

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

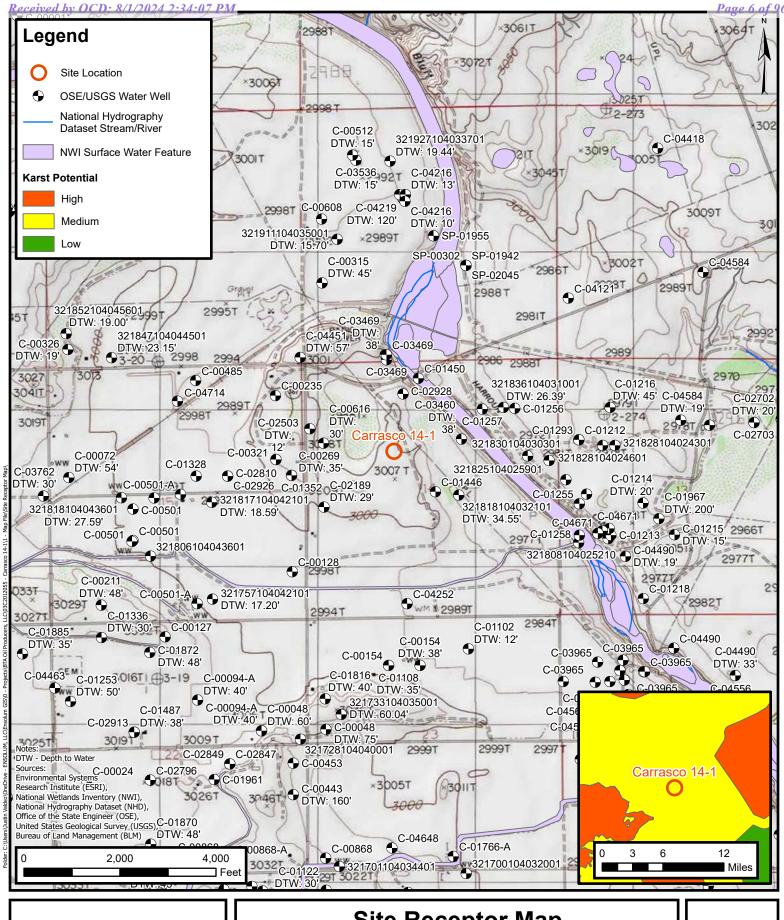
Appendix A Photographic Log

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 www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

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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 | / kg | 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

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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: 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

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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 www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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 | | | | | | |

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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 | | | | | | |

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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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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 | | | | | | |
| | | | | | | | | | |

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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" | * | 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

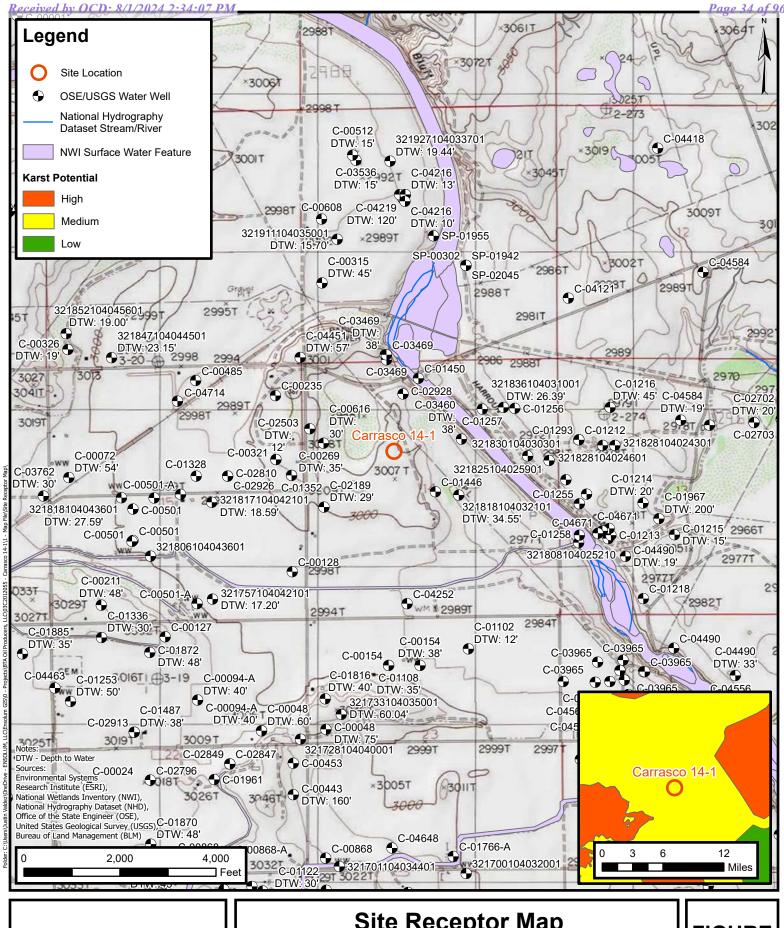
Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation

