

October 19, 2023

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

Re: Closure Request Rojo 14-17 Tank Battery Incident Number NAPP2106927983 Lea County, New Mexico

To Whom It May Concern:

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

SITE DESCRIPTION AND RELEASE SUMMARY

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

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

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

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

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

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

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

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 10,000 mg/kg

SITE ASSESSMENT ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On August 29, 2023, Ensolum personnel were at the Site to evaluate the historical release area based on information provided on the Form C-141 and visual observations. No visible indications of the historical release were observed during the Site visit. Eight assessment soil samples (SS01 through SS08) were collected within and around the inferred release area, at a depth of approximately 0.5 feet bgs, to assess for the presence or absence of impacted soil resulting from the historical release. The soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach[®] chloride QuanTab[®] test strips. The soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included as Appendix B.

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

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



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DELINEATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

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

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

CLOSURE REQUEST

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

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

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

Sincerely, Ensolum, LLC

Run Huge

Ronni Hayes Assistant Geologist

cc: Kelton Beaird, BTA

Sinée Cale

Aimee Cole Senior Managing Scientist



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Appendices:

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



FIGURES

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TABLES

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ENSOLUM

| | TABLE I SOIL SAMPLE ANALYTICAL RESULTS Rojo 14-17 Tank Battery BTA Oil Producers, LLC Lea County, New Mexico | | | | | | | | | | | |
|-------------------------|--|----------------------------|--------------------|-----------------------|--------------------|--------------------|--------------------|--------------------|----------------------|---------------------|--|--|
| Sample I.D. | Sample Date | Sample Depth (feet bgs) | Benzene (mg/kg) | Total BTEX (mg/kg) | TPH GRO (mg/kg) | TPH DRO (mg/kg) | TPH ORO (mg/kg) | GRO+DRO (mg/kg) | Total TPH (mg/kg) | Chloride (mg/kg) | | |
| NMOCD Table I C | losure Criteria (I | NMAC 19.15.29) | 10 | 50 | NE | NE | NE | 1,000 | 2,500 | 10,000 | | |
| Assessment Soil Samples | | | | | | | | | | | | |
| SS01 | 08/29/2023 | 0.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 2,320 | | |
| SS01A | 09/29/2023 | 3 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 896 | | |
| SS02 | 08/29/2023 | 0.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 208 | | |
| SS02A | 09/29/2023 | 2 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 96.0 | | |
| SS03 | 08/29/2023 | 0.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 16.0 | | |
| SS03A | 09/29/2023 | 4 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 48.0 | | |
| SS04 | 08/29/2023 | 0.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 96.0 | | |
| SS04A | 09/29/2023 | 4 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 16.0 | | |
| SS05 | 08/29/2023 | 0.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 80.0 | | |
| SS06 | 08/29/2023 | 0.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 16.0 | | |
| SS07 | 08/29/2023 | 0.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <16.0 | | |
| SS08 | 08/29/2023 | 0.5 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 32.0 | | |

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

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

standard where applicable.

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

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APPENDIX A

Referenced Well Records

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WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

