Sampling Type: Soil

Project Name: CARRASCO 14-1H Sampling Condition: Cool & Intact
Project Number: 03C2012055 Sample Received By: Dionica Hinojos

Applyand By 14

Project Location: BTA( 32.3076687 - 104.0606657 )

ma /ka

### Sample ID: FS01 1' (H240791-01)

DTEV 0021D

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2024	ND	2.24	112	2.00	0.121	
Toluene*	<0.050	0.050	02/20/2024	ND	2.21	110	2.00	0.355	
Ethylbenzene*	<0.050	0.050	02/20/2024	ND	2.18	109	2.00	0.927	
Total Xylenes*	<0.150	0.150	02/20/2024	ND	6.38	106	6.00	0.691	
Total BTEX	<0.300	0.300	02/20/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.5	% 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	2080	16.0	02/20/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2024	ND	200	100	200	0.616	
DRO >C10-C28*	208	10.0	02/20/2024	ND	200	100	200	0.0439	
EXT DRO >C28-C36	71.9	10.0	02/20/2024	ND					
Surrogate: 1-Chlorooctane	93.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	64.4	% 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 whatsoever 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 relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey & Keene



### Analytical Results For:

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

Received: 02/19/2024 Sampling Date: 02/19/2024

Reported: 02/22/2024 Sampling Type: Soil

Project Name: CARRASCO 14-1H Sampling Condition: Cool & Intact
Project Number: 03C2012055 Sample Received By: Dionica Hinojos

Analyzed By: 14

Project Location: BTA( 32.3076687 - 104.0606657 )

ma/ka

### Sample ID: FS02 2' (H240791-02)

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2024	ND	2.24	112	2.00	0.121	
Toluene*	<0.050	0.050	02/20/2024	ND	2.21	110	2.00	0.355	
Ethylbenzene*	<0.050	0.050	02/20/2024	ND	2.18	109	2.00	0.927	
Total Xylenes*	<0.150	0.150	02/20/2024	ND	6.38	106	6.00	0.691	
Total BTEX	<0.300	0.300	02/20/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.2	% 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	336	16.0	02/20/2024	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2024	ND	200	100	200	0.616	
DRO >C10-C28*	1500	10.0	02/20/2024	ND	200	100	200	0.0439	
EXT DRO >C28-C36	534	10.0	02/20/2024	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.7	% 49.1-14	8						

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: 02/19/2024 Sampling Date: 02/19/2024

Reported: 02/22/2024 Sampling Type: Soil

Project Name: CARRASCO 14-1H Sampling Condition: Cool & Intact
Project Number: 03C2012055 Sample Received By: Dionica Hinojos

Applyzod By: 14

Project Location: BTA( 32.3076687 - 104.0606657 )

ma/ka

### Sample ID: SW01 0-2' (H240791-03)

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	02/20/2024	ND	2.24	112	2.00	0.121	
Toluene*	<0.050	0.050	02/20/2024	ND	2.21	110	2.00	0.355	
Ethylbenzene*	<0.050	0.050	02/20/2024	ND	2.18	109	2.00	0.927	
Total Xylenes*	<0.150	0.150	02/20/2024	ND	6.38	106	6.00	0.691	
Total BTEX	<0.300	0.300	02/20/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.8	% 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	1230	16.0	02/20/2024	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2024	ND	184	92.1	200	1.69	
DRO >C10-C28*	88.6	10.0	02/20/2024	ND	198	98.8	200	0.273	
EXT DRO >C28-C36	65.0	10.0	02/20/2024	ND					
Surrogate: 1-Chlorooctane	70.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	75.5	% 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 relate 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: 02/19/2024 Sampling Date: 02/19/2024

Reported: 02/22/2024 Sampling Type: Soil

Project Name: CARRASCO 14-1H Sampling Condition: Cool & Intact
Project Number: 03C2012055 Sample Received By: Dionica Hinojos

Applyzod By: 14

Project Location: BTA( 32.3076687 - 104.0606657 )

ma/ka

### Sample ID: SW02 0-2' (H240791-04)

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	02/20/2024	ND	2.24	112	2.00	0.121	
Toluene*	<0.050	0.050	02/20/2024	ND	2.21	110	2.00	0.355	
Ethylbenzene*	<0.050	0.050	02/20/2024	ND	2.18	109	2.00	0.927	
Total Xylenes*	<0.150	0.150	02/20/2024	ND	6.38	106	6.00	0.691	
Total BTEX	<0.300	0.300	02/20/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.7	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1440	16.0	02/20/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2024	ND	184	92.1	200	1.69	
DRO >C10-C28*	87.2	10.0	02/20/2024	ND	198	98.8	200	0.273	
EXT DRO >C28-C36	44.8	10.0	02/20/2024	ND					
Surrogate: 1-Chlorooctane	83.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.6	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



### **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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



	(575) 393-2326 F	(575) 393-2326 FAX (575) 393-2476		ANALYSIS REQUEST
Company Name: Ensolum, LLC	Ensolum, LLC		BILL TO	ANALISIS REGOES
roject Manager:	HAdlie Greer	227	P.O. #:	
Address: (00)	ZZZ	n feid 5+ +400	Company: BTA (1)	
City: MIDI DI	d		ton bea	
e#: 432	-551-8895	Fax #:	ss: 1040.	
Project #: () 3 (	2012055	Project Owner:	MIDIANO	
ıme:	Jarrasco 1	14-1	∑ Zip:	
3	2.3071	1687,-104.066657	Phone #:	
Sampler Name:	Mariaha	O'Dell	Fax #:	
FOR LAB USE ONLY		P. MATRIX	X PRESERV. SAMPLING	
H240791	Sample I.D.	(feet)  AB OR (C)OMENTAINERS UNDWATER TEWATER	OGE ER: //BASE: COOL ER:	Chlori TPH BTEX
	LOST	₩ G	X 2/19/24 1	TATE X X X
معاد	FSO2	2 2 X X	××	12:00
a	SW02	0-2' C1 X	× + 1	12:20 4 4 4
				72.5
PLEASE NOTE: Liability a	nd Damages. Cardinal's liability a ing those for negligence and any	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the applicable analyses. All claims including those for negligence and any other cause whatboever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analyses. All claims including those for negligence and any other cause whatboever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable.	contract or fort, shall be limited to the amount paid by rising and received by Cardinal within 30 days after co upbons, loss of use, or loss of profits incurred by clien	he client for the applicable abusiness of the applicable its subsidisries,
affiliates or successors aris Relinquished B	od By:	nance of services hereunder by Cardinal, regardless of whether such daim is based upon any of the above same resource of services hereunder by Cardinal regardless of whether such daim is based upon any of the above same resource of services hereunder by Cardinal regardless of whether such daim is based upon any of the above same resource of services hereunder by Cardinal regardless of whether such daim is based upon any of the above same resource of services hereunder by Cardinal regardless of whether such daim is based upon any of the above same resource of services hereunder by Cardinal regardless of whether such daim is based upon any of the above same resource of services hereunder by Cardinal regardless of whether such daim is based upon any of the above same resource of services.	ch claim is based upon any of the above stated reason.  V	Verbal Result: □ Yes □ No   Add'l Phone #: All Results are emailed. Please provide Email address: All Results are emailed. Pla So \ UYM . COYM
Relinquished By:	Ai:	Date: Received By:		15-20121
Delivered By: (Circle One)	Circle One)	Observed Temp. °Ci. 70c Sample Condi	tion CHECKED BY: (Initials)	lard Bacteria (only) S Cool Intact
Sampler - UPS - Bus - Other:	Bus - Other:	Corrected Temp. "C Yes No	28	Thermometer ID #110 140 No Corrected Temp. °C



July 17, 2024

HADLIE GREEN
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: CARRASCO 14-1H

Enclosed are the results of analyses for samples received by the laboratory on 07/11/24 14:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

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

 Received:
 07/11/2024
 Sampling Date:
 07/09/2024

 Reported:
 07/17/2024
 Sampling Type:
 Soil

Project Name: CARRASCO 14-1H Sampling Condition: Cool & Intact
Project Number: 03C2012055 Sample Received By: Tamara Oldaker

Applyand By 14

Project Location: BTA( 32.3076687 - 104.0606657 )

### Sample ID: FS 01 A 2' (H244144-01)

DTEV 0021D

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	07/13/2024	ND	2.17	108	2.00	7.88	
Toluene*	<0.050	0.050	07/13/2024	ND	2.00	100	2.00	6.71	
Ethylbenzene*	<0.050	0.050	07/13/2024	ND	2.04	102	2.00	7.09	
Total Xylenes*	<0.150	0.150	07/13/2024	ND	6.03	100	6.00	7.44	
Total BTEX	<0.300	0.300	07/13/2024	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	48.0	16.0	07/15/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2024	ND	206	103	200	2.77	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	218	109	200	5.48	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 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: 07/11/2024 Sampling Date: 07/09/2024

Reported: 07/17/2024 Sampling Type: Soil CARRASCO 14-1H

Project Name: Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C2012055 Tamara Oldaker

Project Location: BTA( 32.3076687 - 104.0606657 )

### Sample ID: FS 02 2' (H244144-02)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2024	ND	2.17	108	2.00	7.88	
Toluene*	<0.050	0.050	07/13/2024	ND	2.00	100	2.00	6.71	
Ethylbenzene*	<0.050	0.050	07/13/2024	ND	2.04	102	2.00	7.09	
Total Xylenes*	<0.150	0.150	07/13/2024	ND	6.03	100	6.00	7.44	
Total BTEX	<0.300	0.300	07/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/15/2024	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2024	ND	206	103	200	2.77	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	218	109	200	5.48	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					
Surrogate: 1-Chlorooctane	106 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107 9	% 49.1-14	8						

### 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: 07/11/2024 Sampling Date: 07/09/2024

Reported: 07/17/2024 Sampling Type: Soil

Project Name: CARRASCO 14-1H Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 03C2012055

Project Location: BTA( 32.3076687 - 104.0606657 )