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) | | | | |
|---------------------------|--|--------------|-------------------|---------------------|--|---------------|--------------|------------------|---|-------------|----------------|--|
| ž | | | 03460 | 1- POD 1 | | | ł. | | | | | |
| = | WELL OW | NER NAM | E(S) | 1001 | | - | PHONE (OPTI | ONAL) | | | | |
| GENERAL AND WELL LOCATION | | | | | | | 1 | -393-338 | ج د | | | |
| 3 (| WELL OW: | NER MAII | lorse, LLO | | | | CITY | | STATE | | ZIP | |
| [] [] | | | 058 | | | | Hubbs | | NM | Ŕ | 1458 | |
| 5 | | | | 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 | | | -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 | | 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) | | | | | | | | | | | |
| Z | 80cm | 10 | BOSTI | · 180 | retble | 100 | o ' | 38' | | | | |
| DRILLING INFORMATION | COMPLETA | en wei i | IS: ARTESIA | N DRY HOLE | SHALLOW (UNC | ONFINEOV | NIA | STATIC WATER LE | VEL IN COM | PLETED WE | .L (FT) | |
| NR I | | | | | | | W//+ | 38 | | | | |
| N. | DRILLING | FLUID: | AIR | MUD | ADDITIVES - SP. | ECIFY: | | | | | | |
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| [[| DEPT | H (FT) | BORE HO | } | CASING | 1 | NECTION | INSIDE DIA. | 3 | G WALL | SLOT | |
| N N | FROM | то | DIA. (IN |) | IATERIAL | TYPE | (CASING) | CASING (IN) | THICK | VESS (IN) | SIZE (IN) | |
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| Y.Y. | FROM | 01 | (FT) | | , | | | | V(5) | <u> </u> | | |
| STR | 38 | 50 | 15, | Tan. | sandy Gyp | um y | Pen GrA | <i></i> | | | NA | |
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| # | | | | <u> </u> | | | | N/ | <u> </u> | | | |
| | FOR OSI | FINTER | NAL USE | | | | | WELL RECO | ORD & LOC | (Version 6 | /9/08) | |
| | FILE NU | | C-3460 | | POD NUMB | ER C-0.3 | 460-700_ | TRN NUMBI | | 7754 | | |
| | | | 3.28.14.2 | | | | <u> </u> | | | PAGE 1 | OF 2 | |
| | | | | <u> </u> | | | | | | 1 | | |