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| VELL LO | WELL OWNER | | | | | | | CITY MIDLAND | | STATE TX 79701 | ZIP |
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| ** RUSSELL SOUTHERLAND ** BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMET HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING. ** ** ** | ISIA | MISCELLA | NEOUS IN | FORMATION: | | | | | | | | | |
| ** RUSSELL SOUTHERLAND BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMETHOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING. VELL RECORD WILL ALSO BE FILED WITH THE PERMETHOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING. VIEL RECORD WILL ALSO BE FILED WITH THE PERMETHOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING. VIEL RECORD WILL ALSO BE FILED WITH THE PERMETHOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING. VIEL RECORD WILL ALSO BE FILED WITH THE PERMETHOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING. VIEL RECORD WILL ALSO BE FILED WITH THE PERMETHOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING. VIEL RECORD WILL ALSO BE FILED WITH THE PERMETHOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING. VIEL RECORD OF DRILLER / PRINT SIGNEE NAME FOR OSE INTERNAL USE VIEL RECORD & LOG (Version 04/30/2019) FILE NO. C-04696 | PER | | | | | | | | | | | | |
| ** RUSSELL SOUTHERLAND BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMETHOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING. VELL RECORD WILL ALSO BE FILED WITH THE PERMETHOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING. VIEL RECORD WILL ALSO BE FILED WITH THE PERMETHOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING. VIEL RECORD WILL ALSO BE FILED WITH THE PERMETHOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING. VIEL RECORD WILL ALSO BE FILED WITH THE PERMETHOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING. VIEL RECORD WILL ALSO BE FILED WITH THE PERMETHOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING. VIEL RECORD WILL ALSO BE FILED WITH THE PERMETHOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING. VIEL RECORD OF DRILLER / PRINT SIGNEE NAME FOR OSE INTERNAL USE VIEL RECORD & LOG (Version 04/30/2019) FILE NO. C-04696 | G SU | | | | | | | | | | | | |
| ** RUSSELL SOUTHERLAND BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMETHOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING. VELL RECORD WILL ALSO BE FILED WITH THE PERMETHOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING. VIEL RECORD WILL ALSO BE FILED WITH THE PERMETHOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING. VIEL RECORD WILL ALSO BE FILED WITH THE PERMETHOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING. VIEL RECORD WILL ALSO BE FILED WITH THE PERMETHOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING. VIEL RECORD WILL ALSO BE FILED WITH THE PERMETHOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING. VIEL RECORD WILL ALSO BE FILED WITH THE PERMETHOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING. VIEL RECORD OF DRILLER / PRINT SIGNEE NAME FOR OSE INTERNAL USE VIEL RECORD & LOG (Version 04/30/2019) FILE NO. C-04696 | ; RI | | | | | | | | | | | | |
| ** RUSSELL SOUTHERLAND BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMETHOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING. VELL RECORD WILL ALSO BE FILED WITH THE PERMETHOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING. VIEL RECORD WILL ALSO BE FILED WITH THE PERMETHOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING. VIEL RECORD WILL ALSO BE FILED WITH THE PERMETHOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING. VIEL RECORD WILL ALSO BE FILED WITH THE PERMETHOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING. VIEL RECORD WILL ALSO BE FILED WITH THE PERMETHOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING. VIEL RECORD WILL ALSO BE FILED WITH THE PERMETHOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING. VIEL RECORD OF DRILLER / PRINT SIGNEE NAME FOR OSE INTERNAL USE VIEL RECORD & LOG (Version 04/30/2019) FILE NO. C-04696 | EST | PRINT NAM | ME(S) OF D | RILL RIG SUPER | VISOR(S) THAT PR | OVIDED ONSITE SU | PERVI | SION OI | F WELL CON | STRUCTION | N OTHER | R TH | IAN LICENSEE: |
| BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMETHOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING. USE OIL 1/48/2023 PM1/53 SIGNATURE OF DRILLER / PRINT SIGNEE NAME DATE FOR OSE INTERNAL USE FILE NO. C-04696 POD NO. TRN NO. 740770 | 5.1 | RUSSELL | SOUTHER | RLAND | | | | | | | | | |
| RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMITHOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING. WELL RECORD WILL ALSO BE FILED WITH THE PERMITHOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING. WILL RECORD WILL ALSO BE FILED WITH THE PERMITHOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING. WILL RECORD WILL ALSO BE FILED WITH THE PERMITHOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING. WILL RECORD WILL ALSO BE FILED WITH THE PERMITHOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING. WILL RECORD WILL ALSO BE FILED WITH THE PERMITHOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING. WILL RECORD WILL ALSO BE FILED WITH THE PERMITHOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING. WILL RECORD WILL ALSO BE FILED WITH THE PERMITHOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING. WILL RECORD WILL ALSO BE FILED WITH THE PERMITHOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING. WILL RECORD WILL ALSO BE FILED WITH THE PERMITHOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING. WILL ALSO BE FILED WITH THE PERMITHOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL ALSO BE FILED WITH THE PERMITHOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL ALSO BE FILED WITH THE PERMITHOLDER WITH THE PERMITHOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL ALSO BE FILED WITH THE PERMIT ALSO BE FILED WITH THE PERMITHOLDER WITH THE PERMITHOLDER WI | _ | | | | | | | | | | | 100.00.700 | |
| SIGNATURE OF DRILLER / PRINT SIGNEE NAME DATE FOR OSE INTERNAL USE WR-20 WELL RECORD & LOG (Version 04/30/2019) FILE NO. C - 0469% POD NO. TRN NO. 740770 | URE | RECORDO | F THE ABO | OVE DESCRIBED | WELL. I ALSO CER | TIFY THAT THE W | ELL TA | G, IF RE | QUIRED, HA | S BEEN INS | TALLEI | D AN | ND THAT THIS |
| SIGNATURE OF DRILLER / PRINT SIGNEE NAME DATE FOR OSE INTERNAL USE WR-20 WELL RECORD & LOG (Version 04/30/2019) FILE NO. C - 0469% POD NO. TRN NO. 740770 | SIGNAT | Kurs | iela | Sourt | RUSSE | ELL SOUTHERLAN | ID | | Q | SE 011 4 | /18/2023 | 3 02 | 23 pm1:153 |
| FILE NO. C-0469% POD NO. TRN NO. 740770 | | | | | | | | | | | | | |
| FILE NO. C-0469% POD NO. TRN NO. 740770 | DO | | NAL USE | | | | | | WR 20 WE | I RECORD | & LOC | (Ve | reion 04/20/2010) |
| | | • | | 5 | | POD NO. | | | The second second | | | (ve | (31011 04/30/2019) |
| | - | | | | 214 | | | WELL | | | 10 | | PAGE 2 OF 2 |



APPENDIX B

Photographic Log





APPENDIX C

Lithologic Soil Sampling Logs

| | | | | | | | Sample Name: SS01 | Date: 9/29/2023 | | | |
|---------------------------------|-------------------------|----------|------------|-----------------------------|-------------------|---------------------|---|---|--|--|--|
| | | | C | | | | Site Name: Rojo 14-17 Tank Batte | | | | |
| | | IN | 3 | OL | . U | | Incident Number: NAPP21069279 | | | | |
| | | | | | | | Job Number: 03C2012071 | | | | |
| | LITHO | .OGIC | : / SOIL S | AMPLING | LOG | | Logged By: Peter Van Patten | Method: Hydrovac | | | |
| Coordinate | s: 32.111184 | ,-103.5 | 56098 | | | | Hole Diameter: ~1' | Total Depth: 3.0' | | | |
| | | - | | | | | PID for chloride and vapor, respecti factor included. ND - Non Detect | ively. Chloride test | | | |
| Moisture Content Chloride | (ppm) Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic De | scriptions | | | |
| Damp 10 Damp 9 | 015 0.0 92 0.0 | N | | | | | Sand: Orange/brown, brow grain, poorly graded with si gravel SAA (same as above) | n, medium to fine lt, abundant caliche | | | |
| Damp 9 | 35 0.0 | N | SS01A | 3 | 3 | SP-SM | M <u>SAA</u> TD (refusal/massive caliche) at 3 feet bgs | | | | |
| | | | | | | | | | | | |

| | | | | | | Sample Name: SS02 | Date: 9/29/2023 | | | | |
|--|----------------------------|------------|-----------------------------|---------------|-------------|--|-----------------------|--|--|--|--|
| | ΕΝ | C | | | | Site Name: Rojo 14-17 Tank Batt | ery | | | | |
| | | | | | | Incident Number: NAPP2106927 | 983 | | | | |
| | | | | | | Job Number: 03C2012071 | | | | | |
| | LITHOLOGI | C / SOIL S | AMPLING | LOG | | Logged By: Peter Van Patten | Method: Hydrovac | | | | |
| Coordinates: 32. | 111246,-103. | 555907 | | | | Hole Diameter: ~1' | Total Depth: 2.0' | | | | |
| | | | | | | PID for chloride and vapor, respec factor included. ND - Non Detect | | | | | |
| Moisture Content Chloride (ppm) | Vapor (ppm) Staining | Sample ID | Sample Depth (ft bgs) | Lithologic De | escriptions | | | | | | |
| Damp ND Damp ND | 0.0 N 0.0 N | SS02A | 1 - - - 2 | | | Sand: Orange/brown, brov grain, poorly graded with s gravel SAA (same as above) | ilt, abundant caliche | | | | |
| | | | | | | -SM SAA (same as above) TD (refusal/massive caliche) at 2 feet bgs | | | | | |
| | | | | | | | | | | | |