### Sample ID: SW 03 0-2' (H244144-03)

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	07/13/2024	ND	2.17	108	2.00	7.88	
Toluene*	<0.050	0.050	07/13/2024	ND	2.00	100	2.00	6.71	
Ethylbenzene*	<0.050	0.050	07/13/2024	ND	2.04	102	2.00	7.09	
Total Xylenes*	<0.150	0.150	07/13/2024	ND	6.03	100	6.00	7.44	
Total BTEX	<0.300	0.300	07/13/2024	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	32.0	16.0	07/15/2024	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2024	ND	206	103	200	2.77	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	218	109	200	5.48	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					
Surrogate: 1-Chlorooctane	100 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.4	% 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: 07/11/2024 Sampling Date: 07/09/2024

Reported: 07/17/2024 Sampling Type: Soil

Project Name: CARRASCO 14-1H Sampling Condition: Cool & Intact
Project Number: 03C2012055 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: BTA( 32.3076687 - 104.0606657 )

### Sample ID: SW 04 0-2' (H244144-04)

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	07/13/2024	ND	2.17	108	2.00	7.88	
Toluene*	<0.050	0.050	07/13/2024	ND	2.00	100	2.00	6.71	
Ethylbenzene*	<0.050	0.050	07/13/2024	ND	2.04	102	2.00	7.09	
Total Xylenes*	<0.150	0.150	07/13/2024	ND	6.03	100	6.00	7.44	
Total BTEX	<0.300	0.300	07/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/15/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2024	ND	206	103	200	2.77	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	218	109	200	5.48	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					
Surrogate: 1-Chlorooctane	96.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.7	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

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

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

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

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine

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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

	(575) 393-2326 F	575) 393-2326 FAX (575) 393-2476		3 1	
Company Name:	Ensolum IIC		BILL TO	ANALYSIS REQUEST	
Project Manager: Hadlie Green	Hadlie Green		P.O. #:		
ddress: 3122 N	Address: 3122 National Parks Hwy	У	Company: BTA Oil		
city: Carlsbad		State:NM Zip: 88220	Attn: Ray Ramos		
e #:	432 557-8895	Fax #:	Address: 104 S Pecos	St	
	03C2012055	Project Owner: BTA	city: Midland		_
Project Name: Carrasco 14-1	rrasco 14-1		State: TX Zip: 79701		
Project Location:			Phone #:		
Sampler Name:	Connor Whitman		Fax #:	06	
contract de la contra		MATRIX			
Lab I.D.	Sample I.D.	(feet) Sample Depth G)RAB OR (C)OMP. CONTAINERS GROUNDWATER VASTEWATER OIL	DILUDGE DITHER: CID/BASE: DE / COOL DITHER:	BTEX TPH Chlarite 4	
1 111 100	FSOIA	1	7-9-24	8850	
2	FS02	2,		\$5:55	
CU	5003	0-2-		9:10	
4	SWOH	0-2"	<b>*</b>	9/15	
*LEASE NOTE: Liability and nailyses. All claims including envice. In no event shall Can	Damages. Cardinal's liability and c those for negligence and any othe final be liable for incidental or cons	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatscever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,	ntract or tord, shall be limited to the amount paid og and received by Cardinal within 30 days after ions, loss of use, or loss of profits incurred by ci-	unt paid by the client for the ys after completion of the applicable ed by client, its subsidiaries,	
Relinquished By:	of By:	Date: Received By	ON III	Verbal Result: ☐ Yes ☐ No Add'I Phone #: All Results are emailed. Please provide Email address:	
CHA		Time: 100000	in allated	HGreen@ensolum.com	
Relinquished By:		Date: Received By:		REMARKS: BTA incident Number. 52	
Delivered By: (Circle One)		S	) 0	Standard Ba	
Sampler - UPS - Bus - Other:		Corrected Temp. "C Pes Yes	0	Corrected Temp. °C	L



APPENDIX C

Deferral Request, dated August 1, 2023



August 1, 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: Deferral Request

Carrasco 14-1

Incident Numbers nRM2024742676 and nAPP2313656375

**Eddy County, New Mexico** 

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of BTA Oil Producers, LLC (BTA), has prepared this *Deferral Request* to document assessment and soil sampling activities performed at the Carrasco 14-1 (Site). The purpose of the Site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil resulting from two releases of crude oil within an earthen containment at the Site. Based on field observations, field screening activities, and soil sample laboratory analytical results, BTA is submitting this *Deferral Request*, describing Site assessment and delineation activities that have occurred and requesting deferral of final remediation for Incident Numbers nRM2024742676 and nAPP2313656375 until there is major Site reconstruction or the well is plugged and abandoned and the oil and gas production equipment are removed in order to assess the impacted soil.

### SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit F, Section 14, Township 23 South, Range 28 East, in Eddy County, New Mexico (32.3076687°, -104.0606657°) and is associated with oil and gas exploration and production operations on private land owned by Mr. Lionel Onsurez.

### Incident Number nRM2024742676

On August 28, 2020, a hole in an oil tank developed while a load of crude oil was being removed from the tank by a hot oiler, resulting in the release of approximately 67 barrels (bbls) of crude oil into the earthen containment. No free-standing fluids were recovered. BTA reported the release immediately to the New Mexico Oil Conservation Division (NMOCD) via email and submitted a Release Notification Form C-141 (Form C-141) on September 1, 2020. The release was assigned Incident Number nRM2024742676.

### Incident Number nAPP2313656375

On May 5, 2023, internal corrosion of a 2-inch metal recirculating line resulted in the release of approximately 35 bbls of crude oil into the earthen containment. A vacuum truck was immediately dispatched to the Site to recover all free-standing fluids; approximately 25 bbls of crude oil were recovered. BTA reported the release to the NMOCD immediately via email and submitted a (Form C-141 on May 5, 2023. The release was assigned Incident Number nAPP2313656375.

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

BTA Oil Producers, LLC Deferral Request Carrasco 14-1



### SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized for 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 less than 50 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-03460-POD 1, located approximately 0.27 miles east of the Site. The groundwater well has a reported depth to groundwater of 38 feet bgs and a total depth of 100 feet bgs. All wells used for depth to groundwater determination are depicted on Figure 1 and the associated well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a river, located approximately 1,360 feet northeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (medium potential karst designation area). Site receptors are identified on Figure 1.

Based on the results of the Site Characterization, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

Benzene: 10 milligrams per kilogram (mg/kg)

Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg

Total petroleum hydrocarbons (TPH): 100 mg/kg

Chloride: 600 mg/kg

### SITE ASSESSMENT ACTIVITIES

On June 6, 2023 and July 12, 2023, Site assessment activities were conducted to evaluate the release extents based on information provided on the Form C-141 and visual observations. One borehole (BH01) was advanced via hydrovac within the earthen containment to assess the vertical extent of potentially impacted soil. Five discrete delineation soil samples (BH01/BH01A/BH01B/BH01C/BH01D) were collected from the borehole at depths ranging from 0.5 feet to 4 feet bgs. Four boreholes (SS01/SS01A through SS04/SS04A) were advanced via hand-auger around the earthen containment to confirm the lateral extent of the release. Two discrete delineation soil samples were collected from the boreholes at depths of 0.5 feet and 2 feet bgs.

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

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

BTA Oil Producers, LLC Deferral Request Carrasco 14-1



analyses of the following constituents of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standard Method SM4500.

### LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for delineation soil samples SS01/SS01A through SS04/SS04A, collected around the earthen containment at depths of 0.5 feet and 2 feet bgs, indicated all COC concentrations were compliant with the Site Closure Criteria and successfully define the lateral extent of the release.

Laboratory analytical results for delineation soil samples BH01 and BH01A, collected within the earthen containment at depths of 0.5 feet and 1-foot bgs, respectively, indicated TPH concentrations exceeded the Site Closure Criteria. Subsequent delineation samples BH01B, BH01C, and BH01D, collected at depths ranging from 2 feet to 4 feet bgs, indicated all COC concentrations were compliant with the Site Closure Criteria and successfully define the vertical extent of the release. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix D.

### **DEFERRAL REQUEST**

Results of the Site assessment indicated the presence of impacts to soil, specifically concentrations of TPH exceeding the Closure Criteria within the top 2 feet of soil inside the earthen bermed containment and in the immediate vicinity of production tanks, equipment, and active flowlines. As such, BTA is requesting a deferral of final remediation due to the presence of active production equipment and surface pipelines within the earthen containment. The impacted soil is limited to the area immediately beneath the earthen containment and active production equipment, where remediation could compromise the integrity of the equipment or would require a major facility deconstruction to safely remediate.

The impacted soil remaining in place beneath the containment is delineated vertically by delineation soil sample BH01B, collected at 2 feet bgs, and laterally by delineation soil samples SS01/SS01A through SS04/SS04A. A maximum of 79 cubic yards of TPH-impacted soil remains in place beneath the containment assuming a maximum 2-foot depth based on delineation soil samples listed above.

BTA does not believe deferment will result in imminent risk to human health, the environment, or groundwater. Depth to groundwater has been determined to be less than 50 feet bgs, the release was contained laterally by the earthen containment, and the impacted soil remaining in place is limited to the area immediately beneath the containment.

Based on the presence of active production equipment within the release area and the complete lateral and vertical delineation of impacted soil remaining in place, BTA requests deferral of final remediation for Incident Numbers nRM2024742676 and nAPP2313656375 until final reclamation of the well pad or major construction, whichever comes first.