| | TYPE OF | PUMP: | ☐ SUBMER | SIBLE | □ JET | ☐ NO PUMP - WELL NOT EQUIPPED | | | | | |
|----------------------|---------------|--|----------------|---------------------------------------|---------------------|--|------------------|--------------|---------------|--|--|
| UM | | | TURBINI | <u> </u> | CYLINDER | OTHER - SPECIFY: | | | | | |
| SEAL AND PUMP | | | DEPTH | (FT) | BORE HOLE | MATERIAL TYPE AND SIZE | AMOUNT | METHO | | | |
| ¥, | ANNU | JLAR | FROM | TO | DIA. (IN) | MATERIAL TITE AND SIZE | (CUBIC FT) | PLACE | MENT | | |
| EA | SEAL GRAVE | | | | | <u> </u> | | | | | |
| 5.8 | OKATE | CIACK | | <u></u> | | <u> </u> | | | | | |
| | | | | | <u> </u> | | | | | | |
| | DEPTI | H (FT) | THICK | NESS | | COLOR AND TYPE OF MATERIAL ENCOUNTI | ERED | WAT | | | |
| | FROM | то | (FT | · | (INCLI | UDE WATER-BEARING CAVITIES OR FRACTU | JRE ZONES) | BEAR | ING? | | |
| | Surface | 10' | 10 | . I | Sandy Red | Topsoi) | <u></u> _ | ☐ YES | □ NO | | |
| | 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 | | |
| 7 | _ვი' | 50' | 20 | | 19n Sa. | edy Gypsun W/Pea Gravel (| waterat 38") | ∑ YES | . □ NO | | |
| 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 | | |
| SIC | | | <u></u> | | <u> </u> | | | YES | □ NO | | |
| 010 | | | | _ | | | | ☐ YES | □ NO | | |
| GEC | | | | | · | | | ☐ YES | □ NO | | |
| 9 | | | | | | | | YES | □ NO | | |
| | | | _ | | | | | ☐ YES | □ио | | |
| | | | | | | | | ☐ YES | □ NO | | |
| | | | | | <u> </u> | | | ☐ YES | □ NO | | |
|] | | | | | ļ <u> </u> | | | ☐ YES | ON [| | |
| | | <u> </u> | | | | | <u> </u> | ☐ YES | □ NO | | |
| | <u>L </u> | | ATTACH | ADDITION | AL PAGES AS NE | EEDED TO FULLY DESCRIBE THE GEOLOGIC | LOG OF THE WELL | | | | |
| 0. | | | METHOD: | BAILE | R DPUMP | ☐ AIR LIFT ☐ OTHER – SPECIFY: | | | | | |
| IL INFO | WELL | . TEST | | | | DATA COLLECTED DURING WELL TESTING, I AND DRAWDOWN OVER THE TESTING PERIO | | ME, END T | ME. | | |
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| TEST & ADDITION | ADDITION | NAL STATE | MENTS OR EXPL. | ANATIONS: | tite + conc | ent (6 Begs) | | | | | |
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| | FOR OS | E IN <u>TER</u> N | AL USE | | | WI | ELL RECORD & LOG | Version 6/9/ | 08) | | |
| | FILE NU | IMBER | 6-3466 | 2 | | POD NUMBER (-3460-PODA TR | NNUMBER 467 | 7754 | | | |
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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