| | | | | | | | | Sample Name: SS03 | Date: 9/29/2023 | | | |
|---------------------|--|----------------|----------|------------|-----------------------------|-------------------|---------------------|---|---|--|--|--|
| | | | NI | C | ΟΙ | | | Site Name: Rojo 14-17 Tank Batte | ry | | | |
| | | | | 3 | | | | Incident Number: NAPP21069279 | 83 | | | |
| | | | | | | | | Job Number: 03C2012071 | | | | |
| | | LITHOL | OGIC | C / SOIL S | AMPLING | LOG | | Logged By: Peter Van Patten | Method: Hydrovac | | | |
| Coordir | nates: 32. | 111264,- | -103.5 | 555719 | | | | Hole Diameter: ~1' | Total Depth: 4.0' | | | |
| | | | - | | | | | PID for chloride and vapor, respect factor included. ND - Non Detect | ively. Chloride test | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic De | scriptions | | | |
| Damp | | 0.0 | N | | - - - - - | | | Sand: Orange/brown, brow grain, poorly graded with si gravel | n, medium to fine lt, abundant caliche | | | |
| Damp | ND | 0.0 | N | | - | 2 | SP-SM | SAA (same as above) | | | | |
| Damp | ND | 0.0 | Ν | | - | 3 | SP-SM | и saa | | | | |
| Damp | Damp ND 0.0 N SS03A 4 <u>+</u> 4 SP-SM | | | | | | | SAA TD at 4 feet bgs | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

| | um to fine | | | | | | | | | |
|---|-------------------------------|--|--|--|--|--|--|--|--|--|
| Job Number: 03C2012071 LITHOLOGIC / SOIL SAMPLING LOG Logged By: Peter Van Patten Method: Coordinates: 32.111168,-103.556340 Hole Diameter: ~1' Total De Coordinates: 32.111168,-103.556340 Hole Diameter: ~1' Total De Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chlor performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included. ND - Non Detect and training and by train | epth: 4.0' ride test IS | | | | | | | | | |
| LITHOLOGIC / SOIL SAMPLING LOG Logged By: Peter Van Patten Method: Coordinates: 32.111168,-103.556340 Hole Diameter: ~1' Total De Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chlor performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included. ND - Non Detect Image: Stripping of the stripping | epth: 4.0' ride test IS | | | | | | | | | |
| Coordinates: 32.111168,-103.556340 Hole Diameter: ~1' Total De Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chlor performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included. ND - Non Detect an tig ap (in the base of th | epth: 4.0' ride test IS | | | | | | | | | |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chlor performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included. ND - Non Detect an tight of the series of the | ns um to fine | | | | | | | | | |
| performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included. ND - Non Detect and training of the state | um to fine | | | | | | | | | |
| Damp ND 0.0 N I SP-SM Sand: Orange/brown, brown, mediu grain, poorly graded with silt, abund gravel | um to fine | | | | | | | | | |
| grain, poorly graded with silt, abund gravel | um to fine Jant caliche | | | | | | | | | |
| Damp ND 0.0 N 2 SP-SM SAA (same as above) | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Damp ND 0.0 N SS04A 4 4 SP-SM SAA Damp ND 0.0 N SS04A 4 4 4 SP-SM SAA TD at 4 feet bgs | | | | | | | | | | |



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



September 05, 2023

HADLIE GREEN ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD, NM 88220

RE: ROJO 14-17 TANK BATTERY

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

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

| Received: | 08/31/2023 | Sampling Date: | 08/29/2023 |
|-------------------|----------------------------|---------------------|----------------|
| Reported: | 09/05/2023 | Sampling Type: | Soil |
| Project Name: | ROJO 14-17 TANK BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C2012071 | Sample Received By: | Tamara Oldaker |
| Project Location: | BTA (32.11126 - 103.55611) | | |

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

| BTEX 8021B | mg, | /kg | Analyze | d By: MS | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 09/01/2023 | ND | 1.82 | 90.9 | 2.00 | 2.11 | |
| Toluene* | <0.050 | 0.050 | 09/01/2023 | ND | 1.77 | 88.7 | 2.00 | 1.70 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/01/2023 | ND | 1.84 | 92.0 | 2.00 | 2.52 | |
| Total Xylenes* | <0.150 | 0.150 | 09/01/2023 | ND | 5.50 | 91.7 | 6.00 | 2.97 | |
| Total BTEX | <0.300 | 0.300 | 09/01/2023 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 104 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg, | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 2320 | 16.0 | 08/31/2023 | ND | 368 | 92.0 | 400 | 16.0 | |
| TPH 8015M | mg/ | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 09/01/2023 | ND | 181 | 90.7 | 200 | 22.2 | |
| DRO >C10-C28* | <10.0 | 10.0 | 09/01/2023 | ND | 184 | 92.2 | 200 | 20.5 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 09/01/2023 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 101 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 113 9 | % 49.1-14 | 8 | | | | | | |

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

| Received: | 08/31/2023 | Sampling Date: | 08/29/2023 |
|-------------------|----------------------------|---------------------|----------------|
| Reported: | 09/05/2023 | Sampling Type: | Soil |
| Project Name: | ROJO 14-17 TANK BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C2012071 | Sample Received By: | Tamara Oldaker |
| Project Location: | BTA (32.11126 - 103.55611) | | |