BTA Oil Producers, LLC Deferral Request Carrasco 14-1



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

Daniel R. Moir, PG

Sincerely,

**Ensolum, LLC** 

Hadlie Green Project Geologist

Senior Managing Geologist

Mr. Lionel Onsurez

Appendices:

CC:

Figure 1 Site Receptor Map

Kelton Beaird, BTA

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

Appendix C Photographic Log

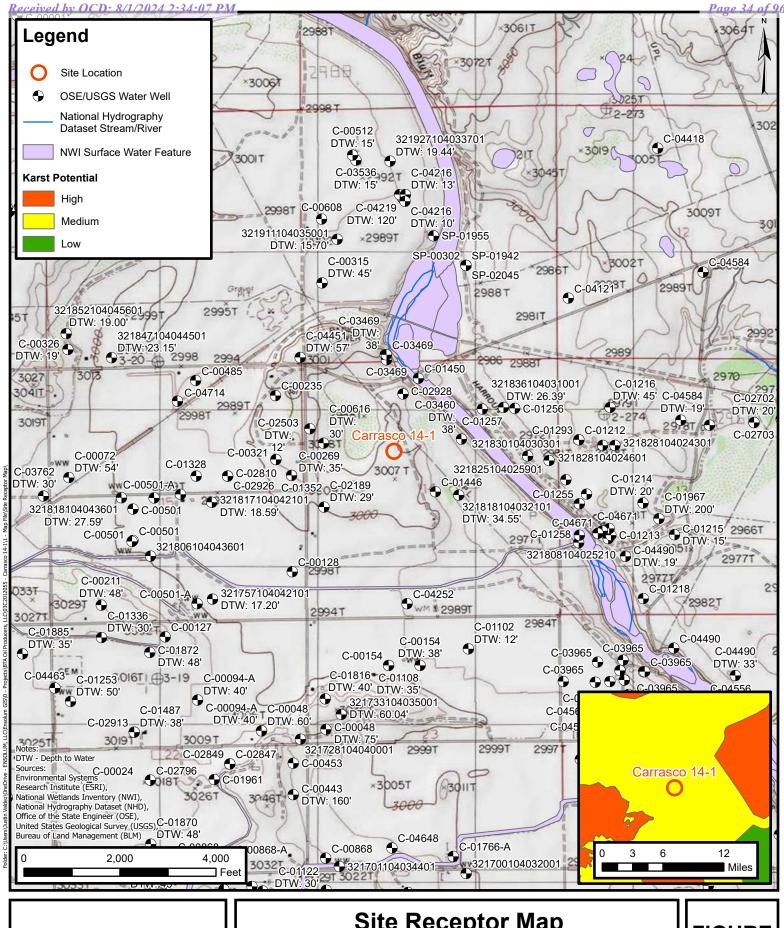
Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation

Appendix E NMOCD Notifications

Appendix F Final C-141s



**FIGURES** 





# **Site Receptor Map**

BTA Oil Producers Carrasco 14-1 Incident Numbers: NRM2024742676 & nAPP2313656375 Unit F, Sec 14, T23S, R28E Eddy County, New Mexico

FIGURE





## **Delineation Soil Sample Locations**

BTA Oil Producers
Carrasco 14-1
Incident Numbers: NRM2024742676 & nAPP2313656375
Unit F, Sec 14, T23S, R28E
Eddy County, New Mexico

FIGURE 2



**TABLES** 



### TABLE 1 **SOIL SAMPLE ANALYTICAL RESULTS** Carrasco 14-1 **BTA Oil Producers, LLC Eddy County, New Mexico**

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Cl	losure Criteria (l	NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
				Deli	neation Soil Sa	mples				
BH01	06/06/2023	0.5	<0.050	1.33	57.5	1,110	198	1,168	1,366	64.0
BH01A	06/06/2023	1	< 0.050	7.60	469	33,500	8,070	33,969	42,039	352
BH01B	06/06/2023	2	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
BH01C	06/06/2023	3	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
BH01D	06/06/2023	4	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
SS01	07/12/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS01A	07/12/2023	2	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS02	07/12/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS02A	07/12/2023	2	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS03	07/12/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS03A	07/12/2023	2	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
SS04	07/12/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS04A	07/12/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0

### Notes:

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

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

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

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

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

TPH: Total Petroleum Hydrocarbon



**APPENDIX A** 

Referenced Well Records



### WELL RECORD & LOCASTATE ENGINEER OFFICE ROSWELL, NEW MEXICO

### OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

2010 OCT 13 PM 1 22

	POD NUME	BER (WEL	I. NUMBER)				OSE FILE NU	MBER(S)				
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GENERAL AND WELL LOCATION							1	-393-338	ج د			
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[] []			058				Hubbs		NM	Ŕ	1458	
5		<del></del>	<del></del>	DEGREES	MINUTES SECO	ONDS						
N V	WELL				_		• ACCURACY	REQUIRED: ONE TE	CTILOF A SEC	COMD		
3	LOCATI (FROM C	h-		/32		o N	1	QUIRED: WGS 84	***************************************	201117		
曼			LONGITUDE 6		<del></del>	-2 W						
SE	DESCRIPT	ION REL	ATING WELL LOCAT	ION TO STREET ADDRI	SS AND COMMON LAND	MARKS						
	West	579	e of Peros Ri	ver approx.	. 50 mile south	8 CR	31 Bridg	<u> </u>				
<u> </u>	(2.5 ACI		(10 ACRE)	(40 ACRE)	(160 ACRE)	SECTION	<del> </del>	TOWNSHIP	SOMTO	RANGE	EV21	
J.	NE .	1/4	NW 1/4	SW 4	NE 1/4	14	/	23	Sourie	28	west	
No	SUBDIVISI	ION NAM			<u>,                                      </u>	LOT NUN	IRER	BLOCK NUMBER		UNIT/TRA	СТ	
2. OPTIONAL								-				
2.0	HYDROGR	APHIC SU	RVEY					MAP NUMBER		TRACTINU	MBER	
										}		
	LICENSE N	UMBER	NAME OF LIC	ENSED DRILLER				NAME OF WELL DI	RILLING CON	APANY.		
	WOHLERZ HUNGT X HORE, LLC: John Worris Hungry Horse, LLC  DRILLING STARTED DRILLING ENDED DEPTH OF COMPLETED WELL (FT) BORE HOLE DEPTH (FT) DEPTH WATER FIRST ENCOUNTERED (FT)											
	DRILLING STARTED DEPTH OF COMPLETED WELL (FT) BORE HOLE DEPTH (FT) DEPTH WATER FIRST ENCOUNTERED (FT)											
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38		<del> </del>	<del></del>					<del></del>				
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	10'	12'			Sandy Re	d Topsoil W/Gravel		☐ YES	□ NO		
	12'	20'	_8	<u> </u>		liche Rock consolidated		YES	□ NO		
	20	30'	10	· · · · · · · · · · · · · · · · · · ·	Moist Ta	in Sand of Pea Gravel		☐ YES	□ NO		
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WE	50	75'	25		Blue/Gr	ay Gypsum	<u> </u>	☐ YES	□ NO		
, OF	ี 9 <u>5'</u>	80	5	<u> </u>	Blue S	andy Clay		☐ YES	□ NO		
GEOLOGIC LOG OF WELL	80'	100'	20	'	Red S	Sandy Clay (Water at	92')	☐ YES	□ NO		
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USGS Home Contact USGS Search USGS

**National Water Information System: Web Interface** 

**USGS** Water Resources

Data Category: Geographic Area:

Groundwater ✓ New Mexico ✓ GO

### Click to hideNews Bulletins

- Explore the NEW <u>USGS National Water Dashboard</u> interactive map to access real-time water data from over 13,500 stations nationwide.\_
- Full News

Groundwater levels for New Mexico

Click to hide state-specific text

Important: <u>Next Generation Monitoring Location Page</u>

### Search Results -- 1 sites found

Agency code = usgs site\_no list =

• 321818104032101

62611

### Minimum number of levels = 1

Save file of selected sites to local disk for future upload

### USGS 321818104032101 23S.28E.14.32222

Eddy County, New Mexico

Latitude 32°18'18", Longitude 104°03'21" NAD27

Land-surface elevation 2,981 feet above NAVD88

The depth of the well is 100 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

### **Output formats**

Table of data	
Tab-separated data	
Graph of data	
Reselect period	

Reselect perio	<u>Ju</u>									
Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measure
1946-11-06		D	62610		2948.34	NGVD29	1	Z		
1946-11-06		D	62611		2949.90	NAVD88	1	z		
1946-11-06		D	72019	31.10			1	Z		
1947-02-08		D	62610		2948.34	NGVD29	1	Z		
1947-02-08		D	62611		2949.90	NAVD88	1	Z		
1947-02-08		D	72019	31.10			1	Z		
1947-09-23		D	62610		2948.19	NGVD29	1	Z		
1947-09-23		D	62611		2949.75	NAVD88	1	Z		
1947-09-23		D	72019	31.25			1	Z		
1948-01-12		D	62610		2944.89	NGVD29	1	Z		
1948-01-12		D	62611		2946.45	NAVD88	1	Z		
1948-01-12		D	72019	34.55			1	Z		
1948-02-09		D	62610		2944.50	NGVD29	1	Z		

2946.06

NAVD88

1948-02-09

Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measure
1948-02-09		D	72019	34.94			1	Z		

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	Α	Approved for publication Processing and review completed.

**Questions or Comments Automated retrievals** <u>Help</u> **Data Tips** Explanation of terms Subscribe for system changes **News** 

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U.S. Department of the Interior | U.S. Geological Survey Title: Groundwater for New Mexico: Water Levels URL: https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?