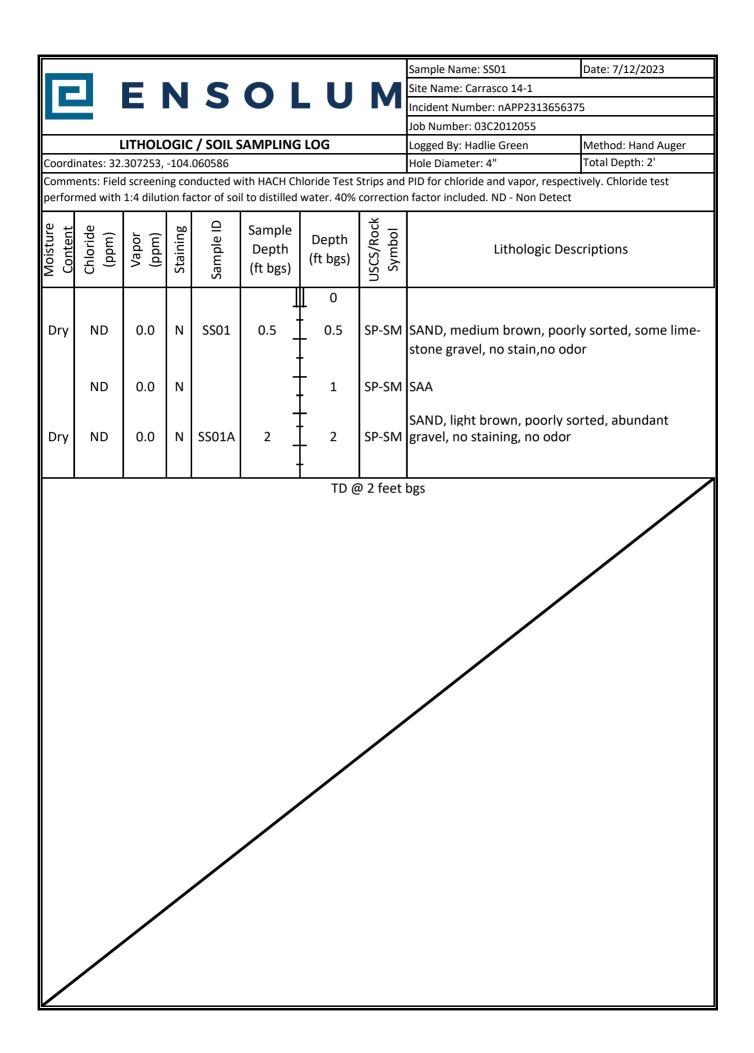


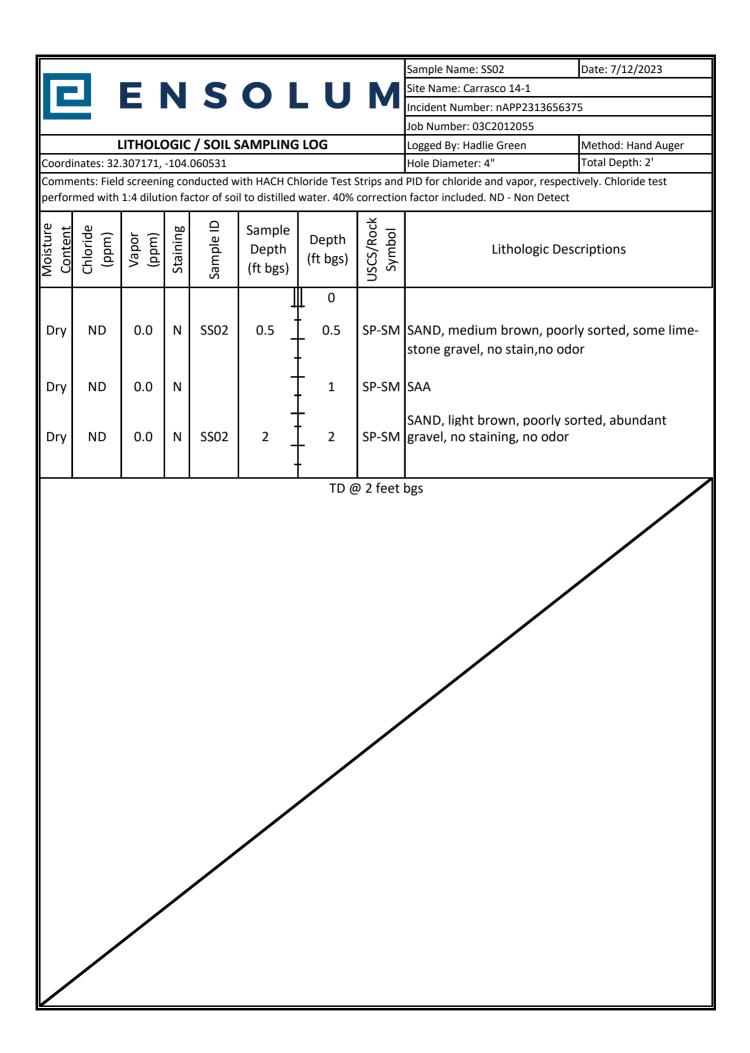


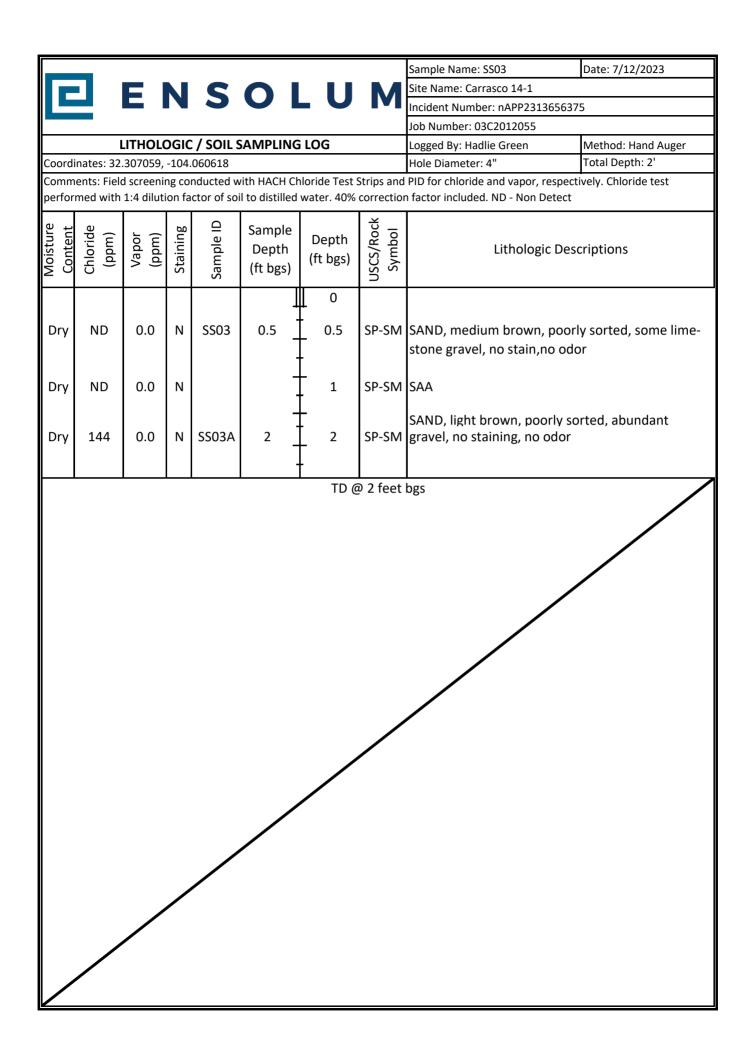
APPENDIX B

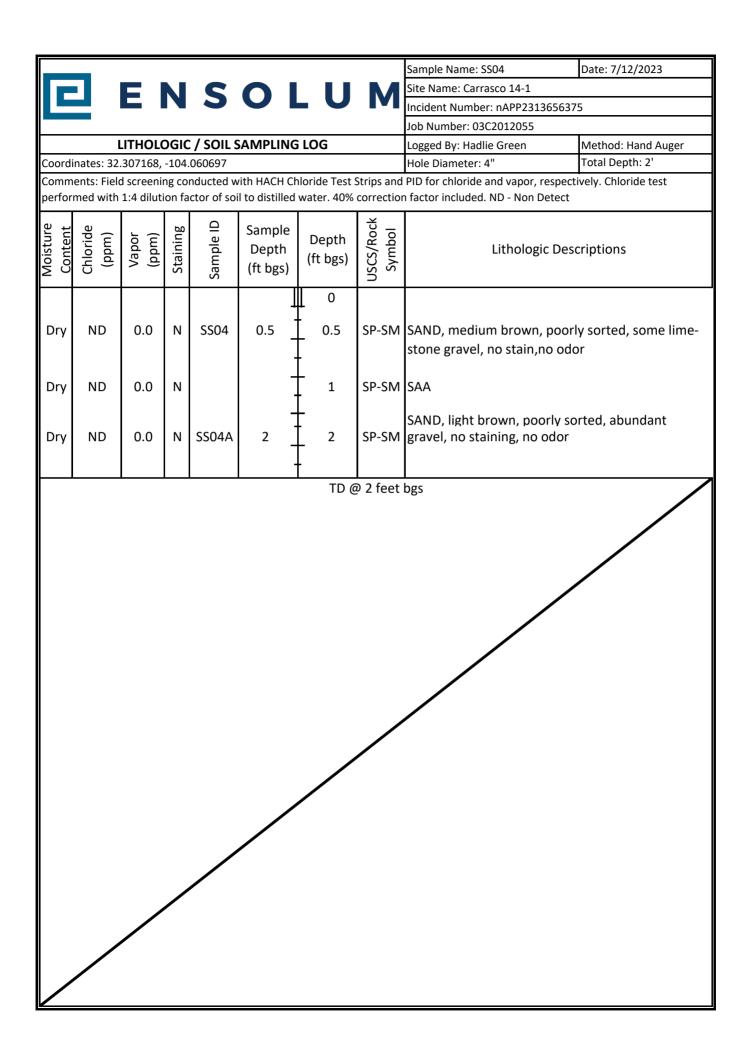
Lithologic Soil Sampling Logs

| | | | | | | | | 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

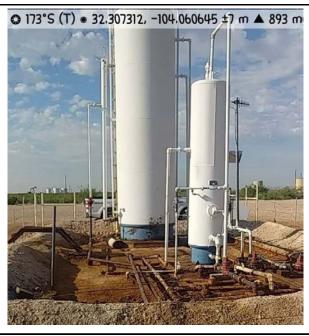
Photographic Log

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 www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received: 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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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 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 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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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: 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 | | | | | | |
| | | | | | | | | | |