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

| 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 | 09/01/2023 | ND | 1.98 | 98.8 | 2.00 | 0.316 | |
| Toluene* | <0.050 | 0.050 | 09/01/2023 | ND | 2.34 | 117 | 2.00 | 0.840 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/01/2023 | ND | 2.38 | 119 | 2.00 | 0.724 | |
| Total Xylenes* | <0.150 | 0.150 | 09/01/2023 | ND | 7.12 | 119 | 6.00 | 0.577 | |
| Total BTEX | <0.300 | 0.300 | 09/01/2023 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 108 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 | 208 | 16.0 | 08/31/2023 | ND | 368 | 92.0 | 400 | 16.0 | |
| TPH 8015M | mg/ | ′kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 09/01/2023 | ND | 181 | 90.7 | 200 | 22.2 | |
| DRO >C10-C28* | <10.0 | 10.0 | 09/01/2023 | ND | 184 | 92.2 | 200 | 20.5 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 09/01/2023 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 97.0 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 103 9 | % 49.1-14 | 8 | | | | | | |

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

| Received: | 08/31/2023 | Sampling Date: | 08/29/2023 |
|-------------------|----------------------------|---------------------|----------------|
| Reported: | 09/05/2023 | Sampling Type: | Soil |
| Project Name: | ROJO 14-17 TANK BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C2012071 | Sample Received By: | Tamara Oldaker |
| Project Location: | BTA (32.11126 - 103.55611) | | |

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

| BTEX 8021B | mg/ | kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 09/01/2023 | ND | 1.98 | 98.8 | 2.00 | 0.316 | |
| Toluene* | <0.050 | 0.050 | 09/01/2023 | ND | 2.34 | 117 | 2.00 | 0.840 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/01/2023 | ND | 2.38 | 119 | 2.00 | 0.724 | |
| Total Xylenes* | <0.150 | 0.150 | 09/01/2023 | ND | 7.12 | 119 | 6.00 | 0.577 | |
| Total BTEX | <0.300 | 0.300 | 09/01/2023 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 106 9 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 16.0 | 16.0 | 08/31/2023 | ND | 368 | 92.0 | 400 | 16.0 | |
| TPH 8015M | mg/ | kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 09/01/2023 | ND | 181 | 90.7 | 200 | 22.2 | |
| DRO >C10-C28* | <10.0 | 10.0 | 09/01/2023 | ND | 184 | 92.2 | 200 | 20.5 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 09/01/2023 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 119 9 | 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 134 9 | % 49.1-14 | 8 | | | | | | |

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

| Received: | 08/31/2023 | Sampling Date: | 08/29/2023 |
|-------------------|----------------------------|---------------------|----------------|
| Reported: | 09/05/2023 | Sampling Type: | Soil |
| Project Name: | ROJO 14-17 TANK BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C2012071 | Sample Received By: | Tamara Oldaker |
| Project Location: | BTA (32.11126 - 103.55611) | | |

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

| 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 | 09/01/2023 | ND | 1.79 | 89.5 | 2.00 | 0.827 | |
| Toluene* | <0.050 | 0.050 | 09/01/2023 | ND | 2.10 | 105 | 2.00 | 3.63 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/01/2023 | ND | 2.18 | 109 | 2.00 | 3.17 | |
| Total Xylenes* | <0.150 | 0.150 | 09/01/2023 | ND | 6.56 | 109 | 6.00 | 1.60 | |
| Total BTEX | <0.300 | 0.300 | 09/01/2023 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 103 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg, | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 96.0 | 16.0 | 08/31/2023 | ND | 368 | 92.0 | 400 | 16.0 | |
| TPH 8015M | mg, | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 09/01/2023 | ND | 181 | 90.7 | 200 | 22.2 | |
| DRO >C10-C28* | <10.0 | 10.0 | 09/01/2023 | ND | 184 | 92.2 | 200 | 20.5 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 09/01/2023 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 109 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 121 | % 49.1-14 | 8 | | | | | | |

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Celey D. Keene, Lab Director/Quality Manager



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

| Received: | 08/31/2023 | Sampling Date: | 08/29/2023 |
|-------------------|----------------------------|---------------------|----------------|
| Reported: | 09/05/2023 | Sampling Type: | Soil |
| Project Name: | ROJO 14-17 TANK BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C2012071 | Sample Received By: | Tamara Oldaker |
| Project Location: | BTA (32.11126 - 103.55611) | | |

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

| BTEX 8021B | mg/ | ′kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 09/01/2023 | ND | 1.79 | 89.5 | 2.00 | 0.827 | |
| Toluene* | <0.050 | 0.050 | 09/01/2023 | ND | 2.10 | 105 | 2.00 | 3.63 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/01/2023 | ND | 2.18 | 109 | 2.00 | 3.17 | |
| Total Xylenes* | <0.150 | 0.150 | 09/01/2023 | ND | 6.56 | 109 | 6.00 | 1.60 | |
| Total BTEX | <0.300 | 0.300 | 09/01/2023 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 108 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 | 80.0 | 16.0 | 08/31/2023 | ND | 368 | 92.0 | 400 | 16.0 | |
| TPH 8015M | mg/ | ′kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 09/01/2023 | ND | 181 | 90.7 | 200 | 22.2 | |
| DRO >C10-C28* | <10.0 | 10.0 | 09/01/2023 | ND | 184 | 92.2 | 200 | 20.5 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 09/01/2023 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 102 9 | 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 112 9 | % 49.1-14 | 8 | | | | | | |

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

| Received: | 08/31/2023 | Sampling Date: | 08/29/2023 |
|-------------------|----------------------------|---------------------|----------------|
| Reported: | 09/05/2023 | Sampling Type: | Soil |
| Project Name: | ROJO 14-17 TANK BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C2012071 | Sample Received By: | Tamara Oldaker |
| Project Location: | BTA (32.11126 - 103.55611) | | |

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

| BTEX 8021B | mg, | /kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 09/01/2023 | ND | 1.79 | 89.5 | 2.00 | 0.827 | |
| Toluene* | <0.050 | 0.050 | 09/01/2023 | ND | 2.10 | 105 | 2.00 | 3.63 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/01/2023 | ND | 2.18 | 109 | 2.00 | 3.17 | |
| Total Xylenes* | <0.150 | 0.150 | 09/01/2023 | ND | 6.56 | 109 | 6.00 | 1.60 | |
| Total BTEX | <0.300 | 0.300 | 09/01/2023 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 106 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg, | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 16.0 | 16.0 | 08/31/2023 | ND | 368 | 92.0 | 400 | 16.0 | |
| TPH 8015M | mg, | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 09/01/2023 | ND | 181 | 90.7 | 200 | 22.2 | |
| DRO >C10-C28* | <10.0 | 10.0 | 09/01/2023 | ND | 184 | 92.2 | 200 | 20.5 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 09/01/2023 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 109 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 120 | % 49.1-14 | 8 | | | | | | |