Page Contact Information: New Mexico Water Data Maintainer Page Last Modified: 2023-07-31 08:34:30 EDT

0.29 0.26 nadww02

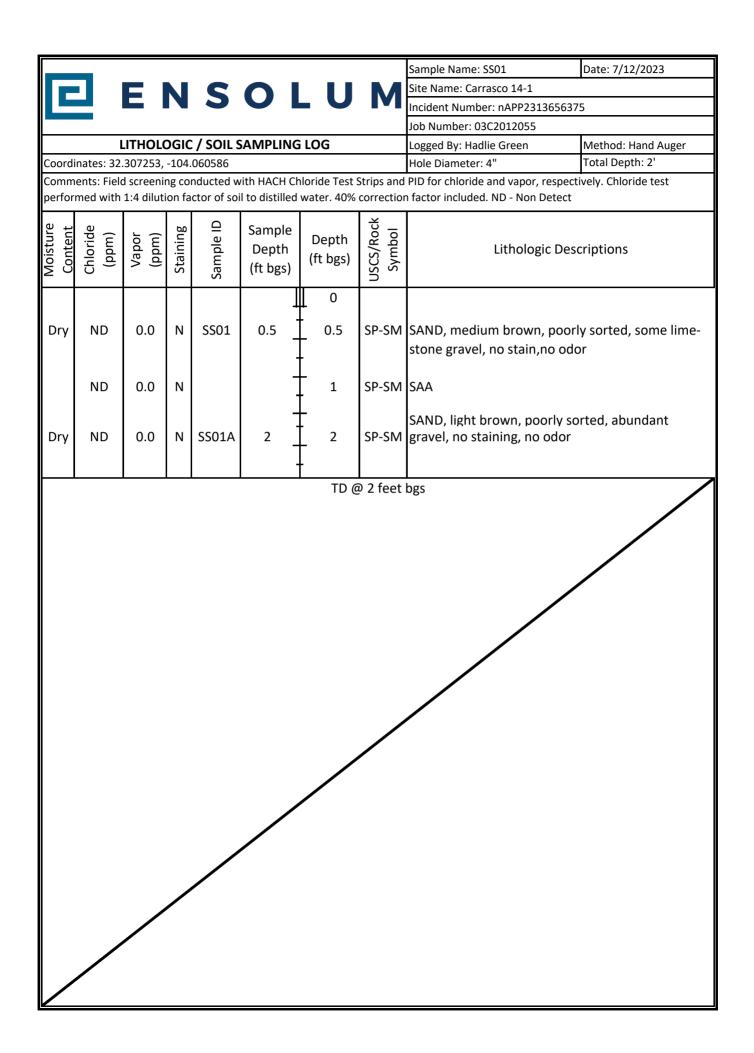


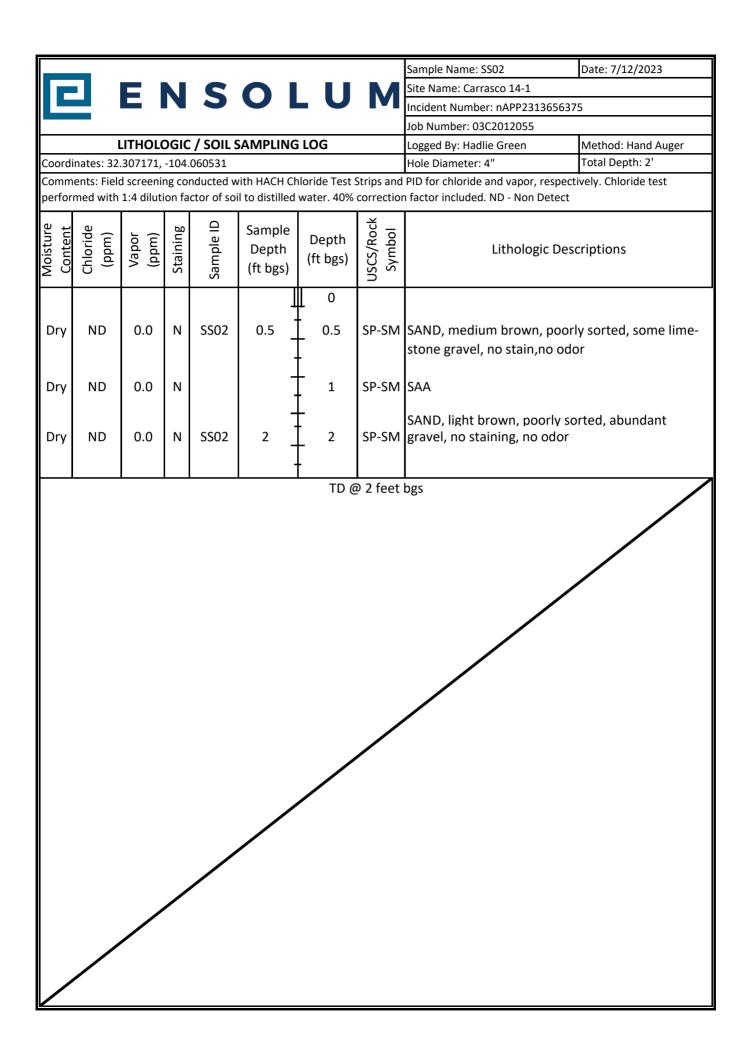


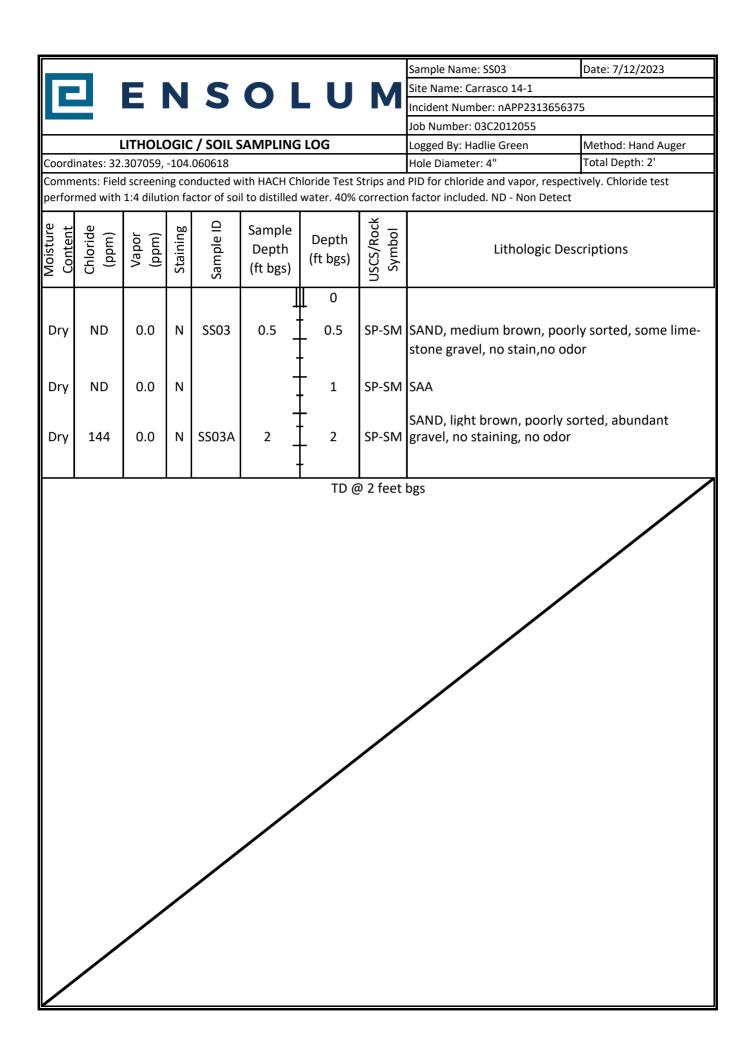
**APPENDIX B** 

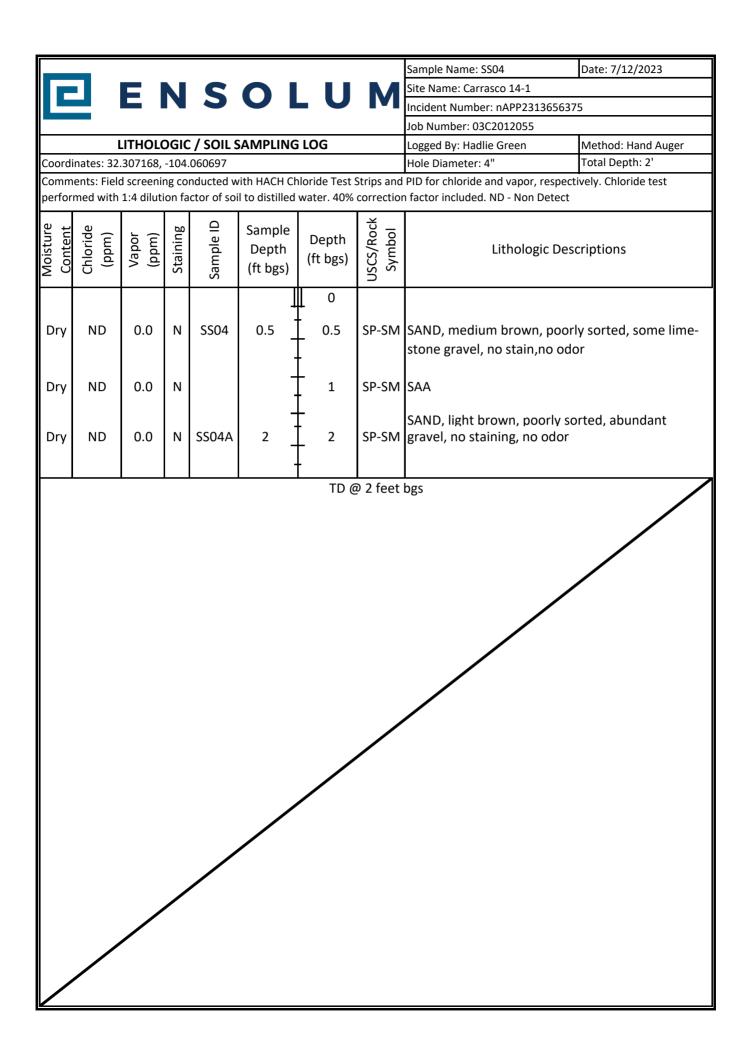
Lithologic Soil Sampling Logs

								Carrada Namas, DUO1	Data: 6/6/2022				
								Sample Name: BH01 Site Name: Carrasco 14-1	Date: 6/6/2023				
		ΕI	N	S	OL	_ U	M	Incident Number: nAPP23136563					
			_		_	-		Job Number: 03C2012055	J.J				
		ITHOLO	GIC	/ SOIL S	AMPLING	iloe		Logged By: Ronni Hayes	Method: Hydrovac				
Coord				4.0605970	AIVII LIIVO	100		Hole Diameter: ~1'	Total Depth: 4'				
Comm	ents: Field	d screenir	ng co	nducted w				PID for chloride and vapor, respense factor included.	·				
OSO US Standard (ft pgs) (tt pgs) Sy							Lithologic De	escriptions					
						0							
Wet	347.2	168.7	Υ	BH01	0.5	0.5	SP-SM	SAND, medium brown, poo stone gravel, stained, odor					
Wet	<173.8	345.4	N	BH01A	1	SAA (same as above)							
Wet <173.8 0.6 N BH01B 2 SP-SM SAND, light brown, poorly sorted, abun rocks, no staining, no odor													
Wet	<173.8	0.4	N	вно1С	3 -	- - 3 -	SP-SM	1 SAA					
Wet	173.8	3.3	N	BH01D	4	- 4 -	СННЕ	Caliche, light tan-white, no sorted, some sand	stain, odor, poorly				
					_	-		TD at 4 ft bgs					
	TD at 4 ft bgs												
/													