Cardinal Laboratories *=Accredited Analyte

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Celey D. Kreine



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 | | | | | | |

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 D. Keene



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

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

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

| Company Name: 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 | | |
| PLEASE NOTE: Lability and Damages, Cardinal's lability and client's exclusives. All claims including those for negligence and any other cause we analyses. All claims including those for negligence and any other cause we service, in no event shall Cardinal be liable for incidential or consequential services. | usive remedy for any claim hatsoever shall be deemed famages, including without see harmender by Cardinal | arising whether based in contract or fort, shall be limited to the amount parameter unless made in writing and received by Cardinal within 30 days at limitation, business interruptions, loss of use, or loss of profits incurred by infinitiation, business interruptions, loss of use, or loss of profits incurred by increased and includes such plains in based snoon and the above stated to | unt paid by the client for the ays after completion of the applicable red by client, its subsidiaries, and rescons or atherwise | | |
| 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 www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. 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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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 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 | | | | | | |

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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 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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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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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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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 |

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 is 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.

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 | \(\rightarrow\) | | _ |
| C | 5503 A | શ | X - | × | X 8260 | X | | |
| 7- | 250 4 M | 30 | X | × | 1010 X | X | | |
| 2 | 2000 | 200 | <> | | 0176 X | | | |
| 1 | 2000 |) C | | \rightarrow | 0135 X | | | |
| 8 | A055 | 0.50 | ×> | ×> | XXXXX | | | |
| \ | / | | | / | | | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | |
| PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exc | mages. Cardinal's liability and dis | usive | temety for any dain states weakly hand | 7 | | | | |
| 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 hgreen@ensolum.com

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

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

Cc: Tacoma Morrissey kmorrissey@ensolum.com; Peter Van Patten kmorrissey@ensolum.com;

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,

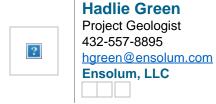
BTA anticipates collecting confirmation samples at the following locations the week of June 5, 2023.

- 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 hgreen@ensolum.com

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,

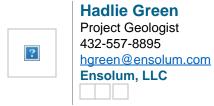
BTA anticipates collecting confirmation samples at the following locations the week of July 10, 2023.

- 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: 32 3 | 30763° Longituo | de: -104.06 | 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: 432-682-3753 |
| Contact Nam | | | , LLC | OGRID: 260297 |

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: 432-682-3753 | | | | | |
| OCD Only | | | | | | |
| Received by:Ramon | a Marcus Date: <u>9/3/2020</u> | | | | | |

| | Page 79 of | 96 |
|----------------|---------------|----|
| 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><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 not 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. | | | |
| Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wel Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release | 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

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

Page 80 of 96

| 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: | |
| | | |

Page 81 of 96

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. | | | |
|--|--|--|--|--|
| □ Detailed description of proposed remediation technique □ Scaled sitemap with GPS coordinates showing delineation points □ Estimated volume of material to be remediated □ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC □ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) | | | | |
| 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: | | | |

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

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. | |

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

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|------|----|---|------|---|----------|----|---|
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| - 4 | uz | | Ow | w | L^{j} | " | v |
| | | | C7 - | | 7 | | |

| 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

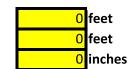
Total Release of Oil

Total Release of Water

Total Release

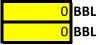
Total Recovered

| 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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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><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 not 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. | |
| Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wel Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs | 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

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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. | | |
|--|--|--|
| □ Detailed description of proposed remediation technique □ Scaled sitemap with GPS coordinates showing delineation points □ Estimated volume of material to be remediated □ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC □ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) | | |
| <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: | |

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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

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District III 1000 Rio Brazos Rd., Aztec, NM 87410

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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

QUESTIONS, Page 6

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

| QUESTIONS | (continued) |
|------------------|-------------|
| QUESTIONS! | COHUHUCU/ |

| 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 |

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

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

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

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

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

CONDITIONS

Action 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 |