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Celey D. Keene, Lab Director/Quality Manager



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

| Received: | 08/31/2023 | Sampling Date: | 08/29/2023 |
|-------------------|----------------------------|---------------------|----------------|
| Reported: | 09/05/2023 | Sampling Type: | Soil |
| Project Name: | ROJO 14-17 TANK BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C2012071 | Sample Received By: | Tamara Oldaker |
| Project Location: | BTA (32.11126 - 103.55611) | | |

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

| BTEX 8021B | mg, | /kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 09/01/2023 | ND | 1.79 | 89.5 | 2.00 | 0.827 | |
| Toluene* | <0.050 | 0.050 | 09/01/2023 | ND | 2.10 | 105 | 2.00 | 3.63 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/01/2023 | ND | 2.18 | 109 | 2.00 | 3.17 | |
| Total Xylenes* | <0.150 | 0.150 | 09/01/2023 | ND | 6.56 | 109 | 6.00 | 1.60 | |
| Total BTEX | <0.300 | 0.300 | 09/01/2023 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 105 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg, | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | <16.0 | 16.0 | 08/31/2023 | ND | 368 | 92.0 | 400 | 16.0 | |
| TPH 8015M | mg, | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 09/01/2023 | ND | 181 | 90.7 | 200 | 22.2 | |
| DRO >C10-C28* | <10.0 | 10.0 | 09/01/2023 | ND | 184 | 92.2 | 200 | 20.5 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 09/01/2023 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 110 9 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 121 | % 49.1-14 | 8 | | | | | | |

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

| Received: | 08/31/2023 | Sampling Date: | 08/29/2023 |
|-------------------|----------------------------|---------------------|----------------|
| Reported: | 09/05/2023 | Sampling Type: | Soil |
| Project Name: | ROJO 14-17 TANK BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | 03C2012071 | Sample Received By: | Tamara Oldaker |
| Project Location: | BTA (32.11126 - 103.55611) | | |

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

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

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Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

| QR-04 | The RPD for the BS/BSD was outside of historical limits. |
|-------|---|
| ND | Analyte NOT DETECTED at or above the reporting limit |
| RPD | Relative Percent Difference |
| ** | Samples not received at proper temperature of 6°C or below. |
| *** | Insufficient time to reach temperature. |
| - | Chloride by SM4500CI-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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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

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| MN | - D | |
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CHAIN-OF CUSTODY AND ANALYSIS REQUEST

Relinquished By Relinquished By: Sampler - UPS - Bus - Other: PLEASE NOTE: Liability and Da City: malyses. All claims including those for negligence and any Sampler Name: Project Location: Project Name: Project Manager: Delivered By: (Circle One) Project #: Phone #: Company Name: Address: 4234739 FOR LAB USE ONLY Lab I.D. ice. In no event shall Cardinal be liable for inc 8 Carisbad 0 432-557-8895 0302012071 3122 AUN 22 5 3 Roso 32.11126, Meredith 575) 393-2326 FAX (575) 393-2476 Hadlic Green Ensolum, LLC Natil Parks Cardinal's liability and cli loss £023 2055 Sample I.D. SSOT SS05 5504 8050 9055 14-17 ental of -103.5561 Corrected Temp, °C Observed Temp. °C Roberts TANK BATTERY Hun Date: Time: Time: Project Owner Fax #: 6 State: † Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com 24 Q remedy for any claim arising wir 0 F nder L , including without limitation, business ← shall be dee 5 Zip: 4 (G)RAB OR (C)OMP Received By + **# CONTAINERS** eived By 88220 GROUNDWATER Cool Intact Sample Condition WASTEWATER made in based in contract or tort, shall be limited to the MATRIX SOIL ← . OIL oue Bucaw SLUDGE loss of use, or loss of profits OTHER State: TX city: Midland Attn: P.O. #: Fax #: Phone #: Address: 104 S Pecos St. Company: ACID/BASE PRESERV d by Cardinal CHECKED BY: ICE / COOL ¢ Kelton Beaird (Initials) OTHER BILL TO 0 432.312.220 BTA within 30 days Zip: 8/29/53 K 80 mm ogis SAMPLING 19701 011 d by client, its subsi paid by the client for the Turnaround Time: ngreen@ensalum.com moherts@ensalum.com Thermometer ID #140 Correction Factor 0°C REMARKS: All Results are emailed. Please provide Email address: 0950 Verbal Result: 1 Yes 0945 0940 0935 0930 0925 0920 TIME Incident #: NAPPZIO 6927983 on of the app BTEX 4 4 Chlorides Rush Standard TPH NO NO mp Add'l Phone #: ANALYSIS Bacteria (only) Sample Condition Cool Intact Observed Temp Yes Yes No No Corrected Temp REQUEST Corrected Temp. °C Observed Temp. ĉ

. Released to Imaging: 2/14/2024 4:34:12 PM

Received by OCD: 10/30/2023 10:45:49 AM

Page 31 of 50



October 04, 2023

HADLIE GREEN ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD, NM 88220

RE: ROJO 14-17 TANK BATTERY

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

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

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

| Received: | 09/29/2023 | Sampling Date: | 09/29/2023 |
|-------------------|----------------------------|---------------------|----------------|
| Reported: | 10/04/2023 | Sampling Type: | Soil |
| Project Name: | ROJO 14-17 TANK BATTERY | Sampling Condition: | ** (See Notes) |
| Project Number: | 03C2012071 | Sample Received By: | Tamara Oldaker |
| Project Location: | BTA (32.11126 - 103.55611) | | |