APPENDIX C

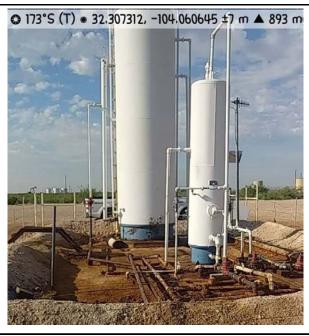
Photographic Log

### **ENSOLUM**

### Photographic Log

BTA Oil Producers, LLC Carrasco 14-1

Incident Numbers nAPP2313656375 & nRM2024742676



Photograph 1 Date: June 6, 2023

Description: The earthen containment taken during delineation activities

View: South



Photograph 2 Date: June 6, 2023

Description: The earthen containment taken during delineation activities

View: Southeast



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



June 12, 2023

HADLIE GREEN
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: CARRASCO 14-1H

Enclosed are the results of analyses for samples received by the laboratory on 06/07/23 14:20.

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

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

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

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

Received: 06/07/2023 Reported: 06/12/2023

Project Name: CARRASCO 14-1H Project Number: 03C2012055

Project Location: BTA( 32.3076687 - 104.0606657 )

Sampling Date: 06/06/2023

Sampling Type: Soil

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

### Sample ID: BH 01 0.5' (H232898-01)

	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2023	ND	2.22	111	2.00	1.28	
Toluene*	0.087	0.050	06/09/2023	ND	2.21	111	2.00	0.322	GC-NC1
Ethylbenzene*	0.252	0.050	06/09/2023	ND	2.26	113	2.00	1.27	GC-NC1
Total Xylenes*	0.995	0.150	06/09/2023	ND	6.68	111	6.00	1.15	GC-NC1
Total BTEX	1.33	0.300	06/09/2023	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	122	% 71.5-13	4						
Chloride, SM4500Cl-B mg/kg			Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/08/2023	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	57.5	10.0	06/08/2023	ND	205	103	200	19.8	
DRO >C10-C28*	1110	10.0	06/08/2023	ND	205	103	200	17.3	
EXT DRO >C28-C36	198	10.0	06/08/2023	ND					
Surrogate: 1-Chlorooctane	106	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

### 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: 06/07/2023 Sampling Date: 06/06/2023 Reported: 06/12/2023 Sampling Type: Soil

Project Name: CARRASCO 14-1H Sampling Condition: Cool & Intact Project Number: Sample Received By: 03C2012055 Shalyn Rodriguez

Applyzod By: MC

Project Location: BTA( 32.3076687 - 104.0606657 )

ma/ka

### Sample ID: BH 01 A 1' (H232898-02)

RTFY 8021R

BIEX 8021B	mg	/кд	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2023	ND	2.22	111	2.00	1.28	
Toluene*	0.507	0.050	06/09/2023	ND	2.21	111	2.00	0.322	GC-NC1
Ethylbenzene*	0.627	0.050	06/09/2023	ND	2.26	113	2.00	1.27	GC-NC1
Total Xylenes*	6.47	0.150	06/09/2023	ND	6.68	111	6.00	1.15	GC-NC1
Total BTEX	7.60	0.300	06/09/2023	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	121	% 71.5-13	4						
hloride, SM4500Cl-B mg/kg			Analyze	rzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	06/08/2023	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	Analyzed By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	469	50.0	06/08/2023	ND	205	103	200	19.8	
DRO >C10-C28*	33500	50.0	06/08/2023	ND	205	103	200	17.3	
EXT DRO >C28-C36	8070	50.0	06/08/2023	ND					
Surrogate: 1-Chlorooctane	188	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	1490	% 49.1-14	8						

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### Analytical Results For:

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

Received: 06/07/2023 Sampling Date: 06/06/2023

Reported: 06/12/2023 Sampling Type: Soil

Project Name: CARRASCO 14-1H Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C2012055 Shalyn Rodriguez

Project Location: BTA( 32.3076687 - 104.0606657 )

### Sample ID: BH 01 B 2' (H232898-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2023	ND	2.22	111	2.00	1.28	
Toluene*	<0.050	0.050	06/09/2023	ND	2.21	111	2.00	0.322	
Ethylbenzene*	< 0.050	0.050	06/09/2023	ND	2.26	113	2.00	1.27	
Total Xylenes*	<0.150	0.150	06/09/2023	ND	6.68	111	6.00	1.15	
Total BTEX	<0.300	0.300	06/09/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/08/2023	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	205	103	200	19.8	
DRO >C10-C28*	<10.0	10.0	06/08/2023	ND	205	103	200	17.3	
EXT DRO >C28-C36	<10.0	10.0	06/08/2023	ND					
Surrogate: 1-Chlorooctane	93.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105 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: 06/07/2023 Sampling Date: 06/06/2023

Reported: 06/12/2023 Sampling Type: Soil

Project Name: CARRASCO 14-1H Sampling Condition: Cool & Intact
Project Number: 03C2012055 Sample Received By: Shalyn Rodriguez

Applyzod By: MC

Project Location: BTA( 32.3076687 - 104.0606657 )

ma/ka

### Sample ID: BH 01 C 3' (H232898-04)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2023	ND	2.22	111	2.00	1.28	
Toluene*	<0.050	0.050	06/09/2023	ND	2.21	111	2.00	0.322	
Ethylbenzene*	<0.050	0.050	06/09/2023	ND	2.26	113	2.00	1.27	
Total Xylenes*	<0.150	0.150	06/09/2023	ND	6.68	111	6.00	1.15	
Total BTEX	<0.300	0.300	06/09/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 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	112	16.0	06/08/2023	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	205	103	200	19.8	
DRO >C10-C28*	<10.0	10.0	06/08/2023	ND	205	103	200	17.3	
EXT DRO >C28-C36	<10.0	10.0	06/08/2023	ND					
Surrogate: 1-Chlorooctane	90.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

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### Analytical Results For:

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

Received: 06/07/2023 Sampling Date: 06/06/2023 Reported: 06/12/2023 Sampling Type: Soil

Project Name: CARRASCO 14-1H Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C2012055 Shalyn Rodriguez

Project Location: BTA( 32.3076687 - 104.0606657 )

### Sample ID: BH 01 D 4' (H232898-05)

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	06/09/2023	ND	2.19	110	2.00	6.15	
Toluene*	<0.050	0.050	06/09/2023	ND	2.26	113	2.00	5.87	
Ethylbenzene*	<0.050	0.050	06/09/2023	ND	2.14	107	2.00	4.65	
Total Xylenes*	<0.150	0.150	06/09/2023	ND	6.65	111	6.00	4.62	
Total BTEX	<0.300	0.300	06/09/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 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	144	16.0	06/08/2023	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	177	88.3	200	4.58	
DRO >C10-C28*	<10.0	10.0	06/08/2023	ND	175	87.6	200	5.37	
EXT DRO >C28-C36	<10.0	10.0	06/08/2023	ND					
Surrogate: 1-Chlorooctane	119 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	127 9	% 49.1-14	8						

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### **Notes and Definitions**

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or

matrix interference's.

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

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

interfering compounds.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

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

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

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

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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

### 101 East Marland, Hobbs, NM 88240

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

Company Name: Ensolum, LLC Project Manager: Hadlie Green Address: 3122 National Parks Hwy City: Carlshad		P.O. #: Company: BTA Oil		ANALYSIS	YSIS REQUEST
Project Manager: Hadlie Green Address: 3122 National Parks Hwy City: Carlshad		#:			
Address: 3122 National Parks Hwy		Company: BTA Oil			
City: Carlshad					
ory. ouropus	State: NM Zip: 88220	Attn: Kelton Beaird			
Phone #: 432-557-8895	Fax#:	Address: 104 S Pecos	s St		
Project #: 03C2012055	Project Owner: BTA Oil	City: Midland			
Project Name: Carrasco 14-1H		State: Texas Zip: 79701	01		
Project Location: 32.3076687, -104.0606657	06657	Phone #:			
Sampler Name: Ronni Hayes		Fax#:			
FOR LAB USE ONLY	natrix	PRESERV.	SAMPLING		
Lab I.D. Sample I.D.	(G)RAB OR (C)OMI # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	BTEX	CI-	
BHOI	×	×	0965 ×	X	
			6910 1		
3 BH018	1		2190		
4 BHOIC	-		1035		
SHOID SHOID	44	A A	1040 W	W W	
1					
		Ŧ			
	Cilla	600	1		
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Relinquished By:	Time: 30 Stown	grant .	are er	☐ Yes ☐ No ☐ Add"I Phone #: nailed. Please provide Email address:  → CON	hone #: iil address:
Relinquished By:	Date: Received By:		REMARKS:		
Delivered By: (Circle One)  Sampler - UPS - Bus - Other: Corr	Sample Condition Cool Infact.  Corrected Temp. CO 8 Aves Yes	dition CHECKED BY: (Initials) Yes	Turnaround Time: Thermometer ID #113 Correction Factor -0.5°C	Standard 🖂	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C   Yes   Yes



July 17, 2023

HADLIE GREEN

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: CARRASCO 14-1

Enclosed are the results of analyses for samples received by the laboratory on 07/12/23 9:47.

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

 Received:
 07/12/2023

 Reported:
 07/17/2023

 Project Name:
 CARRASCO 14-1

Project Name: CARRASCO 14-1
Project Number: 03C2012055
Project Location: BTA - NM

Sampling Date: 07/12/2023

Sampling Type: Soil

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

### Sample ID: SS 01 A 2' (H233545-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2023	ND	2.02	101	2.00	0.582	
Toluene*	<0.050	0.050	07/12/2023	ND	2.03	101	2.00	0.0219	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	2.14	107	2.00	0.829	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	6.45	108	6.00	0.336	
Total BTEX	<0.300	0.300	07/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 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	07/12/2023	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/13/2023	ND	208	104	200	0.413	
DRO >C10-C28*	<10.0	10.0	07/13/2023	ND	208	104	200	0.292	
EXT DRO >C28-C36	<10.0	10.0	07/13/2023	ND					
Surrogate: 1-Chlorooctane	127	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	135	% 49.1-14	8						

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### Analytical Results For:

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

Received: 07/12/2023 Sampling Date: 07/12/2023

Reported: 07/17/2023 Sampling Type: Soil

Project Name: CARRASCO 14-1 Sampling Condition: Cool & Intact
Project Number: 03C2012055 Sample Received By: Tamara Oldaker

Project Location: BTA - NM

### Sample ID: SS 02 A 2' (H233545-02)

BTEX 8021B	mg	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2023	ND	2.02	101	2.00	0.582	
Toluene*	<0.050	0.050	07/12/2023	ND	2.03	101	2.00	0.0219	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	2.14	107	2.00	0.829	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	6.45	108	6.00	0.336	
Total BTEX	<0.300	0.300	07/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/12/2023	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/13/2023	ND	208	104	200	0.413	
DRO >C10-C28*	<10.0	10.0	07/13/2023	ND	208	104	200	0.292	
EXT DRO >C28-C36	<10.0	10.0	07/13/2023	ND					
Surrogate: 1-Chlorooctane	123	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	133	% 49.1-14	8						

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### Analytical Results For:

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

Received: 07/12/2023 Sampling Date: 07/12/2023

Reported: 07/17/2023 Sampling Type: Soil

Project Name: CARRASCO 14-1 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C2012055 Tamara Oldaker

Project Location: BTA - NM

### Sample ID: SS 03 A 2' (H233545-03)

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	07/12/2023	ND	2.02	101	2.00	0.582	
Toluene*	<0.050	0.050	07/12/2023	ND	2.03	101	2.00	0.0219	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	2.14	107	2.00	0.829	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	6.45	108	6.00	0.336	
Total BTEX	<0.300	0.300	07/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 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	144	16.0	07/13/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/13/2023	ND	208	104	200	0.413	
DRO >C10-C28*	<10.0	10.0	07/13/2023	ND	208	104	200	0.292	
EXT DRO >C28-C36	<10.0	10.0	07/13/2023	ND					
Surrogate: 1-Chlorooctane	122 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	130 9	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Freene



### Analytical Results For:

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

Received: 07/12/2023 Sampling Date: 07/12/2023 Soil

Reported: 07/17/2023 Sampling Type: Project Name: CARRASCO 14-1 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C2012055 Tamara Oldaker

Project Location: BTA - NM

### Sample ID: SS 04 A 2' (H233545-04)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2023	ND	2.02	101	2.00	0.582	
Toluene*	<0.050	0.050	07/12/2023	ND	2.03	101	2.00	0.0219	
Ethylbenzene*	< 0.050	0.050	07/12/2023	ND	2.14	107	2.00	0.829	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	6.45	108	6.00	0.336	
Total BTEX	<0.300	0.300	07/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 %	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	07/13/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/13/2023	ND	208	104	200	0.413	
DRO >C10-C28*	<10.0	10.0	07/13/2023	ND	208	104	200	0.292	
EXT DRO >C28-C36	<10.0	10.0	07/13/2023	ND					
Surrogate: 1-Chlorooctane	129 9	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	140 9	6 49.1-14	8						

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Celeg D. Freene



### Analytical Results For:

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

Received: 07/12/2023 Sampling Date: 07/12/2023
Reported: 07/17/2023 Sampling Type: Soil

Project Name: CARRASCO 14-1 Sampling Condition: Cool & Intact
Project Number: 03C2012055 Sample Received By: Tamara Oldaker

Project Location: BTA - NM

### Sample ID: SS 01 0.5' (H233545-05)

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	07/12/2023	ND	2.02	101	2.00	0.582	
Toluene*	<0.050	0.050	07/12/2023	ND	2.03	101	2.00	0.0219	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	2.14	107	2.00	0.829	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	6.45	108	6.00	0.336	
Total BTEX	<0.300	0.300	07/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 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	07/13/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/13/2023	ND	208	104	200	0.413	
DRO >C10-C28*	<10.0	10.0	07/13/2023	ND	208	104	200	0.292	
EXT DRO >C28-C36	<10.0	10.0	07/13/2023	ND					
Surrogate: 1-Chlorooctane	128	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	137	% 49.1-14	8						

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Celey D. Keine



### Analytical Results For:

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

Received: 07/12/2023 Sampling Date: 07/12/2023
Reported: 07/17/2023 Sampling Type: Soil

Project Name: CARRASCO 14-1 Sampling Condition: Cool & Intact
Project Number: 03C2012055 Sample Received By: Tamara Oldaker

Project Location: BTA - NM

### Sample ID: SS 02 0.5' (H233545-06)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2023	ND	2.00	100	2.00	0.826	
Toluene*	<0.050	0.050	07/13/2023	ND	1.97	98.7	2.00	1.56	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	1.95	97.3	2.00	1.79	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	5.91	98.6	6.00	1.44	
Total BTEX	<0.300	0.300	07/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 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	07/13/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/13/2023	ND	208	104	200	0.413	
DRO >C10-C28*	<10.0	10.0	07/13/2023	ND	208	104	200	0.292	
EXT DRO >C28-C36	<10.0	10.0	07/13/2023	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

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Celey D. Keine



07/12/2023

### Analytical Results For:

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

Received: 07/12/2023 Sampling Date:

Reported: 07/17/2023 Sampling Type: Soil

Project Name: CARRASCO 14-1 Sampling Condition: Cool & Intact
Project Number: 03C2012055 Sample Received By: Tamara Oldaker

Project Location: BTA - NM

### Sample ID: SS 03 0.5' (H233545-07)

BTEX 8021B	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2023	ND	2.00	100	2.00	0.826	
Toluene*	<0.050	0.050	07/13/2023	ND	1.97	98.7	2.00	1.56	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	1.95	97.3	2.00	1.79	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	5.91	98.6	6.00	1.44	
Total BTEX	<0.300	0.300	07/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 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	07/13/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	204	102	200	1.38	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	199	99.6	200	4.84	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					
Surrogate: 1-Chlorooctane	117 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	125	% 49.1-14	8						

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### Analytical Results For:

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

Received: 07/12/2023 Sampling Date: 07/12/2023

Reported: 07/17/2023 Sampling Type: Soil

Project Name: CARRASCO 14-1 Sampling Condition: Cool & Intact
Project Number: 03C2012055 Sample Received By: Tamara Oldaker

Project Location: BTA - NM

### Sample ID: SS 04 0.5' (H233545-08)

BTEX 8021B	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2023	ND	2.00	100	2.00	0.826	
Toluene*	<0.050	0.050	07/13/2023	ND	1.97	98.7	2.00	1.56	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	1.95	97.3	2.00	1.79	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	5.91	98.6	6.00	1.44	
Total BTEX	<0.300	0.300	07/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 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	07/13/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/13/2023	ND	204	102	200	1.38	
DRO >C10-C28*	<10.0	10.0	07/13/2023	ND	199	99.6	200	4.84	
EXT DRO >C28-C36	<10.0	10.0	07/13/2023	ND					
Surrogate: 1-Chlorooctane	132	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	144	% 49.1-14	8						

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Celey D. Keene



### **Notes and Definitions**

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Freene

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



	(0/0) 393-2326 1	FAX (5/5) 393-2476	476					
Company Name:	Ensolum, LLC			BILL TO	3		DECLE STREET	J
Project Manager:		areen		Q.	12055	OIC LANK	אהעטבטו	$\perp$
Address: 601 N	601 N. Marienfeld St. STE 400	400		Company: BTA	1			_
City: Midland		State: TX	Zip: 79701	Attn: Kelton	Beard	)		_
Phone #: 432	-557-8895	Fax #:		Address: 1045 Pecos	05 5+	00		_
Project #: Ø3C	2012055	Project Owner:	: Ensolum	city: Midland		15		_
Project Name: (	Carrasco	14-1		35. 3	19701	14	_	_
Project Location:	23			7.	-77.03	w		_
Sampler Name:	Hadrie (	areen		Fax#:		S		_
FOR LAB USE ONLY			MATRIX	ESERV.	SAMPLING 5			_
Lab I.D.	Sample I.D.	Sample Depth (feet)	B OR (C)OMF ITAINERS INDWATER EWATER	R: BASE:	H 801	LOPIDE		
HZ33543	SSOIA	)	GRO	OTH	-	CI		
ىد	SSORA	g)	X -	X	093a X	\(\rightarrow\)		_
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\	/			/			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
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analyses. All claims including tho service. In no event shall Cardinal affiliates or successors arising out	infiliding those for negligence and any other shall Cardinal be liable for incidental or consecutive and of cardinal be related to the performance	cause whatsoever shall be dee quental damages, including who of services hereunder by Card	erned waived unless made in writing an ethout limitation, business interruptions, dinal, regardless of whether such claim	analyses, 4c dams, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors affsing 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 reasons or otherwise.	affer completion of the applicable by dient, its subsidiaries.			
Madie Green	reen	Time 947	Received By:	Market Com	Verbal Result:   All Results are emailed. Ple  Blennings@ensolum.com	Verbal Result: ☐ Yes ☐ No ☐ Add'! Phone #: All Results are emailed. Please provide Email address: BJennings@ensolum.com		
Relinquished By:		Date:	Received By:		REMARKS: # Cus	mus was	off Ix I'm	J
Delivered By: (Circle One)		Observed Temp. °C	Sample Condition	2	Turnaround Time:	a	ly) Sample Condition	0
Sampler - UPS - Bus - Other:	- Other: Co.	Tracted Temp. °C	Tyes Tyes	(mmais)	1	X	Observed Temp, °C	
					1			



APPENDIX E

**NMOCD Notifications** 

 From:
 Buchanan, Michael, EMNRD

 To:
 Hadlie Green; Enviro, OCD, EMNRD

 Cc:
 Tacoma Morrissey; Peter Van Patten; Kelton Beaird; Nathan Sirgo

 Subject:
 RE: [EXTERNAL] BTA - Sampling Notification - Week of 06/05/2023

**Date:** Friday, June 2, 2023 4:54:56 PM

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

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

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

Received.