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

| BTEX 8021B | mg | /kg | Analyze | d By: MS | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 10/02/2023 | ND | 2.01 | 101 | 2.00 | 1.37 | |
| Toluene* | <0.050 | 0.050 | 10/02/2023 | ND | 2.16 | 108 | 2.00 | 2.98 | |
| Ethylbenzene* | <0.050 | 0.050 | 10/02/2023 | ND | 2.17 | 108 | 2.00 | 1.35 | |
| Total Xylenes* | <0.150 | 0.150 | 10/02/2023 | ND | 6.54 | 109 | 6.00 | 1.11 | |
| Total BTEX | <0.300 | 0.300 | 10/02/2023 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 118 9 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg, | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 896 | 16.0 | 10/02/2023 | ND | 432 | 108 | 400 | 3.77 | |
| TPH 8015M | mg/ | /kg | 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 | 10/02/2023 | ND | 189 | 94.4 | 200 | 2.47 | |
| DRO >C10-C28* | <10.0 | 10.0 | 10/02/2023 | ND | 193 | 96.5 | 200 | 1.62 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 10/02/2023 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 99.2 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 110 9 | % 49.1-14 | 8 | | | | | | |

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*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

| Received: | 09/29/2023 | Sampling Date: | 09/29/2023 |
|-------------------|----------------------------|---------------------|----------------|
| Reported: | 10/04/2023 | Sampling Type: | Soil |
| Project Name: | ROJO 14-17 TANK BATTERY | Sampling Condition: | ** (See Notes) |
| Project Number: | 03C2012071 | Sample Received By: | Tamara Oldaker |
| Project Location: | BTA (32.11126 - 103.55611) | | |

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

| BTEX 8021B | mg | /kg | Analyze | d By: MS | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 10/02/2023 | ND | 2.01 | 101 | 2.00 | 1.37 | |
| Toluene* | <0.050 | 0.050 | 10/02/2023 | ND | 2.16 | 108 | 2.00 | 2.98 | |
| Ethylbenzene* | <0.050 | 0.050 | 10/02/2023 | ND | 2.17 | 108 | 2.00 | 1.35 | |
| Total Xylenes* | <0.150 | 0.150 | 10/02/2023 | ND | 6.54 | 109 | 6.00 | 1.11 | |
| Total BTEX | <0.300 | 0.300 | 10/02/2023 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 115 9 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg, | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 96.0 | 16.0 | 10/02/2023 | ND | 432 | 108 | 400 | 3.77 | |
| TPH 8015M | mg, | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 10/02/2023 | ND | 189 | 94.4 | 200 | 2.47 | |
| DRO >C10-C28* | <10.0 | 10.0 | 10/02/2023 | ND | 193 | 96.5 | 200 | 1.62 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 10/02/2023 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 104 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 112 9 | % 49.1-14 | 8 | | | | | | |

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*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

| Received: | 09/29/2023 | Sampling Date: | 09/29/2023 |
|-------------------|----------------------------|---------------------|----------------|
| Reported: | 10/04/2023 | Sampling Type: | Soil |
| Project Name: | ROJO 14-17 TANK BATTERY | Sampling Condition: | ** (See Notes) |
| Project Number: | 03C2012071 | Sample Received By: | Tamara Oldaker |
| Project Location: | BTA (32.11126 - 103.55611) | | |

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

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

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

| Received: | 09/29/2023 | Sampling Date: | 09/29/2023 |
|-------------------|----------------------------|---------------------|----------------|
| Reported: | 10/04/2023 | Sampling Type: | Soil |
| Project Name: | ROJO 14-17 TANK BATTERY | Sampling Condition: | ** (See Notes) |
| Project Number: | 03C2012071 | Sample Received By: | Tamara Oldaker |
| Project Location: | BTA (32.11126 - 103.55611) | | |

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

| BTEX 8021B | mg | /kg | Analyze | d By: MS | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 10/02/2023 | ND | 2.01 | 101 | 2.00 | 1.37 | |
| Toluene* | <0.050 | 0.050 | 10/02/2023 | ND | 2.16 | 108 | 2.00 | 2.98 | |
| Ethylbenzene* | <0.050 | 0.050 | 10/02/2023 | ND | 2.17 | 108 | 2.00 | 1.35 | |
| Total Xylenes* | <0.150 | 0.150 | 10/02/2023 | ND | 6.54 | 109 | 6.00 | 1.11 | |
| Total BTEX | <0.300 | 0.300 | 10/02/2023 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 113 9 | % 71.5-13 | 4 | | | | | | |
| Chloride, SM4500Cl-B | mg, | /kg | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 16.0 | 16.0 | 10/02/2023 | ND | 432 | 108 | 400 | 3.77 | |
| TPH 8015M | mg/ | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 10/02/2023 | ND | 189 | 94.4 | 200 | 2.47 | |
| DRO >C10-C28* | <10.0 | 10.0 | 10/02/2023 | ND | 193 | 96.5 | 200 | 1.62 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 10/02/2023 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 102 | % 48.2-13 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 111 9 | % 49.1-14 | 8 | | | | | | |

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager


Notes and Definitions

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

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

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*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and clent'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 whatscever 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 whose of use, or loss of profits incurred by client, its subsidiaries, affiliates or successor 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.

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

aborator

D

| (5 | (575) 393-2326 FAX (575) 393-2476 | (575) 393-2476 | | | 1 |
|---|--|--|--|--|------|
| Company Name: | Enshum LLC | | BILL TO | ANALYSIS REQUEST | |
| | Hadrie Green | P.O. # | ŧ | | |
| Address: 3122 | Address: 3122 National Parks | Hwy | A | | |
| city: Carls Load | | : NM ZIP: 88220 | Attn: Kelton Beaind | | |
| Phone #: 432 557 8895 | | | Address: 104 S Pews St | | |
| Project #: 032 2012671 | | Project Owner: City: | city: Midland | | |
| Project Name: Pojo 14-17 | | | State: TX Zip: 79701 | | |
| Project Location: | | | Phone #: 432 312 2203 | \$0 | |
| 1 | Ga | Fax #: | .r | | |
| | k | MATRIX PR | PRESERV. SAMPLING | | |
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| affiliates or successors arising o Relinquished By: | hed By: | Date: G-29.23 Received By: M/// | NII AI | Verhal Result: Yes You Add'I Phone #: All Result: re emailed. Please provide Email address: | |
| Relinquished By: | Ŧ | Time: 1210 Date: Received By: | illabor | REMARKS: Cooly Temp blants 0.50 | |
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| Sampler - UPS - Bus - Other: | | Corrected Temp. °C | | Rush Cool Intact | |
| Sampler - UPS - bu | | | 4 (, 0 | | |

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



APPENDIX E

NMOCD Correspondence

Released to Imaging: 2/14/2024 4:34:12 PM

| From: | Wells, Shelly, EMNRD | | | | |
|--------------|---|--|--|--|--|
| То: | Hadlie Green | | | | |
| Cc: | Bratcher, Michael, EMNRD; Velez, Nelson, EMNRD; Hamlet, Robert, EMNRD | | | | |
| Subject: | RE: [EXTERNAL] BTA - Sampling Notification - Week of 09/04/2023 | | | | |
| Date: | Wednesday, August 30, 2023 3:52:13 PM | | | | |
| Attachments: | image001.png | | | | |
| | image002.png | | | | |
| | image003.png | | | | |
| | image004.png | | | | |

[**EXTERNAL EMAIL**]

Good afternoon Hadlie,

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

Thank you,

Shelly

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

From: Hadlie Green <hgreen@ensolum.com>
Sent: Wednesday, August 30, 2023 3:21 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Kelton Beaird <KBeaird@btaoil.com>; Peter Van Patten <pvanpatten@ensolum.com>
Subject: [EXTERNAL] BTA - Sampling Notification - Week of 09/04/2023

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

All,

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

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

Thank you,



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



APPENDIX F

Form C-141

Released to Imaging: 2/14/2024 4:34:12 PM

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural **Resources Department**

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Page 43 0650

Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

| Incident ID | NAPP2106927983 |
|----------------|----------------|
| District RP | |
| Facility ID | |
| Application ID | |

Release Notification

Responsible Party

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

Location of Release Source

Latitude: 32.11126 Longitude: -103.55611

(NAD 83 in decimal degrees to 5 decimal places)

| Site Name: Rojo 14-17 Tank battery | Site Type: Tank Battery/Production Facility |
|------------------------------------|---|
| Date Release Discovered: 3/3/2021 | API# (<i>if applicable</i>) Nearest well: Rojo 7811 22 Fed Com #014Y API #30-025-45446 |

| Unit Letter | Section | Township | Range | County | |
|-------------|---------|----------|-------|--------|--|
| Р | 22 | 255 | 33E | Lea | |

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

Nature and Volume of Release

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

| Crude Oil | Volume Released (bbls) | Volume Recovered (bbls) |
|------------------|--|---|
| Produced Water | Volume Released (bbls) 277 BBL | Volume Recovered (bbls) 240 BBL |
| | Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | Yes No |
| Condensate | Volume Released (bbls) | Volume Recovered (bbls) |
| 🗌 Natural Gas | Volume Released (Mcf) | Volume Recovered (Mcf) |
| Other (describe) | Volume/Weight Released (provide units) | Volume/Weight Recovered (provide units) |

Cause of Release

Piping Failure and Overflow Secondary Containment.

A fire tube was pulled from the heater treater for repairs. A check valve failure had allowed produced water to flow back into the dismantled treater and spill inside the unlined containment area. (See attached spill calculation spreadsheet.)

| <i>ceived by OCD: 10730/20</i> orm C-141 | State of New Mexico | | | Page 44 |
|--|---|---|--|---|
| ge 2 | Oil Conservation Divisi | | Incident ID | NAPP210692798 |
| ge 2 | On Conservation Divisi | 1011 | District RP | |
| | | | Facility ID | |
| | | | Application ID | |
| Was this a major | If YES, for what reason(s) does the | responsible party con | sider this a major release? | ? |
| release as defined by | | | | |
| 19.15.29.7(A) NMAC? | The spill volume was greater | than 25 BBL, whic | h the NMOCD Rules o | lefine as a major |
| 🛛 Yes 🗌 No | release. | | | |
| | | | | |
| | | | | |
| If YES, was immediate n | otice given to the OCD? By whom? | To whom? When and | by what means (phone, o | email, etc)? |
| | vided by an email sent 3/3/202 | | | |
| | | | | |
| | | | | |
| | Initia | al Response | | |
| The responsible | party must undertake the following actions imm | nediately unless they could | create a safety hazard that woul | ld result in injury |
| | 1. 1 | | | |
| \square The source of the rel | ease has been stopped. | | | |
| | | | f | |
| The impacted area ha | as been secured to protect human healt | th and the environmen | ι. | |
| | as been secured to protect human healt ave been contained via the use of bern | | | nt devices. |
| Released materials ha | - | ns or dikes, absorbent | pads, or other containmer | nt devices. |
| Released materials have a second sec | ave been contained via the use of bern ecoverable materials have been remov | ns or dikes, absorbent yed and managed appr | pads, or other containmer | nt devices. |
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| Released materials have a second sec | ave been contained via the use of bern ecoverable materials have been remov | ns or dikes, absorbent yed and managed appr | pads, or other containmer | nt devices. |
| Released materials has All free liquids and r If all the actions describe | ave been contained via the use of bern ecoverable materials have been remov d above have <u>not</u> been undertaken, ex | ns or dikes, absorbent red and managed appr plain why: | pads, or other containmer opriately. | • |
| Released materials have a constrained of the second | ave been contained via the use of bern ecoverable materials have been remov d above have <u>not</u> been undertaken, ex IAC the responsible party may comme | ns or dikes, absorbent red and managed appr plain why: ence remediation imm | pads, or other containmer opriately. ediately after discovery o | f a release. If remediation |
| Released materials has All free liquids and r If all the actions describe Per 19.15.29.8 B. (4) NM has begun, please attach | ave been contained via the use of bern ecoverable materials have been remov d above have <u>not</u> been undertaken, ex IAC the responsible party may common a narrative of actions to date. If rem | ns or dikes, absorbent red and managed appr plain why: ence remediation imm edial efforts have bee | pads, or other containmer opriately. ediately after discovery o n successfully completed | f a release. If remediation |
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Location Rojo 14-17 Tank Battery API # Spill Date 3/3/2021