Thank you for the notification. Please 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.

Mike Buchanan • Environmental Specialist

Environmental Bureau

EMNRD - Oil Conservation Division

8801 Horizon Blvd. NE | Albuquerque, NM 87113

| michael.buchanan@emnrd.nm.gov http://www.emnrd.nm.gov/ocd\_



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

**Sent:** Friday, June 2, 2023 9:25 AM

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

**Cc:** Tacoma Morrissey <a href="mailto:kmorrissey@ensolum.com">kmorrissey@ensolum.com</a>; Peter Van Patten <a href="mailto:kmorrissey@ensolum.com">kmorrissey@ensolum.com</a>;

Kelton Beaird < KBeaird@btaoil.com>; Nathan Sirgo < nsirgo@btaoil.com> **Subject:** [EXTERNAL] BTA - Sampling Notification - Week of 06/05/2023

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

All,

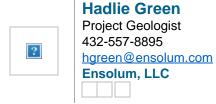
BTA anticipates collecting confirmation samples at the following locations the week of June 5, 2023.

- Harroun East Tank Battery / nAPP2202845563
  - Sampling Date: 6/5/2023 @ 9:00 AM MST
- Vaca Draw 9418 JV-P 001 / nCH1835540209

Sampling Date: 6/6/2023 @ 9:00 AM MST

- Carrasco 14-1H / nAPP2313656375
  - Sampling Date: 6/6/2023 @ 9:00 AM MST
- Chiso 14 State Jet Pump Excavation / nAPP2205837214
  - Sampling Date: 6/5/2023 @ 9:00 AM MST

Thank you,



From: <u>Buchanan, Michael, EMNRD</u>

To: Hadlie Green; Enviro, OCD, EMNRD; Velez, Nelson, EMNRD; Hamlet, Robert, EMNRD

Cc: <u>Tacoma Morrissey</u>; <u>Kelton Beaird</u>

Subject: RE: [EXTERNAL] BTA - Sampling Notification - Week of 07/10/2023

**Date:** Wednesday, July 5, 2023 3:17:40 PM

Attachments: image001.png image002.png image003.png

image003.png image004.png image005.jpg

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

Good afternoon,

Thank you for the notification. Please include a copy of this and all notifications in the C-141, remedial and/or closure reports to ensure the notifications are documented in the project file.

Regards,

Mike Buchanan • Environmental Specialist

Environmental Bureau
EMNRD - Oil Conservation Division
8801 Horizon Blvd. NE | Albuquerque, NM 87113

| michael.buchanan@emnrd.nm.gov http://www.emnrd.nm.gov/ocd



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

Sent: Wednesday, July 5, 2023 1:46 PM

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

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

Subject: [EXTERNAL] BTA - Sampling Notification - Week of 07/10/2023

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 July 10, 2023.

- Carrasco 14-1 / nAPP2313656375
  - Sampling Date: 7/12/2023 @ 9:00 AM MST

# Mesa B #25 / nAPP2112744758

• Sampling Date: 7/6-7/2023 @ 9:00 AM MST

Thank you,





**APPENDIX F** 

Final C-141s

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	NR.M2024742676
District RP	
Facility ID	
Application ID	

# **Release Notification**

# **Responsible Party**

Site Name:	Carrasco 14 #* Discovered: 8/2  Section			Site Type: Tank Battery  API# (if applicable) Nearest well: Carrasco 14 #1 API #30-015-26121  County
Site Name:				Site Type: Tank Battery  API# (if applicable) Nearest well: Carrasco 14 #1
Site Name:				Site Type: Tank Battery
and Jan			(IVAD 65 III deci	
atitude: <b>32</b> 3	<b>30763°</b> Longituo	de: <b>-104.06</b>	067°	of Release Source
Contact mail	ing address: 104	S. Pecos St	., Midland, TX 7970	01
Contact ema	il: bhall@btaoi	il.com		Incident # (assigned by OCD)
	ne: Bob Hall			Contact Telephone: <b>432-682-3753</b>
Contact Nam			, LLC	OGRID: <b>260297</b>

# Nature and Volume of Release

Materia	l(s) Released (Select all that apply and attach calculations or specific	Justification for the volumes provided below)
Crude Oil	Volume Released (bbls) 67 BBL	Volume Recovered (bbls) 0 BBL
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release		

A hole in an oil tank opened while a load of oil was being removed from the tank by a hot oiler. Prior to the leak, the tank had been gauged to contain 204 BO. While the tank was leaking, 137 BO was transferred to another tank in the battery. The balance of the oil (67 BO) was released inside the earthen firewall and not recovered. It should be noted that a C-141 dated January 21, 2008 indicates that a 20-mil plastic liner was installed inside the tank battery containment area, leaving the tanks in place. It is expected that the liner will be encountered during remediation activities.

Surface Owner: State Federal Tribal Private (Name:

Received by OCD: 8/1/2024 2:34:07 PM tate of New Mexico
Page 2 Oil Conservation Division

	Pagautean
Incident ID	NRM2024742676
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 release.					
⊠ Yes □ No	Totalo.					
The first notice of this	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Is release is provided is provided 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					
The source of the rela	ease has been stopped.					
☐ The impacted area ha	s been secured to protect human health and the environment.					
Released materials ha	ave been contained via the use of berms or dikes, absorbent pads, or other containment devices.					
All free liquids and re	ecoverable materials have been removed and managed appropriately.					
has begun, please attach	IAC the responsible party may commence remediation immediately after discovery of a release. If remediation a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred at area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.					
regulations all operators are public health or the environ failed to adequately investig	rmation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and required to report and/or file certain release notifications and perform corrective actions for releases which may endanger ment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have ate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In f a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws					
Printed Name: Bob Hal	Title: Environmental Manager					
Signature: Bot	Signature: Bolelfoll Date: 8/31/2020					
email: bhall@btaoil.co	Telephone: <b>432-682-3753</b>					
OCD Only						
Received by:Ramon	a Marcus Date: <u>9/3/2020</u>					

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Incident ID	NRM2024742676	
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>&lt;50</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 wel</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.		
Boring or excavation logs			

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.

Topographic/Aerial maps

Photographs including date and GIS information

☐ Laboratory data including chain of custody

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Incident ID	NRM2024742676
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:8/2/2023	
email:KBeaird@btaoil.com	Telephone:432-312-2203	
OCD Only		
Received by:	Date:	

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Incident ID NRM2024742676

District RP
Facility ID
Application ID

# **Remediation Plan**

Remediation Plan Checklist: Each of the following items must b	e included in the plan.			
<ul> <li>□ Detailed description of proposed remediation technique</li> <li>□ Scaled sitemap with GPS coordinates showing delineation points</li> <li>□ Estimated volume of material to be remediated</li> <li>□ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC</li> <li>□ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)</li> </ul>				
Deferral Requests Only: Each of the following items must be con	afirmed as part of any request for deferral of remediation.			
☐ Contamination must be in areas immediately under or around predeconstruction.	roduction equipment where remediation could cause a major facility			
Extents of contamination must be fully delineated.				
☐ Contamination does not cause an imminent risk to human health	n, the environment, or groundwater.			
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.				
Printed Name:Kelton Beaird	Title:Environmental Manager			
Signature:	Date:8/2/2023			
email:KBeaird@btaoil.com	Telephone:432-312-2203			
OCD Only				
Received by:	Date:			
☐ Approved ☐ Approved with Attached Conditions of	Approval			
Signature:	Date:			

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1220 S. St. Francis Dr., Santa Fe, NM 87505

Responsible Party:

BTA Oil Producers, LLC

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	nAPP2313656375
District RP	
Facility ID	
Application ID	

# **Release Notification**

# **Responsible Party**

OGRID: 260297

Contact Name: Nathan Sirgo		Conta	act Telephone: (432) 682-3753			
Contact email: nsirgo@btaoil.com				Incid	lent # (assigned by OCD)	
Contact mailing address: 104 South Pecos St. Midland, TX 79701						
			Location	of Releas	se Source	
Latitude32.3076687Longitude104.0606657						
Site Name: C	arrasco 14-1			Site T	Site Type:	
Date Release	Discovered:	5/5/2023		API#	(if applicable) 30-015-26121	
Unit Letter	Section	Township	Range	'	County	
F	14	23S	28E		Eddy	
Crude Oil		(s) Released (Select al Volume Release			specific justification for the volumes provided below)  Volume Recovered (bbls) 25	
Crude Oil				calculations of s		
Produced	Water	Volume Release	d (bbls)		Volume Recovered (bbls)	
Is the concentration of dissolved chloride produced water >10,000 mg/l?				hloride in the	Yes No	
Condensa	ite	Volume Release			Volume Recovered (bbls)	
Natural G	ias	Volume Released (Mcf)			Volume Recovered (Mcf)	
Other (describe) Volume/Weight Released (provide units) Volume/Weight Recovered (provide units)			Volume/Weight Recovered (provide units)			
A hole develo	oped in a 2"	 metal recirculating	g line releasing flu	ids to the line	ed containment. All freestanding fluids were recovered.	

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Incident ID	nAPP2313656375
District RP	
Facility ID	
Application ID	

Was this a major release as defined by	If YES, for what reason(s) does the respon	sible party consider this a major release?
19.15.29.7(A) NMAC?	Release greater than 25 bbls	
⊠ Yes □ No		
	otice given to the OCD? By whom? To wh CD on May 6, 2023 at 8AM via email.	om? When and by what means (phone, email, etc)?
	Initial Re	esponse
The responsible	party must undertake the following actions immediatel	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	ave been contained via the use of berms or d	ikes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed and	l managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain v	vhy:
has begun, please attach	a narrative of actions to date. If remedial	emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred lease attach all information needed for closure evaluation.
I hereby certify that the info	rmation given above is true and complete to the l	best of my knowledge and understand that pursuant to OCD rules and
public health or the environment failed to adequately investig	ment. The acceptance of a C-141 report by the O ate and remediate contamination that pose a three	ications and perform corrective actions for releases which may endanger CD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws
Printed Name: Nathan	J. Sirgo	Title: Operations Manager
Signature: 19th	1.Ki	Date: 5/17/2023
email: nsirgo@btao	il.com	Telephone: 432-682-3753
OCD Only		
Received by: Micha	sl Buchanan	Date: _05/31/2023

Location Carrasco 14-1
API # 30-015-26121
Spill Date May 5 2023

Spill Description 2" metal recirc line had a hole form where the pipe runs under containment wall

# **Spill Dimensions - Inside Containment**

**ENTER** - Length of Spill **ENTER** - Width of Spill

**ENTER** - Saturation Depth of Spill

Calculated Volume - In Containment Only

# Spill Dimensions - Outside Containment

**ENTER** - Length of Spill **ENTER** - Width of Spill

**ENTER** - Saturation Depth of Spill

**ENTER** - Porosity Factor (see chart below)

# Oil Cut - Well Test / Vessel Throughput or Contents

Oil

Water (if leak on water sytem enter 1)

Calculated Oil Cut

# Volume Recovered in Truck /100% Recoverable in Containment

**ENTER** - Recovered Oil Outside Containment

**ENTER** - Recovered Water Outside Containment

# **Calculated Values**

Release of Oil in Soil - Unrecovered

Release of Water in Soil - Unrecovered

**Unrecovered Total Release** 

### Calculated Values

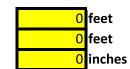
Total Release of Oil

Total Release of Water

**Total Release** 

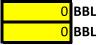
**Total Recovered** 

feet	33
feet	18
inches	4
BBL	35
•	









# calculated

BBL	0.000
BBL	0.000
BBL	0.000

### calculated

(	О	BBL
	O	BBL
3!	5	BBL
2.	5	BBL

Types of Soil	Porosity Factor
Gravel	0.25
Sand	0.20
Clay/silt/sand Mix	0.15
Clay	0.05
0 " 1	0.00

District I
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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 221032

# CONDITIONS

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
	Action Number:
Midland, TX 79701	221032
	Action Type:
	[C-141] Release Corrective Action (C-141)

### CONDITIONS

Created By		Condition Date	
michael.buchanan	None	5/31/2023	

	Page 86 of 9	96
Incident ID	nAPP2313656375	
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>&lt;50</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 ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	rtical extents of soil
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 wel</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> </ul>	ls.
Photographs including date and GIS information	

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

Topographic/Aerial maps

Received by OCD: 8/1/2024 2:34:07 PM Form C-141 State of New Mexico Page 4 Oil Conservation Division

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Incident ID	nAPP2313656375
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:8/2/2023	
email:KBeaird@btaoil.com	Telephone:432-312-2203	
OCD Only		
Received by: Shelly Wells	Date: <u>8/1/2023</u>	

1/2024 2:34:07 PM tota of New Maxico Page 88 of 96

Incident ID	nAPP2313656375
District RP	
Facility ID	
Application ID	

# **Remediation Plan**

Remediation Plan Checklist: Each of the following items must be included in the plan.		
<ul> <li>□ Detailed description of proposed remediation technique</li> <li>□ Scaled sitemap with GPS coordinates showing delineation points</li> <li>□ Estimated volume of material to be remediated</li> <li>□ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC</li> <li>□ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)</li> </ul>		
<u>Deferral Requests Only</u> : Each of the following items must be con	firmed as part of any request for deferral of remediation.	
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.		
Extents of contamination must be fully delineated.		
☐ Contamination does not cause an imminent risk to human health	n, the environment, or groundwater.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Printed Name:Kelton Beaird	Title:Environmental Manager	
Signature:	Date:8/2/2023	
email:KBeaird@btaoil.com	Telephone:432-312-2203	
OCD Only		
Received by: Shelly Wells	Date: <u>8/1/2023</u>	
☐ Approved ☐ Approved with Attached Conditions of	Approval	
Signature:	Date:	

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

QUESTIONS

Action 369461

# **QUESTIONS**

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	369461
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

### QUESTIONS

Prerequisites	
Incident ID (n#)	nRM2024742676
Incident Name	NRM2024742676 CARRASCO 14 #1 TANK BATTERY @ 30-015-26121
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-26121] CARRASCO 14 #001

Location of Release Source	
Please answer all the questions in this group.	
Site Name	CARRASCO 14 #1 TANK BATTERY
Date Release Discovered	08/28/2020
Surface Owner	Private

Incident Details	
Please answer all the questions in this group.	
Incident Type	Oil Release
Did this release result in a fire or is the result of a fire	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	Cause: Corrosion   Tank (Any)   Crude Oil   Released: 67 BBL   Recovered: 0 BBL   Lost: 67 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	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 369461

Phone: (505) 476-3470 Fax: (505) 476-3462	•
QUESTI	IONS (continued)
Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID:  260297  Action Number: 369461  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.
	Idation 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 releate the OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface it does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: BTA ENSOLUM Title: Environmental Manager Email: rramos@btaoil.com

Date: 08/01/2024

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

QUESTIONS, Page 3

Action 369461

## **QUESTIONS** (continued)

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	369461
	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 26 and 50 (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 1000 (ft.) and ½ (mi.)	
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1000 (ft.) and ½ (mi.)	
An occupied permanent residence, school, hospital, institution, or church	Between 500 and 1000 (ft.)	
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 500 and 1000 (ft.)	
Any other fresh water well or spring	Between 500 and 1000 (ft.)	
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 500 and 1000 (ft.)	
A wetland	Between 1000 (ft.) and ½ (mi.)	
A subsurface mine	Between 1 and 5 (mi.)	
An (non-karst) unstable area	Between 1 and 5 (mi.)	
Categorize the risk of this well / site being in a karst geology	Medium	
A 100-year floodplain	Between 1000 (ft.) and ½ (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 of	contamination 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 delinea	ated Yes	
Was this release entirely contained within a lined containment area	No	
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)		
Chloride (EPA 300.0 or SM4500 Cl B)	2080	
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	42039	
GRO+DRO (EPA SW-846 Method 8015M)	33969	
BTEX (EPA SW-846 Method 8021B or 8260E	3) 7.6	
Benzene (EPA SW-846 Method 8021B or 8260	B) 0	
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report include which includes the anticipated timelines for beginning and completing the remediati	les completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, on.	
On what estimated date will the remediation commence	06/06/2023	
On what date will (or did) the final sampling or liner inspection occur	07/09/2024	
On what date will (or was) the remediation complete(d)	07/09/2024	
What is the estimated surface area (in square feet) that will be reclaim	ed 331	
What is the estimated volume (in cubic yards) that will be reclaimed	25	
What is the estimated surface area (in square feet) that will be remedia	ated 331	
What is the estimated volume (in cubic yards) that will be remediated	25	
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	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 4

Action 369461

### **QUESTIONS** (continued)

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	369461
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

### QUESTIONS

Remediation Plan (continued)		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:		
(Select all answers below that apply.)		
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes	
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]	
OR which OCD approved well (API) will be used for off-site disposal	Not answered.	
OR is the off-site disposal site, to be used, out-of-state	Not answered.	
OR is the off-site disposal site, to be used, an NMED facility	Not answered.	
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.	
(In Situ) Soil Vapor Extraction	Not answered.	
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.	
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.	
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.	
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.	
OTHER (Non-listed remedial process)	Not answered.	

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

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

I hereby agree and sign off to the above statement

Name: BTA ENSOLUM Title: Environmental Manager Email: rramos@btaoil.com Date: 08/01/2024

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

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

QUESTIONS, Page 5

Action 369461

**QUESTIONS** (continued)

Operator:	OGRID:	
BTA OIL PRODUCERS, LLC	260297	
104 S Pecos	Action Number:	
Midland, TX 79701	369461	
	Action Type:	
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

### QUESTIONS

Deferral Requests Only		
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.		
Requesting a deferral of the remediation closure due date with the approval of this submission	No	

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

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Action 369461

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Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	369461
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

### QUESTIONS

Sampling Event Information		
Last sampling notification (C-141N) recorded	360823	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/09/2024	
What was the (estimated) number of samples that were to be gathered	5	
What was the sampling surface area in square feet	1075	

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	331	
What was the total volume (cubic yards) remediated	25	
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	331	
What was the total volume (in cubic yards) reclaimed	25	
Summarize any additional remediation activities not included by answers (above)	n/a	

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

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

Name: BTA ENSOLUM
Title: Environmental Manager
Email: rramos@btaoil.com
Date: 08/01/2024

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

QUESTIONS, Page 7

Action 369461

<b>QUESTIONS</b>	(continued)
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Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	369461
	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

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CONDITIONS

Action 369461

# **CONDITIONS**

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos Midland, TX 79701	Action Number: 369461
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

### CONDITIONS

Created B	y Condition	Condition Date
rhamle	We have received your Remediation Closure Report for Incident #NRM2024742676 CARRASCO 14 #1 TANK BATTERY, thank you. This Remediation Closure Report is approved.	8/27/2024