Spill Dimensions

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

| feet | 83.2 |
|--------|------|
| feet | 83.2 |
| inches | 12 |
| | |



0 BBL

BBL

0.01 99.99 0.0001

Volume Recovered in Truck / Containment ENTER - Recovered Oil

ENTER - Recovered Water

| Cal | cul | lated | Val | lues |
|-----|-----|-------|-----|------|
|-----|-----|-------|-----|------|

Total Release

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

| calculated | _ |
|------------|-----|
| 0 | BBL |
| 37 | BBL |
| 37 | BBL |

240

| Calculated Values | | |
|------------------------|--|--|
| Total Release of Oil | | |
| Total Release of Water | | |

| calculated | - |
|------------|-----|
| 0 | BBL |
| 277 | BBL |
| 277 | BBL |

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

(Length X Width X Depth X 1 ft/12 in) X Porosity 5.615 ft³ / BBL

(or Water Cut)

Х

Oil Cut

District I 1625 N. French Dr., Hobbs, NM 88240

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

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

District II

District IV

| CONDITIO | NS |
|----------|----|

Action 27346

State of New Mexico Phone:(575) 393-6161 Fax:(575) 393-0720 **Energy, Minerals and Natural Resources** 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 **Oil Conservation Division** 1220 S. St Francis Dr. Phone:(505) 334-6178 Fax:(505) 334-6170

Santa Fe, NM 87505

CONDITIONS OF APPROVAL

| Operator: | | | | OGRID: | Action Number: | Action Type: |
|-----------|---|-------------|------------------|--------|----------------|--------------|
| | BTA OIL PRODUCERS, LLC | 104 S Pecos | Midland, TX79701 | 260297 | 27346 | C-141 |
| | | | | | | |
| OCD | Condition | | | | | |
| Reviewer | | | | | | |
| rmarcus | 5 () 5 5 5 5 | | | | | |
| rmarcus | arcus The submitted C-141 is accepted with the following condition(s): the lateral and onogitudinal information does not match the OLD1R regarding the release location. Please correct the continuing information and the proceeding the transmission of the contract of the transmission of the transmission of the contract of | | | | | |

Received by OCD: 10/30/2023 10:45:49 AM Form C-141 State of New Mexico

Page 3

Oil Conservation Division

| | Page 47 of 50 |
|----------------|----------------------|
| Incident ID | NAPP2106927983 |
| District RP | |
| Facility ID | |
| Application ID | |

Site Assessment/Characterization

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

| What is the shallowest depth to groundwater beneath the area affected by the release? | <u>51-100</u> (ft bgs) |
|---|------------------------|
| Did this release impact groundwater or surface water? | 🗌 Yes 🛛 No |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse? | 🗌 Yes 🛛 No |
| Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)? | 🗌 Yes 🛛 No |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church? | 🗌 Yes 🛛 No |
| Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes? | 🗌 Yes 🛛 No |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring? | 🗌 Yes 🛛 No |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field? | 🗌 Yes 🛛 No |
| Are the lateral extents of the release within 300 feet of a wetland? | 🗌 Yes 🛛 No |
| Are the lateral extents of the release overlying a subsurface mine? | 🗌 Yes 🛛 No |
| Are the lateral extents of the release overlying an unstable area such as karst geology? | 🗌 Yes 🛛 No |
| Are the lateral extents of the release within a 100-year floodplain? | 🗌 Yes 🛛 No |
| Did the release impact areas 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 wells.
- Field data
- Data table of soil contaminant concentration data
- \square Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

| Received by OCD: 10/30/. Form C-141 Page 4 | 2023 10:45:49 AM State of New Mexico Oil Conservation Division | L | Incident ID District RP Facility ID Application ID | Page 48 of 50 NAPP2106927983 |
|--|---|--|--|--|
| regulations all operators ar public health or the environ failed to adequately investi | ormation given above is true and complete to the e required to report and/or file certain release no nment. The acceptance of a C-141 report by the gate and remediate contamination that pose a the of a C-141 report does not relieve the operator of | otifications and perf OCD does not relieve reat to groundwater | form corrective actions for rele eve the operator of liability sho , surface water, human health | eases which may endanger ould their operations have or the environment. In |
| Printed Name: Kelton B | eaird | | Environmental Manager | |
| Signature: | ·/ | Date: | 10/19/2023 | |
| email: <u>KBeaird@btaoil</u> | | Telephone: | 432-312-2203 | |
| OCD Only Received by: | | Date: _ | | |

Page 6

Oil Conservation Division

| Incident ID | NAPP2106927983 |
|----------------|----------------|
| District RP | |
| Facility ID | |
| Application ID | |

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Closure

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

| <u>Closure Report Attachment Checklist</u>: Each of the following it | ems must be included in the closure report. | |
|---|--|--|
| A scaled site and sampling diagram as described in 19.15.29.1 | 1 NMAC | |
| Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection) | of the liner integrity if applicable (Note: appropriate OCD District office | |
| Laboratory analyses of final sampling (Note: appropriate ODC | District office must be notified 2 days prior to final sampling) | |
| Description of remediation activities | | |
| | | |
| and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rem human health or the environment. In addition, OCD acceptance of a compliance with any other federal, state, or local laws and/or regula restore, reclaim, and re-vegetate the impacted surface area to the con accordance with 19.15.29.13 NMAC including notification to the O | nediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for tions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete. | |
| M_{μ} \mathcal{O} . () | Title: Environmental Manager | |
| Signature: | Date: 10/19/2023 | |
| email: <u>KBeaird@btaoil</u> | Telephone: 432-312-2203 | |
| | | |
| OCD Only | | |
| Received by: | Date: | |
| Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations. | | |
| Closure Approved by: | Date: | |
| Printed Name: | Title: | |

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

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

District III

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

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

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

CONDITIONS

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

CONDITIONS

Created By Condition scwells None

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CONDITIONS

Action 280847

Condition Date

2/14/2024